



## &lt;LTE Band 30\_Ant 2\_Index 10&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 27710                    |                             |                           |                        |
| Frequency (MHz) |            |         |           | 2310                     |                             |                           |                        |
| 10              | QPSK       | 1       | 0         |                          | 16.91                       |                           | 18.6                   |
| 10              | QPSK       | 1       | 25        |                          | 16.76                       |                           |                        |
| 10              | QPSK       | 1       | 49        |                          | 16.80                       |                           |                        |
| 10              | QPSK       | 25      | 0         |                          | 16.87                       |                           | 18.6                   |
| 10              | QPSK       | 25      | 12        |                          | 16.86                       |                           |                        |
| 10              | QPSK       | 25      | 25        |                          | 16.84                       |                           |                        |
| 10              | QPSK       | 50      | 0         |                          | 16.86                       |                           | 18.6                   |
| 10              | 16QAM      | 1       | 0         |                          | 16.78                       |                           |                        |
| 10              | 16QAM      | 1       | 25        |                          | 16.86                       |                           |                        |
| 10              | 16QAM      | 1       | 49        |                          | 16.70                       |                           | 18.6                   |
| 10              | 16QAM      | 25      | 0         |                          | 16.90                       |                           |                        |
| 10              | 16QAM      | 25      | 12        |                          | 16.84                       |                           |                        |
| 10              | 16QAM      | 25      | 25        |                          | 16.85                       |                           | 18.6                   |
| 10              | 16QAM      | 50      | 0         |                          | 16.85                       |                           |                        |
| 10              | 64QAM      | 1       | 0         |                          | 16.82                       |                           |                        |
| 10              | 64QAM      | 1       | 25        |                          | 16.74                       |                           | 18.6                   |
| 10              | 64QAM      | 1       | 49        |                          | 16.76                       |                           |                        |
| 10              | 64QAM      | 25      | 0         |                          | 16.80                       |                           |                        |
| 10              | 64QAM      | 25      | 12        |                          | 16.88                       |                           | 18.6                   |
| 10              | 64QAM      | 25      | 25        |                          | 16.88                       |                           |                        |
| 10              | 64QAM      | 50      | 0         |                          | 16.90                       |                           |                        |
| 10              | 256QAM     | 1       | 0         |                          | 16.71                       |                           | 18.5                   |
| 10              | 256QAM     | 1       | 25        |                          | 16.75                       |                           |                        |
| 10              | 256QAM     | 1       | 49        |                          | 16.72                       |                           |                        |
| 10              | 256QAM     | 25      | 0         |                          | 16.74                       |                           | 18.5                   |
| 10              | 256QAM     | 25      | 12        |                          | 16.71                       |                           |                        |
| 10              | 256QAM     | 25      | 25        |                          | 16.70                       |                           |                        |
| 10              | 256QAM     | 50      | 0         |                          | 16.68                       |                           |                        |
| Channel         |            |         |           | 27685                    | 27710                       | 27735                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2307.5                   | 2310                        | 2312.5                    |                        |
| 5               | QPSK       | 1       | 0         | 16.73                    | 16.83                       | 16.89                     | 18.6                   |
| 5               | QPSK       | 1       | 12        | 16.66                    | 16.73                       | 16.78                     |                        |
| 5               | QPSK       | 1       | 24        | 16.71                    | 16.78                       | 16.68                     |                        |
| 5               | QPSK       | 12      | 0         | 16.76                    | 16.75                       | 16.85                     | 18.6                   |
| 5               | QPSK       | 12      | 7         | 16.67                    | 16.83                       | 16.83                     |                        |
| 5               | QPSK       | 12      | 13        | 16.77                    | 16.64                       | 16.72                     |                        |
| 5               | QPSK       | 25      | 0         | 16.69                    | 16.69                       | 16.72                     | 18.6                   |
| 5               | 16QAM      | 1       | 0         | 16.65                    | 16.65                       | 16.62                     |                        |
| 5               | 16QAM      | 1       | 12        | 16.82                    | 16.83                       | 16.72                     |                        |
| 5               | 16QAM      | 1       | 24        | 16.73                    | 16.60                       | 16.70                     | 18.6                   |
| 5               | 16QAM      | 12      | 0         | 16.77                    | 16.75                       | 16.89                     |                        |
| 5               | 16QAM      | 12      | 7         | 16.74                    | 16.76                       | 16.68                     |                        |
| 5               | 16QAM      | 12      | 13        | 16.68                    | 16.81                       | 16.78                     | 18.6                   |
| 5               | 16QAM      | 25      | 0         | 16.79                    | 16.75                       | 16.83                     |                        |
| 5               | 64QAM      | 1       | 0         | 16.75                    | 16.77                       | 16.69                     |                        |
| 5               | 64QAM      | 1       | 12        | 16.70                    | 16.61                       | 16.73                     | 18.6                   |
| 5               | 64QAM      | 1       | 24        | 16.64                    | 16.64                       | 16.75                     |                        |
| 5               | 64QAM      | 12      | 0         | 16.60                    | 16.78                       | 16.77                     |                        |
| 5               | 64QAM      | 12      | 7         | 16.76                    | 16.69                       | 16.85                     | 18.6                   |
| 5               | 64QAM      | 12      | 13        | 16.83                    | 16.87                       | 16.77                     |                        |
| 5               | 64QAM      | 25      | 0         | 16.80                    | 16.89                       | 16.84                     |                        |
| 5               | 256QAM     | 1       | 0         | 16.65                    | 16.52                       | 16.59                     | 18.5                   |
| 5               | 256QAM     | 1       | 12        | 16.66                    | 16.55                       | 16.58                     |                        |
| 5               | 256QAM     | 1       | 24        | 16.61                    | 16.60                       | 16.59                     |                        |
| 5               | 256QAM     | 12      | 0         | 16.56                    | 16.55                       | 16.70                     | 18.5                   |
| 5               | 256QAM     | 12      | 7         | 16.56                    | 16.53                       | 16.53                     |                        |
| 5               | 256QAM     | 12      | 13        | 16.61                    | 16.57                       | 16.66                     |                        |
| 5               | 256QAM     | 25      | 0         | 16.65                    | 16.62                       | 16.68                     |                        |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 27710                    |                             |                           |                        |
| Frequency (MHz) |            |         |           | 2310                     |                             |                           |                        |
| 10              | QPSK       | 1       | 0         |                          | 22.58                       |                           | 23.5                   |
| 10              | QPSK       | 1       | 25        |                          | 22.46                       |                           |                        |
| 10              | QPSK       | 1       | 49        |                          | 22.50                       |                           |                        |
| 10              | QPSK       | 25      | 0         |                          | 21.63                       |                           | 22.5                   |
| 10              | QPSK       | 25      | 12        |                          | 21.60                       |                           |                        |
| 10              | QPSK       | 25      | 25        |                          | 21.57                       |                           |                        |
| 10              | QPSK       | 50      | 0         |                          | 21.59                       |                           | 22.5                   |
| 10              | 16QAM      | 1       | 0         |                          | 21.78                       |                           |                        |
| 10              | 16QAM      | 1       | 25        |                          | 21.77                       |                           |                        |
| 10              | 16QAM      | 1       | 49        |                          | 21.75                       |                           | 21.5                   |
| 10              | 16QAM      | 25      | 0         |                          | 20.59                       |                           |                        |
| 10              | 16QAM      | 25      | 12        |                          | 20.59                       |                           |                        |
| 10              | 16QAM      | 25      | 25        |                          | 20.57                       |                           | 21.5                   |
| 10              | 16QAM      | 50      | 0         |                          | 20.57                       |                           |                        |
| 10              | 64QAM      | 1       | 0         |                          | 20.64                       |                           |                        |
| 10              | 64QAM      | 1       | 25        |                          | 20.52                       |                           | 21.5                   |
| 10              | 64QAM      | 1       | 49        |                          | 20.59                       |                           |                        |
| 10              | 64QAM      | 25      | 0         |                          | 19.56                       |                           |                        |
| 10              | 64QAM      | 25      | 12        |                          | 19.58                       |                           | 20.5                   |
| 10              | 64QAM      | 25      | 25        |                          | 19.55                       |                           |                        |
| 10              | 64QAM      | 50      | 0         |                          | 19.57                       |                           |                        |
| 10              | 256QAM     | 1       | 0         |                          | 17.93                       |                           | 18.5                   |
| 10              | 256QAM     | 1       | 25        |                          | 17.76                       |                           |                        |
| 10              | 256QAM     | 1       | 49        |                          | 17.86                       |                           |                        |
| 10              | 256QAM     | 25      | 0         |                          | 17.85                       |                           | 18.5                   |
| 10              | 256QAM     | 25      | 12        |                          | 17.83                       |                           |                        |
| 10              | 256QAM     | 25      | 25        |                          | 17.83                       |                           |                        |
| 10              | 256QAM     | 50      | 0         |                          | 17.80                       |                           |                        |
| Channel         |            |         |           | 27685                    | 27710                       | 27735                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2307.5                   | 2310                        | 2312.5                    |                        |
| 5               | QPSK       | 1       | 0         | 22.39                    | 22.53                       | 22.46                     | 23.5                   |
| 5               | QPSK       | 1       | 12        | 22.36                    | 22.42                       | 22.36                     |                        |
| 5               | QPSK       | 1       | 24        | 22.34                    | 22.38                       | 22.50                     |                        |
| 5               | QPSK       | 12      | 0         | 21.51                    | 21.46                       | 21.43                     | 22.5                   |
| 5               | QPSK       | 12      | 7         | 21.58                    | 21.43                       | 21.45                     |                        |
| 5               | QPSK       | 12      | 13        | 21.43                    | 21.39                       | 21.50                     |                        |
| 5               | QPSK       | 25      | 0         | 21.48                    | 21.43                       | 21.48                     | 22.5                   |
| 5               | 16QAM      | 1       | 0         | 21.77                    | 21.61                       | 21.77                     |                        |
| 5               | 16QAM      | 1       | 12        | 21.71                    | 21.76                       | 21.61                     |                        |
| 5               | 16QAM      | 1       | 24        | 21.63                    | 21.56                       | 21.66                     | 21.5                   |
| 5               | 16QAM      | 12      | 0         | 20.42                    | 20.42                       | 20.46                     |                        |
| 5               | 16QAM      | 12      | 7         | 20.53                    | 20.59                       | 20.52                     |                        |
| 5               | 16QAM      | 12      | 13        | 20.39                    | 20.40                       | 20.56                     | 21.5                   |
| 5               | 16QAM      | 25      | 0         | 20.37                    | 20.49                       | 20.43                     |                        |
| 5               | 64QAM      | 1       | 0         | 20.47                    | 20.59                       | 20.57                     |                        |
| 5               | 64QAM      | 1       | 12        | 20.42                    | 20.44                       | 20.50                     | 21.5                   |
| 5               | 64QAM      | 1       | 24        | 20.56                    | 20.42                       | 20.51                     |                        |
| 5               | 64QAM      | 12      | 0         | 19.53                    | 19.47                       | 19.37                     |                        |
| 5               | 64QAM      | 12      | 7         | 19.44                    | 19.45                       | 19.46                     | 20.5                   |
| 5               | 64QAM      | 12      | 13        | 19.41                    | 19.44                       | 19.49                     |                        |
| 5               | 64QAM      | 25      | 0         | 19.43                    | 19.38                       | 19.50                     |                        |
| 5               | 256QAM     | 1       | 0         | 17.87                    | 17.86                       | 17.75                     | 18.5                   |
| 5               | 256QAM     | 1       | 12        | 17.71                    | 17.58                       | 17.58                     |                        |
| 5               | 256QAM     | 1       | 24        | 17.82                    | 17.79                       | 17.86                     |                        |
| 5               | 256QAM     | 12      | 0         | 17.84                    | 17.74                       | 17.80                     | 18.5                   |
| 5               | 256QAM     | 12      | 7         | 17.67                    | 17.82                       | 17.73                     |                        |
| 5               | 256QAM     | 12      | 13        | 17.83                    | 17.74                       | 17.76                     |                        |
| 5               | 256QAM     | 25      | 0         | 17.74                    | 17.79                       | 17.80                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 27710                    |                             |                           |                        |
| Frequency (MHz) |            |         |           | 2310                     |                             |                           |                        |
| 10              | QPSK       | 1       | 0         |                          | 16.91                       |                           | 17.8                   |
| 10              | QPSK       | 1       | 25        |                          | 16.76                       |                           |                        |
| 10              | QPSK       | 1       | 49        |                          | 16.80                       |                           |                        |
| 10              | QPSK       | 25      | 0         |                          | 16.87                       |                           | 17.8                   |
| 10              | QPSK       | 25      | 12        |                          | 16.86                       |                           |                        |
| 10              | QPSK       | 25      | 25        |                          | 16.84                       |                           |                        |
| 10              | QPSK       | 50      | 0         |                          | 16.86                       |                           | 17.8                   |
| 10              | 16QAM      | 1       | 0         |                          | 16.78                       |                           |                        |
| 10              | 16QAM      | 1       | 25        |                          | 16.86                       |                           |                        |
| 10              | 16QAM      | 1       | 49        |                          | 16.70                       |                           | 17.8                   |
| 10              | 16QAM      | 25      | 0         |                          | 16.90                       |                           |                        |
| 10              | 16QAM      | 25      | 12        |                          | 16.84                       |                           |                        |
| 10              | 16QAM      | 25      | 25        |                          | 16.85                       |                           | 17.8                   |
| 10              | 16QAM      | 50      | 0         |                          | 16.85                       |                           |                        |
| 10              | 64QAM      | 1       | 0         |                          | 16.82                       |                           |                        |
| 10              | 64QAM      | 1       | 25        |                          | 16.74                       |                           | 17.8                   |
| 10              | 64QAM      | 1       | 49        |                          | 16.76                       |                           |                        |
| 10              | 64QAM      | 25      | 0         |                          | 16.80                       |                           |                        |
| 10              | 64QAM      | 25      | 12        |                          | 16.88                       |                           | 17.8                   |
| 10              | 64QAM      | 25      | 25        |                          | 16.88                       |                           |                        |
| 10              | 64QAM      | 50      | 0         |                          | 16.90                       |                           |                        |
| 10              | 256QAM     | 1       | 0         |                          | 16.71                       |                           | 17.8                   |
| 10              | 256QAM     | 1       | 25        |                          | 16.75                       |                           |                        |
| 10              | 256QAM     | 1       | 49        |                          | 16.72                       |                           |                        |
| 10              | 256QAM     | 25      | 0         |                          | 16.74                       |                           | 17.8                   |
| 10              | 256QAM     | 25      | 12        |                          | 16.71                       |                           |                        |
| 10              | 256QAM     | 25      | 25        |                          | 16.70                       |                           |                        |
| 10              | 256QAM     | 50      | 0         |                          | 16.68                       |                           |                        |
| Channel         |            |         |           | 27685                    | 27710                       | 27735                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2307.5                   | 2310                        | 2312.5                    |                        |
| 5               | QPSK       | 1       | 0         | 16.73                    | 16.83                       | 16.89                     | 17.8                   |
| 5               | QPSK       | 1       | 12        | 16.66                    | 16.73                       | 16.78                     |                        |
| 5               | QPSK       | 1       | 24        | 16.71                    | 16.78                       | 16.68                     |                        |
| 5               | QPSK       | 12      | 0         | 16.76                    | 16.75                       | 16.85                     | 17.8                   |
| 5               | QPSK       | 12      | 7         | 16.67                    | 16.83                       | 16.83                     |                        |
| 5               | QPSK       | 12      | 13        | 16.77                    | 16.64                       | 16.72                     |                        |
| 5               | QPSK       | 25      | 0         | 16.69                    | 16.69                       | 16.72                     | 17.8                   |
| 5               | 16QAM      | 1       | 0         | 16.65                    | 16.65                       | 16.62                     |                        |
| 5               | 16QAM      | 1       | 12        | 16.82                    | 16.83                       | 16.72                     |                        |
| 5               | 16QAM      | 1       | 24        | 16.73                    | 16.60                       | 16.70                     | 17.8                   |
| 5               | 16QAM      | 12      | 0         | 16.77                    | 16.75                       | 16.89                     |                        |
| 5               | 16QAM      | 12      | 7         | 16.74                    | 16.76                       | 16.68                     |                        |
| 5               | 16QAM      | 12      | 13        | 16.68                    | 16.81                       | 16.78                     | 17.8                   |
| 5               | 16QAM      | 25      | 0         | 16.79                    | 16.75                       | 16.83                     |                        |
| 5               | 64QAM      | 1       | 0         | 16.75                    | 16.77                       | 16.69                     |                        |
| 5               | 64QAM      | 1       | 12        | 16.70                    | 16.61                       | 16.73                     | 17.8                   |
| 5               | 64QAM      | 1       | 24        | 16.64                    | 16.64                       | 16.75                     |                        |
| 5               | 64QAM      | 12      | 0         | 16.60                    | 16.78                       | 16.77                     |                        |
| 5               | 64QAM      | 12      | 7         | 16.76                    | 16.69                       | 16.85                     | 17.8                   |
| 5               | 64QAM      | 12      | 13        | 16.83                    | 16.87                       | 16.77                     |                        |
| 5               | 64QAM      | 25      | 0         | 16.80                    | 16.89                       | 16.84                     |                        |
| 5               | 256QAM     | 1       | 0         | 16.65                    | 16.52                       | 16.59                     | 17.8                   |
| 5               | 256QAM     | 1       | 12        | 16.66                    | 16.55                       | 16.58                     |                        |
| 5               | 256QAM     | 1       | 24        | 16.61                    | 16.60                       | 16.59                     |                        |
| 5               | 256QAM     | 12      | 0         | 16.56                    | 16.55                       | 16.70                     | 17.8                   |
| 5               | 256QAM     | 12      | 7         | 16.56                    | 16.53                       | 16.53                     |                        |
| 5               | 256QAM     | 12      | 13        | 16.61                    | 16.57                       | 16.66                     |                        |
| 5               | 256QAM     | 25      | 0         | 16.65                    | 16.62                       | 16.68                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 27710                    |                             |                           |                        |
| Frequency (MHz) |            |         |           | 2310                     |                             |                           |                        |
| 10              | QPSK       | 1       | 0         |                          | 22.58                       |                           | 23.5                   |
| 10              | QPSK       | 1       | 25        |                          | 22.46                       |                           |                        |
| 10              | QPSK       | 1       | 49        |                          | 22.50                       |                           |                        |
| 10              | QPSK       | 25      | 0         |                          | 21.63                       |                           | 22.5                   |
| 10              | QPSK       | 25      | 12        |                          | 21.60                       |                           |                        |
| 10              | QPSK       | 25      | 25        |                          | 21.57                       |                           |                        |
| 10              | QPSK       | 50      | 0         |                          | 21.59                       |                           | 22.5                   |
| 10              | 16QAM      | 1       | 0         |                          | 21.78                       |                           |                        |
| 10              | 16QAM      | 1       | 25        |                          | 21.77                       |                           |                        |
| 10              | 16QAM      | 1       | 49        |                          | 21.75                       |                           | 21.5                   |
| 10              | 16QAM      | 25      | 0         |                          | 20.59                       |                           |                        |
| 10              | 16QAM      | 25      | 12        |                          | 20.59                       |                           |                        |
| 10              | 16QAM      | 25      | 25        |                          | 20.57                       |                           | 21.5                   |
| 10              | 16QAM      | 50      | 0         |                          | 20.57                       |                           |                        |
| 10              | 64QAM      | 1       | 0         |                          | 20.64                       |                           |                        |
| 10              | 64QAM      | 1       | 25        |                          | 20.52                       |                           | 21.5                   |
| 10              | 64QAM      | 1       | 49        |                          | 20.59                       |                           |                        |
| 10              | 64QAM      | 25      | 0         |                          | 19.56                       |                           |                        |
| 10              | 64QAM      | 25      | 12        |                          | 19.58                       |                           | 20.5                   |
| 10              | 64QAM      | 25      | 25        |                          | 19.55                       |                           |                        |
| 10              | 64QAM      | 50      | 0         |                          | 19.57                       |                           |                        |
| 10              | 256QAM     | 1       | 0         |                          | 17.93                       |                           | 18.5                   |
| 10              | 256QAM     | 1       | 25        |                          | 17.76                       |                           |                        |
| 10              | 256QAM     | 1       | 49        |                          | 17.86                       |                           |                        |
| 10              | 256QAM     | 25      | 0         |                          | 17.85                       |                           | 18.5                   |
| 10              | 256QAM     | 25      | 12        |                          | 17.83                       |                           |                        |
| 10              | 256QAM     | 25      | 25        |                          | 17.83                       |                           |                        |
| 10              | 256QAM     | 50      | 0         |                          | 17.80                       |                           |                        |
| Channel         |            |         |           | 27685                    | 27710                       | 27735                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2307.5                   | 2310                        | 2312.5                    |                        |
| 5               | QPSK       | 1       | 0         | 22.39                    | 22.53                       | 22.46                     | 23.5                   |
| 5               | QPSK       | 1       | 12        | 22.36                    | 22.42                       | 22.36                     |                        |
| 5               | QPSK       | 1       | 24        | 22.34                    | 22.38                       | 22.50                     |                        |
| 5               | QPSK       | 12      | 0         | 21.51                    | 21.46                       | 21.43                     | 22.5                   |
| 5               | QPSK       | 12      | 7         | 21.58                    | 21.43                       | 21.45                     |                        |
| 5               | QPSK       | 12      | 13        | 21.43                    | 21.39                       | 21.50                     |                        |
| 5               | QPSK       | 25      | 0         | 21.48                    | 21.43                       | 21.48                     | 22.5                   |
| 5               | 16QAM      | 1       | 0         | 21.77                    | 21.61                       | 21.77                     |                        |
| 5               | 16QAM      | 1       | 12        | 21.71                    | 21.76                       | 21.61                     |                        |
| 5               | 16QAM      | 1       | 24        | 21.63                    | 21.56                       | 21.66                     | 21.5                   |
| 5               | 16QAM      | 12      | 0         | 20.42                    | 20.42                       | 20.46                     |                        |
| 5               | 16QAM      | 12      | 7         | 20.53                    | 20.59                       | 20.52                     |                        |
| 5               | 16QAM      | 12      | 13        | 20.39                    | 20.40                       | 20.56                     | 21.5                   |
| 5               | 16QAM      | 25      | 0         | 20.37                    | 20.49                       | 20.43                     |                        |
| 5               | 64QAM      | 1       | 0         | 20.47                    | 20.59                       | 20.57                     |                        |
| 5               | 64QAM      | 1       | 12        | 20.42                    | 20.44                       | 20.50                     | 21.5                   |
| 5               | 64QAM      | 1       | 24        | 20.56                    | 20.42                       | 20.51                     |                        |
| 5               | 64QAM      | 12      | 0         | 19.53                    | 19.47                       | 19.37                     |                        |
| 5               | 64QAM      | 12      | 7         | 19.44                    | 19.45                       | 19.46                     | 20.5                   |
| 5               | 64QAM      | 12      | 13        | 19.41                    | 19.44                       | 19.49                     |                        |
| 5               | 64QAM      | 25      | 0         | 19.43                    | 19.38                       | 19.50                     |                        |
| 5               | 256QAM     | 1       | 0         | 17.87                    | 17.86                       | 17.75                     | 18.5                   |
| 5               | 256QAM     | 1       | 12        | 17.71                    | 17.58                       | 17.58                     |                        |
| 5               | 256QAM     | 1       | 24        | 17.82                    | 17.79                       | 17.86                     |                        |
| 5               | 256QAM     | 12      | 0         | 17.84                    | 17.74                       | 17.80                     | 18.5                   |
| 5               | 256QAM     | 12      | 7         | 17.67                    | 17.82                       | 17.73                     |                        |
| 5               | 256QAM     | 12      | 13        | 17.83                    | 17.74                       | 17.76                     |                        |
| 5               | 256QAM     | 25      | 0         | 17.74                    | 17.79                       | 17.80                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 24.66                    | 24.70                       | 24.71                     |                        |
| 20              | QPSK       | 1       | 49        | 24.55                    | 24.54                       | 24.55                     | 25.6                   |
| 20              | QPSK       | 1       | 99        | 24.51                    | 24.50                       | 24.47                     |                        |
| 20              | QPSK       | 50      | 0         | 23.70                    | 23.69                       | 23.72                     |                        |
| 20              | QPSK       | 50      | 24        | 23.65                    | 23.66                       | 23.63                     | 24.6                   |
| 20              | QPSK       | 50      | 50        | 23.59                    | 23.60                       | 23.58                     |                        |
| 20              | QPSK       | 100     | 0         | 23.63                    | 23.61                       | 23.65                     |                        |
| 20              | 16QAM      | 1       | 0         | 24.00                    | 24.04                       | 24.05                     | 24.6                   |
| 20              | 16QAM      | 1       | 49        | 23.84                    | 23.87                       | 23.83                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.92                    | 23.84                       | 23.80                     |                        |
| 20              | 16QAM      | 50      | 0         | 22.70                    | 22.70                       | 22.66                     | 23.6                   |
| 20              | 16QAM      | 50      | 24        | 22.65                    | 22.64                       | 22.62                     |                        |
| 20              | 16QAM      | 50      | 50        | 22.59                    | 22.60                       | 22.55                     |                        |
| 20              | 16QAM      | 100     | 0         | 22.65                    | 22.65                       | 22.62                     | 23.6                   |
| 20              | 64QAM      | 1       | 0         | 22.90                    | 22.87                       | 22.86                     |                        |
| 20              | 64QAM      | 1       | 49        | 22.75                    | 22.72                       | 22.74                     |                        |
| 20              | 64QAM      | 1       | 99        | 22.79                    | 22.80                       | 22.68                     | 22.6                   |
| 20              | 64QAM      | 50      | 0         | 21.69                    | 21.69                       | 21.68                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.66                    | 21.68                       | 21.63                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.58                    | 21.60                       | 21.58                     | 20.6                   |
| 20              | 64QAM      | 100     | 0         | 21.65                    | 21.67                       | 21.64                     |                        |
| 20              | 256QAM     | 1       | 0         | 20.24                    | 20.16                       | 20.16                     |                        |
| 20              | 256QAM     | 1       | 49        | 20.01                    | 20.07                       | 20.05                     | 20.6                   |
| 20              | 256QAM     | 1       | 99        | 20.04                    | 20.06                       | 19.94                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.99                    | 19.99                       | 19.97                     |                        |
| 20              | 256QAM     | 50      | 24        | 19.91                    | 19.93                       | 19.88                     | 20.6                   |
| 20              | 256QAM     | 50      | 50        | 19.91                    | 19.93                       | 19.90                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.97                    | 19.95                       | 19.98                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    |                        |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 24.59                    | 24.67                       | 24.62                     |                        |
| 15              | QPSK       | 1       | 37        | 24.46                    | 24.48                       | 24.52                     | 25.6                   |
| 15              | QPSK       | 1       | 74        | 24.49                    | 24.45                       | 24.42                     |                        |
| 15              | QPSK       | 36      | 0         | 23.64                    | 23.63                       | 23.65                     | 24.6                   |
| 15              | QPSK       | 36      | 20        | 23.55                    | 23.65                       | 23.55                     |                        |
| 15              | QPSK       | 36      | 39        | 23.51                    | 23.52                       | 23.51                     |                        |
| 15              | QPSK       | 75      | 0         | 23.62                    | 23.57                       | 23.64                     | 24.6                   |
| 15              | 16QAM      | 1       | 0         | 23.94                    | 23.96                       | 24.03                     |                        |
| 15              | 16QAM      | 1       | 37        | 23.79                    | 23.77                       | 23.78                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.90                    | 23.77                       | 23.71                     | 23.6                   |
| 15              | 16QAM      | 36      | 0         | 22.69                    | 22.67                       | 22.58                     |                        |
| 15              | 16QAM      | 36      | 20        | 22.63                    | 22.60                       | 22.55                     |                        |
| 15              | 16QAM      | 36      | 39        | 22.58                    | 22.52                       | 22.53                     | 23.6                   |
| 15              | 16QAM      | 75      | 0         | 22.56                    | 22.61                       | 22.53                     |                        |
| 15              | 64QAM      | 1       | 0         | 22.89                    | 22.80                       | 22.83                     |                        |
| 15              | 64QAM      | 1       | 37        | 22.74                    | 22.65                       | 22.71                     | 22.6                   |
| 15              | 64QAM      | 1       | 74        | 22.77                    | 22.71                       | 22.58                     |                        |
| 15              | 64QAM      | 36      | 0         | 21.66                    | 21.66                       | 21.68                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.63                    | 21.61                       | 21.57                     | 20.6                   |
| 15              | 64QAM      | 36      | 39        | 21.58                    | 21.56                       | 21.48                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.62                    | 21.57                       | 21.60                     |                        |
| 15              | 256QAM     | 1       | 0         | 20.24                    | 20.15                       | 20.15                     | 20.6                   |
| 15              | 256QAM     | 1       | 37        | 19.98                    | 20.00                       | 19.97                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.95                    | 19.99                       | 19.87                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.93                    | 19.95                       | 19.89                     | 20.6                   |
| 15              | 256QAM     | 36      | 20        | 19.87                    | 19.83                       | 19.82                     |                        |



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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 19.86  | 19.88  | 19.85  | Tune-up limit (dBm) |
| 15              | 256QAM | 75 | 0  | 19.94  | 19.89  | 19.88  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 24.54  | 24.67  | 24.61  | 25.6                |
| 10              | QPSK   | 1  | 25 | 24.46  | 24.54  | 24.53  |                     |
| 10              | QPSK   | 1  | 49 | 24.50  | 24.47  | 24.46  |                     |
| 10              | QPSK   | 25 | 0  | 23.61  | 23.61  | 23.67  | 24.6                |
| 10              | QPSK   | 25 | 12 | 23.62  | 23.62  | 23.56  |                     |
| 10              | QPSK   | 25 | 25 | 23.59  | 23.53  | 23.48  |                     |
| 10              | QPSK   | 50 | 0  | 23.63  | 23.55  | 23.60  |                     |
| 10              | 16QAM  | 1  | 0  | 23.91  | 24.00  | 24.03  | 24.6                |
| 10              | 16QAM  | 1  | 25 | 23.74  | 23.87  | 23.81  |                     |
| 10              | 16QAM  | 1  | 49 | 23.88  | 23.78  | 23.73  |                     |
| 10              | 16QAM  | 25 | 0  | 22.63  | 22.70  | 22.61  | 23.6                |
| 10              | 16QAM  | 25 | 12 | 22.63  | 22.54  | 22.61  |                     |
| 10              | 16QAM  | 25 | 25 | 22.50  | 22.50  | 22.54  |                     |
| 10              | 16QAM  | 50 | 0  | 22.62  | 22.58  | 22.56  |                     |
| 10              | 64QAM  | 1  | 0  | 22.89  | 22.85  | 22.83  | 23.6                |
| 10              | 64QAM  | 1  | 25 | 22.73  | 22.67  | 22.71  |                     |
| 10              | 64QAM  | 1  | 49 | 22.70  | 22.72  | 22.59  |                     |
| 10              | 64QAM  | 25 | 0  | 21.68  | 21.59  | 21.67  | 22.6                |
| 10              | 64QAM  | 25 | 12 | 21.58  | 21.58  | 21.60  |                     |
| 10              | 64QAM  | 25 | 25 | 21.48  | 21.58  | 21.56  |                     |
| 10              | 64QAM  | 50 | 0  | 21.65  | 21.66  | 21.61  |                     |
| 10              | 256QAM | 1  | 0  | 20.17  | 20.15  | 20.10  | 20.6                |
| 10              | 256QAM | 1  | 25 | 19.96  | 20.07  | 20.02  |                     |
| 10              | 256QAM | 1  | 49 | 19.94  | 19.99  | 19.86  |                     |
| 10              | 256QAM | 25 | 0  | 19.90  | 19.91  | 19.94  | 20.6                |
| 10              | 256QAM | 25 | 12 | 19.88  | 19.93  | 19.87  |                     |
| 10              | 256QAM | 25 | 25 | 19.88  | 19.89  | 19.85  |                     |
| 10              | 256QAM | 50 | 0  | 19.94  | 19.88  | 19.97  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 24.59  | 24.62  | 24.65  | 25.6                |
| 5               | QPSK   | 1  | 12 | 24.50  | 24.45  | 24.50  |                     |
| 5               | QPSK   | 1  | 24 | 24.50  | 24.41  | 24.47  |                     |
| 5               | QPSK   | 12 | 0  | 23.66  | 23.66  | 23.64  | 24.6                |
| 5               | QPSK   | 12 | 7  | 23.60  | 23.65  | 23.61  |                     |
| 5               | QPSK   | 12 | 13 | 23.54  | 23.60  | 23.50  |                     |
| 5               | QPSK   | 25 | 0  | 23.60  | 23.51  | 23.55  |                     |
| 5               | 16QAM  | 1  | 0  | 23.97  | 23.95  | 23.99  | 24.6                |
| 5               | 16QAM  | 1  | 12 | 23.74  | 23.78  | 23.73  |                     |
| 5               | 16QAM  | 1  | 24 | 23.90  | 23.76  | 23.77  |                     |
| 5               | 16QAM  | 12 | 0  | 22.61  | 22.63  | 22.61  | 23.6                |
| 5               | 16QAM  | 12 | 7  | 22.64  | 22.59  | 22.57  |                     |
| 5               | 16QAM  | 12 | 13 | 22.56  | 22.59  | 22.45  |                     |
| 5               | 16QAM  | 25 | 0  | 22.57  | 22.61  | 22.58  |                     |
| 5               | 64QAM  | 1  | 0  | 22.86  | 22.83  | 22.79  | 23.6                |
| 5               | 64QAM  | 1  | 12 | 22.75  | 22.62  | 22.68  |                     |
| 5               | 64QAM  | 1  | 24 | 22.72  | 22.77  | 22.63  |                     |
| 5               | 64QAM  | 12 | 0  | 21.59  | 21.63  | 21.60  | 22.6                |
| 5               | 64QAM  | 12 | 7  | 21.64  | 21.59  | 21.61  |                     |
| 5               | 64QAM  | 12 | 13 | 21.58  | 21.54  | 21.53  |                     |
| 5               | 64QAM  | 25 | 0  | 21.58  | 21.57  | 21.62  |                     |
| 5               | 256QAM | 1  | 0  | 20.16  | 20.16  | 20.13  | 20.6                |
| 5               | 256QAM | 1  | 12 | 19.95  | 20.03  | 19.95  |                     |
| 5               | 256QAM | 1  | 24 | 20.01  | 19.99  | 19.91  |                     |
| 5               | 256QAM | 12 | 0  | 19.89  | 19.99  | 19.94  | 20.6                |
| 5               | 256QAM | 12 | 7  | 19.87  | 19.84  | 19.79  |                     |
| 5               | 256QAM | 12 | 13 | 19.81  | 19.85  | 19.81  |                     |
| 5               | 256QAM | 25 | 0  | 19.93  | 19.92  | 19.90  |                     |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit       |



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| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 | (dBm)               |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 3               | QPSK   | 1  | 0  | 24.58  | 24.60  | 24.69  | 25.6                |
| 3               | QPSK   | 1  | 8  | 24.46  | 24.52  | 24.54  |                     |
| 3               | QPSK   | 1  | 14 | 24.43  | 24.50  | 24.39  |                     |
| 3               | QPSK   | 8  | 0  | 23.65  | 23.63  | 23.65  | 24.6                |
| 3               | QPSK   | 8  | 4  | 23.65  | 23.59  | 23.53  |                     |
| 3               | QPSK   | 8  | 7  | 23.54  | 23.55  | 23.51  |                     |
| 3               | QPSK   | 15 | 0  | 23.61  | 23.61  | 23.65  | 24.6                |
| 3               | 16QAM  | 1  | 0  | 23.95  | 23.94  | 23.99  |                     |
| 3               | 16QAM  | 1  | 8  | 23.76  | 23.82  | 23.79  |                     |
| 3               | 16QAM  | 1  | 14 | 23.84  | 23.78  | 23.80  | 23.6                |
| 3               | 16QAM  | 8  | 0  | 22.60  | 22.69  | 22.57  |                     |
| 3               | 16QAM  | 8  | 4  | 22.60  | 22.63  | 22.58  |                     |
| 3               | 16QAM  | 8  | 7  | 22.51  | 22.60  | 22.54  | 23.6                |
| 3               | 16QAM  | 15 | 0  | 22.62  | 22.65  | 22.55  |                     |
| 3               | 64QAM  | 1  | 0  | 22.80  | 22.86  | 22.77  |                     |
| 3               | 64QAM  | 1  | 8  | 22.67  | 22.66  | 22.64  | 22.6                |
| 3               | 64QAM  | 1  | 14 | 22.70  | 22.80  | 22.58  |                     |
| 3               | 64QAM  | 8  | 0  | 21.62  | 21.67  | 21.64  |                     |
| 3               | 64QAM  | 8  | 4  | 21.59  | 21.66  | 21.58  | 20.6                |
| 3               | 64QAM  | 8  | 7  | 21.57  | 21.60  | 21.49  |                     |
| 3               | 64QAM  | 15 | 0  | 21.62  | 21.58  | 21.60  |                     |
| 3               | 256QAM | 1  | 0  | 20.16  | 20.10  | 20.12  | 20.6                |
| 3               | 256QAM | 1  | 8  | 19.95  | 19.98  | 20.00  |                     |
| 3               | 256QAM | 1  | 14 | 19.99  | 20.04  | 19.93  |                     |
| 3               | 256QAM | 8  | 0  | 19.90  | 19.89  | 19.96  | 20.6                |
| 3               | 256QAM | 8  | 4  | 19.91  | 19.86  | 19.85  |                     |
| 3               | 256QAM | 8  | 7  | 19.85  | 19.87  | 19.84  |                     |
| 3               | 256QAM | 15 | 0  | 19.92  | 19.89  | 19.98  | Tune-up limit (dBm) |
| Channel         |        |    |    | 131979 | 132322 | 132665 |                     |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                     |
| 1.4             | QPSK   | 1  | 0  | 24.61  | 24.59  | 24.62  | 25.6                |
| 1.4             | QPSK   | 1  | 3  | 24.48  | 24.53  | 24.46  |                     |
| 1.4             | QPSK   | 1  | 5  | 24.41  | 24.43  | 24.42  |                     |
| 1.4             | QPSK   | 3  | 0  | 24.56  | 24.51  | 24.55  | 24.6                |
| 1.4             | QPSK   | 3  | 1  | 24.55  | 24.49  | 24.52  |                     |
| 1.4             | QPSK   | 3  | 3  | 24.52  | 24.55  | 24.57  |                     |
| 1.4             | QPSK   | 6  | 0  | 23.56  | 23.57  | 23.63  | 24.6                |
| 1.4             | 16QAM  | 1  | 0  | 23.96  | 23.98  | 24.03  |                     |
| 1.4             | 16QAM  | 1  | 3  | 23.84  | 23.77  | 23.79  |                     |
| 1.4             | 16QAM  | 1  | 5  | 23.82  | 23.76  | 23.72  | 24.6                |
| 1.4             | 16QAM  | 3  | 0  | 23.92  | 24.04  | 23.98  |                     |
| 1.4             | 16QAM  | 3  | 1  | 23.74  | 23.86  | 23.73  |                     |
| 1.4             | 16QAM  | 3  | 3  | 23.91  | 23.81  | 23.71  | 23.6                |
| 1.4             | 16QAM  | 6  | 0  | 22.58  | 22.62  | 22.54  |                     |
| 1.4             | 64QAM  | 1  | 0  | 22.89  | 22.77  | 22.77  |                     |
| 1.4             | 64QAM  | 1  | 3  | 22.70  | 22.68  | 22.67  | 23.6                |
| 1.4             | 64QAM  | 1  | 5  | 22.75  | 22.77  | 22.66  |                     |
| 1.4             | 64QAM  | 3  | 0  | 22.86  | 22.85  | 22.81  |                     |
| 1.4             | 64QAM  | 3  | 1  | 22.71  | 22.68  | 22.69  | 22.6                |
| 1.4             | 64QAM  | 3  | 3  | 22.78  | 22.75  | 22.66  |                     |
| 1.4             | 64QAM  | 6  | 0  | 21.59  | 21.58  | 21.55  |                     |
| 1.4             | 256QAM | 1  | 0  | 20.21  | 20.09  | 20.09  | 20.6                |
| 1.4             | 256QAM | 1  | 3  | 19.99  | 19.98  | 20.02  |                     |
| 1.4             | 256QAM | 1  | 5  | 20.00  | 20.04  | 19.88  |                     |
| 1.4             | 256QAM | 3  | 0  | 19.97  | 19.93  | 19.89  | 20.6                |
| 1.4             | 256QAM | 3  | 1  | 19.84  | 19.88  | 19.81  |                     |
| 1.4             | 256QAM | 3  | 3  | 19.86  | 19.87  | 19.87  |                     |
| 1.4             | 256QAM | 6  | 0  | 19.94  | 19.90  | 19.96  | 20.6                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 17.57                    | 17.51                       | 17.44                     | 17.7                   |
| 20              | QPSK       | 1       | 49        | 17.44                    | 17.34                       | 17.24                     |                        |
| 20              | QPSK       | 1       | 99        | 17.56                    | 17.35                       | 17.26                     |                        |
| 20              | QPSK       | 50      | 0         | 17.53                    | 17.35                       | 17.37                     | 17.7                   |
| 20              | QPSK       | 50      | 24        | 17.50                    | 17.31                       | 17.34                     |                        |
| 20              | QPSK       | 50      | 50        | 17.46                    | 17.32                       | 17.28                     |                        |
| 20              | QPSK       | 100     | 0         | 17.52                    | 17.45                       | 17.43                     |                        |
| 20              | 16QAM      | 1       | 0         | 17.51                    | 17.37                       | 17.26                     | 17.7                   |
| 20              | 16QAM      | 1       | 49        | 17.39                    | 17.41                       | 17.32                     |                        |
| 20              | 16QAM      | 1       | 99        | 17.41                    | 17.43                       | 17.40                     |                        |
| 20              | 16QAM      | 50      | 0         | 17.56                    | 17.42                       | 17.30                     | 17.7                   |
| 20              | 16QAM      | 50      | 24        | 17.43                    | 17.44                       | 17.41                     |                        |
| 20              | 16QAM      | 50      | 50        | 17.52                    | 17.48                       | 17.29                     |                        |
| 20              | 16QAM      | 100     | 0         | 17.40                    | 17.32                       | 17.26                     |                        |
| 20              | 64QAM      | 1       | 0         | 17.43                    | 17.33                       | 17.25                     | 17.7                   |
| 20              | 64QAM      | 1       | 49        | 17.39                    | 17.35                       | 17.35                     |                        |
| 20              | 64QAM      | 1       | 99        | 17.39                    | 17.46                       | 17.29                     |                        |
| 20              | 64QAM      | 50      | 0         | 17.50                    | 17.43                       | 17.27                     | 17.7                   |
| 20              | 64QAM      | 50      | 24        | 17.43                    | 17.51                       | 17.41                     |                        |
| 20              | 64QAM      | 50      | 50        | 17.56                    | 17.37                       | 17.42                     |                        |
| 20              | 64QAM      | 100     | 0         | 17.54                    | 17.38                       | 17.25                     |                        |
| 20              | 256QAM     | 1       | 0         | 17.51                    | 17.32                       | 17.36                     | 17.7                   |
| 20              | 256QAM     | 1       | 49        | 17.38                    | 17.40                       | 17.39                     |                        |
| 20              | 256QAM     | 1       | 99        | 17.48                    | 17.48                       | 17.43                     |                        |
| 20              | 256QAM     | 50      | 0         | 17.45                    | 17.35                       | 17.41                     | 17.7                   |
| 20              | 256QAM     | 50      | 24        | 17.38                    | 17.42                       | 17.35                     |                        |
| 20              | 256QAM     | 50      | 50        | 17.41                    | 17.45                       | 17.42                     |                        |
| 20              | 256QAM     | 100     | 0         | 17.47                    | 17.50                       | 17.24                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    |                        |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 17.50                    | 17.42                       | 17.24                     | 17.7                   |
| 15              | QPSK       | 1       | 37        | 17.30                    | 17.26                       | 17.15                     |                        |
| 15              | QPSK       | 1       | 74        | 17.40                    | 17.21                       | 17.12                     |                        |
| 15              | QPSK       | 36      | 0         | 17.40                    | 17.29                       | 17.32                     | 17.7                   |
| 15              | QPSK       | 36      | 20        | 17.43                    | 17.27                       | 17.19                     |                        |
| 15              | QPSK       | 36      | 39        | 17.29                    | 17.28                       | 17.24                     |                        |
| 15              | QPSK       | 75      | 0         | 17.35                    | 17.40                       | 17.35                     |                        |
| 15              | 16QAM      | 1       | 0         | 17.44                    | 17.37                       | 17.22                     | 17.7                   |
| 15              | 16QAM      | 1       | 37        | 17.22                    | 17.33                       | 17.18                     |                        |
| 15              | 16QAM      | 1       | 74        | 17.30                    | 17.29                       | 17.21                     |                        |
| 15              | 16QAM      | 36      | 0         | 17.41                    | 17.22                       | 17.30                     | 17.7                   |
| 15              | 16QAM      | 36      | 20        | 17.31                    | 17.25                       | 17.24                     |                        |
| 15              | 16QAM      | 36      | 39        | 17.45                    | 17.44                       | 17.27                     |                        |
| 15              | 16QAM      | 75      | 0         | 17.38                    | 17.15                       | 17.17                     |                        |
| 15              | 64QAM      | 1       | 0         | 17.42                    | 17.14                       | 17.24                     | 17.7                   |
| 15              | 64QAM      | 1       | 37        | 17.32                    | 17.34                       | 17.33                     |                        |
| 15              | 64QAM      | 1       | 74        | 17.27                    | 17.31                       | 17.28                     |                        |
| 15              | 64QAM      | 36      | 0         | 17.42                    | 17.29                       | 17.17                     | 17.7                   |
| 15              | 64QAM      | 36      | 20        | 17.38                    | 17.42                       | 17.30                     |                        |
| 15              | 64QAM      | 36      | 39        | 17.53                    | 17.22                       | 17.38                     |                        |
| 15              | 64QAM      | 75      | 0         | 17.43                    | 17.36                       | 17.17                     |                        |
| 15              | 256QAM     | 1       | 0         | 17.44                    | 17.20                       | 17.30                     | 17.7                   |
| 15              | 256QAM     | 1       | 37        | 17.33                    | 17.23                       | 17.36                     |                        |
| 15              | 256QAM     | 1       | 74        | 17.43                    | 17.34                       | 17.33                     |                        |
| 15              | 256QAM     | 36      | 0         | 17.36                    | 17.23                       | 17.39                     | 17.7                   |
| 15              | 256QAM     | 36      | 20        | 17.18                    | 17.42                       | 17.18                     |                        |



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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 17.21  | 17.36  | 17.29  | Tune-up limit (dBm) |
| 15              | 256QAM | 75 | 0  | 17.33  | 17.47  | 17.10  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 17.51  | 17.37  | 17.44  | 17.7                |
| 10              | QPSK   | 1  | 25 | 17.44  | 17.14  | 17.09  |                     |
| 10              | QPSK   | 1  | 49 | 17.43  | 17.15  | 17.06  |                     |
| 10              | QPSK   | 25 | 0  | 17.44  | 17.27  | 17.24  | 17.7                |
| 10              | QPSK   | 25 | 12 | 17.44  | 17.13  | 17.34  |                     |
| 10              | QPSK   | 25 | 25 | 17.44  | 17.20  | 17.23  |                     |
| 10              | QPSK   | 50 | 0  | 17.45  | 17.44  | 17.34  |                     |
| 10              | 16QAM  | 1  | 0  | 17.48  | 17.26  | 17.19  | 17.7                |
| 10              | 16QAM  | 1  | 25 | 17.27  | 17.29  | 17.26  |                     |
| 10              | 16QAM  | 1  | 49 | 17.38  | 17.35  | 17.21  |                     |
| 10              | 16QAM  | 25 | 0  | 17.43  | 17.37  | 17.24  | 17.7                |
| 10              | 16QAM  | 25 | 12 | 17.42  | 17.28  | 17.27  |                     |
| 10              | 16QAM  | 25 | 25 | 17.40  | 17.46  | 17.16  |                     |
| 10              | 16QAM  | 50 | 0  | 17.26  | 17.22  | 17.14  |                     |
| 10              | 64QAM  | 1  | 0  | 17.33  | 17.17  | 17.05  | 17.7                |
| 10              | 64QAM  | 1  | 25 | 17.30  | 17.20  | 17.24  |                     |
| 10              | 64QAM  | 1  | 49 | 17.24  | 17.38  | 17.29  |                     |
| 10              | 64QAM  | 25 | 0  | 17.34  | 17.26  | 17.25  | 17.7                |
| 10              | 64QAM  | 25 | 12 | 17.40  | 17.40  | 17.34  |                     |
| 10              | 64QAM  | 25 | 25 | 17.36  | 17.23  | 17.27  |                     |
| 10              | 64QAM  | 50 | 0  | 17.35  | 17.25  | 17.08  |                     |
| 10              | 256QAM | 1  | 0  | 17.37  | 17.24  | 17.33  | 17.7                |
| 10              | 256QAM | 1  | 25 | 17.36  | 17.37  | 17.25  |                     |
| 10              | 256QAM | 1  | 49 | 17.34  | 17.45  | 17.37  |                     |
| 10              | 256QAM | 25 | 0  | 17.45  | 17.35  | 17.24  | 17.7                |
| 10              | 256QAM | 25 | 12 | 17.32  | 17.23  | 17.19  |                     |
| 10              | 256QAM | 25 | 25 | 17.25  | 17.29  | 17.40  |                     |
| 10              | 256QAM | 50 | 0  | 17.47  | 17.42  | 17.12  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 17.48  | 17.37  | 17.42  | 17.7                |
| 5               | QPSK   | 1  | 12 | 17.25  | 17.27  | 17.07  |                     |
| 5               | QPSK   | 1  | 24 | 17.56  | 17.33  | 17.18  |                     |
| 5               | QPSK   | 12 | 0  | 17.42  | 17.17  | 17.25  | 17.7                |
| 5               | QPSK   | 12 | 7  | 17.46  | 17.20  | 17.15  |                     |
| 5               | QPSK   | 12 | 13 | 17.31  | 17.24  | 17.28  |                     |
| 5               | QPSK   | 25 | 0  | 17.34  | 17.34  | 17.29  |                     |
| 5               | 16QAM  | 1  | 0  | 17.43  | 17.34  | 17.21  | 17.7                |
| 5               | 16QAM  | 1  | 12 | 17.32  | 17.40  | 17.16  |                     |
| 5               | 16QAM  | 1  | 24 | 17.23  | 17.32  | 17.20  |                     |
| 5               | 16QAM  | 12 | 0  | 17.37  | 17.37  | 17.21  | 17.7                |
| 5               | 16QAM  | 12 | 7  | 17.36  | 17.40  | 17.22  |                     |
| 5               | 16QAM  | 12 | 13 | 17.49  | 17.44  | 17.28  |                     |
| 5               | 16QAM  | 25 | 0  | 17.36  | 17.27  | 17.08  |                     |
| 5               | 64QAM  | 1  | 0  | 17.31  | 17.28  | 17.17  | 17.7                |
| 5               | 64QAM  | 1  | 12 | 17.35  | 17.22  | 17.29  |                     |
| 5               | 64QAM  | 1  | 24 | 17.33  | 17.33  | 17.26  |                     |
| 5               | 64QAM  | 12 | 0  | 17.33  | 17.33  | 17.22  | 17.7                |
| 5               | 64QAM  | 12 | 7  | 17.34  | 17.34  | 17.28  |                     |
| 5               | 64QAM  | 12 | 13 | 17.53  | 17.32  | 17.29  |                     |
| 5               | 64QAM  | 25 | 0  | 17.45  | 17.28  | 17.08  |                     |
| 5               | 256QAM | 1  | 0  | 17.34  | 17.32  | 17.24  | 17.7                |
| 5               | 256QAM | 1  | 12 | 17.38  | 17.26  | 17.27  |                     |
| 5               | 256QAM | 1  | 24 | 17.37  | 17.47  | 17.42  |                     |
| 5               | 256QAM | 12 | 0  | 17.41  | 17.32  | 17.25  | 17.7                |
| 5               | 256QAM | 12 | 7  | 17.27  | 17.28  | 17.24  |                     |
| 5               | 256QAM | 12 | 13 | 17.24  | 17.32  | 17.36  |                     |
| 5               | 256QAM | 25 | 0  | 17.30  | 17.46  | 17.08  |                     |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit       |



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| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 | (dBm)               |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 3               | QPSK   | 1  | 0  | 17.38  | 17.43  | 17.40  | 17.7                |
| 3               | QPSK   | 1  | 8  | 17.33  | 17.22  | 17.06  |                     |
| 3               | QPSK   | 1  | 14 | 17.39  | 17.33  | 17.18  |                     |
| 3               | QPSK   | 8  | 0  | 17.50  | 17.28  | 17.35  | 17.7                |
| 3               | QPSK   | 8  | 4  | 17.31  | 17.28  | 17.32  |                     |
| 3               | QPSK   | 8  | 7  | 17.32  | 17.21  | 17.23  |                     |
| 3               | QPSK   | 15 | 0  | 17.44  | 17.31  | 17.40  | 17.7                |
| 3               | 16QAM  | 1  | 0  | 17.43  | 17.22  | 17.25  |                     |
| 3               | 16QAM  | 1  | 8  | 17.34  | 17.36  | 17.22  |                     |
| 3               | 16QAM  | 1  | 14 | 17.26  | 17.33  | 17.31  | 17.7                |
| 3               | 16QAM  | 8  | 0  | 17.47  | 17.30  | 17.12  |                     |
| 3               | 16QAM  | 8  | 4  | 17.23  | 17.38  | 17.40  |                     |
| 3               | 16QAM  | 8  | 7  | 17.37  | 17.29  | 17.20  | 17.7                |
| 3               | 16QAM  | 15 | 0  | 17.27  | 17.22  | 17.19  |                     |
| 3               | 64QAM  | 1  | 0  | 17.34  | 17.25  | 17.21  |                     |
| 3               | 64QAM  | 1  | 8  | 17.28  | 17.17  | 17.33  | 17.7                |
| 3               | 64QAM  | 1  | 14 | 17.25  | 17.27  | 17.20  |                     |
| 3               | 64QAM  | 8  | 0  | 17.32  | 17.33  | 17.12  |                     |
| 3               | 64QAM  | 8  | 4  | 17.37  | 17.32  | 17.24  | 17.7                |
| 3               | 64QAM  | 8  | 7  | 17.46  | 17.29  | 17.31  |                     |
| 3               | 64QAM  | 15 | 0  | 17.38  | 17.34  | 17.12  |                     |
| 3               | 256QAM | 1  | 0  | 17.32  | 17.31  | 17.16  | 17.7                |
| 3               | 256QAM | 1  | 8  | 17.19  | 17.33  | 17.21  |                     |
| 3               | 256QAM | 1  | 14 | 17.41  | 17.36  | 17.40  |                     |
| 3               | 256QAM | 8  | 0  | 17.27  | 17.32  | 17.30  | 17.7                |
| 3               | 256QAM | 8  | 4  | 17.20  | 17.22  | 17.34  |                     |
| 3               | 256QAM | 8  | 7  | 17.26  | 17.32  | 17.26  |                     |
| 3               | 256QAM | 15 | 0  | 17.30  | 17.39  | 17.12  | Tune-up limit (dBm) |
| Channel         |        |    |    | 131979 | 132322 | 132665 |                     |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                     |
| 1.4             | QPSK   | 1  | 0  | 17.51  | 17.37  | 17.34  | 17.7                |
| 1.4             | QPSK   | 1  | 3  | 17.40  | 17.16  | 17.20  |                     |
| 1.4             | QPSK   | 1  | 5  | 17.50  | 17.35  | 17.18  |                     |
| 1.4             | QPSK   | 3  | 0  | 17.34  | 17.35  | 17.29  | 17.7                |
| 1.4             | QPSK   | 3  | 1  | 17.46  | 17.25  | 17.21  |                     |
| 1.4             | QPSK   | 3  | 3  | 17.38  | 17.23  | 17.28  |                     |
| 1.4             | QPSK   | 6  | 0  | 17.38  | 17.41  | 17.42  | 17.7                |
| 1.4             | 16QAM  | 1  | 0  | 17.36  | 17.19  | 17.23  |                     |
| 1.4             | 16QAM  | 1  | 3  | 17.19  | 17.39  | 17.19  |                     |
| 1.4             | 16QAM  | 1  | 5  | 17.32  | 17.27  | 17.22  | 17.7                |
| 1.4             | 16QAM  | 3  | 0  | 17.46  | 17.41  | 17.14  |                     |
| 1.4             | 16QAM  | 3  | 1  | 17.23  | 17.28  | 17.37  |                     |
| 1.4             | 16QAM  | 3  | 3  | 17.34  | 17.39  | 17.10  | 17.7                |
| 1.4             | 16QAM  | 6  | 0  | 17.28  | 17.27  | 17.23  |                     |
| 1.4             | 64QAM  | 1  | 0  | 17.31  | 17.19  | 17.14  |                     |
| 1.4             | 64QAM  | 1  | 3  | 17.20  | 17.25  | 17.31  | 17.7                |
| 1.4             | 64QAM  | 1  | 5  | 17.20  | 17.34  | 17.20  |                     |
| 1.4             | 64QAM  | 3  | 0  | 17.42  | 17.42  | 17.19  |                     |
| 1.4             | 64QAM  | 3  | 1  | 17.39  | 17.40  | 17.25  | 17.7                |
| 1.4             | 64QAM  | 3  | 3  | 17.53  | 17.34  | 17.29  |                     |
| 1.4             | 64QAM  | 6  | 0  | 17.52  | 17.31  | 17.20  |                     |
| 1.4             | 256QAM | 1  | 0  | 17.46  | 17.27  | 17.26  | 17.7                |
| 1.4             | 256QAM | 1  | 3  | 17.22  | 17.37  | 17.25  |                     |
| 1.4             | 256QAM | 1  | 5  | 17.31  | 17.30  | 17.39  |                     |
| 1.4             | 256QAM | 3  | 0  | 17.44  | 17.29  | 17.40  | 17.7                |
| 1.4             | 256QAM | 3  | 1  | 17.31  | 17.37  | 17.32  |                     |
| 1.4             | 256QAM | 3  | 3  | 17.29  | 17.28  | 17.36  |                     |
| 1.4             | 256QAM | 6  | 0  | 17.42  | 17.31  | 17.04  | 17.7                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 24.53                    | 24.35                       | 24.35                     |                        |
| 20              | QPSK       | 1       | 49        | 24.27                    | 24.22                       | 24.17                     | 25.6                   |
| 20              | QPSK       | 1       | 99        | 24.22                    | 24.12                       | 24.11                     |                        |
| 20              | QPSK       | 50      | 0         | 23.36                    | 23.29                       | 23.30                     |                        |
| 20              | QPSK       | 50      | 24        | 23.33                    | 23.23                       | 23.24                     | 24.6                   |
| 20              | QPSK       | 50      | 50        | 23.23                    | 23.16                       | 23.20                     |                        |
| 20              | QPSK       | 100     | 0         | 23.31                    | 23.21                       | 23.27                     |                        |
| 20              | 16QAM      | 1       | 0         | 23.63                    | 23.54                       | 23.72                     | 24.6                   |
| 20              | 16QAM      | 1       | 49        | 23.36                    | 23.50                       | 23.33                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.33                    | 23.52                       | 23.42                     |                        |
| 20              | 16QAM      | 50      | 0         | 22.25                    | 22.28                       | 22.26                     | 23.6                   |
| 20              | 16QAM      | 50      | 24        | 22.23                    | 22.25                       | 22.24                     |                        |
| 20              | 16QAM      | 50      | 50        | 22.18                    | 22.19                       | 22.18                     |                        |
| 20              | 16QAM      | 100     | 0         | 22.24                    | 22.24                       | 22.23                     | 23.6                   |
| 20              | 64QAM      | 1       | 0         | 22.69                    | 22.54                       | 22.66                     |                        |
| 20              | 64QAM      | 1       | 49        | 22.38                    | 22.46                       | 22.41                     |                        |
| 20              | 64QAM      | 1       | 99        | 22.24                    | 22.51                       | 22.35                     | 22.6                   |
| 20              | 64QAM      | 50      | 0         | 21.27                    | 21.32                       | 21.29                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.24                    | 21.24                       | 21.31                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.23                    | 21.21                       | 21.25                     | 20.6                   |
| 20              | 64QAM      | 100     | 0         | 21.27                    | 21.21                       | 21.29                     |                        |
| 20              | 256QAM     | 1       | 0         | 20.04                    | 19.93                       | 20.10                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.82                    | 19.89                       | 19.82                     | 20.6                   |
| 20              | 256QAM     | 1       | 99        | 19.62                    | 19.94                       | 19.74                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.64                    | 19.72                       | 19.64                     |                        |
| 20              | 256QAM     | 50      | 24        | 19.62                    | 19.59                       | 19.72                     | 20.6                   |
| 20              | 256QAM     | 50      | 50        | 19.59                    | 19.61                       | 19.62                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.66                    | 19.61                       | 19.67                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    |                        |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 24.37                    | 24.32                       | 24.30                     |                        |
| 15              | QPSK       | 1       | 37        | 24.12                    | 24.08                       | 24.06                     | 25.6                   |
| 15              | QPSK       | 1       | 74        | 24.20                    | 23.94                       | 23.94                     |                        |
| 15              | QPSK       | 36      | 0         | 23.22                    | 23.25                       | 23.14                     | 24.6                   |
| 15              | QPSK       | 36      | 20        | 23.28                    | 23.18                       | 23.06                     |                        |
| 15              | QPSK       | 36      | 39        | 23.14                    | 23.14                       | 23.17                     |                        |
| 15              | QPSK       | 75      | 0         | 23.15                    | 23.12                       | 23.22                     | 24.6                   |
| 15              | 16QAM      | 1       | 0         | 23.52                    | 23.34                       | 23.65                     |                        |
| 15              | 16QAM      | 1       | 37        | 23.19                    | 23.39                       | 23.18                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.27                    | 23.38                       | 23.35                     | 23.6                   |
| 15              | 16QAM      | 36      | 0         | 22.22                    | 22.15                       | 22.26                     |                        |
| 15              | 16QAM      | 36      | 20        | 22.12                    | 22.12                       | 22.09                     |                        |
| 15              | 16QAM      | 36      | 39        | 22.04                    | 22.17                       | 21.99                     | 23.6                   |
| 15              | 16QAM      | 75      | 0         | 22.10                    | 22.15                       | 22.21                     |                        |
| 15              | 64QAM      | 1       | 0         | 22.58                    | 22.42                       | 22.66                     |                        |
| 15              | 64QAM      | 1       | 37        | 22.38                    | 22.45                       | 22.38                     | 22.6                   |
| 15              | 64QAM      | 1       | 74        | 22.15                    | 22.46                       | 22.25                     |                        |
| 15              | 64QAM      | 36      | 0         | 21.08                    | 21.24                       | 21.11                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.08                    | 21.10                       | 21.13                     | 20.6                   |
| 15              | 64QAM      | 36      | 39        | 21.16                    | 21.14                       | 21.23                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.13                    | 21.17                       | 21.12                     |                        |
| 15              | 256QAM     | 1       | 0         | 20.00                    | 19.91                       | 20.06                     | 20.6                   |
| 15              | 256QAM     | 1       | 37        | 19.77                    | 19.89                       | 19.77                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.57                    | 19.87                       | 19.72                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.47                    | 19.56                       | 19.47                     | 20.6                   |
| 15              | 256QAM     | 36      | 20        | 19.50                    | 19.51                       | 19.54                     |                        |



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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 19.41  | 19.45  | 19.59  |                     |
| 15              | 256QAM | 75 | 0  | 19.63  | 19.58  | 19.60  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 24.46  | 24.31  | 24.30  | 25.6                |
| 10              | QPSK   | 1  | 25 | 24.19  | 24.10  | 24.16  |                     |
| 10              | QPSK   | 1  | 49 | 24.20  | 24.12  | 23.95  |                     |
| 10              | QPSK   | 25 | 0  | 23.21  | 23.26  | 23.13  | 24.6                |
| 10              | QPSK   | 25 | 12 | 23.26  | 23.04  | 23.23  |                     |
| 10              | QPSK   | 25 | 25 | 23.03  | 23.14  | 23.12  |                     |
| 10              | QPSK   | 50 | 0  | 23.18  | 23.13  | 23.12  |                     |
| 10              | 16QAM  | 1  | 0  | 23.49  | 23.54  | 23.56  | 24.6                |
| 10              | 16QAM  | 1  | 25 | 23.34  | 23.40  | 23.17  |                     |
| 10              | 16QAM  | 1  | 49 | 23.32  | 23.50  | 23.31  |                     |
| 10              | 16QAM  | 25 | 0  | 22.12  | 22.09  | 22.12  | 23.6                |
| 10              | 16QAM  | 25 | 12 | 22.15  | 22.25  | 22.19  |                     |
| 10              | 16QAM  | 25 | 25 | 21.98  | 22.17  | 22.02  |                     |
| 10              | 16QAM  | 50 | 0  | 22.18  | 22.04  | 22.19  |                     |
| 10              | 64QAM  | 1  | 0  | 22.61  | 22.50  | 22.53  | 23.6                |
| 10              | 64QAM  | 1  | 25 | 22.34  | 22.37  | 22.32  |                     |
| 10              | 64QAM  | 1  | 49 | 22.22  | 22.38  | 22.34  |                     |
| 10              | 64QAM  | 25 | 0  | 21.27  | 21.14  | 21.10  | 22.6                |
| 10              | 64QAM  | 25 | 12 | 21.06  | 21.07  | 21.23  |                     |
| 10              | 64QAM  | 25 | 25 | 21.21  | 21.10  | 21.18  |                     |
| 10              | 64QAM  | 50 | 0  | 21.14  | 21.08  | 21.19  |                     |
| 10              | 256QAM | 1  | 0  | 19.90  | 19.75  | 20.07  | 20.6                |
| 10              | 256QAM | 1  | 25 | 19.82  | 19.82  | 19.77  |                     |
| 10              | 256QAM | 1  | 49 | 19.44  | 19.78  | 19.57  |                     |
| 10              | 256QAM | 25 | 0  | 19.56  | 19.63  | 19.61  | 20.6                |
| 10              | 256QAM | 25 | 12 | 19.52  | 19.55  | 19.71  |                     |
| 10              | 256QAM | 25 | 25 | 19.42  | 19.49  | 19.52  |                     |
| 10              | 256QAM | 50 | 0  | 19.48  | 19.46  | 19.61  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 24.51  | 24.27  | 24.34  | 25.6                |
| 5               | QPSK   | 1  | 12 | 24.22  | 24.11  | 24.02  |                     |
| 5               | QPSK   | 1  | 24 | 24.18  | 23.99  | 24.06  |                     |
| 5               | QPSK   | 12 | 0  | 23.21  | 23.18  | 23.23  | 24.6                |
| 5               | QPSK   | 12 | 7  | 23.20  | 23.04  | 23.05  |                     |
| 5               | QPSK   | 12 | 13 | 23.11  | 23.08  | 23.08  |                     |
| 5               | QPSK   | 25 | 0  | 23.20  | 23.15  | 23.27  |                     |
| 5               | 16QAM  | 1  | 0  | 23.58  | 23.47  | 23.67  | 24.6                |
| 5               | 16QAM  | 1  | 12 | 23.28  | 23.31  | 23.28  |                     |
| 5               | 16QAM  | 1  | 24 | 23.33  | 23.41  | 23.39  |                     |
| 5               | 16QAM  | 12 | 0  | 22.08  | 22.26  | 22.20  | 23.6                |
| 5               | 16QAM  | 12 | 7  | 22.20  | 22.22  | 22.17  |                     |
| 5               | 16QAM  | 12 | 13 | 22.09  | 22.07  | 22.04  |                     |
| 5               | 16QAM  | 25 | 0  | 22.22  | 22.13  | 22.05  |                     |
| 5               | 64QAM  | 1  | 0  | 22.64  | 22.46  | 22.55  | 23.6                |
| 5               | 64QAM  | 1  | 12 | 22.28  | 22.37  | 22.30  |                     |
| 5               | 64QAM  | 1  | 24 | 22.18  | 22.40  | 22.29  |                     |
| 5               | 64QAM  | 12 | 0  | 21.26  | 21.14  | 21.13  | 22.6                |
| 5               | 64QAM  | 12 | 7  | 21.21  | 21.12  | 21.26  |                     |
| 5               | 64QAM  | 12 | 13 | 21.14  | 21.21  | 21.07  |                     |
| 5               | 64QAM  | 25 | 0  | 21.25  | 21.10  | 21.26  |                     |
| 5               | 256QAM | 1  | 0  | 20.00  | 19.84  | 19.93  | 20.6                |
| 5               | 256QAM | 1  | 12 | 19.78  | 19.79  | 19.73  |                     |
| 5               | 256QAM | 1  | 24 | 19.54  | 19.94  | 19.68  |                     |
| 5               | 256QAM | 12 | 0  | 19.63  | 19.54  | 19.60  | 20.6                |
| 5               | 256QAM | 12 | 7  | 19.50  | 19.57  | 19.56  |                     |
| 5               | 256QAM | 12 | 13 | 19.46  | 19.42  | 19.42  |                     |
| 5               | 256QAM | 25 | 0  | 19.50  | 19.41  | 19.64  |                     |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit<br>(dBm) |
|-----------------|--------|----|----|--------|--------|--------|------------------------|
| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 |                        |
| 3               | QPSK   | 1  | 0  | 24.46  | 24.23  | 24.30  | 25.6                   |
| 3               | QPSK   | 1  | 8  | 24.10  | 24.06  | 24.13  |                        |
| 3               | QPSK   | 1  | 14 | 24.22  | 24.00  | 24.10  |                        |
| 3               | QPSK   | 8  | 0  | 23.17  | 23.14  | 23.28  | 24.6                   |
| 3               | QPSK   | 8  | 4  | 23.30  | 23.22  | 23.07  |                        |
| 3               | QPSK   | 8  | 7  | 23.17  | 23.03  | 23.06  |                        |
| 3               | QPSK   | 15 | 0  | 23.13  | 23.13  | 23.13  |                        |
| 3               | 16QAM  | 1  | 0  | 23.54  | 23.49  | 23.55  | 24.6                   |
| 3               | 16QAM  | 1  | 8  | 23.34  | 23.33  | 23.14  |                        |
| 3               | 16QAM  | 1  | 14 | 23.23  | 23.36  | 23.33  |                        |
| 3               | 16QAM  | 8  | 0  | 22.07  | 22.09  | 22.14  | 23.6                   |
| 3               | 16QAM  | 8  | 4  | 22.22  | 22.08  | 22.07  |                        |
| 3               | 16QAM  | 8  | 7  | 22.14  | 22.14  | 22.13  |                        |
| 3               | 16QAM  | 15 | 0  | 22.21  | 22.13  | 22.10  |                        |
| 3               | 64QAM  | 1  | 0  | 22.65  | 22.38  | 22.54  | 23.6                   |
| 3               | 64QAM  | 1  | 8  | 22.33  | 22.46  | 22.30  |                        |
| 3               | 64QAM  | 1  | 14 | 22.10  | 22.45  | 22.16  |                        |
| 3               | 64QAM  | 8  | 0  | 21.07  | 21.19  | 21.19  | 22.6                   |
| 3               | 64QAM  | 8  | 4  | 21.19  | 21.11  | 21.22  |                        |
| 3               | 64QAM  | 8  | 7  | 21.09  | 21.08  | 21.14  |                        |
| 3               | 64QAM  | 15 | 0  | 21.07  | 21.01  | 21.28  |                        |
| 3               | 256QAM | 1  | 0  | 20.00  | 19.79  | 20.10  | 20.6                   |
| 3               | 256QAM | 1  | 8  | 19.74  | 19.77  | 19.71  |                        |
| 3               | 256QAM | 1  | 14 | 19.62  | 19.79  | 19.68  |                        |
| 3               | 256QAM | 8  | 0  | 19.44  | 19.63  | 19.55  | 20.6                   |
| 3               | 256QAM | 8  | 4  | 19.47  | 19.57  | 19.70  |                        |
| 3               | 256QAM | 8  | 7  | 19.58  | 19.55  | 19.62  |                        |
| 3               | 256QAM | 15 | 0  | 19.59  | 19.41  | 19.51  |                        |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                        |
| 1.4             | QPSK   | 1  | 0  | 24.36  | 24.25  | 24.24  | 25.6                   |
| 1.4             | QPSK   | 1  | 3  | 24.27  | 24.07  | 24.01  |                        |
| 1.4             | QPSK   | 1  | 5  | 24.08  | 24.08  | 23.97  |                        |
| 1.4             | QPSK   | 3  | 0  | 24.44  | 24.22  | 24.30  |                        |
| 1.4             | QPSK   | 3  | 1  | 24.25  | 24.18  | 24.12  |                        |
| 1.4             | QPSK   | 3  | 3  | 24.15  | 24.08  | 23.97  |                        |
| 1.4             | QPSK   | 6  | 0  | 23.33  | 23.28  | 23.29  | 24.6                   |
| 1.4             | 16QAM  | 1  | 0  | 23.13  | 23.23  | 23.04  | 24.6                   |
| 1.4             | 16QAM  | 1  | 3  | 23.23  | 23.08  | 23.02  |                        |
| 1.4             | 16QAM  | 1  | 5  | 23.29  | 23.11  | 23.16  |                        |
| 1.4             | 16QAM  | 3  | 0  | 23.46  | 23.43  | 23.62  |                        |
| 1.4             | 16QAM  | 3  | 1  | 23.16  | 23.50  | 23.32  |                        |
| 1.4             | 16QAM  | 3  | 3  | 23.14  | 23.39  | 23.37  |                        |
| 1.4             | 16QAM  | 6  | 0  | 22.22  | 22.13  | 22.19  | 23.6                   |
| 1.4             | 64QAM  | 1  | 0  | 22.16  | 22.11  | 22.08  | 23.6                   |
| 1.4             | 64QAM  | 1  | 3  | 22.02  | 22.08  | 22.04  |                        |
| 1.4             | 64QAM  | 1  | 5  | 22.24  | 22.05  | 22.20  |                        |
| 1.4             | 64QAM  | 3  | 0  | 22.59  | 22.51  | 22.60  |                        |
| 1.4             | 64QAM  | 3  | 1  | 22.22  | 22.27  | 22.28  |                        |
| 1.4             | 64QAM  | 3  | 3  | 22.24  | 22.40  | 22.28  |                        |
| 1.4             | 64QAM  | 6  | 0  | 21.16  | 21.28  | 21.23  | 22.6                   |
| 1.4             | 256QAM | 1  | 0  | 19.98  | 19.93  | 20.02  | 20.6                   |
| 1.4             | 256QAM | 1  | 3  | 19.67  | 19.85  | 19.71  |                        |
| 1.4             | 256QAM | 1  | 5  | 19.58  | 19.77  | 19.60  |                        |
| 1.4             | 256QAM | 3  | 0  | 19.50  | 19.62  | 19.50  |                        |
| 1.4             | 256QAM | 3  | 1  | 19.49  | 19.39  | 19.68  |                        |
| 1.4             | 256QAM | 3  | 3  | 19.45  | 19.55  | 19.56  |                        |
| 1.4             | 256QAM | 6  | 0  | 19.60  | 19.61  | 19.50  | 20.6                   |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 24.12                    | 24.09                       | 24.04                     |                        |
| 20              | QPSK       | 1       | 49        | 23.92                    | 23.92                       | 23.91                     | 25.6                   |
| 20              | QPSK       | 1       | 99        | 23.90                    | 23.86                       | 23.79                     |                        |
| 20              | QPSK       | 50      | 0         | 23.06                    | 23.02                       | 23.00                     |                        |
| 20              | QPSK       | 50      | 24        | 22.99                    | 22.95                       | 22.93                     | 24.6                   |
| 20              | QPSK       | 50      | 50        | 22.93                    | 22.90                       | 22.86                     |                        |
| 20              | QPSK       | 100     | 0         | 23.03                    | 22.96                       | 22.91                     |                        |
| 20              | 16QAM      | 1       | 0         | 23.41                    | 23.37                       | 23.33                     | 24.6                   |
| 20              | 16QAM      | 1       | 49        | 23.26                    | 23.21                       | 23.27                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.24                    | 23.19                       | 23.15                     |                        |
| 20              | 16QAM      | 50      | 0         | 22.06                    | 22.02                       | 21.99                     | 23.6                   |
| 20              | 16QAM      | 50      | 24        | 22.00                    | 21.96                       | 21.94                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.94                    | 21.90                       | 21.86                     |                        |
| 20              | 16QAM      | 100     | 0         | 22.01                    | 21.96                       | 21.93                     | 23.6                   |
| 20              | 64QAM      | 1       | 0         | 22.39                    | 22.29                       | 22.23                     |                        |
| 20              | 64QAM      | 1       | 49        | 22.20                    | 22.13                       | 22.11                     |                        |
| 20              | 64QAM      | 1       | 99        | 22.20                    | 22.13                       | 22.03                     | 22.6                   |
| 20              | 64QAM      | 50      | 0         | 21.07                    | 21.03                       | 20.98                     |                        |
| 20              | 64QAM      | 50      | 24        | 20.99                    | 20.97                       | 20.93                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.95                    | 20.92                       | 20.90                     | 20.6                   |
| 20              | 64QAM      | 100     | 0         | 21.01                    | 20.96                       | 20.93                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.81                    | 19.74                       | 19.58                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.61                    | 19.48                       | 19.48                     | 20.6                   |
| 20              | 256QAM     | 1       | 99        | 19.59                    | 19.52                       | 19.39                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.46                    | 19.41                       | 19.42                     |                        |
| 20              | 256QAM     | 50      | 24        | 19.39                    | 19.39                       | 19.37                     | 20.6                   |
| 20              | 256QAM     | 50      | 50        | 19.36                    | 19.36                       | 19.32                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.38                    | 19.34                       | 19.33                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    |                        |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 23.99                    | 24.07                       | 24.04                     |                        |
| 15              | QPSK       | 1       | 37        | 23.89                    | 23.77                       | 23.86                     | 25.6                   |
| 15              | QPSK       | 1       | 74        | 23.80                    | 23.81                       | 23.74                     |                        |
| 15              | QPSK       | 36      | 0         | 22.96                    | 22.85                       | 23.00                     |                        |
| 15              | QPSK       | 36      | 20        | 22.87                    | 22.77                       | 22.80                     | 24.6                   |
| 15              | QPSK       | 36      | 39        | 22.75                    | 22.70                       | 22.82                     |                        |
| 15              | QPSK       | 75      | 0         | 22.97                    | 22.89                       | 22.77                     |                        |
| 15              | 16QAM      | 1       | 0         | 23.36                    | 23.19                       | 23.26                     | 24.6                   |
| 15              | 16QAM      | 1       | 37        | 23.22                    | 23.03                       | 23.09                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.10                    | 23.11                       | 22.98                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.95                    | 21.98                       | 21.81                     | 23.6                   |
| 15              | 16QAM      | 36      | 20        | 21.93                    | 21.93                       | 21.78                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.93                    | 21.90                       | 21.82                     |                        |
| 15              | 16QAM      | 75      | 0         | 21.99                    | 21.94                       | 21.82                     | 23.6                   |
| 15              | 64QAM      | 1       | 0         | 22.22                    | 22.17                       | 22.10                     |                        |
| 15              | 64QAM      | 1       | 37        | 22.08                    | 21.95                       | 22.11                     |                        |
| 15              | 64QAM      | 1       | 74        | 22.08                    | 22.04                       | 21.96                     | 22.6                   |
| 15              | 64QAM      | 36      | 0         | 20.93                    | 20.89                       | 20.79                     |                        |
| 15              | 64QAM      | 36      | 20        | 20.84                    | 20.83                       | 20.90                     |                        |
| 15              | 64QAM      | 36      | 39        | 20.90                    | 20.81                       | 20.78                     | 20.6                   |
| 15              | 64QAM      | 75      | 0         | 20.82                    | 20.82                       | 20.87                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.66                    | 19.56                       | 19.51                     |                        |
| 15              | 256QAM     | 1       | 37        | 19.55                    | 19.32                       | 19.45                     | 20.6                   |
| 15              | 256QAM     | 1       | 74        | 19.43                    | 19.48                       | 19.25                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.44                    | 19.31                       | 19.22                     |                        |
| 15              | 256QAM     | 36      | 20        | 19.36                    | 19.38                       | 19.36                     | 20.6                   |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 19.19  | 19.29  | 19.22  | Tune-up limit (dBm) |
| 15              | 256QAM | 75 | 0  | 19.28  | 19.26  | 19.14  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 23.99  | 24.01  | 23.89  | 25.6                |
| 10              | QPSK   | 1  | 25 | 23.75  | 23.82  | 23.77  |                     |
| 10              | QPSK   | 1  | 49 | 23.74  | 23.82  | 23.63  |                     |
| 10              | QPSK   | 25 | 0  | 23.06  | 23.02  | 22.96  | 24.6                |
| 10              | QPSK   | 25 | 12 | 22.89  | 22.83  | 22.84  |                     |
| 10              | QPSK   | 25 | 25 | 22.78  | 22.72  | 22.85  |                     |
| 10              | QPSK   | 50 | 0  | 22.91  | 22.77  | 22.91  |                     |
| 10              | 16QAM  | 1  | 0  | 23.36  | 23.30  | 23.15  | 24.6                |
| 10              | 16QAM  | 1  | 25 | 23.22  | 23.03  | 23.10  |                     |
| 10              | 16QAM  | 1  | 49 | 23.24  | 23.13  | 23.05  |                     |
| 10              | 16QAM  | 25 | 0  | 21.86  | 21.95  | 21.97  | 23.6                |
| 10              | 16QAM  | 25 | 12 | 21.92  | 21.80  | 21.80  |                     |
| 10              | 16QAM  | 25 | 25 | 21.85  | 21.81  | 21.76  |                     |
| 10              | 16QAM  | 50 | 0  | 21.86  | 21.82  | 21.88  |                     |
| 10              | 64QAM  | 1  | 0  | 22.19  | 22.25  | 22.06  | 23.6                |
| 10              | 64QAM  | 1  | 25 | 22.16  | 22.09  | 21.92  |                     |
| 10              | 64QAM  | 1  | 49 | 22.08  | 21.97  | 21.92  |                     |
| 10              | 64QAM  | 25 | 0  | 21.02  | 20.83  | 20.90  | 22.6                |
| 10              | 64QAM  | 25 | 12 | 20.87  | 20.96  | 20.82  |                     |
| 10              | 64QAM  | 25 | 25 | 20.90  | 20.88  | 20.78  |                     |
| 10              | 64QAM  | 50 | 0  | 20.93  | 20.77  | 20.87  |                     |
| 10              | 256QAM | 1  | 0  | 19.73  | 19.55  | 19.38  | 20.6                |
| 10              | 256QAM | 1  | 25 | 19.51  | 19.29  | 19.35  |                     |
| 10              | 256QAM | 1  | 49 | 19.50  | 19.52  | 19.20  |                     |
| 10              | 256QAM | 25 | 0  | 19.38  | 19.23  | 19.31  | 20.6                |
| 10              | 256QAM | 25 | 12 | 19.32  | 19.22  | 19.18  |                     |
| 10              | 256QAM | 25 | 25 | 19.30  | 19.33  | 19.18  |                     |
| 10              | 256QAM | 50 | 0  | 19.30  | 19.21  | 19.16  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 23.96  | 23.93  | 23.85  | 25.6                |
| 5               | QPSK   | 1  | 12 | 23.72  | 23.90  | 23.71  |                     |
| 5               | QPSK   | 1  | 24 | 23.79  | 23.80  | 23.67  |                     |
| 5               | QPSK   | 12 | 0  | 22.86  | 22.89  | 22.97  | 24.6                |
| 5               | QPSK   | 12 | 7  | 22.99  | 22.87  | 22.84  |                     |
| 5               | QPSK   | 12 | 13 | 22.85  | 22.76  | 22.76  |                     |
| 5               | QPSK   | 25 | 0  | 22.94  | 22.82  | 22.71  |                     |
| 5               | 16QAM  | 1  | 0  | 23.38  | 23.26  | 23.18  | 24.6                |
| 5               | 16QAM  | 1  | 12 | 23.11  | 23.01  | 23.15  |                     |
| 5               | 16QAM  | 1  | 24 | 23.20  | 23.13  | 23.00  |                     |
| 5               | 16QAM  | 12 | 0  | 22.01  | 22.02  | 21.85  | 23.6                |
| 5               | 16QAM  | 12 | 7  | 21.85  | 21.89  | 21.80  |                     |
| 5               | 16QAM  | 12 | 13 | 21.85  | 21.80  | 21.75  |                     |
| 5               | 16QAM  | 25 | 0  | 21.82  | 21.89  | 21.89  |                     |
| 5               | 64QAM  | 1  | 0  | 22.20  | 22.23  | 22.18  | 23.6                |
| 5               | 64QAM  | 1  | 12 | 22.03  | 22.13  | 22.11  |                     |
| 5               | 64QAM  | 1  | 24 | 22.16  | 22.04  | 21.92  |                     |
| 5               | 64QAM  | 12 | 0  | 21.00  | 20.99  | 20.89  | 22.6                |
| 5               | 64QAM  | 12 | 7  | 20.81  | 20.85  | 20.92  |                     |
| 5               | 64QAM  | 12 | 13 | 20.76  | 20.86  | 20.78  |                     |
| 5               | 64QAM  | 25 | 0  | 20.96  | 20.95  | 20.82  |                     |
| 5               | 256QAM | 1  | 0  | 19.73  | 19.60  | 19.58  | 20.6                |
| 5               | 256QAM | 1  | 12 | 19.43  | 19.35  | 19.28  |                     |
| 5               | 256QAM | 1  | 24 | 19.51  | 19.43  | 19.32  |                     |
| 5               | 256QAM | 12 | 0  | 19.44  | 19.35  | 19.34  | 20.6                |
| 5               | 256QAM | 12 | 7  | 19.36  | 19.27  | 19.21  |                     |
| 5               | 256QAM | 12 | 13 | 19.20  | 19.22  | 19.30  |                     |
| 5               | 256QAM | 25 | 0  | 19.25  | 19.24  | 19.19  |                     |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit       |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 | (dBm)               |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 3               | QPSK   | 1  | 0  | 24.08  | 24.07  | 23.97  | 25.6                |
| 3               | QPSK   | 1  | 8  | 23.78  | 23.91  | 23.75  |                     |
| 3               | QPSK   | 1  | 14 | 23.83  | 23.77  | 23.72  |                     |
| 3               | QPSK   | 8  | 0  | 22.97  | 22.91  | 22.92  | 24.6                |
| 3               | QPSK   | 8  | 4  | 22.82  | 22.78  | 22.76  |                     |
| 3               | QPSK   | 8  | 7  | 22.87  | 22.90  | 22.77  |                     |
| 3               | QPSK   | 15 | 0  | 22.90  | 22.83  | 22.82  |                     |
| 3               | 16QAM  | 1  | 0  | 23.37  | 23.31  | 23.20  | 24.6                |
| 3               | 16QAM  | 1  | 8  | 23.14  | 23.20  | 23.20  |                     |
| 3               | 16QAM  | 1  | 14 | 23.16  | 23.18  | 23.06  |                     |
| 3               | 16QAM  | 8  | 0  | 21.92  | 21.86  | 21.79  | 23.6                |
| 3               | 16QAM  | 8  | 4  | 21.82  | 21.78  | 21.88  |                     |
| 3               | 16QAM  | 8  | 7  | 21.82  | 21.76  | 21.71  |                     |
| 3               | 16QAM  | 15 | 0  | 21.83  | 21.87  | 21.93  |                     |
| 3               | 64QAM  | 1  | 0  | 22.23  | 22.25  | 22.10  | 23.6                |
| 3               | 64QAM  | 1  | 8  | 22.09  | 21.93  | 22.02  |                     |
| 3               | 64QAM  | 1  | 14 | 22.01  | 21.94  | 21.84  |                     |
| 3               | 64QAM  | 8  | 0  | 20.87  | 20.85  | 20.89  | 22.6                |
| 3               | 64QAM  | 8  | 4  | 20.93  | 20.94  | 20.76  |                     |
| 3               | 64QAM  | 8  | 7  | 20.80  | 20.83  | 20.90  |                     |
| 3               | 64QAM  | 15 | 0  | 20.82  | 20.80  | 20.75  |                     |
| 3               | 256QAM | 1  | 0  | 19.67  | 19.61  | 19.40  | 20.6                |
| 3               | 256QAM | 1  | 8  | 19.49  | 19.28  | 19.38  |                     |
| 3               | 256QAM | 1  | 14 | 19.43  | 19.45  | 19.24  |                     |
| 3               | 256QAM | 8  | 0  | 19.33  | 19.26  | 19.28  | 20.6                |
| 3               | 256QAM | 8  | 4  | 19.38  | 19.34  | 19.31  |                     |
| 3               | 256QAM | 8  | 7  | 19.28  | 19.25  | 19.19  |                     |
| 3               | 256QAM | 15 | 0  | 19.31  | 19.29  | 19.24  |                     |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                     |
| 1.4             | QPSK   | 1  | 0  | 23.93  | 23.92  | 23.86  | 25.6                |
| 1.4             | QPSK   | 1  | 3  | 23.86  | 23.72  | 23.74  |                     |
| 1.4             | QPSK   | 1  | 5  | 23.78  | 23.76  | 23.71  |                     |
| 1.4             | QPSK   | 3  | 0  | 24.11  | 23.97  | 24.01  |                     |
| 1.4             | QPSK   | 3  | 1  | 23.81  | 23.86  | 23.74  |                     |
| 1.4             | QPSK   | 3  | 3  | 23.70  | 23.73  | 23.61  |                     |
| 1.4             | QPSK   | 6  | 0  | 22.91  | 22.90  | 22.96  | 24.6                |
| 1.4             | 16QAM  | 1  | 0  | 22.80  | 22.92  | 22.83  | 24.6                |
| 1.4             | 16QAM  | 1  | 3  | 22.88  | 22.80  | 22.80  |                     |
| 1.4             | 16QAM  | 1  | 5  | 22.89  | 22.87  | 22.74  |                     |
| 1.4             | 16QAM  | 3  | 0  | 23.41  | 23.18  | 23.25  |                     |
| 1.4             | 16QAM  | 3  | 1  | 23.23  | 23.19  | 23.12  |                     |
| 1.4             | 16QAM  | 3  | 3  | 23.20  | 23.09  | 23.06  |                     |
| 1.4             | 16QAM  | 6  | 0  | 22.04  | 21.96  | 21.81  | 23.6                |
| 1.4             | 64QAM  | 1  | 0  | 21.83  | 21.80  | 21.90  | 23.6                |
| 1.4             | 64QAM  | 1  | 3  | 21.81  | 21.70  | 21.75  |                     |
| 1.4             | 64QAM  | 1  | 5  | 21.86  | 21.93  | 21.91  |                     |
| 1.4             | 64QAM  | 3  | 0  | 22.31  | 22.26  | 22.17  |                     |
| 1.4             | 64QAM  | 3  | 1  | 22.07  | 22.04  | 21.97  |                     |
| 1.4             | 64QAM  | 3  | 3  | 22.11  | 22.06  | 22.01  |                     |
| 1.4             | 64QAM  | 6  | 0  | 20.90  | 20.86  | 20.89  | 22.6                |
| 1.4             | 256QAM | 1  | 0  | 19.68  | 19.71  | 19.56  | 20.6                |
| 1.4             | 256QAM | 1  | 3  | 19.47  | 19.37  | 19.28  |                     |
| 1.4             | 256QAM | 1  | 5  | 19.52  | 19.43  | 19.22  |                     |
| 1.4             | 256QAM | 3  | 0  | 19.35  | 19.35  | 19.22  |                     |
| 1.4             | 256QAM | 3  | 1  | 19.36  | 19.38  | 19.34  |                     |
| 1.4             | 256QAM | 3  | 3  | 19.19  | 19.21  | 19.30  |                     |
| 1.4             | 256QAM | 6  | 0  | 19.23  | 19.27  | 19.27  | 20.6                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 19.01                    | 19.04                       | 19.05                     | 19.2                   |
| 20              | QPSK       | 1       | 49        | 18.89                    | 18.91                       | 18.88                     |                        |
| 20              | QPSK       | 1       | 99        | 18.84                    | 18.79                       | 18.78                     |                        |
| 20              | QPSK       | 50      | 0         | 18.93                    | 18.94                       | 18.95                     | 19.2                   |
| 20              | QPSK       | 50      | 24        | 18.93                    | 18.93                       | 18.88                     |                        |
| 20              | QPSK       | 50      | 50        | 18.89                    | 18.86                       | 18.85                     |                        |
| 20              | QPSK       | 100     | 0         | 18.90                    | 18.92                       | 18.93                     |                        |
| 20              | 16QAM      | 1       | 0         | 18.97                    | 19.03                       | 19.01                     | 19.2                   |
| 20              | 16QAM      | 1       | 49        | 18.94                    | 18.94                       | 18.88                     |                        |
| 20              | 16QAM      | 1       | 99        | 18.92                    | 18.94                       | 18.81                     |                        |
| 20              | 16QAM      | 50      | 0         | 18.99                    | 18.97                       | 18.96                     | 19.2                   |
| 20              | 16QAM      | 50      | 24        | 18.94                    | 18.92                       | 18.91                     |                        |
| 20              | 16QAM      | 50      | 50        | 18.87                    | 18.90                       | 18.87                     |                        |
| 20              | 16QAM      | 100     | 0         | 18.92                    | 18.92                       | 18.90                     |                        |
| 20              | 64QAM      | 1       | 0         | 18.96                    | 18.92                       | 18.89                     | 19.2                   |
| 20              | 64QAM      | 1       | 49        | 18.86                    | 18.86                       | 18.88                     |                        |
| 20              | 64QAM      | 1       | 99        | 18.76                    | 18.76                       | 18.68                     |                        |
| 20              | 64QAM      | 50      | 0         | 19.02                    | 19.01                       | 18.98                     | 19.2                   |
| 20              | 64QAM      | 50      | 24        | 18.98                    | 18.96                       | 18.93                     |                        |
| 20              | 64QAM      | 50      | 50        | 18.90                    | 18.90                       | 18.87                     |                        |
| 20              | 64QAM      | 100     | 0         | 18.93                    | 18.92                       | 18.90                     |                        |
| 20              | 256QAM     | 1       | 0         | 18.76                    | 18.75                       | 18.86                     | 19.2                   |
| 20              | 256QAM     | 1       | 49        | 18.67                    | 18.71                       | 18.63                     |                        |
| 20              | 256QAM     | 1       | 99        | 18.69                    | 18.59                       | 18.45                     |                        |
| 20              | 256QAM     | 50      | 0         | 18.56                    | 18.64                       | 18.50                     | 19.2                   |
| 20              | 256QAM     | 50      | 24        | 18.60                    | 18.53                       | 18.49                     |                        |
| 20              | 256QAM     | 50      | 50        | 18.50                    | 18.46                       | 18.57                     |                        |
| 20              | 256QAM     | 100     | 0         | 18.58                    | 18.45                       | 18.63                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    |                        |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 18.95                    | 18.91                       | 18.87                     | 19.2                   |
| 15              | QPSK       | 1       | 37        | 18.70                    | 18.79                       | 18.77                     |                        |
| 15              | QPSK       | 1       | 74        | 18.81                    | 18.60                       | 18.73                     |                        |
| 15              | QPSK       | 36      | 0         | 18.85                    | 18.86                       | 18.86                     | 19.2                   |
| 15              | QPSK       | 36      | 20        | 18.81                    | 18.91                       | 18.87                     |                        |
| 15              | QPSK       | 36      | 39        | 18.78                    | 18.86                       | 18.81                     |                        |
| 15              | QPSK       | 75      | 0         | 18.85                    | 18.74                       | 18.82                     |                        |
| 15              | 16QAM      | 1       | 0         | 18.93                    | 18.95                       | 18.97                     | 19.2                   |
| 15              | 16QAM      | 1       | 37        | 18.78                    | 18.91                       | 18.80                     |                        |
| 15              | 16QAM      | 1       | 74        | 18.77                    | 18.87                       | 18.78                     |                        |
| 15              | 16QAM      | 36      | 0         | 18.87                    | 18.78                       | 18.76                     | 19.2                   |
| 15              | 16QAM      | 36      | 20        | 18.88                    | 18.80                       | 18.74                     |                        |
| 15              | 16QAM      | 36      | 39        | 18.82                    | 18.84                       | 18.77                     |                        |
| 15              | 16QAM      | 75      | 0         | 18.83                    | 18.78                       | 18.89                     |                        |
| 15              | 64QAM      | 1       | 0         | 18.90                    | 18.75                       | 18.76                     | 19.2                   |
| 15              | 64QAM      | 1       | 37        | 18.68                    | 18.82                       | 18.83                     |                        |
| 15              | 64QAM      | 1       | 74        | 18.59                    | 18.69                       | 18.55                     |                        |
| 15              | 64QAM      | 36      | 0         | 18.86                    | 18.95                       | 18.95                     | 19.2                   |
| 15              | 64QAM      | 36      | 20        | 18.92                    | 18.84                       | 18.92                     |                        |
| 15              | 64QAM      | 36      | 39        | 18.72                    | 18.80                       | 18.75                     |                        |
| 15              | 64QAM      | 75      | 0         | 18.88                    | 18.83                       | 18.76                     |                        |
| 15              | 256QAM     | 1       | 0         | 18.76                    | 18.62                       | 18.82                     | 19.2                   |
| 15              | 256QAM     | 1       | 37        | 18.49                    | 18.64                       | 18.58                     |                        |
| 15              | 256QAM     | 1       | 74        | 18.49                    | 18.39                       | 18.27                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.55                    | 18.54                       | 18.38                     | 19.2                   |
| 15              | 256QAM     | 36      | 20        | 18.48                    | 18.50                       | 18.40                     |                        |



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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 18.33  | 18.44  | 18.39  |                     |
| 15              | 256QAM | 75 | 0  | 18.41  | 18.44  | 18.54  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 18.81  | 19.01  | 18.93  | 19.2                |
| 10              | QPSK   | 1  | 25 | 18.76  | 18.74  | 18.80  |                     |
| 10              | QPSK   | 1  | 49 | 18.67  | 18.61  | 18.58  |                     |
| 10              | QPSK   | 25 | 0  | 18.82  | 18.87  | 18.87  | 19.2                |
| 10              | QPSK   | 25 | 12 | 18.92  | 18.88  | 18.86  |                     |
| 10              | QPSK   | 25 | 25 | 18.75  | 18.86  | 18.82  |                     |
| 10              | QPSK   | 50 | 0  | 18.80  | 18.76  | 18.93  |                     |
| 10              | 16QAM  | 1  | 0  | 18.91  | 18.89  | 18.82  | 19.2                |
| 10              | 16QAM  | 1  | 25 | 18.92  | 18.92  | 18.76  |                     |
| 10              | 16QAM  | 1  | 49 | 18.75  | 18.82  | 18.81  |                     |
| 10              | 16QAM  | 25 | 0  | 18.81  | 18.89  | 18.80  | 19.2                |
| 10              | 16QAM  | 25 | 12 | 18.86  | 18.85  | 18.77  |                     |
| 10              | 16QAM  | 25 | 25 | 18.85  | 18.89  | 18.69  |                     |
| 10              | 16QAM  | 50 | 0  | 18.90  | 18.73  | 18.87  |                     |
| 10              | 64QAM  | 1  | 0  | 18.92  | 18.77  | 18.77  | 19.2                |
| 10              | 64QAM  | 1  | 25 | 18.70  | 18.73  | 18.71  |                     |
| 10              | 64QAM  | 1  | 49 | 18.66  | 18.70  | 18.62  |                     |
| 10              | 64QAM  | 25 | 0  | 18.82  | 18.92  | 18.89  | 19.2                |
| 10              | 64QAM  | 25 | 12 | 18.89  | 18.82  | 18.84  |                     |
| 10              | 64QAM  | 25 | 25 | 18.82  | 18.83  | 18.68  |                     |
| 10              | 64QAM  | 50 | 0  | 18.75  | 18.85  | 18.78  |                     |
| 10              | 256QAM | 1  | 0  | 18.61  | 18.71  | 18.85  | 19.2                |
| 10              | 256QAM | 1  | 25 | 18.64  | 18.53  | 18.61  |                     |
| 10              | 256QAM | 1  | 49 | 18.65  | 18.45  | 18.38  |                     |
| 10              | 256QAM | 25 | 0  | 18.42  | 18.51  | 18.30  | 19.2                |
| 10              | 256QAM | 25 | 12 | 18.58  | 18.46  | 18.43  |                     |
| 10              | 256QAM | 25 | 25 | 18.41  | 18.30  | 18.38  |                     |
| 10              | 256QAM | 50 | 0  | 18.54  | 18.45  | 18.51  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 19.00  | 18.85  | 19.02  | 19.2                |
| 5               | QPSK   | 1  | 12 | 18.76  | 18.83  | 18.86  |                     |
| 5               | QPSK   | 1  | 24 | 18.72  | 18.67  | 18.59  |                     |
| 5               | QPSK   | 12 | 0  | 18.79  | 18.78  | 18.90  | 19.2                |
| 5               | QPSK   | 12 | 7  | 18.90  | 18.74  | 18.70  |                     |
| 5               | QPSK   | 12 | 13 | 18.82  | 18.83  | 18.73  |                     |
| 5               | QPSK   | 25 | 0  | 18.82  | 18.74  | 18.89  |                     |
| 5               | 16QAM  | 1  | 0  | 18.91  | 18.98  | 18.97  | 19.2                |
| 5               | 16QAM  | 1  | 12 | 18.76  | 18.78  | 18.76  |                     |
| 5               | 16QAM  | 1  | 24 | 18.78  | 18.74  | 18.68  |                     |
| 5               | 16QAM  | 12 | 0  | 18.85  | 18.91  | 18.81  | 19.2                |
| 5               | 16QAM  | 12 | 7  | 18.85  | 18.79  | 18.80  |                     |
| 5               | 16QAM  | 12 | 13 | 18.86  | 18.81  | 18.80  |                     |
| 5               | 16QAM  | 25 | 0  | 18.85  | 18.91  | 18.80  |                     |
| 5               | 64QAM  | 1  | 0  | 18.85  | 18.73  | 18.72  | 19.2                |
| 5               | 64QAM  | 1  | 12 | 18.71  | 18.68  | 18.70  |                     |
| 5               | 64QAM  | 1  | 24 | 18.73  | 18.65  | 18.55  |                     |
| 5               | 64QAM  | 12 | 0  | 19.02  | 18.89  | 18.80  | 19.2                |
| 5               | 64QAM  | 12 | 7  | 18.82  | 18.84  | 18.82  |                     |
| 5               | 64QAM  | 12 | 13 | 18.77  | 18.78  | 18.86  |                     |
| 5               | 64QAM  | 25 | 0  | 18.74  | 18.89  | 18.83  |                     |
| 5               | 256QAM | 1  | 0  | 18.75  | 18.70  | 18.68  | 19.2                |
| 5               | 256QAM | 1  | 12 | 18.67  | 18.55  | 18.44  |                     |
| 5               | 256QAM | 1  | 24 | 18.58  | 18.44  | 18.40  |                     |
| 5               | 256QAM | 12 | 0  | 18.47  | 18.60  | 18.44  | 19.2                |
| 5               | 256QAM | 12 | 7  | 18.49  | 18.34  | 18.41  |                     |
| 5               | 256QAM | 12 | 13 | 18.38  | 18.45  | 18.48  |                     |
| 5               | 256QAM | 25 | 0  | 18.48  | 18.34  | 18.46  |                     |



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| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit<br>(dBm) |
|-----------------|--------|----|----|--------|--------|--------|------------------------|
| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 |                        |
| 3               | QPSK   | 1  | 0  | 18.95  | 19.04  | 19.03  | 19.2                   |
| 3               | QPSK   | 1  | 8  | 18.70  | 18.85  | 18.80  |                        |
| 3               | QPSK   | 1  | 14 | 18.78  | 18.67  | 18.76  |                        |
| 3               | QPSK   | 8  | 0  | 18.86  | 18.82  | 18.76  | 19.2                   |
| 3               | QPSK   | 8  | 4  | 18.75  | 18.85  | 18.79  |                        |
| 3               | QPSK   | 8  | 7  | 18.82  | 18.74  | 18.74  |                        |
| 3               | QPSK   | 15 | 0  | 18.71  | 18.87  | 18.84  |                        |
| 3               | 16QAM  | 1  | 0  | 18.88  | 19.02  | 18.99  | 19.2                   |
| 3               | 16QAM  | 1  | 8  | 18.91  | 18.75  | 18.79  |                        |
| 3               | 16QAM  | 1  | 14 | 18.73  | 18.75  | 18.78  |                        |
| 3               | 16QAM  | 8  | 0  | 18.92  | 18.78  | 18.96  | 19.2                   |
| 3               | 16QAM  | 8  | 4  | 18.90  | 18.77  | 18.91  |                        |
| 3               | 16QAM  | 8  | 7  | 18.75  | 18.88  | 18.85  |                        |
| 3               | 16QAM  | 15 | 0  | 18.87  | 18.84  | 18.70  |                        |
| 3               | 64QAM  | 1  | 0  | 18.77  | 18.81  | 18.83  | 19.2                   |
| 3               | 64QAM  | 1  | 8  | 18.71  | 18.86  | 18.83  |                        |
| 3               | 64QAM  | 1  | 14 | 18.74  | 18.75  | 18.58  |                        |
| 3               | 64QAM  | 8  | 0  | 18.91  | 18.94  | 18.80  | 19.2                   |
| 3               | 64QAM  | 8  | 4  | 18.95  | 18.76  | 18.89  |                        |
| 3               | 64QAM  | 8  | 7  | 18.83  | 18.87  | 18.71  |                        |
| 3               | 64QAM  | 15 | 0  | 18.76  | 18.83  | 18.74  |                        |
| 3               | 256QAM | 1  | 0  | 18.57  | 18.57  | 18.79  | 19.2                   |
| 3               | 256QAM | 1  | 8  | 18.64  | 18.61  | 18.62  |                        |
| 3               | 256QAM | 1  | 14 | 18.64  | 18.51  | 18.44  |                        |
| 3               | 256QAM | 8  | 0  | 18.37  | 18.57  | 18.47  | 19.2                   |
| 3               | 256QAM | 8  | 4  | 18.51  | 18.39  | 18.38  |                        |
| 3               | 256QAM | 8  | 7  | 18.37  | 18.41  | 18.53  |                        |
| 3               | 256QAM | 15 | 0  | 18.53  | 18.29  | 18.56  |                        |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                        |
| 1.4             | QPSK   | 1  | 0  | 18.89  | 18.89  | 18.91  | 19.2                   |
| 1.4             | QPSK   | 1  | 3  | 18.85  | 18.81  | 18.76  |                        |
| 1.4             | QPSK   | 1  | 5  | 18.71  | 18.72  | 18.66  |                        |
| 1.4             | QPSK   | 3  | 0  | 18.79  | 18.93  | 18.77  |                        |
| 1.4             | QPSK   | 3  | 1  | 18.88  | 18.88  | 18.69  |                        |
| 1.4             | QPSK   | 3  | 3  | 18.80  | 18.74  | 18.82  |                        |
| 1.4             | QPSK   | 6  | 0  | 18.75  | 18.84  | 18.91  | 19.2                   |
| 1.4             | 16QAM  | 1  | 0  | 18.88  | 18.83  | 18.94  | 19.2                   |
| 1.4             | 16QAM  | 1  | 3  | 18.76  | 18.74  | 18.74  |                        |
| 1.4             | 16QAM  | 1  | 5  | 18.76  | 18.81  | 18.63  |                        |
| 1.4             | 16QAM  | 3  | 0  | 18.86  | 18.89  | 18.94  |                        |
| 1.4             | 16QAM  | 3  | 1  | 18.84  | 18.82  | 18.86  |                        |
| 1.4             | 16QAM  | 3  | 3  | 18.71  | 18.78  | 18.86  | 19.2                   |
| 1.4             | 16QAM  | 6  | 0  | 18.77  | 18.83  | 18.87  |                        |
| 1.4             | 64QAM  | 1  | 0  | 18.81  | 18.84  | 18.83  | 19.2                   |
| 1.4             | 64QAM  | 1  | 3  | 18.76  | 18.70  | 18.81  |                        |
| 1.4             | 64QAM  | 1  | 5  | 18.56  | 18.75  | 18.53  |                        |
| 1.4             | 64QAM  | 3  | 0  | 18.96  | 18.99  | 18.83  |                        |
| 1.4             | 64QAM  | 3  | 1  | 18.95  | 18.79  | 18.91  |                        |
| 1.4             | 64QAM  | 3  | 3  | 18.73  | 18.72  | 18.84  | 19.2                   |
| 1.4             | 64QAM  | 6  | 0  | 18.86  | 18.92  | 18.77  |                        |
| 1.4             | 256QAM | 1  | 0  | 18.61  | 18.69  | 18.67  | 19.2                   |
| 1.4             | 256QAM | 1  | 3  | 18.54  | 18.61  | 18.60  |                        |
| 1.4             | 256QAM | 1  | 5  | 18.64  | 18.41  | 18.39  |                        |
| 1.4             | 256QAM | 3  | 0  | 18.39  | 18.54  | 18.37  |                        |
| 1.4             | 256QAM | 3  | 1  | 18.59  | 18.36  | 18.35  |                        |
| 1.4             | 256QAM | 3  | 3  | 18.34  | 18.42  | 18.52  | 19.2                   |
| 1.4             | 256QAM | 6  | 0  | 18.48  | 18.40  | 18.45  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 16.21                    | 16.22                       | 16.11                     |                        |
| 20              | QPSK       | 1       | 49        | 16.05                    | 16.02                       | 16.08                     | 16.9                   |
| 20              | QPSK       | 1       | 99        | 15.97                    | 15.98                       | 15.96                     |                        |
| 20              | QPSK       | 50      | 0         | 16.15                    | 16.18                       | 16.11                     |                        |
| 20              | QPSK       | 50      | 24        | 16.11                    | 16.10                       | 16.09                     | 16.9                   |
| 20              | QPSK       | 50      | 50        | 16.02                    | 16.10                       | 16.05                     |                        |
| 20              | QPSK       | 100     | 0         | 16.10                    | 16.12                       | 16.00                     |                        |
| 20              | 16QAM      | 1       | 0         | 16.12                    | 16.08                       | 16.10                     | 16.9                   |
| 20              | 16QAM      | 1       | 49        | 15.88                    | 15.95                       | 15.88                     |                        |
| 20              | 16QAM      | 1       | 99        | 16.01                    | 15.92                       | 15.93                     |                        |
| 20              | 16QAM      | 50      | 0         | 15.76                    | 15.68                       | 15.70                     | 16.9                   |
| 20              | 16QAM      | 50      | 24        | 15.69                    | 15.71                       | 15.69                     |                        |
| 20              | 16QAM      | 50      | 50        | 15.57                    | 15.62                       | 15.63                     |                        |
| 20              | 16QAM      | 100     | 0         | 15.67                    | 15.70                       | 15.65                     | 16.9                   |
| 20              | 64QAM      | 1       | 0         | 15.98                    | 15.96                       | 15.96                     |                        |
| 20              | 64QAM      | 1       | 49        | 15.86                    | 15.93                       | 15.92                     |                        |
| 20              | 64QAM      | 1       | 99        | 15.91                    | 15.76                       | 15.86                     | 16.9                   |
| 20              | 64QAM      | 50      | 0         | 15.73                    | 15.74                       | 15.71                     |                        |
| 20              | 64QAM      | 50      | 24        | 15.64                    | 15.66                       | 15.70                     |                        |
| 20              | 64QAM      | 50      | 50        | 15.62                    | 15.60                       | 15.58                     | 16.9                   |
| 20              | 64QAM      | 100     | 0         | 15.73                    | 15.69                       | 15.64                     |                        |
| 20              | 256QAM     | 1       | 0         | 16.00                    | 16.03                       | 15.89                     |                        |
| 20              | 256QAM     | 1       | 49        | 15.89                    | 15.87                       | 16.01                     | 16.9                   |
| 20              | 256QAM     | 1       | 99        | 15.78                    | 15.78                       | 15.85                     |                        |
| 20              | 256QAM     | 50      | 0         | 15.82                    | 15.70                       | 15.58                     |                        |
| 20              | 256QAM     | 50      | 24        | 15.74                    | 15.77                       | 15.61                     | 16.9                   |
| 20              | 256QAM     | 50      | 50        | 15.53                    | 15.73                       | 15.67                     |                        |
| 20              | 256QAM     | 100     | 0         | 15.61                    | 15.75                       | 15.82                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    |                        |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 16.19                    | 15.95                       | 16.04                     |                        |
| 15              | QPSK       | 1       | 37        | 15.85                    | 15.92                       | 16.01                     | 16.9                   |
| 15              | QPSK       | 1       | 74        | 15.90                    | 15.78                       | 15.89                     |                        |
| 15              | QPSK       | 36      | 0         | 15.98                    | 16.02                       | 16.10                     |                        |
| 15              | QPSK       | 36      | 20        | 15.86                    | 16.01                       | 15.89                     | 16.9                   |
| 15              | QPSK       | 36      | 39        | 15.96                    | 16.05                       | 15.88                     |                        |
| 15              | QPSK       | 75      | 0         | 16.07                    | 15.95                       | 15.90                     |                        |
| 15              | 16QAM      | 1       | 0         | 15.98                    | 16.08                       | 16.10                     | 16.9                   |
| 15              | 16QAM      | 1       | 37        | 15.97                    | 15.94                       | 15.79                     |                        |
| 15              | 16QAM      | 1       | 74        | 15.91                    | 15.93                       | 15.73                     |                        |
| 15              | 16QAM      | 36      | 0         | 15.73                    | 15.56                       | 15.55                     | 16.9                   |
| 15              | 16QAM      | 36      | 20        | 15.51                    | 15.59                       | 15.51                     |                        |
| 15              | 16QAM      | 36      | 39        | 15.55                    | 15.46                       | 15.61                     |                        |
| 15              | 16QAM      | 75      | 0         | 15.66                    | 15.57                       | 15.53                     | 16.9                   |
| 15              | 64QAM      | 1       | 0         | 15.85                    | 15.89                       | 15.79                     |                        |
| 15              | 64QAM      | 1       | 37        | 15.78                    | 15.82                       | 15.91                     |                        |
| 15              | 64QAM      | 1       | 74        | 15.80                    | 15.80                       | 15.64                     | 16.9                   |
| 15              | 64QAM      | 36      | 0         | 15.54                    | 15.69                       | 15.69                     |                        |
| 15              | 64QAM      | 36      | 20        | 15.51                    | 15.65                       | 15.65                     |                        |
| 15              | 64QAM      | 36      | 39        | 15.59                    | 15.51                       | 15.66                     | 16.9                   |
| 15              | 64QAM      | 75      | 0         | 15.66                    | 15.57                       | 15.51                     |                        |
| 15              | 256QAM     | 1       | 0         | 15.82                    | 15.89                       | 15.80                     |                        |
| 15              | 256QAM     | 1       | 37        | 15.86                    | 15.82                       | 15.89                     | 16.9                   |
| 15              | 256QAM     | 1       | 74        | 15.71                    | 15.73                       | 15.74                     |                        |
| 15              | 256QAM     | 36      | 0         | 15.66                    | 15.66                       | 15.62                     |                        |
| 15              | 256QAM     | 36      | 20        | 15.68                    | 15.70                       | 15.54                     | 16.9                   |



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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 15.43  | 15.68  | 15.58  | Tune-up limit (dBm) |
| 15              | 256QAM | 75 | 0  | 15.53  | 15.63  | 15.61  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 16.13  | 16.01  | 16.11  | 16.9                |
| 10              | QPSK   | 1  | 25 | 15.89  | 15.83  | 15.86  |                     |
| 10              | QPSK   | 1  | 49 | 15.83  | 15.80  | 15.73  |                     |
| 10              | QPSK   | 25 | 0  | 16.01  | 16.06  | 16.11  | 16.9                |
| 10              | QPSK   | 25 | 12 | 15.91  | 16.07  | 15.88  |                     |
| 10              | QPSK   | 25 | 25 | 15.96  | 15.84  | 16.04  |                     |
| 10              | QPSK   | 50 | 0  | 15.90  | 15.93  | 15.99  |                     |
| 10              | 16QAM  | 1  | 0  | 15.99  | 15.98  | 16.13  | 16.9                |
| 10              | 16QAM  | 1  | 25 | 15.89  | 15.95  | 15.79  |                     |
| 10              | 16QAM  | 1  | 49 | 15.87  | 15.84  | 15.83  |                     |
| 10              | 16QAM  | 25 | 0  | 15.65  | 15.59  | 15.72  | 16.9                |
| 10              | 16QAM  | 25 | 12 | 15.69  | 15.55  | 15.58  |                     |
| 10              | 16QAM  | 25 | 25 | 15.58  | 15.55  | 15.46  |                     |
| 10              | 16QAM  | 50 | 0  | 15.70  | 15.47  | 15.58  |                     |
| 10              | 64QAM  | 1  | 0  | 15.77  | 15.70  | 15.89  | 16.9                |
| 10              | 64QAM  | 1  | 25 | 15.88  | 15.83  | 15.90  |                     |
| 10              | 64QAM  | 1  | 49 | 15.83  | 15.75  | 15.68  |                     |
| 10              | 64QAM  | 25 | 0  | 15.64  | 15.67  | 15.62  | 16.9                |
| 10              | 64QAM  | 25 | 12 | 15.50  | 15.44  | 15.61  |                     |
| 10              | 64QAM  | 25 | 25 | 15.44  | 15.40  | 15.48  |                     |
| 10              | 64QAM  | 50 | 0  | 15.51  | 15.59  | 15.51  |                     |
| 10              | 256QAM | 1  | 0  | 15.90  | 15.91  | 15.70  | 16.9                |
| 10              | 256QAM | 1  | 25 | 15.73  | 15.85  | 15.91  |                     |
| 10              | 256QAM | 1  | 49 | 15.92  | 15.76  | 15.61  |                     |
| 10              | 256QAM | 25 | 0  | 15.70  | 15.43  | 15.61  | 16.9                |
| 10              | 256QAM | 25 | 12 | 15.69  | 15.71  | 15.60  |                     |
| 10              | 256QAM | 25 | 25 | 15.39  | 15.71  | 15.69  |                     |
| 10              | 256QAM | 50 | 0  | 15.29  | 15.53  | 15.75  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 16.12  | 16.01  | 16.14  | 16.9                |
| 5               | QPSK   | 1  | 12 | 16.02  | 15.86  | 15.96  |                     |
| 5               | QPSK   | 1  | 24 | 15.97  | 15.80  | 15.87  |                     |
| 5               | QPSK   | 12 | 0  | 15.86  | 16.00  | 16.08  | 16.9                |
| 5               | QPSK   | 12 | 7  | 15.99  | 16.05  | 15.97  |                     |
| 5               | QPSK   | 12 | 13 | 15.97  | 15.98  | 15.85  |                     |
| 5               | QPSK   | 25 | 0  | 15.97  | 15.96  | 15.89  |                     |
| 5               | 16QAM  | 1  | 0  | 15.99  | 16.15  | 15.96  | 16.9                |
| 5               | 16QAM  | 1  | 12 | 15.81  | 15.90  | 15.86  |                     |
| 5               | 16QAM  | 1  | 24 | 15.91  | 15.80  | 15.86  |                     |
| 5               | 16QAM  | 12 | 0  | 15.54  | 15.72  | 15.54  | 16.9                |
| 5               | 16QAM  | 12 | 7  | 15.54  | 15.67  | 15.50  |                     |
| 5               | 16QAM  | 12 | 13 | 15.52  | 15.53  | 15.61  |                     |
| 5               | 16QAM  | 25 | 0  | 15.55  | 15.56  | 15.55  |                     |
| 5               | 64QAM  | 1  | 0  | 15.79  | 15.74  | 15.91  | 16.9                |
| 5               | 64QAM  | 1  | 12 | 15.83  | 15.84  | 15.82  |                     |
| 5               | 64QAM  | 1  | 24 | 15.93  | 15.69  | 15.79  |                     |
| 5               | 64QAM  | 12 | 0  | 15.60  | 15.71  | 15.51  | 16.9                |
| 5               | 64QAM  | 12 | 7  | 15.50  | 15.54  | 15.61  |                     |
| 5               | 64QAM  | 12 | 13 | 15.46  | 15.62  | 15.53  |                     |
| 5               | 64QAM  | 25 | 0  | 15.56  | 15.47  | 15.57  |                     |
| 5               | 256QAM | 1  | 0  | 15.77  | 15.81  | 15.90  | 16.9                |
| 5               | 256QAM | 1  | 12 | 15.75  | 15.75  | 15.84  |                     |
| 5               | 256QAM | 1  | 24 | 15.61  | 15.61  | 15.71  |                     |
| 5               | 256QAM | 12 | 0  | 15.63  | 15.53  | 15.58  | 16.9                |
| 5               | 256QAM | 12 | 7  | 15.67  | 15.83  | 15.56  |                     |
| 5               | 256QAM | 12 | 13 | 15.27  | 15.72  | 15.39  |                     |
| 5               | 256QAM | 25 | 0  | 15.46  | 15.85  | 15.67  |                     |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit       |



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| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 | (dBm)               |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 3               | QPSK   | 1  | 0  | 16.06  | 16.06  | 15.94  | 16.9                |
| 3               | QPSK   | 1  | 8  | 15.94  | 15.89  | 15.93  |                     |
| 3               | QPSK   | 1  | 14 | 15.92  | 15.91  | 15.81  |                     |
| 3               | QPSK   | 8  | 0  | 16.11  | 16.00  | 16.02  | 16.9                |
| 3               | QPSK   | 8  | 4  | 15.97  | 16.09  | 15.91  |                     |
| 3               | QPSK   | 8  | 7  | 15.94  | 15.84  | 15.97  |                     |
| 3               | QPSK   | 15 | 0  | 15.98  | 15.96  | 16.06  |                     |
| 3               | 16QAM  | 1  | 0  | 16.14  | 16.13  | 16.02  | 16.9                |
| 3               | 16QAM  | 1  | 8  | 15.81  | 15.86  | 15.87  |                     |
| 3               | 16QAM  | 1  | 14 | 15.97  | 15.92  | 15.72  |                     |
| 3               | 16QAM  | 8  | 0  | 15.67  | 15.67  | 15.67  | 16.9                |
| 3               | 16QAM  | 8  | 4  | 15.49  | 15.50  | 15.63  |                     |
| 3               | 16QAM  | 8  | 7  | 15.58  | 15.39  | 15.64  |                     |
| 3               | 16QAM  | 15 | 0  | 15.57  | 15.64  | 15.44  |                     |
| 3               | 64QAM  | 1  | 0  | 15.83  | 15.97  | 15.89  | 16.9                |
| 3               | 64QAM  | 1  | 8  | 15.77  | 15.80  | 15.77  |                     |
| 3               | 64QAM  | 1  | 14 | 15.74  | 15.68  | 15.69  |                     |
| 3               | 64QAM  | 8  | 0  | 15.49  | 15.61  | 15.51  | 16.9                |
| 3               | 64QAM  | 8  | 4  | 15.62  | 15.60  | 15.59  |                     |
| 3               | 64QAM  | 8  | 7  | 15.43  | 15.63  | 15.47  |                     |
| 3               | 64QAM  | 15 | 0  | 15.70  | 15.57  | 15.48  |                     |
| 3               | 256QAM | 1  | 0  | 15.90  | 15.94  | 15.77  | 16.9                |
| 3               | 256QAM | 1  | 8  | 15.80  | 15.79  | 15.96  |                     |
| 3               | 256QAM | 1  | 14 | 15.77  | 15.72  | 15.73  |                     |
| 3               | 256QAM | 8  | 0  | 15.54  | 15.65  | 15.54  | 16.9                |
| 3               | 256QAM | 8  | 4  | 15.55  | 15.70  | 15.67  |                     |
| 3               | 256QAM | 8  | 7  | 15.41  | 15.78  | 15.54  |                     |
| 3               | 256QAM | 15 | 0  | 15.46  | 15.71  | 15.58  |                     |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                     |
| 1.4             | QPSK   | 1  | 0  | 16.14  | 15.99  | 16.05  | 16.9                |
| 1.4             | QPSK   | 1  | 3  | 16.05  | 16.08  | 15.91  |                     |
| 1.4             | QPSK   | 1  | 5  | 15.99  | 15.78  | 15.86  |                     |
| 1.4             | QPSK   | 3  | 0  | 16.01  | 16.10  | 15.88  |                     |
| 1.4             | QPSK   | 3  | 1  | 15.92  | 15.96  | 15.91  |                     |
| 1.4             | QPSK   | 3  | 3  | 15.80  | 15.91  | 15.86  |                     |
| 1.4             | QPSK   | 6  | 0  | 16.00  | 15.96  | 15.88  | 16.9                |
| 1.4             | 16QAM  | 1  | 0  | 16.03  | 15.99  | 15.99  | 16.9                |
| 1.4             | 16QAM  | 1  | 3  | 15.89  | 15.82  | 15.70  |                     |
| 1.4             | 16QAM  | 1  | 5  | 15.93  | 15.96  | 15.72  |                     |
| 1.4             | 16QAM  | 3  | 0  | 15.57  | 15.73  | 15.61  |                     |
| 1.4             | 16QAM  | 3  | 1  | 15.58  | 15.50  | 15.44  |                     |
| 1.4             | 16QAM  | 3  | 3  | 15.55  | 15.43  | 15.48  |                     |
| 1.4             | 16QAM  | 6  | 0  | 15.73  | 15.55  | 15.61  | 16.9                |
| 1.4             | 64QAM  | 1  | 0  | 15.93  | 15.80  | 15.95  | 16.9                |
| 1.4             | 64QAM  | 1  | 3  | 15.79  | 15.91  | 15.96  |                     |
| 1.4             | 64QAM  | 1  | 5  | 15.83  | 15.78  | 15.80  |                     |
| 1.4             | 64QAM  | 3  | 0  | 15.73  | 15.70  | 15.72  |                     |
| 1.4             | 64QAM  | 3  | 1  | 15.62  | 15.50  | 15.67  |                     |
| 1.4             | 64QAM  | 3  | 3  | 15.43  | 15.42  | 15.60  |                     |
| 1.4             | 64QAM  | 6  | 0  | 15.50  | 15.55  | 15.53  | 16.9                |
| 1.4             | 256QAM | 1  | 0  | 15.96  | 15.88  | 15.82  | 16.9                |
| 1.4             | 256QAM | 1  | 3  | 15.82  | 15.92  | 15.90  |                     |
| 1.4             | 256QAM | 1  | 5  | 15.83  | 15.64  | 15.75  |                     |
| 1.4             | 256QAM | 3  | 0  | 15.61  | 15.68  | 15.51  |                     |
| 1.4             | 256QAM | 3  | 1  | 15.52  | 15.66  | 15.73  |                     |
| 1.4             | 256QAM | 3  | 3  | 15.40  | 15.56  | 15.55  |                     |
| 1.4             | 256QAM | 6  | 0  | 15.44  | 15.60  | 15.62  | 16.9                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 19.16                    | 19.20                       | 19.17                     | 19.4                   |
| 20              | QPSK       | 1       | 49        | 18.98                    | 19.04                       | 19.02                     |                        |
| 20              | QPSK       | 1       | 99        | 18.98                    | 18.97                       | 18.93                     |                        |
| 20              | QPSK       | 50      | 0         | 19.15                    | 19.16                       | 19.15                     | 19.4                   |
| 20              | QPSK       | 50      | 24        | 19.11                    | 19.12                       | 19.12                     |                        |
| 20              | QPSK       | 50      | 50        | 19.09                    | 19.06                       | 19.05                     |                        |
| 20              | QPSK       | 100     | 0         | 19.12                    | 19.13                       | 19.12                     |                        |
| 20              | 16QAM      | 1       | 0         | 19.10                    | 19.02                       | 19.06                     | 19.4                   |
| 20              | 16QAM      | 1       | 49        | 18.92                    | 18.94                       | 18.85                     |                        |
| 20              | 16QAM      | 1       | 99        | 18.85                    | 18.91                       | 18.89                     |                        |
| 20              | 16QAM      | 50      | 0         | 19.15                    | 19.16                       | 19.16                     | 19.4                   |
| 20              | 16QAM      | 50      | 24        | 19.09                    | 19.13                       | 19.09                     |                        |
| 20              | 16QAM      | 50      | 50        | 19.05                    | 19.08                       | 19.05                     |                        |
| 20              | 16QAM      | 100     | 0         | 19.11                    | 19.13                       | 19.08                     |                        |
| 20              | 64QAM      | 1       | 0         | 19.03                    | 19.00                       | 19.09                     | 19.4                   |
| 20              | 64QAM      | 1       | 49        | 18.85                    | 18.86                       | 18.81                     |                        |
| 20              | 64QAM      | 1       | 99        | 18.77                    | 18.79                       | 18.85                     |                        |
| 20              | 64QAM      | 50      | 0         | 19.19                    | 19.17                       | 19.13                     | 19.4                   |
| 20              | 64QAM      | 50      | 24        | 19.12                    | 19.13                       | 19.10                     |                        |
| 20              | 64QAM      | 50      | 50        | 19.06                    | 19.08                       | 19.03                     |                        |
| 20              | 64QAM      | 100     | 0         | 19.12                    | 19.10                       | 19.10                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.04                    | 18.93                       | 19.10                     | 19.4                   |
| 20              | 256QAM     | 1       | 49        | 18.82                    | 18.89                       | 18.82                     |                        |
| 20              | 256QAM     | 1       | 99        | 18.62                    | 18.94                       | 18.74                     |                        |
| 20              | 256QAM     | 50      | 0         | 18.64                    | 18.72                       | 18.64                     | 19.4                   |
| 20              | 256QAM     | 50      | 24        | 18.62                    | 18.59                       | 18.72                     |                        |
| 20              | 256QAM     | 50      | 50        | 18.59                    | 18.61                       | 18.62                     |                        |
| 20              | 256QAM     | 100     | 0         | 18.66                    | 18.61                       | 18.67                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    |                        |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 18.99                    | 19.12                       | 19.11                     | 19.4                   |
| 15              | QPSK       | 1       | 37        | 18.90                    | 18.85                       | 19.00                     |                        |
| 15              | QPSK       | 1       | 74        | 18.85                    | 18.77                       | 18.92                     |                        |
| 15              | QPSK       | 36      | 0         | 19.15                    | 18.98                       | 19.12                     | 19.4                   |
| 15              | QPSK       | 36      | 20        | 18.99                    | 18.92                       | 18.93                     |                        |
| 15              | QPSK       | 36      | 39        | 19.00                    | 19.05                       | 19.01                     |                        |
| 15              | QPSK       | 75      | 0         | 19.03                    | 19.13                       | 19.06                     |                        |
| 15              | 16QAM      | 1       | 0         | 18.95                    | 19.02                       | 19.05                     | 19.4                   |
| 15              | 16QAM      | 1       | 37        | 18.73                    | 18.84                       | 18.82                     |                        |
| 15              | 16QAM      | 1       | 74        | 18.78                    | 18.81                       | 18.70                     |                        |
| 15              | 16QAM      | 36      | 0         | 19.13                    | 19.08                       | 19.07                     | 19.4                   |
| 15              | 16QAM      | 36      | 20        | 18.92                    | 19.13                       | 18.95                     |                        |
| 15              | 16QAM      | 36      | 39        | 18.92                    | 18.99                       | 18.99                     |                        |
| 15              | 16QAM      | 75      | 0         | 18.91                    | 19.09                       | 19.01                     |                        |
| 15              | 64QAM      | 1       | 0         | 18.98                    | 18.83                       | 18.91                     | 19.4                   |
| 15              | 64QAM      | 1       | 37        | 18.78                    | 18.79                       | 18.67                     |                        |
| 15              | 64QAM      | 1       | 74        | 18.60                    | 18.67                       | 18.67                     |                        |
| 15              | 64QAM      | 36      | 0         | 18.99                    | 19.11                       | 19.04                     | 19.4                   |
| 15              | 64QAM      | 36      | 20        | 19.09                    | 18.97                       | 18.96                     |                        |
| 15              | 64QAM      | 36      | 39        | 18.97                    | 18.93                       | 18.95                     |                        |
| 15              | 64QAM      | 75      | 0         | 18.98                    | 19.01                       | 19.01                     |                        |
| 15              | 256QAM     | 1       | 0         | 18.90                    | 18.78                       | 19.07                     | 19.4                   |
| 15              | 256QAM     | 1       | 37        | 18.67                    | 18.82                       | 18.65                     |                        |
| 15              | 256QAM     | 1       | 74        | 18.54                    | 18.83                       | 18.62                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.57                    | 18.62                       | 18.48                     | 19.4                   |
| 15              | 256QAM     | 36      | 20        | 18.53                    | 18.40                       | 18.65                     |                        |



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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 18.54  | 18.47  | 18.42  | Tune-up limit (dBm) |
| 15              | 256QAM | 75 | 0  | 18.54  | 18.51  | 18.63  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 19.07  | 19.13  | 19.17  | 19.4                |
| 10              | QPSK   | 1  | 25 | 18.86  | 18.95  | 18.94  |                     |
| 10              | QPSK   | 1  | 49 | 18.90  | 18.89  | 18.89  |                     |
| 10              | QPSK   | 25 | 0  | 19.02  | 19.10  | 19.13  | 19.4                |
| 10              | QPSK   | 25 | 12 | 18.92  | 18.93  | 19.11  |                     |
| 10              | QPSK   | 25 | 25 | 19.07  | 19.00  | 18.85  |                     |
| 10              | QPSK   | 50 | 0  | 18.97  | 19.06  | 19.08  |                     |
| 10              | 16QAM  | 1  | 0  | 18.91  | 18.93  | 18.93  | 19.4                |
| 10              | 16QAM  | 1  | 25 | 18.80  | 18.78  | 18.73  |                     |
| 10              | 16QAM  | 1  | 49 | 18.83  | 18.80  | 18.76  |                     |
| 10              | 16QAM  | 25 | 0  | 19.02  | 19.14  | 19.07  | 19.4                |
| 10              | 16QAM  | 25 | 12 | 18.94  | 19.09  | 19.00  |                     |
| 10              | 16QAM  | 25 | 25 | 18.91  | 18.96  | 18.89  |                     |
| 10              | 16QAM  | 50 | 0  | 18.97  | 19.00  | 19.06  |                     |
| 10              | 64QAM  | 1  | 0  | 18.85  | 18.89  | 19.07  | 19.4                |
| 10              | 64QAM  | 1  | 25 | 18.65  | 18.73  | 18.81  |                     |
| 10              | 64QAM  | 1  | 49 | 18.75  | 18.78  | 18.80  |                     |
| 10              | 64QAM  | 25 | 0  | 19.11  | 19.00  | 19.12  | 19.4                |
| 10              | 64QAM  | 25 | 12 | 18.94  | 19.01  | 19.09  |                     |
| 10              | 64QAM  | 25 | 25 | 18.91  | 18.89  | 18.94  |                     |
| 10              | 64QAM  | 50 | 0  | 19.11  | 19.06  | 18.96  |                     |
| 10              | 256QAM | 1  | 0  | 19.03  | 18.92  | 18.93  | 19.4                |
| 10              | 256QAM | 1  | 25 | 18.68  | 18.86  | 18.66  |                     |
| 10              | 256QAM | 1  | 49 | 18.45  | 18.79  | 18.68  |                     |
| 10              | 256QAM | 25 | 0  | 18.50  | 18.58  | 18.46  | 19.4                |
| 10              | 256QAM | 25 | 12 | 18.50  | 18.49  | 18.59  |                     |
| 10              | 256QAM | 25 | 25 | 18.40  | 18.59  | 18.56  |                     |
| 10              | 256QAM | 50 | 0  | 18.54  | 18.59  | 18.48  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 19.09  | 19.09  | 19.12  | 19.4                |
| 5               | QPSK   | 1  | 12 | 18.97  | 18.96  | 18.96  |                     |
| 5               | QPSK   | 1  | 24 | 18.90  | 18.77  | 18.78  |                     |
| 5               | QPSK   | 12 | 0  | 19.11  | 19.06  | 19.10  | 19.4                |
| 5               | QPSK   | 12 | 7  | 18.91  | 18.93  | 18.92  |                     |
| 5               | QPSK   | 12 | 13 | 19.07  | 18.97  | 19.04  |                     |
| 5               | QPSK   | 25 | 0  | 19.04  | 19.04  | 18.94  |                     |
| 5               | 16QAM  | 1  | 0  | 19.07  | 18.83  | 19.04  | 19.4                |
| 5               | 16QAM  | 1  | 12 | 18.77  | 18.92  | 18.68  |                     |
| 5               | 16QAM  | 1  | 24 | 18.79  | 18.82  | 18.77  |                     |
| 5               | 16QAM  | 12 | 0  | 18.95  | 19.12  | 19.16  | 19.4                |
| 5               | 16QAM  | 12 | 7  | 18.94  | 18.93  | 18.93  |                     |
| 5               | 16QAM  | 12 | 13 | 19.01  | 19.00  | 18.90  |                     |
| 5               | 16QAM  | 25 | 0  | 19.11  | 19.00  | 19.02  |                     |
| 5               | 64QAM  | 1  | 0  | 18.92  | 18.81  | 19.02  | 19.4                |
| 5               | 64QAM  | 1  | 12 | 18.67  | 18.71  | 18.80  |                     |
| 5               | 64QAM  | 1  | 24 | 18.69  | 18.76  | 18.74  |                     |
| 5               | 64QAM  | 12 | 0  | 19.12  | 19.17  | 19.09  | 19.4                |
| 5               | 64QAM  | 12 | 7  | 19.11  | 19.06  | 18.91  |                     |
| 5               | 64QAM  | 12 | 13 | 19.04  | 18.92  | 18.91  |                     |
| 5               | 64QAM  | 25 | 0  | 19.11  | 18.93  | 18.95  |                     |
| 5               | 256QAM | 1  | 0  | 18.95  | 18.90  | 19.05  | 19.4                |
| 5               | 256QAM | 1  | 12 | 18.67  | 18.87  | 18.78  |                     |
| 5               | 256QAM | 1  | 24 | 18.45  | 18.89  | 18.69  |                     |
| 5               | 256QAM | 12 | 0  | 18.52  | 18.56  | 18.52  | 19.4                |
| 5               | 256QAM | 12 | 7  | 18.53  | 18.48  | 18.63  |                     |
| 5               | 256QAM | 12 | 13 | 18.41  | 18.44  | 18.59  |                     |
| 5               | 256QAM | 25 | 0  | 18.46  | 18.54  | 18.47  |                     |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit       |



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| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 | (dBm)               |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 3               | QPSK   | 1  | 0  | 19.02  | 19.18  | 19.13  | 19.4                |
| 3               | QPSK   | 1  | 8  | 18.88  | 18.84  | 18.95  |                     |
| 3               | QPSK   | 1  | 14 | 18.85  | 18.84  | 18.85  |                     |
| 3               | QPSK   | 8  | 0  | 19.12  | 19.11  | 19.10  | 19.4                |
| 3               | QPSK   | 8  | 4  | 19.02  | 19.12  | 19.00  |                     |
| 3               | QPSK   | 8  | 7  | 18.95  | 18.99  | 18.94  |                     |
| 3               | QPSK   | 15 | 0  | 19.03  | 19.06  | 19.04  |                     |
| 3               | 16QAM  | 1  | 0  | 19.03  | 18.99  | 18.86  | 19.4                |
| 3               | 16QAM  | 1  | 8  | 18.82  | 18.75  | 18.69  |                     |
| 3               | 16QAM  | 1  | 14 | 18.65  | 18.89  | 18.83  |                     |
| 3               | 16QAM  | 8  | 0  | 18.95  | 19.07  | 19.07  | 19.4                |
| 3               | 16QAM  | 8  | 4  | 18.98  | 18.95  | 18.93  |                     |
| 3               | 16QAM  | 8  | 7  | 18.99  | 18.99  | 19.00  |                     |
| 3               | 16QAM  | 15 | 0  | 18.94  | 19.05  | 18.93  |                     |
| 3               | 64QAM  | 1  | 0  | 19.01  | 18.88  | 18.94  | 19.4                |
| 3               | 64QAM  | 1  | 8  | 18.82  | 18.85  | 18.74  |                     |
| 3               | 64QAM  | 1  | 14 | 18.74  | 18.71  | 18.68  |                     |
| 3               | 64QAM  | 8  | 0  | 19.03  | 19.05  | 19.09  | 19.4                |
| 3               | 64QAM  | 8  | 4  | 19.11  | 18.95  | 18.92  |                     |
| 3               | 64QAM  | 8  | 7  | 19.03  | 19.01  | 19.02  |                     |
| 3               | 64QAM  | 15 | 0  | 19.11  | 19.05  | 18.93  |                     |
| 3               | 256QAM | 1  | 0  | 18.93  | 18.78  | 19.00  | 19.4                |
| 3               | 256QAM | 1  | 8  | 18.73  | 18.80  | 18.82  |                     |
| 3               | 256QAM | 1  | 14 | 18.62  | 18.81  | 18.71  |                     |
| 3               | 256QAM | 8  | 0  | 18.62  | 18.53  | 18.58  | 19.4                |
| 3               | 256QAM | 8  | 4  | 18.48  | 18.45  | 18.55  |                     |
| 3               | 256QAM | 8  | 7  | 18.42  | 18.44  | 18.55  |                     |
| 3               | 256QAM | 15 | 0  | 18.50  | 18.49  | 18.59  |                     |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                     |
| 1.4             | QPSK   | 1  | 0  | 19.10  | 19.01  | 19.12  | 19.4                |
| 1.4             | QPSK   | 1  | 3  | 18.88  | 19.01  | 18.91  |                     |
| 1.4             | QPSK   | 1  | 5  | 18.84  | 18.89  | 18.73  |                     |
| 1.4             | QPSK   | 3  | 0  | 19.12  | 19.16  | 19.11  |                     |
| 1.4             | QPSK   | 3  | 1  | 19.03  | 19.10  | 19.12  |                     |
| 1.4             | QPSK   | 3  | 3  | 18.90  | 18.92  | 18.89  |                     |
| 1.4             | QPSK   | 6  | 0  | 19.10  | 19.00  | 18.94  | 19.4                |
| 1.4             | 16QAM  | 1  | 0  | 18.91  | 18.90  | 18.96  | 19.4                |
| 1.4             | 16QAM  | 1  | 3  | 18.76  | 18.80  | 18.79  |                     |
| 1.4             | 16QAM  | 1  | 5  | 18.65  | 18.90  | 18.80  |                     |
| 1.4             | 16QAM  | 3  | 0  | 18.95  | 19.12  | 19.13  |                     |
| 1.4             | 16QAM  | 3  | 1  | 18.98  | 18.97  | 18.89  |                     |
| 1.4             | 16QAM  | 3  | 3  | 18.97  | 18.95  | 18.90  |                     |
| 1.4             | 16QAM  | 6  | 0  | 19.05  | 19.09  | 18.89  | 19.4                |
| 1.4             | 64QAM  | 1  | 0  | 18.96  | 18.87  | 19.01  | 19.4                |
| 1.4             | 64QAM  | 1  | 3  | 18.70  | 18.66  | 18.68  |                     |
| 1.4             | 64QAM  | 1  | 5  | 18.73  | 18.79  | 18.79  |                     |
| 1.4             | 64QAM  | 3  | 0  | 19.10  | 18.97  | 19.08  |                     |
| 1.4             | 64QAM  | 3  | 1  | 18.93  | 19.07  | 19.06  |                     |
| 1.4             | 64QAM  | 3  | 3  | 18.94  | 18.92  | 18.94  |                     |
| 1.4             | 64QAM  | 6  | 0  | 19.04  | 19.06  | 19.01  | 19.4                |
| 1.4             | 256QAM | 1  | 0  | 19.04  | 18.83  | 18.94  | 19.4                |
| 1.4             | 256QAM | 1  | 3  | 18.66  | 18.76  | 18.82  |                     |
| 1.4             | 256QAM | 1  | 5  | 18.59  | 18.79  | 18.67  |                     |
| 1.4             | 256QAM | 3  | 0  | 18.61  | 18.65  | 18.64  |                     |
| 1.4             | 256QAM | 3  | 1  | 18.53  | 18.45  | 18.67  |                     |
| 1.4             | 256QAM | 3  | 3  | 18.44  | 18.46  | 18.61  |                     |
| 1.4             | 256QAM | 6  | 0  | 18.57  | 18.55  | 18.65  | 19.4                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 20.95                    | 20.94                       | 20.96                     | 21.6                   |
| 20              | QPSK       | 1       | 49        | 20.73                    | 20.81                       | 20.81                     |                        |
| 20              | QPSK       | 1       | 99        | 20.85                    | 20.75                       | 20.76                     |                        |
| 20              | QPSK       | 50      | 0         | 20.94                    | 20.94                       | 20.95                     | 21.6                   |
| 20              | QPSK       | 50      | 24        | 20.90                    | 20.93                       | 20.89                     |                        |
| 20              | QPSK       | 50      | 50        | 20.90                    | 20.78                       | 20.67                     |                        |
| 20              | QPSK       | 100     | 0         | 20.92                    | 20.85                       | 20.93                     |                        |
| 20              | 16QAM      | 1       | 0         | 20.73                    | 20.71                       | 20.83                     | 21.6                   |
| 20              | 16QAM      | 1       | 49        | 20.76                    | 20.51                       | 20.76                     |                        |
| 20              | 16QAM      | 1       | 99        | 20.67                    | 20.56                       | 20.45                     |                        |
| 20              | 16QAM      | 50      | 0         | 20.82                    | 20.82                       | 20.72                     | 21.6                   |
| 20              | 16QAM      | 50      | 24        | 20.71                    | 20.77                       | 20.68                     |                        |
| 20              | 16QAM      | 50      | 50        | 20.74                    | 20.75                       | 20.65                     |                        |
| 20              | 16QAM      | 100     | 0         | 20.74                    | 20.84                       | 20.76                     |                        |
| 20              | 64QAM      | 1       | 0         | 20.83                    | 20.86                       | 20.91                     | 21.6                   |
| 20              | 64QAM      | 1       | 49        | 20.80                    | 20.82                       | 20.88                     |                        |
| 20              | 64QAM      | 1       | 99        | 20.80                    | 20.81                       | 20.74                     |                        |
| 20              | 64QAM      | 50      | 0         | 20.67                    | 20.81                       | 20.75                     | 21.6                   |
| 20              | 64QAM      | 50      | 24        | 20.78                    | 20.61                       | 20.63                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.56                    | 20.69                       | 20.70                     |                        |
| 20              | 64QAM      | 100     | 0         | 20.78                    | 20.67                       | 20.64                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.72                    | 19.76                       | 19.55                     | 20.6                   |
| 20              | 256QAM     | 1       | 49        | 19.57                    | 19.57                       | 19.55                     |                        |
| 20              | 256QAM     | 1       | 99        | 19.49                    | 19.57                       | 19.40                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.47                    | 19.50                       | 19.35                     | 20.6                   |
| 20              | 256QAM     | 50      | 24        | 19.41                    | 19.38                       | 19.45                     |                        |
| 20              | 256QAM     | 50      | 50        | 19.34                    | 19.46                       | 19.38                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.31                    | 19.26                       | 19.25                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 20.86                    | 20.84                       | 20.92                     | 21.6                   |
| 15              | QPSK       | 1       | 37        | 20.89                    | 20.59                       | 20.80                     |                        |
| 15              | QPSK       | 1       | 74        | 20.77                    | 20.62                       | 20.61                     |                        |
| 15              | QPSK       | 36      | 0         | 20.89                    | 20.65                       | 20.90                     | 21.6                   |
| 15              | QPSK       | 36      | 20        | 20.78                    | 20.70                       | 20.66                     |                        |
| 15              | QPSK       | 36      | 39        | 20.61                    | 20.56                       | 20.65                     |                        |
| 15              | QPSK       | 75      | 0         | 20.83                    | 20.73                       | 20.68                     |                        |
| 15              | 16QAM      | 1       | 0         | 20.83                    | 20.59                       | 20.75                     | 21.6                   |
| 15              | 16QAM      | 1       | 37        | 20.68                    | 20.46                       | 20.50                     |                        |
| 15              | 16QAM      | 1       | 74        | 20.42                    | 20.42                       | 20.44                     |                        |
| 15              | 16QAM      | 36      | 0         | 20.83                    | 20.76                       | 20.66                     | 21.6                   |
| 15              | 16QAM      | 36      | 20        | 20.79                    | 20.81                       | 20.64                     |                        |
| 15              | 16QAM      | 36      | 39        | 20.75                    | 20.80                       | 20.71                     |                        |
| 15              | 16QAM      | 75      | 0         | 20.81                    | 20.70                       | 20.62                     |                        |
| 15              | 64QAM      | 1       | 0         | 20.86                    | 20.87                       | 20.85                     | 21.6                   |
| 15              | 64QAM      | 1       | 37        | 20.86                    | 20.66                       | 20.88                     |                        |
| 15              | 64QAM      | 1       | 74        | 20.84                    | 20.79                       | 20.73                     |                        |
| 15              | 64QAM      | 36      | 0         | 20.71                    | 20.68                       | 20.52                     | 21.6                   |
| 15              | 64QAM      | 36      | 20        | 20.52                    | 20.45                       | 20.59                     |                        |
| 15              | 64QAM      | 36      | 39        | 20.58                    | 20.41                       | 20.53                     |                        |
| 15              | 64QAM      | 75      | 0         | 20.56                    | 20.46                       | 20.53                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.65                    | 19.66                       | 19.49                     | 20.6                   |
| 15              | 256QAM     | 1       | 37        | 19.62                    | 19.27                       | 19.45                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.39                    | 19.42                       | 19.18                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.50                    | 19.27                       | 19.18                     | 20.6                   |
| 15              | 256QAM     | 36      | 20        | 19.38                    | 19.29                       | 19.35                     |                        |



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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 19.11  | 19.33  | 19.19  | Tune-up limit (dBm) |
| 15              | 256QAM | 75 | 0  | 19.28  | 19.33  | 19.17  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 20.95  | 20.90  | 20.72  | 21.6                |
| 10              | QPSK   | 1  | 25 | 20.65  | 20.63  | 20.77  |                     |
| 10              | QPSK   | 1  | 49 | 20.54  | 20.64  | 20.44  |                     |
| 10              | QPSK   | 25 | 0  | 20.89  | 20.85  | 20.82  | 21.6                |
| 10              | QPSK   | 25 | 12 | 20.75  | 20.64  | 20.84  |                     |
| 10              | QPSK   | 25 | 25 | 20.72  | 20.62  | 20.68  |                     |
| 10              | QPSK   | 50 | 0  | 20.81  | 20.61  | 20.73  |                     |
| 10              | 16QAM  | 1  | 0  | 20.76  | 20.62  | 20.51  | 21.6                |
| 10              | 16QAM  | 1  | 25 | 20.57  | 20.46  | 20.41  |                     |
| 10              | 16QAM  | 1  | 49 | 20.67  | 20.48  | 20.55  |                     |
| 10              | 16QAM  | 25 | 0  | 20.63  | 20.79  | 20.74  | 21.6                |
| 10              | 16QAM  | 25 | 12 | 20.62  | 20.65  | 20.69  |                     |
| 10              | 16QAM  | 25 | 25 | 20.75  | 20.63  | 20.49  |                     |
| 10              | 16QAM  | 50 | 0  | 20.69  | 20.70  | 20.72  |                     |
| 10              | 64QAM  | 1  | 0  | 20.84  | 20.85  | 20.87  | 21.6                |
| 10              | 64QAM  | 1  | 25 | 20.93  | 20.86  | 20.72  |                     |
| 10              | 64QAM  | 1  | 49 | 20.96  | 20.83  | 20.62  |                     |
| 10              | 64QAM  | 25 | 0  | 20.70  | 20.54  | 20.61  | 21.6                |
| 10              | 64QAM  | 25 | 12 | 20.62  | 20.75  | 20.55  |                     |
| 10              | 64QAM  | 25 | 25 | 20.59  | 20.49  | 20.49  |                     |
| 10              | 64QAM  | 50 | 0  | 20.65  | 20.45  | 20.59  |                     |
| 10              | 256QAM | 1  | 0  | 19.68  | 19.53  | 19.37  | 20.6                |
| 10              | 256QAM | 1  | 25 | 19.48  | 19.35  | 19.30  |                     |
| 10              | 256QAM | 1  | 49 | 19.42  | 19.58  | 19.15  |                     |
| 10              | 256QAM | 25 | 0  | 19.38  | 19.31  | 19.37  | 20.6                |
| 10              | 256QAM | 25 | 12 | 19.26  | 19.28  | 19.22  |                     |
| 10              | 256QAM | 25 | 25 | 19.29  | 19.30  | 19.18  |                     |
| 10              | 256QAM | 50 | 0  | 19.32  | 19.15  | 19.11  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 20.93  | 20.91  | 20.71  | 21.6                |
| 5               | QPSK   | 1  | 12 | 20.58  | 20.73  | 20.66  |                     |
| 5               | QPSK   | 1  | 24 | 20.73  | 20.71  | 20.61  |                     |
| 5               | QPSK   | 12 | 0  | 20.80  | 20.72  | 20.85  | 21.6                |
| 5               | QPSK   | 12 | 7  | 20.80  | 20.79  | 20.80  |                     |
| 5               | QPSK   | 12 | 13 | 20.73  | 20.72  | 20.58  |                     |
| 5               | QPSK   | 25 | 0  | 20.83  | 20.66  | 20.64  |                     |
| 5               | 16QAM  | 1  | 0  | 20.81  | 20.59  | 20.63  | 21.6                |
| 5               | 16QAM  | 1  | 12 | 20.58  | 20.48  | 20.48  |                     |
| 5               | 16QAM  | 1  | 24 | 20.68  | 20.46  | 20.42  |                     |
| 5               | 16QAM  | 12 | 0  | 20.90  | 20.84  | 20.60  | 21.6                |
| 5               | 16QAM  | 12 | 7  | 20.72  | 20.75  | 20.59  |                     |
| 5               | 16QAM  | 12 | 13 | 20.74  | 20.54  | 20.54  |                     |
| 5               | 16QAM  | 25 | 0  | 20.60  | 20.74  | 20.64  |                     |
| 5               | 64QAM  | 1  | 0  | 20.94  | 20.82  | 20.91  | 21.6                |
| 5               | 64QAM  | 1  | 12 | 20.73  | 20.84  | 20.87  |                     |
| 5               | 64QAM  | 1  | 24 | 20.84  | 20.85  | 20.68  |                     |
| 5               | 64QAM  | 12 | 0  | 20.79  | 20.70  | 20.59  | 21.6                |
| 5               | 64QAM  | 12 | 7  | 20.50  | 20.52  | 20.59  |                     |
| 5               | 64QAM  | 12 | 13 | 20.50  | 20.55  | 20.50  |                     |
| 5               | 64QAM  | 25 | 0  | 20.70  | 20.69  | 20.49  |                     |
| 5               | 256QAM | 1  | 0  | 19.78  | 19.60  | 19.53  | 20.6                |
| 5               | 256QAM | 1  | 12 | 19.40  | 19.36  | 19.22  |                     |
| 5               | 256QAM | 1  | 24 | 19.52  | 19.33  | 19.29  |                     |
| 5               | 256QAM | 12 | 0  | 19.41  | 19.29  | 19.25  | 20.6                |
| 5               | 256QAM | 12 | 7  | 19.31  | 19.36  | 19.23  |                     |
| 5               | 256QAM | 12 | 13 | 19.24  | 19.12  | 19.25  |                     |
| 5               | 256QAM | 25 | 0  | 19.15  | 19.22  | 19.15  |                     |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit       |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 | (dBm)               |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 3               | QPSK   | 1  | 0  | 20.88  | 20.88  | 20.92  | 21.6                |
| 3               | QPSK   | 1  | 8  | 20.63  | 20.88  | 20.56  |                     |
| 3               | QPSK   | 1  | 14 | 20.73  | 20.69  | 20.70  |                     |
| 3               | QPSK   | 8  | 0  | 20.95  | 20.82  | 20.87  | 21.6                |
| 3               | QPSK   | 8  | 4  | 20.76  | 20.59  | 20.75  |                     |
| 3               | QPSK   | 8  | 7  | 20.67  | 20.81  | 20.75  |                     |
| 3               | QPSK   | 15 | 0  | 20.77  | 20.74  | 20.68  | 21.6                |
| 3               | 16QAM  | 1  | 0  | 20.87  | 20.72  | 20.61  |                     |
| 3               | 16QAM  | 1  | 8  | 20.58  | 20.64  | 20.56  |                     |
| 3               | 16QAM  | 1  | 14 | 20.62  | 20.59  | 20.48  | 21.6                |
| 3               | 16QAM  | 8  | 0  | 20.67  | 20.67  | 20.50  |                     |
| 3               | 16QAM  | 8  | 4  | 20.58  | 20.51  | 20.70  |                     |
| 3               | 16QAM  | 8  | 7  | 20.65  | 20.61  | 20.52  | 21.6                |
| 3               | 16QAM  | 15 | 0  | 20.54  | 20.74  | 20.83  |                     |
| 3               | 64QAM  | 1  | 0  | 20.89  | 20.86  | 20.94  |                     |
| 3               | 64QAM  | 1  | 8  | 20.88  | 20.75  | 20.92  | 21.6                |
| 3               | 64QAM  | 1  | 14 | 20.82  | 20.78  | 20.57  |                     |
| 3               | 64QAM  | 8  | 0  | 20.59  | 20.50  | 20.50  |                     |
| 3               | 64QAM  | 8  | 4  | 20.72  | 20.73  | 20.46  | 21.6                |
| 3               | 64QAM  | 8  | 7  | 20.49  | 20.43  | 20.63  |                     |
| 3               | 64QAM  | 15 | 0  | 20.53  | 20.46  | 20.41  |                     |
| 3               | 256QAM | 1  | 0  | 19.65  | 19.58  | 19.46  | 20.6                |
| 3               | 256QAM | 1  | 8  | 19.43  | 19.29  | 19.35  |                     |
| 3               | 256QAM | 1  | 14 | 19.37  | 19.44  | 19.18  |                     |
| 3               | 256QAM | 8  | 0  | 19.27  | 19.23  | 19.35  | 20.6                |
| 3               | 256QAM | 8  | 4  | 19.42  | 19.30  | 19.41  |                     |
| 3               | 256QAM | 8  | 7  | 19.34  | 19.19  | 19.24  |                     |
| 3               | 256QAM | 15 | 0  | 19.34  | 19.22  | 19.16  |                     |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                     |
| 1.4             | QPSK   | 1  | 0  | 20.80  | 20.88  | 20.84  | 21.6                |
| 1.4             | QPSK   | 1  | 3  | 20.81  | 20.53  | 20.62  |                     |
| 1.4             | QPSK   | 1  | 5  | 20.73  | 20.58  | 20.61  |                     |
| 1.4             | QPSK   | 3  | 0  | 20.89  | 20.83  | 20.96  | 21.6                |
| 1.4             | QPSK   | 3  | 1  | 20.66  | 20.84  | 20.59  |                     |
| 1.4             | QPSK   | 3  | 3  | 20.56  | 20.70  | 20.43  |                     |
| 1.4             | QPSK   | 6  | 0  | 20.72  | 20.70  | 20.90  | 21.6                |
| 1.4             | 16QAM  | 1  | 0  | 20.72  | 20.92  | 20.80  | 21.6                |
| 1.4             | 16QAM  | 1  | 3  | 20.72  | 20.74  | 20.79  |                     |
| 1.4             | 16QAM  | 1  | 5  | 20.83  | 20.69  | 20.63  |                     |
| 1.4             | 16QAM  | 3  | 0  | 20.95  | 20.68  | 20.84  | 21.6                |
| 1.4             | 16QAM  | 3  | 1  | 20.63  | 20.77  | 20.69  |                     |
| 1.4             | 16QAM  | 3  | 3  | 20.73  | 20.69  | 20.58  |                     |
| 1.4             | 16QAM  | 6  | 0  | 20.74  | 20.79  | 20.56  | 21.6                |
| 1.4             | 64QAM  | 1  | 0  | 20.72  | 20.51  | 20.70  | 21.6                |
| 1.4             | 64QAM  | 1  | 3  | 20.63  | 20.52  | 20.59  |                     |
| 1.4             | 64QAM  | 1  | 5  | 20.68  | 20.76  | 20.73  |                     |
| 1.4             | 64QAM  | 3  | 0  | 20.81  | 20.91  | 20.92  | 21.6                |
| 1.4             | 64QAM  | 3  | 1  | 20.86  | 20.90  | 20.74  |                     |
| 1.4             | 64QAM  | 3  | 3  | 20.88  | 20.77  | 20.79  |                     |
| 1.4             | 64QAM  | 6  | 0  | 20.64  | 20.47  | 20.57  | 21.6                |
| 1.4             | 256QAM | 1  | 0  | 19.72  | 19.80  | 19.48  | 20.6                |
| 1.4             | 256QAM | 1  | 3  | 19.44  | 19.40  | 19.28  |                     |
| 1.4             | 256QAM | 1  | 5  | 19.61  | 19.40  | 19.15  |                     |
| 1.4             | 256QAM | 3  | 0  | 19.38  | 19.31  | 19.16  | 20.6                |
| 1.4             | 256QAM | 3  | 1  | 19.36  | 19.34  | 19.28  |                     |
| 1.4             | 256QAM | 3  | 3  | 19.12  | 19.25  | 19.40  |                     |
| 1.4             | 256QAM | 6  | 0  | 19.18  | 19.28  | 19.36  | 20.6                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 19.01                    | 19.04                       | 19.05                     | 20                     |
| 20              | QPSK       | 1       | 49        | 18.89                    | 18.91                       | 18.88                     |                        |
| 20              | QPSK       | 1       | 99        | 18.84                    | 18.79                       | 18.78                     |                        |
| 20              | QPSK       | 50      | 0         | 18.93                    | 18.94                       | 18.95                     | 20                     |
| 20              | QPSK       | 50      | 24        | 18.93                    | 18.93                       | 18.88                     |                        |
| 20              | QPSK       | 50      | 50        | 18.89                    | 18.86                       | 18.85                     |                        |
| 20              | QPSK       | 100     | 0         | 18.90                    | 18.92                       | 18.93                     |                        |
| 20              | 16QAM      | 1       | 0         | 18.97                    | 19.03                       | 19.01                     | 20                     |
| 20              | 16QAM      | 1       | 49        | 18.94                    | 18.94                       | 18.88                     |                        |
| 20              | 16QAM      | 1       | 99        | 18.92                    | 18.94                       | 18.81                     |                        |
| 20              | 16QAM      | 50      | 0         | 18.99                    | 18.97                       | 18.96                     | 20                     |
| 20              | 16QAM      | 50      | 24        | 18.94                    | 18.92                       | 18.91                     |                        |
| 20              | 16QAM      | 50      | 50        | 18.87                    | 18.90                       | 18.87                     |                        |
| 20              | 16QAM      | 100     | 0         | 18.92                    | 18.92                       | 18.90                     |                        |
| 20              | 64QAM      | 1       | 0         | 18.96                    | 18.92                       | 18.89                     | 20                     |
| 20              | 64QAM      | 1       | 49        | 18.86                    | 18.86                       | 18.88                     |                        |
| 20              | 64QAM      | 1       | 99        | 18.76                    | 18.76                       | 18.68                     |                        |
| 20              | 64QAM      | 50      | 0         | 19.02                    | 19.01                       | 18.98                     | 20                     |
| 20              | 64QAM      | 50      | 24        | 18.98                    | 18.96                       | 18.93                     |                        |
| 20              | 64QAM      | 50      | 50        | 18.90                    | 18.90                       | 18.87                     |                        |
| 20              | 64QAM      | 100     | 0         | 18.93                    | 18.92                       | 18.90                     |                        |
| 20              | 256QAM     | 1       | 0         | 18.76                    | 18.75                       | 18.86                     | 20                     |
| 20              | 256QAM     | 1       | 49        | 18.67                    | 18.71                       | 18.63                     |                        |
| 20              | 256QAM     | 1       | 99        | 18.69                    | 18.59                       | 18.45                     |                        |
| 20              | 256QAM     | 50      | 0         | 18.56                    | 18.64                       | 18.50                     | 20                     |
| 20              | 256QAM     | 50      | 24        | 18.60                    | 18.53                       | 18.49                     |                        |
| 20              | 256QAM     | 50      | 50        | 18.50                    | 18.46                       | 18.57                     |                        |
| 20              | 256QAM     | 100     | 0         | 18.58                    | 18.45                       | 18.63                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    |                        |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 18.95                    | 18.91                       | 18.87                     | 20                     |
| 15              | QPSK       | 1       | 37        | 18.70                    | 18.79                       | 18.77                     |                        |
| 15              | QPSK       | 1       | 74        | 18.81                    | 18.60                       | 18.73                     |                        |
| 15              | QPSK       | 36      | 0         | 18.85                    | 18.86                       | 18.86                     | 20                     |
| 15              | QPSK       | 36      | 20        | 18.81                    | 18.91                       | 18.87                     |                        |
| 15              | QPSK       | 36      | 39        | 18.78                    | 18.86                       | 18.81                     |                        |
| 15              | QPSK       | 75      | 0         | 18.85                    | 18.74                       | 18.82                     |                        |
| 15              | 16QAM      | 1       | 0         | 18.93                    | 18.95                       | 18.97                     | 20                     |
| 15              | 16QAM      | 1       | 37        | 18.78                    | 18.91                       | 18.80                     |                        |
| 15              | 16QAM      | 1       | 74        | 18.77                    | 18.87                       | 18.78                     |                        |
| 15              | 16QAM      | 36      | 0         | 18.87                    | 18.78                       | 18.76                     | 20                     |
| 15              | 16QAM      | 36      | 20        | 18.88                    | 18.80                       | 18.74                     |                        |
| 15              | 16QAM      | 36      | 39        | 18.82                    | 18.84                       | 18.77                     |                        |
| 15              | 16QAM      | 75      | 0         | 18.83                    | 18.78                       | 18.89                     |                        |
| 15              | 64QAM      | 1       | 0         | 18.90                    | 18.75                       | 18.76                     | 20                     |
| 15              | 64QAM      | 1       | 37        | 18.68                    | 18.82                       | 18.83                     |                        |
| 15              | 64QAM      | 1       | 74        | 18.59                    | 18.69                       | 18.55                     |                        |
| 15              | 64QAM      | 36      | 0         | 18.86                    | 18.95                       | 18.95                     | 20                     |
| 15              | 64QAM      | 36      | 20        | 18.92                    | 18.84                       | 18.92                     |                        |
| 15              | 64QAM      | 36      | 39        | 18.72                    | 18.80                       | 18.75                     |                        |
| 15              | 64QAM      | 75      | 0         | 18.88                    | 18.83                       | 18.76                     |                        |
| 15              | 256QAM     | 1       | 0         | 18.76                    | 18.62                       | 18.82                     | 20                     |
| 15              | 256QAM     | 1       | 37        | 18.49                    | 18.64                       | 18.58                     |                        |
| 15              | 256QAM     | 1       | 74        | 18.49                    | 18.39                       | 18.27                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.55                    | 18.54                       | 18.38                     | 20                     |
| 15              | 256QAM     | 36      | 20        | 18.48                    | 18.50                       | 18.40                     |                        |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 18.33  | 18.44  | 18.39  | Tune-up limit (dBm) |
| 15              | 256QAM | 75 | 0  | 18.41  | 18.44  | 18.54  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 18.81  | 19.01  | 18.93  | 20                  |
| 10              | QPSK   | 1  | 25 | 18.76  | 18.74  | 18.80  |                     |
| 10              | QPSK   | 1  | 49 | 18.67  | 18.61  | 18.58  |                     |
| 10              | QPSK   | 25 | 0  | 18.82  | 18.87  | 18.87  | 20                  |
| 10              | QPSK   | 25 | 12 | 18.92  | 18.88  | 18.86  |                     |
| 10              | QPSK   | 25 | 25 | 18.75  | 18.86  | 18.82  |                     |
| 10              | QPSK   | 50 | 0  | 18.80  | 18.76  | 18.93  |                     |
| 10              | 16QAM  | 1  | 0  | 18.91  | 18.89  | 18.82  | 20                  |
| 10              | 16QAM  | 1  | 25 | 18.92  | 18.92  | 18.76  |                     |
| 10              | 16QAM  | 1  | 49 | 18.75  | 18.82  | 18.81  |                     |
| 10              | 16QAM  | 25 | 0  | 18.81  | 18.89  | 18.80  | 20                  |
| 10              | 16QAM  | 25 | 12 | 18.86  | 18.85  | 18.77  |                     |
| 10              | 16QAM  | 25 | 25 | 18.85  | 18.89  | 18.69  |                     |
| 10              | 16QAM  | 50 | 0  | 18.90  | 18.73  | 18.87  |                     |
| 10              | 64QAM  | 1  | 0  | 18.92  | 18.77  | 18.77  | 20                  |
| 10              | 64QAM  | 1  | 25 | 18.70  | 18.73  | 18.71  |                     |
| 10              | 64QAM  | 1  | 49 | 18.66  | 18.70  | 18.62  |                     |
| 10              | 64QAM  | 25 | 0  | 18.82  | 18.92  | 18.89  | 20                  |
| 10              | 64QAM  | 25 | 12 | 18.89  | 18.82  | 18.84  |                     |
| 10              | 64QAM  | 25 | 25 | 18.82  | 18.83  | 18.68  |                     |
| 10              | 64QAM  | 50 | 0  | 18.75  | 18.85  | 18.78  |                     |
| 10              | 256QAM | 1  | 0  | 18.61  | 18.71  | 18.85  | 20                  |
| 10              | 256QAM | 1  | 25 | 18.64  | 18.53  | 18.61  |                     |
| 10              | 256QAM | 1  | 49 | 18.65  | 18.45  | 18.38  |                     |
| 10              | 256QAM | 25 | 0  | 18.42  | 18.51  | 18.30  | 20                  |
| 10              | 256QAM | 25 | 12 | 18.58  | 18.46  | 18.43  |                     |
| 10              | 256QAM | 25 | 25 | 18.41  | 18.30  | 18.38  |                     |
| 10              | 256QAM | 50 | 0  | 18.54  | 18.45  | 18.51  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 19.00  | 18.85  | 19.02  | 20                  |
| 5               | QPSK   | 1  | 12 | 18.76  | 18.83  | 18.86  |                     |
| 5               | QPSK   | 1  | 24 | 18.72  | 18.67  | 18.59  |                     |
| 5               | QPSK   | 12 | 0  | 18.79  | 18.78  | 18.90  | 20                  |
| 5               | QPSK   | 12 | 7  | 18.90  | 18.74  | 18.70  |                     |
| 5               | QPSK   | 12 | 13 | 18.82  | 18.83  | 18.73  |                     |
| 5               | QPSK   | 25 | 0  | 18.82  | 18.74  | 18.89  |                     |
| 5               | 16QAM  | 1  | 0  | 18.91  | 18.98  | 18.97  | 20                  |
| 5               | 16QAM  | 1  | 12 | 18.76  | 18.78  | 18.76  |                     |
| 5               | 16QAM  | 1  | 24 | 18.78  | 18.74  | 18.68  |                     |
| 5               | 16QAM  | 12 | 0  | 18.85  | 18.91  | 18.81  | 20                  |
| 5               | 16QAM  | 12 | 7  | 18.85  | 18.79  | 18.80  |                     |
| 5               | 16QAM  | 12 | 13 | 18.86  | 18.81  | 18.80  |                     |
| 5               | 16QAM  | 25 | 0  | 18.85  | 18.91  | 18.80  |                     |
| 5               | 64QAM  | 1  | 0  | 18.85  | 18.73  | 18.72  | 20                  |
| 5               | 64QAM  | 1  | 12 | 18.71  | 18.68  | 18.70  |                     |
| 5               | 64QAM  | 1  | 24 | 18.73  | 18.65  | 18.55  |                     |
| 5               | 64QAM  | 12 | 0  | 19.02  | 18.89  | 18.80  | 20                  |
| 5               | 64QAM  | 12 | 7  | 18.82  | 18.84  | 18.82  |                     |
| 5               | 64QAM  | 12 | 13 | 18.77  | 18.78  | 18.86  |                     |
| 5               | 64QAM  | 25 | 0  | 18.74  | 18.89  | 18.83  |                     |
| 5               | 256QAM | 1  | 0  | 18.75  | 18.70  | 18.68  | 20                  |
| 5               | 256QAM | 1  | 12 | 18.67  | 18.55  | 18.44  |                     |
| 5               | 256QAM | 1  | 24 | 18.58  | 18.44  | 18.40  |                     |
| 5               | 256QAM | 12 | 0  | 18.47  | 18.60  | 18.44  | 20                  |
| 5               | 256QAM | 12 | 7  | 18.49  | 18.34  | 18.41  |                     |
| 5               | 256QAM | 12 | 13 | 18.38  | 18.45  | 18.48  |                     |
| 5               | 256QAM | 25 | 0  | 18.48  | 18.34  | 18.46  |                     |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit       |



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| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 | (dBm)               |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 3               | QPSK   | 1  | 0  | 18.95  | 19.04  | 19.03  | 20                  |
| 3               | QPSK   | 1  | 8  | 18.70  | 18.85  | 18.80  |                     |
| 3               | QPSK   | 1  | 14 | 18.78  | 18.67  | 18.76  |                     |
| 3               | QPSK   | 8  | 0  | 18.86  | 18.82  | 18.76  | 20                  |
| 3               | QPSK   | 8  | 4  | 18.75  | 18.85  | 18.79  |                     |
| 3               | QPSK   | 8  | 7  | 18.82  | 18.74  | 18.74  |                     |
| 3               | QPSK   | 15 | 0  | 18.71  | 18.87  | 18.84  | 20                  |
| 3               | 16QAM  | 1  | 0  | 18.88  | 19.02  | 18.99  |                     |
| 3               | 16QAM  | 1  | 8  | 18.91  | 18.75  | 18.79  |                     |
| 3               | 16QAM  | 1  | 14 | 18.73  | 18.75  | 18.78  | 20                  |
| 3               | 16QAM  | 8  | 0  | 18.92  | 18.78  | 18.96  |                     |
| 3               | 16QAM  | 8  | 4  | 18.90  | 18.77  | 18.91  |                     |
| 3               | 16QAM  | 8  | 7  | 18.75  | 18.88  | 18.85  | 20                  |
| 3               | 16QAM  | 15 | 0  | 18.87  | 18.84  | 18.70  |                     |
| 3               | 64QAM  | 1  | 0  | 18.77  | 18.81  | 18.83  |                     |
| 3               | 64QAM  | 1  | 8  | 18.71  | 18.86  | 18.83  | 20                  |
| 3               | 64QAM  | 1  | 14 | 18.74  | 18.75  | 18.58  |                     |
| 3               | 64QAM  | 8  | 0  | 18.91  | 18.94  | 18.80  |                     |
| 3               | 64QAM  | 8  | 4  | 18.95  | 18.76  | 18.89  | 20                  |
| 3               | 64QAM  | 8  | 7  | 18.83  | 18.87  | 18.71  |                     |
| 3               | 64QAM  | 15 | 0  | 18.76  | 18.83  | 18.74  |                     |
| 3               | 256QAM | 1  | 0  | 18.57  | 18.57  | 18.79  | 20                  |
| 3               | 256QAM | 1  | 8  | 18.64  | 18.61  | 18.62  |                     |
| 3               | 256QAM | 1  | 14 | 18.64  | 18.51  | 18.44  |                     |
| 3               | 256QAM | 8  | 0  | 18.37  | 18.57  | 18.47  | 20                  |
| 3               | 256QAM | 8  | 4  | 18.51  | 18.39  | 18.38  |                     |
| 3               | 256QAM | 8  | 7  | 18.37  | 18.41  | 18.53  |                     |
| 3               | 256QAM | 15 | 0  | 18.53  | 18.29  | 18.56  | Tune-up limit (dBm) |
| Channel         |        |    |    | 131979 | 132322 | 132665 |                     |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                     |
| 1.4             | QPSK   | 1  | 0  | 18.89  | 18.89  | 18.91  | 20                  |
| 1.4             | QPSK   | 1  | 3  | 18.85  | 18.81  | 18.76  |                     |
| 1.4             | QPSK   | 1  | 5  | 18.71  | 18.72  | 18.66  |                     |
| 1.4             | QPSK   | 3  | 0  | 18.79  | 18.93  | 18.77  | 20                  |
| 1.4             | QPSK   | 3  | 1  | 18.88  | 18.88  | 18.69  |                     |
| 1.4             | QPSK   | 3  | 3  | 18.80  | 18.74  | 18.82  |                     |
| 1.4             | QPSK   | 6  | 0  | 18.75  | 18.84  | 18.91  | 20                  |
| 1.4             | 16QAM  | 1  | 0  | 18.88  | 18.83  | 18.94  | 20                  |
| 1.4             | 16QAM  | 1  | 3  | 18.76  | 18.74  | 18.74  |                     |
| 1.4             | 16QAM  | 1  | 5  | 18.76  | 18.81  | 18.63  |                     |
| 1.4             | 16QAM  | 3  | 0  | 18.86  | 18.89  | 18.94  | 20                  |
| 1.4             | 16QAM  | 3  | 1  | 18.84  | 18.82  | 18.86  |                     |
| 1.4             | 16QAM  | 3  | 3  | 18.71  | 18.78  | 18.86  |                     |
| 1.4             | 16QAM  | 6  | 0  | 18.77  | 18.83  | 18.87  | 20                  |
| 1.4             | 64QAM  | 1  | 0  | 18.81  | 18.84  | 18.83  | 20                  |
| 1.4             | 64QAM  | 1  | 3  | 18.76  | 18.70  | 18.81  |                     |
| 1.4             | 64QAM  | 1  | 5  | 18.56  | 18.75  | 18.53  |                     |
| 1.4             | 64QAM  | 3  | 0  | 18.96  | 18.99  | 18.83  | 20                  |
| 1.4             | 64QAM  | 3  | 1  | 18.95  | 18.79  | 18.91  |                     |
| 1.4             | 64QAM  | 3  | 3  | 18.73  | 18.72  | 18.84  |                     |
| 1.4             | 64QAM  | 6  | 0  | 18.86  | 18.92  | 18.77  | 20                  |
| 1.4             | 256QAM | 1  | 0  | 18.61  | 18.69  | 18.67  | 20                  |
| 1.4             | 256QAM | 1  | 3  | 18.54  | 18.61  | 18.60  |                     |
| 1.4             | 256QAM | 1  | 5  | 18.64  | 18.41  | 18.39  |                     |
| 1.4             | 256QAM | 3  | 0  | 18.39  | 18.54  | 18.37  | 20                  |
| 1.4             | 256QAM | 3  | 1  | 18.59  | 18.36  | 18.35  |                     |
| 1.4             | 256QAM | 3  | 3  | 18.34  | 18.42  | 18.52  |                     |
| 1.4             | 256QAM | 6  | 0  | 18.48  | 18.40  | 18.45  | 20                  |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 19.11                    | 19.12                       | 19.11                     |                        |
| 20              | QPSK       | 1       | 49        | 19.01                    | 19.00                       | 19.01                     | 20.2                   |
| 20              | QPSK       | 1       | 99        | 18.95                    | 18.92                       | 18.87                     |                        |
| 20              | QPSK       | 50      | 0         | 19.06                    | 19.09                       | 19.06                     |                        |
| 20              | QPSK       | 50      | 24        | 19.01                    | 19.05                       | 18.99                     | 20.2                   |
| 20              | QPSK       | 50      | 50        | 18.95                    | 19.02                       | 18.96                     |                        |
| 20              | QPSK       | 100     | 0         | 19.00                    | 19.03                       | 18.99                     |                        |
| 20              | 16QAM      | 1       | 0         | 19.10                    | 19.07                       | 19.10                     | 20.2                   |
| 20              | 16QAM      | 1       | 49        | 18.88                    | 18.91                       | 18.87                     |                        |
| 20              | 16QAM      | 1       | 99        | 18.92                    | 18.91                       | 18.84                     |                        |
| 20              | 16QAM      | 50      | 0         | 18.67                    | 18.66                       | 18.65                     | 20.2                   |
| 20              | 16QAM      | 50      | 24        | 18.61                    | 18.63                       | 18.59                     |                        |
| 20              | 16QAM      | 50      | 50        | 18.56                    | 18.57                       | 18.57                     |                        |
| 20              | 16QAM      | 100     | 0         | 18.66                    | 18.63                       | 18.61                     | 20.2                   |
| 20              | 64QAM      | 1       | 0         | 18.88                    | 18.88                       | 18.93                     |                        |
| 20              | 64QAM      | 1       | 49        | 18.83                    | 18.88                       | 18.88                     |                        |
| 20              | 64QAM      | 1       | 99        | 18.84                    | 18.75                       | 18.77                     | 20.2                   |
| 20              | 64QAM      | 50      | 0         | 18.65                    | 18.68                       | 18.65                     |                        |
| 20              | 64QAM      | 50      | 24        | 18.61                    | 18.62                       | 18.63                     |                        |
| 20              | 64QAM      | 50      | 50        | 18.55                    | 18.57                       | 18.57                     | 20.2                   |
| 20              | 64QAM      | 100     | 0         | 18.64                    | 18.64                       | 18.61                     |                        |
| 20              | 256QAM     | 1       | 0         | 18.96                    | 18.99                       | 18.82                     |                        |
| 20              | 256QAM     | 1       | 49        | 18.81                    | 18.80                       | 18.94                     | 20.2                   |
| 20              | 256QAM     | 1       | 99        | 18.76                    | 18.76                       | 18.76                     |                        |
| 20              | 256QAM     | 50      | 0         | 18.73                    | 18.64                       | 18.57                     |                        |
| 20              | 256QAM     | 50      | 24        | 18.66                    | 18.77                       | 18.61                     | 20.2                   |
| 20              | 256QAM     | 50      | 50        | 18.46                    | 18.67                       | 18.62                     |                        |
| 20              | 256QAM     | 100     | 0         | 18.52                    | 18.75                       | 18.73                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    |                        |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 19.09                    | 18.92                       | 18.98                     |                        |
| 15              | QPSK       | 1       | 37        | 18.83                    | 18.84                       | 19.01                     | 20.2                   |
| 15              | QPSK       | 1       | 74        | 18.82                    | 18.75                       | 18.82                     |                        |
| 15              | QPSK       | 36      | 0         | 18.96                    | 18.94                       | 19.02                     |                        |
| 15              | QPSK       | 36      | 20        | 18.81                    | 18.99                       | 18.81                     | 20.2                   |
| 15              | QPSK       | 36      | 39        | 18.90                    | 18.95                       | 18.88                     |                        |
| 15              | QPSK       | 75      | 0         | 18.99                    | 18.93                       | 18.90                     |                        |
| 15              | 16QAM      | 1       | 0         | 18.98                    | 18.98                       | 19.04                     | 20.2                   |
| 15              | 16QAM      | 1       | 37        | 18.88                    | 18.86                       | 18.74                     |                        |
| 15              | 16QAM      | 1       | 74        | 18.89                    | 18.84                       | 18.65                     |                        |
| 15              | 16QAM      | 36      | 0         | 18.67                    | 18.52                       | 18.49                     | 20.2                   |
| 15              | 16QAM      | 36      | 20        | 18.48                    | 18.54                       | 18.41                     |                        |
| 15              | 16QAM      | 36      | 39        | 18.47                    | 18.40                       | 18.57                     |                        |
| 15              | 16QAM      | 75      | 0         | 18.65                    | 18.47                       | 18.52                     | 20.2                   |
| 15              | 64QAM      | 1       | 0         | 18.77                    | 18.88                       | 18.79                     |                        |
| 15              | 64QAM      | 1       | 37        | 18.68                    | 18.80                       | 18.86                     |                        |
| 15              | 64QAM      | 1       | 74        | 18.77                    | 18.71                       | 18.63                     | 20.2                   |
| 15              | 64QAM      | 36      | 0         | 18.54                    | 18.60                       | 18.64                     |                        |
| 15              | 64QAM      | 36      | 20        | 18.43                    | 18.58                       | 18.62                     |                        |
| 15              | 64QAM      | 36      | 39        | 18.49                    | 18.42                       | 18.57                     | 20.2                   |
| 15              | 64QAM      | 75      | 0         | 18.63                    | 18.50                       | 18.44                     |                        |
| 15              | 256QAM     | 1       | 0         | 18.78                    | 18.81                       | 18.80                     |                        |
| 15              | 256QAM     | 1       | 37        | 18.79                    | 18.81                       | 18.88                     | 20.2                   |
| 15              | 256QAM     | 1       | 74        | 18.69                    | 18.65                       | 18.65                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.58                    | 18.60                       | 18.52                     |                        |
| 15              | 256QAM     | 36      | 20        | 18.62                    | 18.65                       | 18.49                     | 20.2                   |



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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 18.39  | 18.63  | 18.54  | Tune-up limit (dBm) |
| 15              | 256QAM | 75 | 0  | 18.43  | 18.62  | 18.52  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 19.06  | 18.98  | 19.01  | 20.2                |
| 10              | QPSK   | 1  | 25 | 18.84  | 18.82  | 18.84  |                     |
| 10              | QPSK   | 1  | 49 | 18.79  | 18.79  | 18.70  |                     |
| 10              | QPSK   | 25 | 0  | 18.98  | 19.04  | 19.04  | 20.2                |
| 10              | QPSK   | 25 | 12 | 18.91  | 18.97  | 18.82  |                     |
| 10              | QPSK   | 25 | 25 | 18.91  | 18.82  | 18.94  |                     |
| 10              | QPSK   | 50 | 0  | 18.88  | 18.88  | 18.93  |                     |
| 10              | 16QAM  | 1  | 0  | 18.99  | 18.92  | 19.04  | 20.2                |
| 10              | 16QAM  | 1  | 25 | 18.80  | 18.91  | 18.73  |                     |
| 10              | 16QAM  | 1  | 49 | 18.82  | 18.84  | 18.78  |                     |
| 10              | 16QAM  | 25 | 0  | 18.55  | 18.59  | 18.62  | 20.2                |
| 10              | 16QAM  | 25 | 12 | 18.61  | 18.51  | 18.56  |                     |
| 10              | 16QAM  | 25 | 25 | 18.55  | 18.52  | 18.37  |                     |
| 10              | 16QAM  | 50 | 0  | 18.66  | 18.47  | 18.51  |                     |
| 10              | 64QAM  | 1  | 0  | 18.75  | 18.69  | 18.82  | 20.2                |
| 10              | 64QAM  | 1  | 25 | 18.79  | 18.81  | 18.82  |                     |
| 10              | 64QAM  | 1  | 49 | 18.78  | 18.75  | 18.64  |                     |
| 10              | 64QAM  | 25 | 0  | 18.60  | 18.64  | 18.57  | 20.2                |
| 10              | 64QAM  | 25 | 12 | 18.50  | 18.44  | 18.55  |                     |
| 10              | 64QAM  | 25 | 25 | 18.39  | 18.37  | 18.48  |                     |
| 10              | 64QAM  | 50 | 0  | 18.49  | 18.54  | 18.44  |                     |
| 10              | 256QAM | 1  | 0  | 18.82  | 18.82  | 18.62  | 20.2                |
| 10              | 256QAM | 1  | 25 | 18.67  | 18.80  | 18.88  |                     |
| 10              | 256QAM | 1  | 49 | 18.82  | 18.67  | 18.57  |                     |
| 10              | 256QAM | 25 | 0  | 18.63  | 18.39  | 18.54  | 20.2                |
| 10              | 256QAM | 25 | 12 | 18.61  | 18.64  | 18.55  |                     |
| 10              | 256QAM | 25 | 25 | 18.39  | 18.63  | 18.61  |                     |
| 10              | 256QAM | 50 | 0  | 18.27  | 18.52  | 18.70  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 19.07  | 18.97  | 19.05  | 20.2                |
| 5               | QPSK   | 1  | 12 | 18.94  | 18.80  | 18.89  |                     |
| 5               | QPSK   | 1  | 24 | 18.91  | 18.76  | 18.81  |                     |
| 5               | QPSK   | 12 | 0  | 18.86  | 18.99  | 19.05  | 20.2                |
| 5               | QPSK   | 12 | 7  | 18.93  | 19.05  | 18.88  |                     |
| 5               | QPSK   | 12 | 13 | 18.95  | 18.89  | 18.85  |                     |
| 5               | QPSK   | 25 | 0  | 18.92  | 18.94  | 18.80  |                     |
| 5               | 16QAM  | 1  | 0  | 18.96  | 19.06  | 18.95  | 20.2                |
| 5               | 16QAM  | 1  | 12 | 18.73  | 18.81  | 18.76  |                     |
| 5               | 16QAM  | 1  | 24 | 18.87  | 18.71  | 18.84  |                     |
| 5               | 16QAM  | 12 | 0  | 18.48  | 18.65  | 18.48  | 20.2                |
| 5               | 16QAM  | 12 | 7  | 18.51  | 18.59  | 18.46  |                     |
| 5               | 16QAM  | 12 | 13 | 18.43  | 18.44  | 18.51  |                     |
| 5               | 16QAM  | 25 | 0  | 18.53  | 18.49  | 18.53  |                     |
| 5               | 64QAM  | 1  | 0  | 18.71  | 18.69  | 18.85  | 20.2                |
| 5               | 64QAM  | 1  | 12 | 18.83  | 18.78  | 18.72  |                     |
| 5               | 64QAM  | 1  | 24 | 18.84  | 18.69  | 18.76  |                     |
| 5               | 64QAM  | 12 | 0  | 18.54  | 18.65  | 18.50  | 20.2                |
| 5               | 64QAM  | 12 | 7  | 18.42  | 18.45  | 18.51  |                     |
| 5               | 64QAM  | 12 | 13 | 18.44  | 18.57  | 18.48  |                     |
| 5               | 64QAM  | 25 | 0  | 18.47  | 18.45  | 18.50  |                     |
| 5               | 256QAM | 1  | 0  | 18.77  | 18.80  | 18.81  | 20.2                |
| 5               | 256QAM | 1  | 12 | 18.72  | 18.69  | 18.78  |                     |
| 5               | 256QAM | 1  | 24 | 18.55  | 18.55  | 18.68  |                     |
| 5               | 256QAM | 12 | 0  | 18.55  | 18.44  | 18.54  | 20.2                |
| 5               | 256QAM | 12 | 7  | 18.67  | 18.74  | 18.52  |                     |
| 5               | 256QAM | 12 | 13 | 18.24  | 18.65  | 18.39  |                     |
| 5               | 256QAM | 25 | 0  | 18.44  | 18.76  | 18.64  |                     |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit       |



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| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 | (dBm)               |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 3               | QPSK   | 1  | 0  | 19.05  | 19.06  | 18.93  | 20.2                |
| 3               | QPSK   | 1  | 8  | 18.85  | 18.85  | 18.90  |                     |
| 3               | QPSK   | 1  | 14 | 18.89  | 18.81  | 18.75  |                     |
| 3               | QPSK   | 8  | 0  | 19.06  | 18.96  | 19.02  | 20.2                |
| 3               | QPSK   | 8  | 4  | 18.89  | 19.03  | 18.91  |                     |
| 3               | QPSK   | 8  | 7  | 18.94  | 18.82  | 18.96  |                     |
| 3               | QPSK   | 15 | 0  | 18.98  | 18.91  | 18.97  |                     |
| 3               | 16QAM  | 1  | 0  | 19.10  | 19.04  | 19.02  | 20.2                |
| 3               | 16QAM  | 1  | 8  | 18.72  | 18.78  | 18.87  |                     |
| 3               | 16QAM  | 1  | 14 | 18.91  | 18.88  | 18.68  |                     |
| 3               | 16QAM  | 8  | 0  | 18.62  | 18.59  | 18.60  | 20.2                |
| 3               | 16QAM  | 8  | 4  | 18.48  | 18.47  | 18.54  |                     |
| 3               | 16QAM  | 8  | 7  | 18.51  | 18.39  | 18.57  |                     |
| 3               | 16QAM  | 15 | 0  | 18.47  | 18.60  | 18.41  |                     |
| 3               | 64QAM  | 1  | 0  | 18.80  | 18.88  | 18.87  | 20.2                |
| 3               | 64QAM  | 1  | 8  | 18.71  | 18.78  | 18.70  |                     |
| 3               | 64QAM  | 1  | 14 | 18.72  | 18.68  | 18.63  |                     |
| 3               | 64QAM  | 8  | 0  | 18.46  | 18.52  | 18.49  | 20.2                |
| 3               | 64QAM  | 8  | 4  | 18.60  | 18.58  | 18.51  |                     |
| 3               | 64QAM  | 8  | 7  | 18.35  | 18.54  | 18.41  |                     |
| 3               | 64QAM  | 15 | 0  | 18.61  | 18.48  | 18.41  |                     |
| 3               | 256QAM | 1  | 0  | 18.82  | 18.87  | 18.69  | 20.2                |
| 3               | 256QAM | 1  | 8  | 18.74  | 18.73  | 18.88  |                     |
| 3               | 256QAM | 1  | 14 | 18.74  | 18.64  | 18.70  |                     |
| 3               | 256QAM | 8  | 0  | 18.53  | 18.56  | 18.46  | 20.2                |
| 3               | 256QAM | 8  | 4  | 18.54  | 18.70  | 18.62  |                     |
| 3               | 256QAM | 8  | 7  | 18.40  | 18.68  | 18.47  |                     |
| 3               | 256QAM | 15 | 0  | 18.39  | 18.65  | 18.56  |                     |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                     |
| 1.4             | QPSK   | 1  | 0  | 19.06  | 18.98  | 19.00  | 20.2                |
| 1.4             | QPSK   | 1  | 3  | 19.00  | 18.98  | 18.90  |                     |
| 1.4             | QPSK   | 1  | 5  | 18.94  | 18.75  | 18.86  |                     |
| 1.4             | QPSK   | 3  | 0  | 18.96  | 19.04  | 18.86  |                     |
| 1.4             | QPSK   | 3  | 1  | 18.83  | 18.87  | 18.81  |                     |
| 1.4             | QPSK   | 3  | 3  | 18.75  | 18.83  | 18.77  |                     |
| 1.4             | QPSK   | 6  | 0  | 18.93  | 18.94  | 18.79  | 20.2                |
| 1.4             | 16QAM  | 1  | 0  | 19.02  | 18.99  | 18.90  | 20.2                |
| 1.4             | 16QAM  | 1  | 3  | 18.84  | 18.81  | 18.68  |                     |
| 1.4             | 16QAM  | 1  | 5  | 18.87  | 18.87  | 18.66  |                     |
| 1.4             | 16QAM  | 3  | 0  | 18.54  | 18.63  | 18.58  |                     |
| 1.4             | 16QAM  | 3  | 1  | 18.53  | 18.48  | 18.39  |                     |
| 1.4             | 16QAM  | 3  | 3  | 18.53  | 18.43  | 18.39  | 20.2                |
| 1.4             | 16QAM  | 6  | 0  | 18.64  | 18.50  | 18.59  |                     |
| 1.4             | 64QAM  | 1  | 0  | 18.88  | 18.73  | 18.93  | 20.2                |
| 1.4             | 64QAM  | 1  | 3  | 18.70  | 18.84  | 18.86  |                     |
| 1.4             | 64QAM  | 1  | 5  | 18.76  | 18.75  | 18.77  |                     |
| 1.4             | 64QAM  | 3  | 0  | 18.63  | 18.63  | 18.64  |                     |
| 1.4             | 64QAM  | 3  | 1  | 18.60  | 18.48  | 18.60  |                     |
| 1.4             | 64QAM  | 3  | 3  | 18.41  | 18.38  | 18.56  | 20.2                |
| 1.4             | 64QAM  | 6  | 0  | 18.48  | 18.45  | 18.46  |                     |
| 1.4             | 256QAM | 1  | 0  | 18.93  | 18.88  | 18.72  | 20.2                |
| 1.4             | 256QAM | 1  | 3  | 18.77  | 18.83  | 18.86  |                     |
| 1.4             | 256QAM | 1  | 5  | 18.79  | 18.61  | 18.73  |                     |
| 1.4             | 256QAM | 3  | 0  | 18.55  | 18.58  | 18.43  |                     |
| 1.4             | 256QAM | 3  | 1  | 18.46  | 18.61  | 18.64  |                     |
| 1.4             | 256QAM | 3  | 3  | 18.36  | 18.50  | 18.50  | 20.2                |
| 1.4             | 256QAM | 6  | 0  | 18.34  | 18.55  | 18.58  |                     |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 19.16                    | 19.20                       | 19.17                     | 20.2                   |
| 20              | QPSK       | 1       | 49        | 18.98                    | 19.04                       | 19.02                     |                        |
| 20              | QPSK       | 1       | 99        | 18.98                    | 18.97                       | 18.93                     |                        |
| 20              | QPSK       | 50      | 0         | 19.15                    | 19.16                       | 19.15                     | 20.2                   |
| 20              | QPSK       | 50      | 24        | 19.11                    | 19.12                       | 19.12                     |                        |
| 20              | QPSK       | 50      | 50        | 19.09                    | 19.06                       | 19.05                     |                        |
| 20              | QPSK       | 100     | 0         | 19.12                    | 19.13                       | 19.12                     |                        |
| 20              | 16QAM      | 1       | 0         | 19.10                    | 19.02                       | 19.06                     | 20.2                   |
| 20              | 16QAM      | 1       | 49        | 18.92                    | 18.94                       | 18.85                     |                        |
| 20              | 16QAM      | 1       | 99        | 18.85                    | 18.91                       | 18.89                     |                        |
| 20              | 16QAM      | 50      | 0         | 19.15                    | 19.16                       | 19.16                     | 20.2                   |
| 20              | 16QAM      | 50      | 24        | 19.09                    | 19.13                       | 19.09                     |                        |
| 20              | 16QAM      | 50      | 50        | 19.05                    | 19.08                       | 19.05                     |                        |
| 20              | 16QAM      | 100     | 0         | 19.11                    | 19.13                       | 19.08                     |                        |
| 20              | 64QAM      | 1       | 0         | 19.03                    | 19.00                       | 19.09                     | 20.2                   |
| 20              | 64QAM      | 1       | 49        | 18.85                    | 18.86                       | 18.81                     |                        |
| 20              | 64QAM      | 1       | 99        | 18.77                    | 18.79                       | 18.85                     |                        |
| 20              | 64QAM      | 50      | 0         | 19.19                    | 19.17                       | 19.13                     | 20.2                   |
| 20              | 64QAM      | 50      | 24        | 19.12                    | 19.13                       | 19.10                     |                        |
| 20              | 64QAM      | 50      | 50        | 19.06                    | 19.08                       | 19.03                     |                        |
| 20              | 64QAM      | 100     | 0         | 19.12                    | 19.10                       | 19.10                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.04                    | 18.93                       | 19.10                     | 20.2                   |
| 20              | 256QAM     | 1       | 49        | 18.82                    | 18.89                       | 18.82                     |                        |
| 20              | 256QAM     | 1       | 99        | 18.62                    | 18.94                       | 18.74                     |                        |
| 20              | 256QAM     | 50      | 0         | 18.64                    | 18.72                       | 18.64                     | 20.2                   |
| 20              | 256QAM     | 50      | 24        | 18.62                    | 18.59                       | 18.72                     |                        |
| 20              | 256QAM     | 50      | 50        | 18.59                    | 18.61                       | 18.62                     |                        |
| 20              | 256QAM     | 100     | 0         | 18.66                    | 18.61                       | 18.67                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    |                        |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 18.99                    | 19.12                       | 19.11                     | 20.2                   |
| 15              | QPSK       | 1       | 37        | 18.90                    | 18.85                       | 19.00                     |                        |
| 15              | QPSK       | 1       | 74        | 18.85                    | 18.77                       | 18.92                     |                        |
| 15              | QPSK       | 36      | 0         | 19.15                    | 18.98                       | 19.12                     | 20.2                   |
| 15              | QPSK       | 36      | 20        | 18.99                    | 18.92                       | 18.93                     |                        |
| 15              | QPSK       | 36      | 39        | 19.00                    | 19.05                       | 19.01                     |                        |
| 15              | QPSK       | 75      | 0         | 19.03                    | 19.13                       | 19.06                     |                        |
| 15              | 16QAM      | 1       | 0         | 18.95                    | 19.02                       | 19.05                     | 20.2                   |
| 15              | 16QAM      | 1       | 37        | 18.73                    | 18.84                       | 18.82                     |                        |
| 15              | 16QAM      | 1       | 74        | 18.78                    | 18.81                       | 18.70                     |                        |
| 15              | 16QAM      | 36      | 0         | 19.13                    | 19.08                       | 19.07                     | 20.2                   |
| 15              | 16QAM      | 36      | 20        | 18.92                    | 19.13                       | 18.95                     |                        |
| 15              | 16QAM      | 36      | 39        | 18.92                    | 18.99                       | 18.99                     |                        |
| 15              | 16QAM      | 75      | 0         | 18.91                    | 19.09                       | 19.01                     |                        |
| 15              | 64QAM      | 1       | 0         | 18.98                    | 18.83                       | 18.91                     | 20.2                   |
| 15              | 64QAM      | 1       | 37        | 18.78                    | 18.79                       | 18.67                     |                        |
| 15              | 64QAM      | 1       | 74        | 18.60                    | 18.67                       | 18.67                     |                        |
| 15              | 64QAM      | 36      | 0         | 18.99                    | 19.11                       | 19.04                     | 20.2                   |
| 15              | 64QAM      | 36      | 20        | 19.09                    | 18.97                       | 18.96                     |                        |
| 15              | 64QAM      | 36      | 39        | 18.97                    | 18.93                       | 18.95                     |                        |
| 15              | 64QAM      | 75      | 0         | 18.98                    | 19.01                       | 19.01                     |                        |
| 15              | 256QAM     | 1       | 0         | 18.90                    | 18.78                       | 19.07                     | 20.2                   |
| 15              | 256QAM     | 1       | 37        | 18.67                    | 18.82                       | 18.65                     |                        |
| 15              | 256QAM     | 1       | 74        | 18.54                    | 18.83                       | 18.62                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.57                    | 18.62                       | 18.48                     | 20.2                   |
| 15              | 256QAM     | 36      | 20        | 18.53                    | 18.40                       | 18.65                     |                        |



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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 18.54  | 18.47  | 18.42  | Tune-up limit (dBm) |
| 15              | 256QAM | 75 | 0  | 18.54  | 18.51  | 18.63  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 19.07  | 19.13  | 19.17  | 20.2                |
| 10              | QPSK   | 1  | 25 | 18.86  | 18.95  | 18.94  |                     |
| 10              | QPSK   | 1  | 49 | 18.90  | 18.89  | 18.89  |                     |
| 10              | QPSK   | 25 | 0  | 19.02  | 19.10  | 19.13  | 20.2                |
| 10              | QPSK   | 25 | 12 | 18.92  | 18.93  | 19.11  |                     |
| 10              | QPSK   | 25 | 25 | 19.07  | 19.00  | 18.85  |                     |
| 10              | QPSK   | 50 | 0  | 18.97  | 19.06  | 19.08  |                     |
| 10              | 16QAM  | 1  | 0  | 18.91  | 18.93  | 18.93  | 20.2                |
| 10              | 16QAM  | 1  | 25 | 18.80  | 18.78  | 18.73  |                     |
| 10              | 16QAM  | 1  | 49 | 18.83  | 18.80  | 18.76  |                     |
| 10              | 16QAM  | 25 | 0  | 19.02  | 19.14  | 19.07  | 20.2                |
| 10              | 16QAM  | 25 | 12 | 18.94  | 19.09  | 19.00  |                     |
| 10              | 16QAM  | 25 | 25 | 18.91  | 18.96  | 18.89  |                     |
| 10              | 16QAM  | 50 | 0  | 18.97  | 19.00  | 19.06  |                     |
| 10              | 64QAM  | 1  | 0  | 18.85  | 18.89  | 19.07  | 20.2                |
| 10              | 64QAM  | 1  | 25 | 18.65  | 18.73  | 18.81  |                     |
| 10              | 64QAM  | 1  | 49 | 18.75  | 18.78  | 18.80  |                     |
| 10              | 64QAM  | 25 | 0  | 19.11  | 19.00  | 19.12  | 20.2                |
| 10              | 64QAM  | 25 | 12 | 18.94  | 19.01  | 19.09  |                     |
| 10              | 64QAM  | 25 | 25 | 18.91  | 18.89  | 18.94  |                     |
| 10              | 64QAM  | 50 | 0  | 19.11  | 19.06  | 18.96  |                     |
| 10              | 256QAM | 1  | 0  | 19.03  | 18.92  | 18.93  | 20.2                |
| 10              | 256QAM | 1  | 25 | 18.68  | 18.86  | 18.66  |                     |
| 10              | 256QAM | 1  | 49 | 18.45  | 18.79  | 18.68  |                     |
| 10              | 256QAM | 25 | 0  | 18.50  | 18.58  | 18.46  | 20.2                |
| 10              | 256QAM | 25 | 12 | 18.50  | 18.49  | 18.59  |                     |
| 10              | 256QAM | 25 | 25 | 18.40  | 18.59  | 18.56  |                     |
| 10              | 256QAM | 50 | 0  | 18.54  | 18.59  | 18.48  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 19.09  | 19.09  | 19.12  | 20.2                |
| 5               | QPSK   | 1  | 12 | 18.97  | 18.96  | 18.96  |                     |
| 5               | QPSK   | 1  | 24 | 18.90  | 18.77  | 18.78  |                     |
| 5               | QPSK   | 12 | 0  | 19.11  | 19.06  | 19.10  | 20.2                |
| 5               | QPSK   | 12 | 7  | 18.91  | 18.93  | 18.92  |                     |
| 5               | QPSK   | 12 | 13 | 19.07  | 18.97  | 19.04  |                     |
| 5               | QPSK   | 25 | 0  | 19.04  | 19.04  | 18.94  |                     |
| 5               | 16QAM  | 1  | 0  | 19.07  | 18.83  | 19.04  | 20.2                |
| 5               | 16QAM  | 1  | 12 | 18.77  | 18.92  | 18.68  |                     |
| 5               | 16QAM  | 1  | 24 | 18.79  | 18.82  | 18.77  |                     |
| 5               | 16QAM  | 12 | 0  | 18.95  | 19.12  | 19.16  | 20.2                |
| 5               | 16QAM  | 12 | 7  | 18.94  | 18.93  | 18.93  |                     |
| 5               | 16QAM  | 12 | 13 | 19.01  | 19.00  | 18.90  |                     |
| 5               | 16QAM  | 25 | 0  | 19.11  | 19.00  | 19.02  |                     |
| 5               | 64QAM  | 1  | 0  | 18.92  | 18.81  | 19.02  | 20.2                |
| 5               | 64QAM  | 1  | 12 | 18.67  | 18.71  | 18.80  |                     |
| 5               | 64QAM  | 1  | 24 | 18.69  | 18.76  | 18.74  |                     |
| 5               | 64QAM  | 12 | 0  | 19.12  | 19.17  | 19.09  | 20.2                |
| 5               | 64QAM  | 12 | 7  | 19.11  | 19.06  | 18.91  |                     |
| 5               | 64QAM  | 12 | 13 | 19.04  | 18.92  | 18.91  |                     |
| 5               | 64QAM  | 25 | 0  | 19.11  | 18.93  | 18.95  |                     |
| 5               | 256QAM | 1  | 0  | 18.95  | 18.90  | 19.05  | 20.2                |
| 5               | 256QAM | 1  | 12 | 18.67  | 18.87  | 18.78  |                     |
| 5               | 256QAM | 1  | 24 | 18.45  | 18.89  | 18.69  |                     |
| 5               | 256QAM | 12 | 0  | 18.52  | 18.56  | 18.52  | 20.2                |
| 5               | 256QAM | 12 | 7  | 18.53  | 18.48  | 18.63  |                     |
| 5               | 256QAM | 12 | 13 | 18.41  | 18.44  | 18.59  |                     |
| 5               | 256QAM | 25 | 0  | 18.46  | 18.54  | 18.47  |                     |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit       |



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| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 | (dBm)               |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 3               | QPSK   | 1  | 0  | 19.02  | 19.18  | 19.13  | 20.2                |
| 3               | QPSK   | 1  | 8  | 18.88  | 18.84  | 18.95  |                     |
| 3               | QPSK   | 1  | 14 | 18.85  | 18.84  | 18.85  |                     |
| 3               | QPSK   | 8  | 0  | 19.12  | 19.11  | 19.10  | 20.2                |
| 3               | QPSK   | 8  | 4  | 19.02  | 19.12  | 19.00  |                     |
| 3               | QPSK   | 8  | 7  | 18.95  | 18.99  | 18.94  |                     |
| 3               | QPSK   | 15 | 0  | 19.03  | 19.06  | 19.04  |                     |
| 3               | 16QAM  | 1  | 0  | 19.03  | 18.99  | 18.86  | 20.2                |
| 3               | 16QAM  | 1  | 8  | 18.82  | 18.75  | 18.69  |                     |
| 3               | 16QAM  | 1  | 14 | 18.65  | 18.89  | 18.83  |                     |
| 3               | 16QAM  | 8  | 0  | 18.95  | 19.07  | 19.07  | 20.2                |
| 3               | 16QAM  | 8  | 4  | 18.98  | 18.95  | 18.93  |                     |
| 3               | 16QAM  | 8  | 7  | 18.99  | 18.99  | 19.00  |                     |
| 3               | 16QAM  | 15 | 0  | 18.94  | 19.05  | 18.93  |                     |
| 3               | 64QAM  | 1  | 0  | 19.01  | 18.88  | 18.94  | 20.2                |
| 3               | 64QAM  | 1  | 8  | 18.82  | 18.85  | 18.74  |                     |
| 3               | 64QAM  | 1  | 14 | 18.74  | 18.71  | 18.68  |                     |
| 3               | 64QAM  | 8  | 0  | 19.03  | 19.05  | 19.09  | 20.2                |
| 3               | 64QAM  | 8  | 4  | 19.11  | 18.95  | 18.92  |                     |
| 3               | 64QAM  | 8  | 7  | 19.03  | 19.01  | 19.02  |                     |
| 3               | 64QAM  | 15 | 0  | 19.11  | 19.05  | 18.93  |                     |
| 3               | 256QAM | 1  | 0  | 18.93  | 18.78  | 19.00  | 20.2                |
| 3               | 256QAM | 1  | 8  | 18.73  | 18.80  | 18.82  |                     |
| 3               | 256QAM | 1  | 14 | 18.62  | 18.81  | 18.71  |                     |
| 3               | 256QAM | 8  | 0  | 18.62  | 18.53  | 18.58  | 20.2                |
| 3               | 256QAM | 8  | 4  | 18.48  | 18.45  | 18.55  |                     |
| 3               | 256QAM | 8  | 7  | 18.42  | 18.44  | 18.55  |                     |
| 3               | 256QAM | 15 | 0  | 18.50  | 18.49  | 18.59  |                     |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                     |
| 1.4             | QPSK   | 1  | 0  | 19.10  | 19.01  | 19.12  | 20.2                |
| 1.4             | QPSK   | 1  | 3  | 18.88  | 19.01  | 18.91  |                     |
| 1.4             | QPSK   | 1  | 5  | 18.84  | 18.89  | 18.73  |                     |
| 1.4             | QPSK   | 3  | 0  | 19.12  | 19.16  | 19.11  |                     |
| 1.4             | QPSK   | 3  | 1  | 19.03  | 19.10  | 19.12  |                     |
| 1.4             | QPSK   | 3  | 3  | 18.90  | 18.92  | 18.89  |                     |
| 1.4             | QPSK   | 6  | 0  | 19.10  | 19.00  | 18.94  | 20.2                |
| 1.4             | 16QAM  | 1  | 0  | 18.91  | 18.90  | 18.96  | 20.2                |
| 1.4             | 16QAM  | 1  | 3  | 18.76  | 18.80  | 18.79  |                     |
| 1.4             | 16QAM  | 1  | 5  | 18.65  | 18.90  | 18.80  |                     |
| 1.4             | 16QAM  | 3  | 0  | 18.95  | 19.12  | 19.13  |                     |
| 1.4             | 16QAM  | 3  | 1  | 18.98  | 18.97  | 18.89  |                     |
| 1.4             | 16QAM  | 3  | 3  | 18.97  | 18.95  | 18.90  | 20.2                |
| 1.4             | 16QAM  | 6  | 0  | 19.05  | 19.09  | 18.89  |                     |
| 1.4             | 64QAM  | 1  | 0  | 18.96  | 18.87  | 19.01  | 20.2                |
| 1.4             | 64QAM  | 1  | 3  | 18.70  | 18.66  | 18.68  |                     |
| 1.4             | 64QAM  | 1  | 5  | 18.73  | 18.79  | 18.79  |                     |
| 1.4             | 64QAM  | 3  | 0  | 19.10  | 18.97  | 19.08  |                     |
| 1.4             | 64QAM  | 3  | 1  | 18.93  | 19.07  | 19.06  |                     |
| 1.4             | 64QAM  | 3  | 3  | 18.94  | 18.92  | 18.94  | 20.2                |
| 1.4             | 64QAM  | 6  | 0  | 19.04  | 19.06  | 19.01  |                     |
| 1.4             | 256QAM | 1  | 0  | 19.04  | 18.83  | 18.94  | 20.2                |
| 1.4             | 256QAM | 1  | 3  | 18.66  | 18.76  | 18.82  |                     |
| 1.4             | 256QAM | 1  | 5  | 18.59  | 18.79  | 18.67  |                     |
| 1.4             | 256QAM | 3  | 0  | 18.61  | 18.65  | 18.64  |                     |
| 1.4             | 256QAM | 3  | 1  | 18.53  | 18.45  | 18.67  |                     |
| 1.4             | 256QAM | 3  | 3  | 18.44  | 18.46  | 18.61  | 20.2                |
| 1.4             | 256QAM | 6  | 0  | 18.57  | 18.55  | 18.65  |                     |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 20.95                    | 20.94                       | 20.96                     | 22.4                   |
| 20              | QPSK       | 1       | 49        | 20.73                    | 20.81                       | 20.81                     |                        |
| 20              | QPSK       | 1       | 99        | 20.85                    | 20.75                       | 20.76                     |                        |
| 20              | QPSK       | 50      | 0         | 20.94                    | 20.94                       | 20.95                     | 22.4                   |
| 20              | QPSK       | 50      | 24        | 20.90                    | 20.93                       | 20.89                     |                        |
| 20              | QPSK       | 50      | 50        | 20.90                    | 20.78                       | 20.67                     |                        |
| 20              | QPSK       | 100     | 0         | 20.92                    | 20.85                       | 20.93                     |                        |
| 20              | 16QAM      | 1       | 0         | 20.73                    | 20.71                       | 20.83                     | 22.4                   |
| 20              | 16QAM      | 1       | 49        | 20.76                    | 20.51                       | 20.76                     |                        |
| 20              | 16QAM      | 1       | 99        | 20.67                    | 20.56                       | 20.45                     |                        |
| 20              | 16QAM      | 50      | 0         | 20.82                    | 20.82                       | 20.72                     | 22.4                   |
| 20              | 16QAM      | 50      | 24        | 20.71                    | 20.77                       | 20.68                     |                        |
| 20              | 16QAM      | 50      | 50        | 20.74                    | 20.75                       | 20.65                     |                        |
| 20              | 16QAM      | 100     | 0         | 20.74                    | 20.84                       | 20.76                     |                        |
| 20              | 64QAM      | 1       | 0         | 20.83                    | 20.86                       | 20.91                     | 22.4                   |
| 20              | 64QAM      | 1       | 49        | 20.80                    | 20.82                       | 20.88                     |                        |
| 20              | 64QAM      | 1       | 99        | 20.80                    | 20.81                       | 20.74                     |                        |
| 20              | 64QAM      | 50      | 0         | 20.67                    | 20.81                       | 20.75                     | 22.4                   |
| 20              | 64QAM      | 50      | 24        | 20.78                    | 20.61                       | 20.63                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.56                    | 20.69                       | 20.70                     |                        |
| 20              | 64QAM      | 100     | 0         | 20.78                    | 20.67                       | 20.64                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.72                    | 19.76                       | 19.55                     | 20.6                   |
| 20              | 256QAM     | 1       | 49        | 19.57                    | 19.57                       | 19.55                     |                        |
| 20              | 256QAM     | 1       | 99        | 19.49                    | 19.57                       | 19.40                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.47                    | 19.50                       | 19.35                     | 20.6                   |
| 20              | 256QAM     | 50      | 24        | 19.41                    | 19.38                       | 19.45                     |                        |
| 20              | 256QAM     | 50      | 50        | 19.34                    | 19.46                       | 19.38                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.31                    | 19.26                       | 19.25                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 20.86                    | 20.84                       | 20.92                     | 22.4                   |
| 15              | QPSK       | 1       | 37        | 20.89                    | 20.59                       | 20.80                     |                        |
| 15              | QPSK       | 1       | 74        | 20.77                    | 20.62                       | 20.61                     |                        |
| 15              | QPSK       | 36      | 0         | 20.89                    | 20.65                       | 20.90                     | 22.4                   |
| 15              | QPSK       | 36      | 20        | 20.78                    | 20.70                       | 20.66                     |                        |
| 15              | QPSK       | 36      | 39        | 20.61                    | 20.56                       | 20.65                     |                        |
| 15              | QPSK       | 75      | 0         | 20.83                    | 20.73                       | 20.68                     |                        |
| 15              | 16QAM      | 1       | 0         | 20.83                    | 20.59                       | 20.75                     | 22.4                   |
| 15              | 16QAM      | 1       | 37        | 20.68                    | 20.46                       | 20.50                     |                        |
| 15              | 16QAM      | 1       | 74        | 20.42                    | 20.42                       | 20.44                     |                        |
| 15              | 16QAM      | 36      | 0         | 20.83                    | 20.76                       | 20.66                     | 22.4                   |
| 15              | 16QAM      | 36      | 20        | 20.79                    | 20.81                       | 20.64                     |                        |
| 15              | 16QAM      | 36      | 39        | 20.75                    | 20.80                       | 20.71                     |                        |
| 15              | 16QAM      | 75      | 0         | 20.81                    | 20.70                       | 20.62                     |                        |
| 15              | 64QAM      | 1       | 0         | 20.86                    | 20.87                       | 20.85                     | 22.4                   |
| 15              | 64QAM      | 1       | 37        | 20.86                    | 20.66                       | 20.88                     |                        |
| 15              | 64QAM      | 1       | 74        | 20.84                    | 20.79                       | 20.73                     |                        |
| 15              | 64QAM      | 36      | 0         | 20.71                    | 20.68                       | 20.52                     | 22.4                   |
| 15              | 64QAM      | 36      | 20        | 20.52                    | 20.45                       | 20.59                     |                        |
| 15              | 64QAM      | 36      | 39        | 20.58                    | 20.41                       | 20.53                     |                        |
| 15              | 64QAM      | 75      | 0         | 20.56                    | 20.46                       | 20.53                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.65                    | 19.66                       | 19.49                     | 20.6                   |
| 15              | 256QAM     | 1       | 37        | 19.62                    | 19.27                       | 19.45                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.39                    | 19.42                       | 19.18                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.50                    | 19.27                       | 19.18                     | 20.6                   |
| 15              | 256QAM     | 36      | 20        | 19.38                    | 19.29                       | 19.35                     |                        |



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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 19.11  | 19.33  | 19.19  | Tune-up limit (dBm) |
| 15              | 256QAM | 75 | 0  | 19.28  | 19.33  | 19.17  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 20.95  | 20.90  | 20.72  | 22.4                |
| 10              | QPSK   | 1  | 25 | 20.65  | 20.63  | 20.77  |                     |
| 10              | QPSK   | 1  | 49 | 20.54  | 20.64  | 20.44  |                     |
| 10              | QPSK   | 25 | 0  | 20.89  | 20.85  | 20.82  | 22.4                |
| 10              | QPSK   | 25 | 12 | 20.75  | 20.64  | 20.84  |                     |
| 10              | QPSK   | 25 | 25 | 20.72  | 20.62  | 20.68  |                     |
| 10              | QPSK   | 50 | 0  | 20.81  | 20.61  | 20.73  |                     |
| 10              | 16QAM  | 1  | 0  | 20.76  | 20.62  | 20.51  | 22.4                |
| 10              | 16QAM  | 1  | 25 | 20.57  | 20.46  | 20.41  |                     |
| 10              | 16QAM  | 1  | 49 | 20.67  | 20.48  | 20.55  |                     |
| 10              | 16QAM  | 25 | 0  | 20.63  | 20.79  | 20.74  | 22.4                |
| 10              | 16QAM  | 25 | 12 | 20.62  | 20.65  | 20.69  |                     |
| 10              | 16QAM  | 25 | 25 | 20.75  | 20.63  | 20.49  |                     |
| 10              | 16QAM  | 50 | 0  | 20.69  | 20.70  | 20.72  |                     |
| 10              | 64QAM  | 1  | 0  | 20.84  | 20.85  | 20.87  | 22.4                |
| 10              | 64QAM  | 1  | 25 | 20.93  | 20.86  | 20.72  |                     |
| 10              | 64QAM  | 1  | 49 | 20.96  | 20.83  | 20.62  |                     |
| 10              | 64QAM  | 25 | 0  | 20.70  | 20.54  | 20.61  | 22.4                |
| 10              | 64QAM  | 25 | 12 | 20.62  | 20.75  | 20.55  |                     |
| 10              | 64QAM  | 25 | 25 | 20.59  | 20.49  | 20.49  |                     |
| 10              | 64QAM  | 50 | 0  | 20.65  | 20.45  | 20.59  |                     |
| 10              | 256QAM | 1  | 0  | 19.68  | 19.53  | 19.37  | 20.6                |
| 10              | 256QAM | 1  | 25 | 19.48  | 19.35  | 19.30  |                     |
| 10              | 256QAM | 1  | 49 | 19.42  | 19.58  | 19.15  |                     |
| 10              | 256QAM | 25 | 0  | 19.38  | 19.31  | 19.37  | 20.6                |
| 10              | 256QAM | 25 | 12 | 19.26  | 19.28  | 19.22  |                     |
| 10              | 256QAM | 25 | 25 | 19.29  | 19.30  | 19.18  |                     |
| 10              | 256QAM | 50 | 0  | 19.32  | 19.15  | 19.11  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 20.93  | 20.91  | 20.71  | 22.4                |
| 5               | QPSK   | 1  | 12 | 20.58  | 20.73  | 20.66  |                     |
| 5               | QPSK   | 1  | 24 | 20.73  | 20.71  | 20.61  |                     |
| 5               | QPSK   | 12 | 0  | 20.80  | 20.72  | 20.85  | 22.4                |
| 5               | QPSK   | 12 | 7  | 20.80  | 20.79  | 20.80  |                     |
| 5               | QPSK   | 12 | 13 | 20.73  | 20.72  | 20.58  |                     |
| 5               | QPSK   | 25 | 0  | 20.83  | 20.66  | 20.64  |                     |
| 5               | 16QAM  | 1  | 0  | 20.81  | 20.59  | 20.63  | 22.4                |
| 5               | 16QAM  | 1  | 12 | 20.58  | 20.48  | 20.48  |                     |
| 5               | 16QAM  | 1  | 24 | 20.68  | 20.46  | 20.42  |                     |
| 5               | 16QAM  | 12 | 0  | 20.90  | 20.84  | 20.60  | 22.4                |
| 5               | 16QAM  | 12 | 7  | 20.72  | 20.75  | 20.59  |                     |
| 5               | 16QAM  | 12 | 13 | 20.74  | 20.54  | 20.54  |                     |
| 5               | 16QAM  | 25 | 0  | 20.60  | 20.74  | 20.64  |                     |
| 5               | 64QAM  | 1  | 0  | 20.94  | 20.82  | 20.91  | 22.4                |
| 5               | 64QAM  | 1  | 12 | 20.73  | 20.84  | 20.87  |                     |
| 5               | 64QAM  | 1  | 24 | 20.84  | 20.85  | 20.68  |                     |
| 5               | 64QAM  | 12 | 0  | 20.79  | 20.70  | 20.59  | 22.4                |
| 5               | 64QAM  | 12 | 7  | 20.50  | 20.52  | 20.59  |                     |
| 5               | 64QAM  | 12 | 13 | 20.50  | 20.55  | 20.50  |                     |
| 5               | 64QAM  | 25 | 0  | 20.70  | 20.69  | 20.49  |                     |
| 5               | 256QAM | 1  | 0  | 19.78  | 19.60  | 19.53  | 20.6                |
| 5               | 256QAM | 1  | 12 | 19.40  | 19.36  | 19.22  |                     |
| 5               | 256QAM | 1  | 24 | 19.52  | 19.33  | 19.29  |                     |
| 5               | 256QAM | 12 | 0  | 19.41  | 19.29  | 19.25  | 20.6                |
| 5               | 256QAM | 12 | 7  | 19.31  | 19.36  | 19.23  |                     |
| 5               | 256QAM | 12 | 13 | 19.24  | 19.12  | 19.25  |                     |
| 5               | 256QAM | 25 | 0  | 19.15  | 19.22  | 19.15  |                     |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit       |



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| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 | (dBm)               |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 3               | QPSK   | 1  | 0  | 20.88  | 20.88  | 20.92  | 22.4                |
| 3               | QPSK   | 1  | 8  | 20.63  | 20.88  | 20.56  |                     |
| 3               | QPSK   | 1  | 14 | 20.73  | 20.69  | 20.70  |                     |
| 3               | QPSK   | 8  | 0  | 20.95  | 20.82  | 20.87  | 22.4                |
| 3               | QPSK   | 8  | 4  | 20.76  | 20.59  | 20.75  |                     |
| 3               | QPSK   | 8  | 7  | 20.67  | 20.81  | 20.75  |                     |
| 3               | QPSK   | 15 | 0  | 20.77  | 20.74  | 20.68  | 22.4                |
| 3               | 16QAM  | 1  | 0  | 20.87  | 20.72  | 20.61  |                     |
| 3               | 16QAM  | 1  | 8  | 20.58  | 20.64  | 20.56  |                     |
| 3               | 16QAM  | 1  | 14 | 20.62  | 20.59  | 20.48  | 22.4                |
| 3               | 16QAM  | 8  | 0  | 20.67  | 20.67  | 20.50  |                     |
| 3               | 16QAM  | 8  | 4  | 20.58  | 20.51  | 20.70  |                     |
| 3               | 16QAM  | 8  | 7  | 20.65  | 20.61  | 20.52  | 22.4                |
| 3               | 16QAM  | 15 | 0  | 20.54  | 20.74  | 20.83  |                     |
| 3               | 64QAM  | 1  | 0  | 20.89  | 20.86  | 20.94  |                     |
| 3               | 64QAM  | 1  | 8  | 20.88  | 20.75  | 20.92  | 22.4                |
| 3               | 64QAM  | 1  | 14 | 20.82  | 20.78  | 20.57  |                     |
| 3               | 64QAM  | 8  | 0  | 20.59  | 20.50  | 20.50  |                     |
| 3               | 64QAM  | 8  | 4  | 20.72  | 20.73  | 20.46  | 22.4                |
| 3               | 64QAM  | 8  | 7  | 20.49  | 20.43  | 20.63  |                     |
| 3               | 64QAM  | 15 | 0  | 20.53  | 20.46  | 20.41  |                     |
| 3               | 256QAM | 1  | 0  | 19.65  | 19.58  | 19.46  | 20.6                |
| 3               | 256QAM | 1  | 8  | 19.43  | 19.29  | 19.35  |                     |
| 3               | 256QAM | 1  | 14 | 19.37  | 19.44  | 19.18  |                     |
| 3               | 256QAM | 8  | 0  | 19.27  | 19.23  | 19.35  | 20.6                |
| 3               | 256QAM | 8  | 4  | 19.42  | 19.30  | 19.41  |                     |
| 3               | 256QAM | 8  | 7  | 19.34  | 19.19  | 19.24  |                     |
| 3               | 256QAM | 15 | 0  | 19.34  | 19.22  | 19.16  |                     |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                     |
| 1.4             | QPSK   | 1  | 0  | 20.80  | 20.88  | 20.84  | 22.4                |
| 1.4             | QPSK   | 1  | 3  | 20.81  | 20.53  | 20.62  |                     |
| 1.4             | QPSK   | 1  | 5  | 20.73  | 20.58  | 20.61  |                     |
| 1.4             | QPSK   | 3  | 0  | 20.89  | 20.83  | 20.96  | 22.4                |
| 1.4             | QPSK   | 3  | 1  | 20.66  | 20.84  | 20.59  |                     |
| 1.4             | QPSK   | 3  | 3  | 20.56  | 20.70  | 20.43  |                     |
| 1.4             | QPSK   | 6  | 0  | 20.72  | 20.70  | 20.90  | 22.4                |
| 1.4             | 16QAM  | 1  | 0  | 20.72  | 20.92  | 20.80  | 22.4                |
| 1.4             | 16QAM  | 1  | 3  | 20.72  | 20.74  | 20.79  |                     |
| 1.4             | 16QAM  | 1  | 5  | 20.83  | 20.69  | 20.63  |                     |
| 1.4             | 16QAM  | 3  | 0  | 20.95  | 20.68  | 20.84  | 22.4                |
| 1.4             | 16QAM  | 3  | 1  | 20.63  | 20.77  | 20.69  |                     |
| 1.4             | 16QAM  | 3  | 3  | 20.73  | 20.69  | 20.58  |                     |
| 1.4             | 16QAM  | 6  | 0  | 20.74  | 20.79  | 20.56  | 22.4                |
| 1.4             | 64QAM  | 1  | 0  | 20.72  | 20.51  | 20.70  | 22.4                |
| 1.4             | 64QAM  | 1  | 3  | 20.63  | 20.52  | 20.59  |                     |
| 1.4             | 64QAM  | 1  | 5  | 20.68  | 20.76  | 20.73  |                     |
| 1.4             | 64QAM  | 3  | 0  | 20.81  | 20.91  | 20.92  | 22.4                |
| 1.4             | 64QAM  | 3  | 1  | 20.86  | 20.90  | 20.74  |                     |
| 1.4             | 64QAM  | 3  | 3  | 20.88  | 20.77  | 20.79  |                     |
| 1.4             | 64QAM  | 6  | 0  | 20.64  | 20.47  | 20.57  | 22.4                |
| 1.4             | 256QAM | 1  | 0  | 19.72  | 19.80  | 19.48  | 20.6                |
| 1.4             | 256QAM | 1  | 3  | 19.44  | 19.40  | 19.28  |                     |
| 1.4             | 256QAM | 1  | 5  | 19.61  | 19.40  | 19.15  |                     |
| 1.4             | 256QAM | 3  | 0  | 19.38  | 19.31  | 19.16  | 20.6                |
| 1.4             | 256QAM | 3  | 1  | 19.36  | 19.34  | 19.28  |                     |
| 1.4             | 256QAM | 3  | 3  | 19.12  | 19.25  | 19.40  |                     |
| 1.4             | 256QAM | 6  | 0  | 19.18  | 19.28  | 19.36  | 20.6                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 19.01                    | 19.04                       | 19.05                     | 19.2                   |
| 20              | QPSK       | 1       | 49        | 18.89                    | 18.91                       | 18.88                     |                        |
| 20              | QPSK       | 1       | 99        | 18.84                    | 18.79                       | 18.78                     |                        |
| 20              | QPSK       | 50      | 0         | 18.93                    | 18.94                       | 18.95                     | 19.2                   |
| 20              | QPSK       | 50      | 24        | 18.93                    | 18.93                       | 18.88                     |                        |
| 20              | QPSK       | 50      | 50        | 18.89                    | 18.86                       | 18.85                     |                        |
| 20              | QPSK       | 100     | 0         | 18.90                    | 18.92                       | 18.93                     |                        |
| 20              | 16QAM      | 1       | 0         | 18.97                    | 19.03                       | 19.01                     | 19.2                   |
| 20              | 16QAM      | 1       | 49        | 18.94                    | 18.94                       | 18.88                     |                        |
| 20              | 16QAM      | 1       | 99        | 18.92                    | 18.94                       | 18.81                     |                        |
| 20              | 16QAM      | 50      | 0         | 18.99                    | 18.97                       | 18.96                     | 19.2                   |
| 20              | 16QAM      | 50      | 24        | 18.94                    | 18.92                       | 18.91                     |                        |
| 20              | 16QAM      | 50      | 50        | 18.87                    | 18.90                       | 18.87                     |                        |
| 20              | 16QAM      | 100     | 0         | 18.92                    | 18.92                       | 18.90                     |                        |
| 20              | 64QAM      | 1       | 0         | 18.96                    | 18.92                       | 18.89                     | 19.2                   |
| 20              | 64QAM      | 1       | 49        | 18.86                    | 18.86                       | 18.88                     |                        |
| 20              | 64QAM      | 1       | 99        | 18.76                    | 18.76                       | 18.68                     |                        |
| 20              | 64QAM      | 50      | 0         | 19.02                    | 19.01                       | 18.98                     | 19.2                   |
| 20              | 64QAM      | 50      | 24        | 18.98                    | 18.96                       | 18.93                     |                        |
| 20              | 64QAM      | 50      | 50        | 18.90                    | 18.90                       | 18.87                     |                        |
| 20              | 64QAM      | 100     | 0         | 18.93                    | 18.92                       | 18.90                     |                        |
| 20              | 256QAM     | 1       | 0         | 18.76                    | 18.75                       | 18.86                     | 19.2                   |
| 20              | 256QAM     | 1       | 49        | 18.67                    | 18.71                       | 18.63                     |                        |
| 20              | 256QAM     | 1       | 99        | 18.69                    | 18.59                       | 18.45                     |                        |
| 20              | 256QAM     | 50      | 0         | 18.56                    | 18.64                       | 18.50                     | 19.2                   |
| 20              | 256QAM     | 50      | 24        | 18.60                    | 18.53                       | 18.49                     |                        |
| 20              | 256QAM     | 50      | 50        | 18.50                    | 18.46                       | 18.57                     |                        |
| 20              | 256QAM     | 100     | 0         | 18.58                    | 18.45                       | 18.63                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    |                        |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 18.95                    | 18.91                       | 18.87                     | 19.2                   |
| 15              | QPSK       | 1       | 37        | 18.70                    | 18.79                       | 18.77                     |                        |
| 15              | QPSK       | 1       | 74        | 18.81                    | 18.60                       | 18.73                     |                        |
| 15              | QPSK       | 36      | 0         | 18.85                    | 18.86                       | 18.86                     | 19.2                   |
| 15              | QPSK       | 36      | 20        | 18.81                    | 18.91                       | 18.87                     |                        |
| 15              | QPSK       | 36      | 39        | 18.78                    | 18.86                       | 18.81                     |                        |
| 15              | QPSK       | 75      | 0         | 18.85                    | 18.74                       | 18.82                     |                        |
| 15              | 16QAM      | 1       | 0         | 18.93                    | 18.95                       | 18.97                     | 19.2                   |
| 15              | 16QAM      | 1       | 37        | 18.78                    | 18.91                       | 18.80                     |                        |
| 15              | 16QAM      | 1       | 74        | 18.77                    | 18.87                       | 18.78                     |                        |
| 15              | 16QAM      | 36      | 0         | 18.87                    | 18.78                       | 18.76                     | 19.2                   |
| 15              | 16QAM      | 36      | 20        | 18.88                    | 18.80                       | 18.74                     |                        |
| 15              | 16QAM      | 36      | 39        | 18.82                    | 18.84                       | 18.77                     |                        |
| 15              | 16QAM      | 75      | 0         | 18.83                    | 18.78                       | 18.89                     |                        |
| 15              | 64QAM      | 1       | 0         | 18.90                    | 18.75                       | 18.76                     | 19.2                   |
| 15              | 64QAM      | 1       | 37        | 18.68                    | 18.82                       | 18.83                     |                        |
| 15              | 64QAM      | 1       | 74        | 18.59                    | 18.69                       | 18.55                     |                        |
| 15              | 64QAM      | 36      | 0         | 18.86                    | 18.95                       | 18.95                     | 19.2                   |
| 15              | 64QAM      | 36      | 20        | 18.92                    | 18.84                       | 18.92                     |                        |
| 15              | 64QAM      | 36      | 39        | 18.72                    | 18.80                       | 18.75                     |                        |
| 15              | 64QAM      | 75      | 0         | 18.88                    | 18.83                       | 18.76                     |                        |
| 15              | 256QAM     | 1       | 0         | 18.76                    | 18.62                       | 18.82                     | 19.2                   |
| 15              | 256QAM     | 1       | 37        | 18.49                    | 18.64                       | 18.58                     |                        |
| 15              | 256QAM     | 1       | 74        | 18.49                    | 18.39                       | 18.27                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.55                    | 18.54                       | 18.38                     | 19.2                   |
| 15              | 256QAM     | 36      | 20        | 18.48                    | 18.50                       | 18.40                     |                        |



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|                 |        |    |    |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|------------------------|
| 15              | 256QAM | 36 | 39 | 18.33  | 18.44  | 18.39  |                        |
| 15              | 256QAM | 75 | 0  | 18.41  | 18.44  | 18.54  |                        |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                        |
| 10              | QPSK   | 1  | 0  | 18.81  | 19.01  | 18.93  | 19.2                   |
| 10              | QPSK   | 1  | 25 | 18.76  | 18.74  | 18.80  |                        |
| 10              | QPSK   | 1  | 49 | 18.67  | 18.61  | 18.58  |                        |
| 10              | QPSK   | 25 | 0  | 18.82  | 18.87  | 18.87  | 19.2                   |
| 10              | QPSK   | 25 | 12 | 18.92  | 18.88  | 18.86  |                        |
| 10              | QPSK   | 25 | 25 | 18.75  | 18.86  | 18.82  |                        |
| 10              | QPSK   | 50 | 0  | 18.80  | 18.76  | 18.93  |                        |
| 10              | 16QAM  | 1  | 0  | 18.91  | 18.89  | 18.82  | 19.2                   |
| 10              | 16QAM  | 1  | 25 | 18.92  | 18.92  | 18.76  |                        |
| 10              | 16QAM  | 1  | 49 | 18.75  | 18.82  | 18.81  |                        |
| 10              | 16QAM  | 25 | 0  | 18.81  | 18.89  | 18.80  | 19.2                   |
| 10              | 16QAM  | 25 | 12 | 18.86  | 18.85  | 18.77  |                        |
| 10              | 16QAM  | 25 | 25 | 18.85  | 18.89  | 18.69  |                        |
| 10              | 16QAM  | 50 | 0  | 18.90  | 18.73  | 18.87  |                        |
| 10              | 64QAM  | 1  | 0  | 18.92  | 18.77  | 18.77  | 19.2                   |
| 10              | 64QAM  | 1  | 25 | 18.70  | 18.73  | 18.71  |                        |
| 10              | 64QAM  | 1  | 49 | 18.66  | 18.70  | 18.62  |                        |
| 10              | 64QAM  | 25 | 0  | 18.82  | 18.92  | 18.89  | 19.2                   |
| 10              | 64QAM  | 25 | 12 | 18.89  | 18.82  | 18.84  |                        |
| 10              | 64QAM  | 25 | 25 | 18.82  | 18.83  | 18.68  |                        |
| 10              | 64QAM  | 50 | 0  | 18.75  | 18.85  | 18.78  |                        |
| 10              | 256QAM | 1  | 0  | 18.61  | 18.71  | 18.85  | 19.2                   |
| 10              | 256QAM | 1  | 25 | 18.64  | 18.53  | 18.61  |                        |
| 10              | 256QAM | 1  | 49 | 18.65  | 18.45  | 18.38  |                        |
| 10              | 256QAM | 25 | 0  | 18.42  | 18.51  | 18.30  |                        |
| 10              | 256QAM | 25 | 12 | 18.58  | 18.46  | 18.43  | 19.2                   |
| 10              | 256QAM | 25 | 25 | 18.41  | 18.30  | 18.38  |                        |
| 10              | 256QAM | 50 | 0  | 18.54  | 18.45  | 18.51  |                        |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                        |
| 5               | QPSK   | 1  | 0  | 19.00  | 18.85  | 19.02  | 19.2                   |
| 5               | QPSK   | 1  | 12 | 18.76  | 18.83  | 18.86  |                        |
| 5               | QPSK   | 1  | 24 | 18.72  | 18.67  | 18.59  |                        |
| 5               | QPSK   | 12 | 0  | 18.79  | 18.78  | 18.90  | 19.2                   |
| 5               | QPSK   | 12 | 7  | 18.90  | 18.74  | 18.70  |                        |
| 5               | QPSK   | 12 | 13 | 18.82  | 18.83  | 18.73  |                        |
| 5               | QPSK   | 25 | 0  | 18.82  | 18.74  | 18.89  |                        |
| 5               | 16QAM  | 1  | 0  | 18.91  | 18.98  | 18.97  | 19.2                   |
| 5               | 16QAM  | 1  | 12 | 18.76  | 18.78  | 18.76  |                        |
| 5               | 16QAM  | 1  | 24 | 18.78  | 18.74  | 18.68  |                        |
| 5               | 16QAM  | 12 | 0  | 18.85  | 18.91  | 18.81  | 19.2                   |
| 5               | 16QAM  | 12 | 7  | 18.85  | 18.79  | 18.80  |                        |
| 5               | 16QAM  | 12 | 13 | 18.86  | 18.81  | 18.80  |                        |
| 5               | 16QAM  | 25 | 0  | 18.85  | 18.91  | 18.80  |                        |
| 5               | 64QAM  | 1  | 0  | 18.85  | 18.73  | 18.72  | 19.2                   |
| 5               | 64QAM  | 1  | 12 | 18.71  | 18.68  | 18.70  |                        |
| 5               | 64QAM  | 1  | 24 | 18.73  | 18.65  | 18.55  |                        |
| 5               | 64QAM  | 12 | 0  | 19.02  | 18.89  | 18.80  | 19.2                   |
| 5               | 64QAM  | 12 | 7  | 18.82  | 18.84  | 18.82  |                        |
| 5               | 64QAM  | 12 | 13 | 18.77  | 18.78  | 18.86  |                        |
| 5               | 64QAM  | 25 | 0  | 18.74  | 18.89  | 18.83  |                        |
| 5               | 256QAM | 1  | 0  | 18.75  | 18.70  | 18.68  | 19.2                   |
| 5               | 256QAM | 1  | 12 | 18.67  | 18.55  | 18.44  |                        |
| 5               | 256QAM | 1  | 24 | 18.58  | 18.44  | 18.40  |                        |
| 5               | 256QAM | 12 | 0  | 18.47  | 18.60  | 18.44  |                        |
| 5               | 256QAM | 12 | 7  | 18.49  | 18.34  | 18.41  | 19.2                   |
| 5               | 256QAM | 12 | 13 | 18.38  | 18.45  | 18.48  |                        |
| 5               | 256QAM | 25 | 0  | 18.48  | 18.34  | 18.46  |                        |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit          |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 | (dBm)               |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 3               | QPSK   | 1  | 0  | 18.95  | 19.04  | 19.03  | 19.2                |
| 3               | QPSK   | 1  | 8  | 18.70  | 18.85  | 18.80  |                     |
| 3               | QPSK   | 1  | 14 | 18.78  | 18.67  | 18.76  |                     |
| 3               | QPSK   | 8  | 0  | 18.86  | 18.82  | 18.76  | 19.2                |
| 3               | QPSK   | 8  | 4  | 18.75  | 18.85  | 18.79  |                     |
| 3               | QPSK   | 8  | 7  | 18.82  | 18.74  | 18.74  |                     |
| 3               | QPSK   | 15 | 0  | 18.71  | 18.87  | 18.84  | 19.2                |
| 3               | 16QAM  | 1  | 0  | 18.88  | 19.02  | 18.99  |                     |
| 3               | 16QAM  | 1  | 8  | 18.91  | 18.75  | 18.79  |                     |
| 3               | 16QAM  | 1  | 14 | 18.73  | 18.75  | 18.78  | 19.2                |
| 3               | 16QAM  | 8  | 0  | 18.92  | 18.78  | 18.96  |                     |
| 3               | 16QAM  | 8  | 4  | 18.90  | 18.77  | 18.91  |                     |
| 3               | 16QAM  | 8  | 7  | 18.75  | 18.88  | 18.85  | 19.2                |
| 3               | 16QAM  | 15 | 0  | 18.87  | 18.84  | 18.70  |                     |
| 3               | 64QAM  | 1  | 0  | 18.77  | 18.81  | 18.83  |                     |
| 3               | 64QAM  | 1  | 8  | 18.71  | 18.86  | 18.83  | 19.2                |
| 3               | 64QAM  | 1  | 14 | 18.74  | 18.75  | 18.58  |                     |
| 3               | 64QAM  | 8  | 0  | 18.91  | 18.94  | 18.80  |                     |
| 3               | 64QAM  | 8  | 4  | 18.95  | 18.76  | 18.89  | 19.2                |
| 3               | 64QAM  | 8  | 7  | 18.83  | 18.87  | 18.71  |                     |
| 3               | 64QAM  | 15 | 0  | 18.76  | 18.83  | 18.74  |                     |
| 3               | 256QAM | 1  | 0  | 18.57  | 18.57  | 18.79  | 19.2                |
| 3               | 256QAM | 1  | 8  | 18.64  | 18.61  | 18.62  |                     |
| 3               | 256QAM | 1  | 14 | 18.64  | 18.51  | 18.44  |                     |
| 3               | 256QAM | 8  | 0  | 18.37  | 18.57  | 18.47  | 19.2                |
| 3               | 256QAM | 8  | 4  | 18.51  | 18.39  | 18.38  |                     |
| 3               | 256QAM | 8  | 7  | 18.37  | 18.41  | 18.53  |                     |
| 3               | 256QAM | 15 | 0  | 18.53  | 18.29  | 18.56  | Tune-up limit (dBm) |
| Channel         |        |    |    | 131979 | 132322 | 132665 |                     |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 | 19.2                |
| 1.4             | QPSK   | 1  | 0  | 18.89  | 18.89  | 18.91  |                     |
| 1.4             | QPSK   | 1  | 3  | 18.85  | 18.81  | 18.76  |                     |
| 1.4             | QPSK   | 1  | 5  | 18.71  | 18.72  | 18.66  | 19.2                |
| 1.4             | QPSK   | 3  | 0  | 18.79  | 18.93  | 18.77  |                     |
| 1.4             | QPSK   | 3  | 1  | 18.88  | 18.88  | 18.69  |                     |
| 1.4             | QPSK   | 3  | 3  | 18.80  | 18.74  | 18.82  | 19.2                |
| 1.4             | QPSK   | 6  | 0  | 18.75  | 18.84  | 18.91  |                     |
| 1.4             | 16QAM  | 1  | 0  | 18.88  | 18.83  | 18.94  |                     |
| 1.4             | 16QAM  | 1  | 3  | 18.76  | 18.74  | 18.74  | 19.2                |
| 1.4             | 16QAM  | 1  | 5  | 18.76  | 18.81  | 18.63  |                     |
| 1.4             | 16QAM  | 3  | 0  | 18.86  | 18.89  | 18.94  |                     |
| 1.4             | 16QAM  | 3  | 1  | 18.84  | 18.82  | 18.86  | 19.2                |
| 1.4             | 16QAM  | 3  | 3  | 18.71  | 18.78  | 18.86  |                     |
| 1.4             | 16QAM  | 6  | 0  | 18.77  | 18.83  | 18.87  |                     |
| 1.4             | 64QAM  | 1  | 0  | 18.81  | 18.84  | 18.83  | 19.2                |
| 1.4             | 64QAM  | 1  | 3  | 18.76  | 18.70  | 18.81  |                     |
| 1.4             | 64QAM  | 1  | 5  | 18.56  | 18.75  | 18.53  |                     |
| 1.4             | 64QAM  | 3  | 0  | 18.96  | 18.99  | 18.83  | 19.2                |
| 1.4             | 64QAM  | 3  | 1  | 18.95  | 18.79  | 18.91  |                     |
| 1.4             | 64QAM  | 3  | 3  | 18.73  | 18.72  | 18.84  |                     |
| 1.4             | 64QAM  | 6  | 0  | 18.86  | 18.92  | 18.77  | 19.2                |
| 1.4             | 256QAM | 1  | 0  | 18.61  | 18.69  | 18.67  |                     |
| 1.4             | 256QAM | 1  | 3  | 18.54  | 18.61  | 18.60  |                     |
| 1.4             | 256QAM | 1  | 5  | 18.64  | 18.41  | 18.39  | 19.2                |
| 1.4             | 256QAM | 3  | 0  | 18.39  | 18.54  | 18.37  |                     |
| 1.4             | 256QAM | 3  | 1  | 18.59  | 18.36  | 18.35  |                     |
| 1.4             | 256QAM | 3  | 3  | 18.34  | 18.42  | 18.52  | 19.2                |
| 1.4             | 256QAM | 6  | 0  | 18.48  | 18.40  | 18.45  |                     |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    | 19.4                   |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 19.11                    | 19.12                       | 19.11                     |                        |
| 20              | QPSK       | 1       | 49        | 19.01                    | 19.00                       | 19.01                     | 19.4                   |
| 20              | QPSK       | 1       | 99        | 18.95                    | 18.92                       | 18.87                     |                        |
| 20              | QPSK       | 50      | 0         | 19.06                    | 19.09                       | 19.06                     |                        |
| 20              | QPSK       | 50      | 24        | 19.01                    | 19.05                       | 18.99                     | 19.4                   |
| 20              | QPSK       | 50      | 50        | 18.95                    | 19.02                       | 18.96                     |                        |
| 20              | QPSK       | 100     | 0         | 19.00                    | 19.03                       | 18.99                     |                        |
| 20              | 16QAM      | 1       | 0         | 19.10                    | 19.07                       | 19.10                     | 19.4                   |
| 20              | 16QAM      | 1       | 49        | 18.88                    | 18.91                       | 18.87                     |                        |
| 20              | 16QAM      | 1       | 99        | 18.92                    | 18.91                       | 18.84                     |                        |
| 20              | 16QAM      | 50      | 0         | 18.67                    | 18.66                       | 18.65                     | 19.4                   |
| 20              | 16QAM      | 50      | 24        | 18.61                    | 18.63                       | 18.59                     |                        |
| 20              | 16QAM      | 50      | 50        | 18.56                    | 18.57                       | 18.57                     |                        |
| 20              | 16QAM      | 100     | 0         | 18.66                    | 18.63                       | 18.61                     | 19.4                   |
| 20              | 64QAM      | 1       | 0         | 18.88                    | 18.88                       | 18.93                     |                        |
| 20              | 64QAM      | 1       | 49        | 18.83                    | 18.88                       | 18.88                     |                        |
| 20              | 64QAM      | 1       | 99        | 18.84                    | 18.75                       | 18.77                     | 19.4                   |
| 20              | 64QAM      | 50      | 0         | 18.65                    | 18.68                       | 18.65                     |                        |
| 20              | 64QAM      | 50      | 24        | 18.61                    | 18.62                       | 18.63                     |                        |
| 20              | 64QAM      | 50      | 50        | 18.55                    | 18.57                       | 18.57                     | 19.4                   |
| 20              | 64QAM      | 100     | 0         | 18.64                    | 18.64                       | 18.61                     |                        |
| 20              | 256QAM     | 1       | 0         | 18.96                    | 18.99                       | 18.82                     |                        |
| 20              | 256QAM     | 1       | 49        | 18.81                    | 18.80                       | 18.94                     | 19.4                   |
| 20              | 256QAM     | 1       | 99        | 18.76                    | 18.76                       | 18.76                     |                        |
| 20              | 256QAM     | 50      | 0         | 18.73                    | 18.64                       | 18.57                     |                        |
| 20              | 256QAM     | 50      | 24        | 18.66                    | 18.77                       | 18.61                     | 19.4                   |
| 20              | 256QAM     | 50      | 50        | 18.46                    | 18.67                       | 18.62                     |                        |
| 20              | 256QAM     | 100     | 0         | 18.52                    | 18.75                       | 18.73                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    | 19.4                   |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 19.09                    | 18.92                       | 18.98                     |                        |
| 15              | QPSK       | 1       | 37        | 18.83                    | 18.84                       | 19.01                     | 19.4                   |
| 15              | QPSK       | 1       | 74        | 18.82                    | 18.75                       | 18.82                     |                        |
| 15              | QPSK       | 36      | 0         | 18.96                    | 18.94                       | 19.02                     |                        |
| 15              | QPSK       | 36      | 20        | 18.81                    | 18.99                       | 18.81                     | 19.4                   |
| 15              | QPSK       | 36      | 39        | 18.90                    | 18.95                       | 18.88                     |                        |
| 15              | QPSK       | 75      | 0         | 18.99                    | 18.93                       | 18.90                     |                        |
| 15              | 16QAM      | 1       | 0         | 18.98                    | 18.98                       | 19.04                     | 19.4                   |
| 15              | 16QAM      | 1       | 37        | 18.88                    | 18.86                       | 18.74                     |                        |
| 15              | 16QAM      | 1       | 74        | 18.89                    | 18.84                       | 18.65                     |                        |
| 15              | 16QAM      | 36      | 0         | 18.67                    | 18.52                       | 18.49                     | 19.4                   |
| 15              | 16QAM      | 36      | 20        | 18.48                    | 18.54                       | 18.41                     |                        |
| 15              | 16QAM      | 36      | 39        | 18.47                    | 18.40                       | 18.57                     |                        |
| 15              | 16QAM      | 75      | 0         | 18.65                    | 18.47                       | 18.52                     | 19.4                   |
| 15              | 64QAM      | 1       | 0         | 18.77                    | 18.88                       | 18.79                     |                        |
| 15              | 64QAM      | 1       | 37        | 18.68                    | 18.80                       | 18.86                     |                        |
| 15              | 64QAM      | 1       | 74        | 18.77                    | 18.71                       | 18.63                     | 19.4                   |
| 15              | 64QAM      | 36      | 0         | 18.54                    | 18.60                       | 18.64                     |                        |
| 15              | 64QAM      | 36      | 20        | 18.43                    | 18.58                       | 18.62                     |                        |
| 15              | 64QAM      | 36      | 39        | 18.49                    | 18.42                       | 18.57                     | 19.4                   |
| 15              | 64QAM      | 75      | 0         | 18.63                    | 18.50                       | 18.44                     |                        |
| 15              | 256QAM     | 1       | 0         | 18.78                    | 18.81                       | 18.80                     |                        |
| 15              | 256QAM     | 1       | 37        | 18.79                    | 18.81                       | 18.88                     | 19.4                   |
| 15              | 256QAM     | 1       | 74        | 18.69                    | 18.65                       | 18.65                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.58                    | 18.60                       | 18.52                     |                        |
| 15              | 256QAM     | 36      | 20        | 18.62                    | 18.65                       | 18.49                     | 19.4                   |



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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 18.39  | 18.63  | 18.54  | Tune-up limit (dBm) |
| 15              | 256QAM | 75 | 0  | 18.43  | 18.62  | 18.52  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 19.06  | 18.98  | 19.01  | 19.4                |
| 10              | QPSK   | 1  | 25 | 18.84  | 18.82  | 18.84  |                     |
| 10              | QPSK   | 1  | 49 | 18.79  | 18.79  | 18.70  |                     |
| 10              | QPSK   | 25 | 0  | 18.98  | 19.04  | 19.04  | 19.4                |
| 10              | QPSK   | 25 | 12 | 18.91  | 18.97  | 18.82  |                     |
| 10              | QPSK   | 25 | 25 | 18.91  | 18.82  | 18.94  |                     |
| 10              | QPSK   | 50 | 0  | 18.88  | 18.88  | 18.93  |                     |
| 10              | 16QAM  | 1  | 0  | 18.99  | 18.92  | 19.04  | 19.4                |
| 10              | 16QAM  | 1  | 25 | 18.80  | 18.91  | 18.73  |                     |
| 10              | 16QAM  | 1  | 49 | 18.82  | 18.84  | 18.78  |                     |
| 10              | 16QAM  | 25 | 0  | 18.55  | 18.59  | 18.62  | 19.4                |
| 10              | 16QAM  | 25 | 12 | 18.61  | 18.51  | 18.56  |                     |
| 10              | 16QAM  | 25 | 25 | 18.55  | 18.52  | 18.37  |                     |
| 10              | 16QAM  | 50 | 0  | 18.66  | 18.47  | 18.51  |                     |
| 10              | 64QAM  | 1  | 0  | 18.75  | 18.69  | 18.82  | 19.4                |
| 10              | 64QAM  | 1  | 25 | 18.79  | 18.81  | 18.82  |                     |
| 10              | 64QAM  | 1  | 49 | 18.78  | 18.75  | 18.64  |                     |
| 10              | 64QAM  | 25 | 0  | 18.60  | 18.64  | 18.57  | 19.4                |
| 10              | 64QAM  | 25 | 12 | 18.50  | 18.44  | 18.55  |                     |
| 10              | 64QAM  | 25 | 25 | 18.39  | 18.37  | 18.48  |                     |
| 10              | 64QAM  | 50 | 0  | 18.49  | 18.54  | 18.44  |                     |
| 10              | 256QAM | 1  | 0  | 18.82  | 18.82  | 18.62  | 19.4                |
| 10              | 256QAM | 1  | 25 | 18.67  | 18.80  | 18.88  |                     |
| 10              | 256QAM | 1  | 49 | 18.82  | 18.67  | 18.57  |                     |
| 10              | 256QAM | 25 | 0  | 18.63  | 18.39  | 18.54  | 19.4                |
| 10              | 256QAM | 25 | 12 | 18.61  | 18.64  | 18.55  |                     |
| 10              | 256QAM | 25 | 25 | 18.39  | 18.63  | 18.61  |                     |
| 10              | 256QAM | 50 | 0  | 18.27  | 18.52  | 18.70  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 19.07  | 18.97  | 19.05  | 19.4                |
| 5               | QPSK   | 1  | 12 | 18.94  | 18.80  | 18.89  |                     |
| 5               | QPSK   | 1  | 24 | 18.91  | 18.76  | 18.81  |                     |
| 5               | QPSK   | 12 | 0  | 18.86  | 18.99  | 19.05  | 19.4                |
| 5               | QPSK   | 12 | 7  | 18.93  | 19.05  | 18.88  |                     |
| 5               | QPSK   | 12 | 13 | 18.95  | 18.89  | 18.85  |                     |
| 5               | QPSK   | 25 | 0  | 18.92  | 18.94  | 18.80  |                     |
| 5               | 16QAM  | 1  | 0  | 18.96  | 19.06  | 18.95  | 19.4                |
| 5               | 16QAM  | 1  | 12 | 18.73  | 18.81  | 18.76  |                     |
| 5               | 16QAM  | 1  | 24 | 18.87  | 18.71  | 18.84  |                     |
| 5               | 16QAM  | 12 | 0  | 18.48  | 18.65  | 18.48  | 19.4                |
| 5               | 16QAM  | 12 | 7  | 18.51  | 18.59  | 18.46  |                     |
| 5               | 16QAM  | 12 | 13 | 18.43  | 18.44  | 18.51  |                     |
| 5               | 16QAM  | 25 | 0  | 18.53  | 18.49  | 18.53  |                     |
| 5               | 64QAM  | 1  | 0  | 18.71  | 18.69  | 18.85  | 19.4                |
| 5               | 64QAM  | 1  | 12 | 18.83  | 18.78  | 18.72  |                     |
| 5               | 64QAM  | 1  | 24 | 18.84  | 18.69  | 18.76  |                     |
| 5               | 64QAM  | 12 | 0  | 18.54  | 18.65  | 18.50  | 19.4                |
| 5               | 64QAM  | 12 | 7  | 18.42  | 18.45  | 18.51  |                     |
| 5               | 64QAM  | 12 | 13 | 18.44  | 18.57  | 18.48  |                     |
| 5               | 64QAM  | 25 | 0  | 18.47  | 18.45  | 18.50  |                     |
| 5               | 256QAM | 1  | 0  | 18.77  | 18.80  | 18.81  | 19.4                |
| 5               | 256QAM | 1  | 12 | 18.72  | 18.69  | 18.78  |                     |
| 5               | 256QAM | 1  | 24 | 18.55  | 18.55  | 18.68  |                     |
| 5               | 256QAM | 12 | 0  | 18.55  | 18.44  | 18.54  | 19.4                |
| 5               | 256QAM | 12 | 7  | 18.67  | 18.74  | 18.52  |                     |
| 5               | 256QAM | 12 | 13 | 18.24  | 18.65  | 18.39  |                     |
| 5               | 256QAM | 25 | 0  | 18.44  | 18.76  | 18.64  |                     |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit       |



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| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 | (dBm)               |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 3               | QPSK   | 1  | 0  | 19.05  | 19.06  | 18.93  | 19.4                |
| 3               | QPSK   | 1  | 8  | 18.85  | 18.85  | 18.90  |                     |
| 3               | QPSK   | 1  | 14 | 18.89  | 18.81  | 18.75  |                     |
| 3               | QPSK   | 8  | 0  | 19.06  | 18.96  | 19.02  | 19.4                |
| 3               | QPSK   | 8  | 4  | 18.89  | 19.03  | 18.91  |                     |
| 3               | QPSK   | 8  | 7  | 18.94  | 18.82  | 18.96  |                     |
| 3               | QPSK   | 15 | 0  | 18.98  | 18.91  | 18.97  |                     |
| 3               | 16QAM  | 1  | 0  | 19.10  | 19.04  | 19.02  | 19.4                |
| 3               | 16QAM  | 1  | 8  | 18.72  | 18.78  | 18.87  |                     |
| 3               | 16QAM  | 1  | 14 | 18.91  | 18.88  | 18.68  |                     |
| 3               | 16QAM  | 8  | 0  | 18.62  | 18.59  | 18.60  | 19.4                |
| 3               | 16QAM  | 8  | 4  | 18.48  | 18.47  | 18.54  |                     |
| 3               | 16QAM  | 8  | 7  | 18.51  | 18.39  | 18.57  |                     |
| 3               | 16QAM  | 15 | 0  | 18.47  | 18.60  | 18.41  |                     |
| 3               | 64QAM  | 1  | 0  | 18.80  | 18.88  | 18.87  | 19.4                |
| 3               | 64QAM  | 1  | 8  | 18.71  | 18.78  | 18.70  |                     |
| 3               | 64QAM  | 1  | 14 | 18.72  | 18.68  | 18.63  |                     |
| 3               | 64QAM  | 8  | 0  | 18.46  | 18.52  | 18.49  | 19.4                |
| 3               | 64QAM  | 8  | 4  | 18.60  | 18.58  | 18.51  |                     |
| 3               | 64QAM  | 8  | 7  | 18.35  | 18.54  | 18.41  |                     |
| 3               | 64QAM  | 15 | 0  | 18.61  | 18.48  | 18.41  |                     |
| 3               | 256QAM | 1  | 0  | 18.82  | 18.87  | 18.69  | 19.4                |
| 3               | 256QAM | 1  | 8  | 18.74  | 18.73  | 18.88  |                     |
| 3               | 256QAM | 1  | 14 | 18.74  | 18.64  | 18.70  |                     |
| 3               | 256QAM | 8  | 0  | 18.53  | 18.56  | 18.46  | 19.4                |
| 3               | 256QAM | 8  | 4  | 18.54  | 18.70  | 18.62  |                     |
| 3               | 256QAM | 8  | 7  | 18.40  | 18.68  | 18.47  |                     |
| 3               | 256QAM | 15 | 0  | 18.39  | 18.65  | 18.56  |                     |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                     |
| 1.4             | QPSK   | 1  | 0  | 19.06  | 18.98  | 19.00  | 19.4                |
| 1.4             | QPSK   | 1  | 3  | 19.00  | 18.98  | 18.90  |                     |
| 1.4             | QPSK   | 1  | 5  | 18.94  | 18.75  | 18.86  |                     |
| 1.4             | QPSK   | 3  | 0  | 18.96  | 19.04  | 18.86  |                     |
| 1.4             | QPSK   | 3  | 1  | 18.83  | 18.87  | 18.81  |                     |
| 1.4             | QPSK   | 3  | 3  | 18.75  | 18.83  | 18.77  |                     |
| 1.4             | QPSK   | 6  | 0  | 18.93  | 18.94  | 18.79  | 19.4                |
| 1.4             | 16QAM  | 1  | 0  | 19.02  | 18.99  | 18.90  | 19.4                |
| 1.4             | 16QAM  | 1  | 3  | 18.84  | 18.81  | 18.68  |                     |
| 1.4             | 16QAM  | 1  | 5  | 18.87  | 18.87  | 18.66  |                     |
| 1.4             | 16QAM  | 3  | 0  | 18.54  | 18.63  | 18.58  |                     |
| 1.4             | 16QAM  | 3  | 1  | 18.53  | 18.48  | 18.39  |                     |
| 1.4             | 16QAM  | 3  | 3  | 18.53  | 18.43  | 18.39  |                     |
| 1.4             | 16QAM  | 6  | 0  | 18.64  | 18.50  | 18.59  | 19.4                |
| 1.4             | 64QAM  | 1  | 0  | 18.88  | 18.73  | 18.93  | 19.4                |
| 1.4             | 64QAM  | 1  | 3  | 18.70  | 18.84  | 18.86  |                     |
| 1.4             | 64QAM  | 1  | 5  | 18.76  | 18.75  | 18.77  |                     |
| 1.4             | 64QAM  | 3  | 0  | 18.63  | 18.63  | 18.64  |                     |
| 1.4             | 64QAM  | 3  | 1  | 18.60  | 18.48  | 18.60  |                     |
| 1.4             | 64QAM  | 3  | 3  | 18.41  | 18.38  | 18.56  |                     |
| 1.4             | 64QAM  | 6  | 0  | 18.48  | 18.45  | 18.46  | 19.4                |
| 1.4             | 256QAM | 1  | 0  | 18.93  | 18.88  | 18.72  | 19.4                |
| 1.4             | 256QAM | 1  | 3  | 18.77  | 18.83  | 18.86  |                     |
| 1.4             | 256QAM | 1  | 5  | 18.79  | 18.61  | 18.73  |                     |
| 1.4             | 256QAM | 3  | 0  | 18.55  | 18.58  | 18.43  |                     |
| 1.4             | 256QAM | 3  | 1  | 18.46  | 18.61  | 18.64  |                     |
| 1.4             | 256QAM | 3  | 3  | 18.36  | 18.50  | 18.50  |                     |
| 1.4             | 256QAM | 6  | 0  | 18.34  | 18.55  | 18.58  | 19.4                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 19.16                    | 19.20                       | 19.17                     | 19.4                   |
| 20              | QPSK       | 1       | 49        | 18.98                    | 19.04                       | 19.02                     |                        |
| 20              | QPSK       | 1       | 99        | 18.98                    | 18.97                       | 18.93                     |                        |
| 20              | QPSK       | 50      | 0         | 19.15                    | 19.16                       | 19.15                     | 19.4                   |
| 20              | QPSK       | 50      | 24        | 19.11                    | 19.12                       | 19.12                     |                        |
| 20              | QPSK       | 50      | 50        | 19.09                    | 19.06                       | 19.05                     |                        |
| 20              | QPSK       | 100     | 0         | 19.12                    | 19.13                       | 19.12                     |                        |
| 20              | 16QAM      | 1       | 0         | 19.10                    | 19.02                       | 19.06                     | 19.4                   |
| 20              | 16QAM      | 1       | 49        | 18.92                    | 18.94                       | 18.85                     |                        |
| 20              | 16QAM      | 1       | 99        | 18.85                    | 18.91                       | 18.89                     |                        |
| 20              | 16QAM      | 50      | 0         | 19.15                    | 19.16                       | 19.16                     | 19.4                   |
| 20              | 16QAM      | 50      | 24        | 19.09                    | 19.13                       | 19.09                     |                        |
| 20              | 16QAM      | 50      | 50        | 19.05                    | 19.08                       | 19.05                     |                        |
| 20              | 16QAM      | 100     | 0         | 19.11                    | 19.13                       | 19.08                     |                        |
| 20              | 64QAM      | 1       | 0         | 19.03                    | 19.00                       | 19.09                     | 19.4                   |
| 20              | 64QAM      | 1       | 49        | 18.85                    | 18.86                       | 18.81                     |                        |
| 20              | 64QAM      | 1       | 99        | 18.77                    | 18.79                       | 18.85                     |                        |
| 20              | 64QAM      | 50      | 0         | 19.19                    | 19.17                       | 19.13                     | 19.4                   |
| 20              | 64QAM      | 50      | 24        | 19.12                    | 19.13                       | 19.10                     |                        |
| 20              | 64QAM      | 50      | 50        | 19.06                    | 19.08                       | 19.03                     |                        |
| 20              | 64QAM      | 100     | 0         | 19.12                    | 19.10                       | 19.10                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.04                    | 18.93                       | 19.10                     | 19.4                   |
| 20              | 256QAM     | 1       | 49        | 18.82                    | 18.89                       | 18.82                     |                        |
| 20              | 256QAM     | 1       | 99        | 18.62                    | 18.94                       | 18.74                     |                        |
| 20              | 256QAM     | 50      | 0         | 18.64                    | 18.72                       | 18.64                     | 19.4                   |
| 20              | 256QAM     | 50      | 24        | 18.62                    | 18.59                       | 18.72                     |                        |
| 20              | 256QAM     | 50      | 50        | 18.59                    | 18.61                       | 18.62                     |                        |
| 20              | 256QAM     | 100     | 0         | 18.66                    | 18.61                       | 18.67                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    |                        |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 18.99                    | 19.12                       | 19.11                     | 19.4                   |
| 15              | QPSK       | 1       | 37        | 18.90                    | 18.85                       | 19.00                     |                        |
| 15              | QPSK       | 1       | 74        | 18.85                    | 18.77                       | 18.92                     |                        |
| 15              | QPSK       | 36      | 0         | 19.15                    | 18.98                       | 19.12                     | 19.4                   |
| 15              | QPSK       | 36      | 20        | 18.99                    | 18.92                       | 18.93                     |                        |
| 15              | QPSK       | 36      | 39        | 19.00                    | 19.05                       | 19.01                     |                        |
| 15              | QPSK       | 75      | 0         | 19.03                    | 19.13                       | 19.06                     |                        |
| 15              | 16QAM      | 1       | 0         | 18.95                    | 19.02                       | 19.05                     | 19.4                   |
| 15              | 16QAM      | 1       | 37        | 18.73                    | 18.84                       | 18.82                     |                        |
| 15              | 16QAM      | 1       | 74        | 18.78                    | 18.81                       | 18.70                     |                        |
| 15              | 16QAM      | 36      | 0         | 19.13                    | 19.08                       | 19.07                     | 19.4                   |
| 15              | 16QAM      | 36      | 20        | 18.92                    | 19.13                       | 18.95                     |                        |
| 15              | 16QAM      | 36      | 39        | 18.92                    | 18.99                       | 18.99                     |                        |
| 15              | 16QAM      | 75      | 0         | 18.91                    | 19.09                       | 19.01                     |                        |
| 15              | 64QAM      | 1       | 0         | 18.98                    | 18.83                       | 18.91                     | 19.4                   |
| 15              | 64QAM      | 1       | 37        | 18.78                    | 18.79                       | 18.67                     |                        |
| 15              | 64QAM      | 1       | 74        | 18.60                    | 18.67                       | 18.67                     |                        |
| 15              | 64QAM      | 36      | 0         | 18.99                    | 19.11                       | 19.04                     | 19.4                   |
| 15              | 64QAM      | 36      | 20        | 19.09                    | 18.97                       | 18.96                     |                        |
| 15              | 64QAM      | 36      | 39        | 18.97                    | 18.93                       | 18.95                     |                        |
| 15              | 64QAM      | 75      | 0         | 18.98                    | 19.01                       | 19.01                     |                        |
| 15              | 256QAM     | 1       | 0         | 18.90                    | 18.78                       | 19.07                     | 19.4                   |
| 15              | 256QAM     | 1       | 37        | 18.67                    | 18.82                       | 18.65                     |                        |
| 15              | 256QAM     | 1       | 74        | 18.54                    | 18.83                       | 18.62                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.57                    | 18.62                       | 18.48                     | 19.4                   |
| 15              | 256QAM     | 36      | 20        | 18.53                    | 18.40                       | 18.65                     |                        |



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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 18.54  | 18.47  | 18.42  | Tune-up limit (dBm) |
| 15              | 256QAM | 75 | 0  | 18.54  | 18.51  | 18.63  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 19.07  | 19.13  | 19.17  | 19.4                |
| 10              | QPSK   | 1  | 25 | 18.86  | 18.95  | 18.94  |                     |
| 10              | QPSK   | 1  | 49 | 18.90  | 18.89  | 18.89  |                     |
| 10              | QPSK   | 25 | 0  | 19.02  | 19.10  | 19.13  | 19.4                |
| 10              | QPSK   | 25 | 12 | 18.92  | 18.93  | 19.11  |                     |
| 10              | QPSK   | 25 | 25 | 19.07  | 19.00  | 18.85  |                     |
| 10              | QPSK   | 50 | 0  | 18.97  | 19.06  | 19.08  |                     |
| 10              | 16QAM  | 1  | 0  | 18.91  | 18.93  | 18.93  | 19.4                |
| 10              | 16QAM  | 1  | 25 | 18.80  | 18.78  | 18.73  |                     |
| 10              | 16QAM  | 1  | 49 | 18.83  | 18.80  | 18.76  |                     |
| 10              | 16QAM  | 25 | 0  | 19.02  | 19.14  | 19.07  | 19.4                |
| 10              | 16QAM  | 25 | 12 | 18.94  | 19.09  | 19.00  |                     |
| 10              | 16QAM  | 25 | 25 | 18.91  | 18.96  | 18.89  |                     |
| 10              | 16QAM  | 50 | 0  | 18.97  | 19.00  | 19.06  |                     |
| 10              | 64QAM  | 1  | 0  | 18.85  | 18.89  | 19.07  | 19.4                |
| 10              | 64QAM  | 1  | 25 | 18.65  | 18.73  | 18.81  |                     |
| 10              | 64QAM  | 1  | 49 | 18.75  | 18.78  | 18.80  |                     |
| 10              | 64QAM  | 25 | 0  | 19.11  | 19.00  | 19.12  | 19.4                |
| 10              | 64QAM  | 25 | 12 | 18.94  | 19.01  | 19.09  |                     |
| 10              | 64QAM  | 25 | 25 | 18.91  | 18.89  | 18.94  |                     |
| 10              | 64QAM  | 50 | 0  | 19.11  | 19.06  | 18.96  |                     |
| 10              | 256QAM | 1  | 0  | 19.03  | 18.92  | 18.93  | 19.4                |
| 10              | 256QAM | 1  | 25 | 18.68  | 18.86  | 18.66  |                     |
| 10              | 256QAM | 1  | 49 | 18.45  | 18.79  | 18.68  |                     |
| 10              | 256QAM | 25 | 0  | 18.50  | 18.58  | 18.46  | 19.4                |
| 10              | 256QAM | 25 | 12 | 18.50  | 18.49  | 18.59  |                     |
| 10              | 256QAM | 25 | 25 | 18.40  | 18.59  | 18.56  |                     |
| 10              | 256QAM | 50 | 0  | 18.54  | 18.59  | 18.48  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 19.09  | 19.09  | 19.12  | 19.4                |
| 5               | QPSK   | 1  | 12 | 18.97  | 18.96  | 18.96  |                     |
| 5               | QPSK   | 1  | 24 | 18.90  | 18.77  | 18.78  |                     |
| 5               | QPSK   | 12 | 0  | 19.11  | 19.06  | 19.10  | 19.4                |
| 5               | QPSK   | 12 | 7  | 18.91  | 18.93  | 18.92  |                     |
| 5               | QPSK   | 12 | 13 | 19.07  | 18.97  | 19.04  |                     |
| 5               | QPSK   | 25 | 0  | 19.04  | 19.04  | 18.94  |                     |
| 5               | 16QAM  | 1  | 0  | 19.07  | 18.83  | 19.04  | 19.4                |
| 5               | 16QAM  | 1  | 12 | 18.77  | 18.92  | 18.68  |                     |
| 5               | 16QAM  | 1  | 24 | 18.79  | 18.82  | 18.77  |                     |
| 5               | 16QAM  | 12 | 0  | 18.95  | 19.12  | 19.16  | 19.4                |
| 5               | 16QAM  | 12 | 7  | 18.94  | 18.93  | 18.93  |                     |
| 5               | 16QAM  | 12 | 13 | 19.01  | 19.00  | 18.90  |                     |
| 5               | 16QAM  | 25 | 0  | 19.11  | 19.00  | 19.02  |                     |
| 5               | 64QAM  | 1  | 0  | 18.92  | 18.81  | 19.02  | 19.4                |
| 5               | 64QAM  | 1  | 12 | 18.67  | 18.71  | 18.80  |                     |
| 5               | 64QAM  | 1  | 24 | 18.69  | 18.76  | 18.74  |                     |
| 5               | 64QAM  | 12 | 0  | 19.12  | 19.17  | 19.09  | 19.4                |
| 5               | 64QAM  | 12 | 7  | 19.11  | 19.06  | 18.91  |                     |
| 5               | 64QAM  | 12 | 13 | 19.04  | 18.92  | 18.91  |                     |
| 5               | 64QAM  | 25 | 0  | 19.11  | 18.93  | 18.95  |                     |
| 5               | 256QAM | 1  | 0  | 18.95  | 18.90  | 19.05  | 19.4                |
| 5               | 256QAM | 1  | 12 | 18.67  | 18.87  | 18.78  |                     |
| 5               | 256QAM | 1  | 24 | 18.45  | 18.89  | 18.69  |                     |
| 5               | 256QAM | 12 | 0  | 18.52  | 18.56  | 18.52  | 19.4                |
| 5               | 256QAM | 12 | 7  | 18.53  | 18.48  | 18.63  |                     |
| 5               | 256QAM | 12 | 13 | 18.41  | 18.44  | 18.59  |                     |
| 5               | 256QAM | 25 | 0  | 18.46  | 18.54  | 18.47  |                     |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit       |



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| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 | (dBm)               |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 3               | QPSK   | 1  | 0  | 19.02  | 19.18  | 19.13  | 19.4                |
| 3               | QPSK   | 1  | 8  | 18.88  | 18.84  | 18.95  |                     |
| 3               | QPSK   | 1  | 14 | 18.85  | 18.84  | 18.85  |                     |
| 3               | QPSK   | 8  | 0  | 19.12  | 19.11  | 19.10  | 19.4                |
| 3               | QPSK   | 8  | 4  | 19.02  | 19.12  | 19.00  |                     |
| 3               | QPSK   | 8  | 7  | 18.95  | 18.99  | 18.94  |                     |
| 3               | QPSK   | 15 | 0  | 19.03  | 19.06  | 19.04  |                     |
| 3               | 16QAM  | 1  | 0  | 19.03  | 18.99  | 18.86  | 19.4                |
| 3               | 16QAM  | 1  | 8  | 18.82  | 18.75  | 18.69  |                     |
| 3               | 16QAM  | 1  | 14 | 18.65  | 18.89  | 18.83  |                     |
| 3               | 16QAM  | 8  | 0  | 18.95  | 19.07  | 19.07  | 19.4                |
| 3               | 16QAM  | 8  | 4  | 18.98  | 18.95  | 18.93  |                     |
| 3               | 16QAM  | 8  | 7  | 18.99  | 18.99  | 19.00  |                     |
| 3               | 16QAM  | 15 | 0  | 18.94  | 19.05  | 18.93  |                     |
| 3               | 64QAM  | 1  | 0  | 19.01  | 18.88  | 18.94  | 19.4                |
| 3               | 64QAM  | 1  | 8  | 18.82  | 18.85  | 18.74  |                     |
| 3               | 64QAM  | 1  | 14 | 18.74  | 18.71  | 18.68  |                     |
| 3               | 64QAM  | 8  | 0  | 19.03  | 19.05  | 19.09  | 19.4                |
| 3               | 64QAM  | 8  | 4  | 19.11  | 18.95  | 18.92  |                     |
| 3               | 64QAM  | 8  | 7  | 19.03  | 19.01  | 19.02  |                     |
| 3               | 64QAM  | 15 | 0  | 19.11  | 19.05  | 18.93  |                     |
| 3               | 256QAM | 1  | 0  | 18.93  | 18.78  | 19.00  | 19.4                |
| 3               | 256QAM | 1  | 8  | 18.73  | 18.80  | 18.82  |                     |
| 3               | 256QAM | 1  | 14 | 18.62  | 18.81  | 18.71  |                     |
| 3               | 256QAM | 8  | 0  | 18.62  | 18.53  | 18.58  | 19.4                |
| 3               | 256QAM | 8  | 4  | 18.48  | 18.45  | 18.55  |                     |
| 3               | 256QAM | 8  | 7  | 18.42  | 18.44  | 18.55  |                     |
| 3               | 256QAM | 15 | 0  | 18.50  | 18.49  | 18.59  |                     |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                     |
| 1.4             | QPSK   | 1  | 0  | 19.10  | 19.01  | 19.12  | 19.4                |
| 1.4             | QPSK   | 1  | 3  | 18.88  | 19.01  | 18.91  |                     |
| 1.4             | QPSK   | 1  | 5  | 18.84  | 18.89  | 18.73  |                     |
| 1.4             | QPSK   | 3  | 0  | 19.12  | 19.16  | 19.11  |                     |
| 1.4             | QPSK   | 3  | 1  | 19.03  | 19.10  | 19.12  |                     |
| 1.4             | QPSK   | 3  | 3  | 18.90  | 18.92  | 18.89  |                     |
| 1.4             | QPSK   | 6  | 0  | 19.10  | 19.00  | 18.94  | 19.4                |
| 1.4             | 16QAM  | 1  | 0  | 18.91  | 18.90  | 18.96  | 19.4                |
| 1.4             | 16QAM  | 1  | 3  | 18.76  | 18.80  | 18.79  |                     |
| 1.4             | 16QAM  | 1  | 5  | 18.65  | 18.90  | 18.80  |                     |
| 1.4             | 16QAM  | 3  | 0  | 18.95  | 19.12  | 19.13  |                     |
| 1.4             | 16QAM  | 3  | 1  | 18.98  | 18.97  | 18.89  |                     |
| 1.4             | 16QAM  | 3  | 3  | 18.97  | 18.95  | 18.90  | 19.4                |
| 1.4             | 16QAM  | 6  | 0  | 19.05  | 19.09  | 18.89  |                     |
| 1.4             | 64QAM  | 1  | 0  | 18.96  | 18.87  | 19.01  | 19.4                |
| 1.4             | 64QAM  | 1  | 3  | 18.70  | 18.66  | 18.68  |                     |
| 1.4             | 64QAM  | 1  | 5  | 18.73  | 18.79  | 18.79  |                     |
| 1.4             | 64QAM  | 3  | 0  | 19.10  | 18.97  | 19.08  |                     |
| 1.4             | 64QAM  | 3  | 1  | 18.93  | 19.07  | 19.06  |                     |
| 1.4             | 64QAM  | 3  | 3  | 18.94  | 18.92  | 18.94  |                     |
| 1.4             | 64QAM  | 6  | 0  | 19.04  | 19.06  | 19.01  | 19.4                |
| 1.4             | 256QAM | 1  | 0  | 19.04  | 18.83  | 18.94  | 19.4                |
| 1.4             | 256QAM | 1  | 3  | 18.66  | 18.76  | 18.82  |                     |
| 1.4             | 256QAM | 1  | 5  | 18.59  | 18.79  | 18.67  |                     |
| 1.4             | 256QAM | 3  | 0  | 18.61  | 18.65  | 18.64  |                     |
| 1.4             | 256QAM | 3  | 1  | 18.53  | 18.45  | 18.67  |                     |
| 1.4             | 256QAM | 3  | 3  | 18.44  | 18.46  | 18.61  | 19.4                |
| 1.4             | 256QAM | 6  | 0  | 18.57  | 18.55  | 18.65  |                     |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                        |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                        |
| 20              | QPSK       | 1       | 0         | 20.95                    | 20.94                       | 20.96                     | 21.6                   |
| 20              | QPSK       | 1       | 49        | 20.73                    | 20.81                       | 20.81                     |                        |
| 20              | QPSK       | 1       | 99        | 20.85                    | 20.75                       | 20.76                     |                        |
| 20              | QPSK       | 50      | 0         | 20.94                    | 20.94                       | 20.95                     | 21.6                   |
| 20              | QPSK       | 50      | 24        | 20.90                    | 20.93                       | 20.89                     |                        |
| 20              | QPSK       | 50      | 50        | 20.90                    | 20.78                       | 20.67                     |                        |
| 20              | QPSK       | 100     | 0         | 20.92                    | 20.85                       | 20.93                     |                        |
| 20              | 16QAM      | 1       | 0         | 20.73                    | 20.71                       | 20.83                     | 21.6                   |
| 20              | 16QAM      | 1       | 49        | 20.76                    | 20.51                       | 20.76                     |                        |
| 20              | 16QAM      | 1       | 99        | 20.67                    | 20.56                       | 20.45                     |                        |
| 20              | 16QAM      | 50      | 0         | 20.82                    | 20.82                       | 20.72                     | 21.6                   |
| 20              | 16QAM      | 50      | 24        | 20.71                    | 20.77                       | 20.68                     |                        |
| 20              | 16QAM      | 50      | 50        | 20.74                    | 20.75                       | 20.65                     |                        |
| 20              | 16QAM      | 100     | 0         | 20.74                    | 20.84                       | 20.76                     |                        |
| 20              | 64QAM      | 1       | 0         | 20.83                    | 20.86                       | 20.91                     | 21.6                   |
| 20              | 64QAM      | 1       | 49        | 20.80                    | 20.82                       | 20.88                     |                        |
| 20              | 64QAM      | 1       | 99        | 20.80                    | 20.81                       | 20.74                     |                        |
| 20              | 64QAM      | 50      | 0         | 20.67                    | 20.81                       | 20.75                     | 21.6                   |
| 20              | 64QAM      | 50      | 24        | 20.78                    | 20.61                       | 20.63                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.56                    | 20.69                       | 20.70                     |                        |
| 20              | 64QAM      | 100     | 0         | 20.78                    | 20.67                       | 20.64                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.72                    | 19.76                       | 19.55                     | 20.6                   |
| 20              | 256QAM     | 1       | 49        | 19.57                    | 19.57                       | 19.55                     |                        |
| 20              | 256QAM     | 1       | 99        | 19.49                    | 19.57                       | 19.40                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.47                    | 19.50                       | 19.35                     | 20.6                   |
| 20              | 256QAM     | 50      | 24        | 19.41                    | 19.38                       | 19.45                     |                        |
| 20              | 256QAM     | 50      | 50        | 19.34                    | 19.46                       | 19.38                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.31                    | 19.26                       | 19.25                     |                        |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    |                        |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                        |
| 15              | QPSK       | 1       | 0         | 20.86                    | 20.84                       | 20.92                     | 21.6                   |
| 15              | QPSK       | 1       | 37        | 20.89                    | 20.59                       | 20.80                     |                        |
| 15              | QPSK       | 1       | 74        | 20.77                    | 20.62                       | 20.61                     |                        |
| 15              | QPSK       | 36      | 0         | 20.89                    | 20.65                       | 20.90                     | 21.6                   |
| 15              | QPSK       | 36      | 20        | 20.78                    | 20.70                       | 20.66                     |                        |
| 15              | QPSK       | 36      | 39        | 20.61                    | 20.56                       | 20.65                     |                        |
| 15              | QPSK       | 75      | 0         | 20.83                    | 20.73                       | 20.68                     |                        |
| 15              | 16QAM      | 1       | 0         | 20.83                    | 20.59                       | 20.75                     | 21.6                   |
| 15              | 16QAM      | 1       | 37        | 20.68                    | 20.46                       | 20.50                     |                        |
| 15              | 16QAM      | 1       | 74        | 20.42                    | 20.42                       | 20.44                     |                        |
| 15              | 16QAM      | 36      | 0         | 20.83                    | 20.76                       | 20.66                     | 21.6                   |
| 15              | 16QAM      | 36      | 20        | 20.79                    | 20.81                       | 20.64                     |                        |
| 15              | 16QAM      | 36      | 39        | 20.75                    | 20.80                       | 20.71                     |                        |
| 15              | 16QAM      | 75      | 0         | 20.81                    | 20.70                       | 20.62                     |                        |
| 15              | 64QAM      | 1       | 0         | 20.86                    | 20.87                       | 20.85                     | 21.6                   |
| 15              | 64QAM      | 1       | 37        | 20.86                    | 20.66                       | 20.88                     |                        |
| 15              | 64QAM      | 1       | 74        | 20.84                    | 20.79                       | 20.73                     |                        |
| 15              | 64QAM      | 36      | 0         | 20.71                    | 20.68                       | 20.52                     | 21.6                   |
| 15              | 64QAM      | 36      | 20        | 20.52                    | 20.45                       | 20.59                     |                        |
| 15              | 64QAM      | 36      | 39        | 20.58                    | 20.41                       | 20.53                     |                        |
| 15              | 64QAM      | 75      | 0         | 20.56                    | 20.46                       | 20.53                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.65                    | 19.66                       | 19.49                     | 20.6                   |
| 15              | 256QAM     | 1       | 37        | 19.62                    | 19.27                       | 19.45                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.39                    | 19.42                       | 19.18                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.50                    | 19.27                       | 19.18                     | 20.6                   |
| 15              | 256QAM     | 36      | 20        | 19.38                    | 19.29                       | 19.35                     |                        |



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|                 |        |    |    |        |        |        |                     |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 15              | 256QAM | 36 | 39 | 19.11  | 19.33  | 19.19  | Tune-up limit (dBm) |
| 15              | 256QAM | 75 | 0  | 19.28  | 19.33  | 19.17  |                     |
| Channel         |        |    |    | 132022 | 132322 | 132622 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1715   | 1745   | 1775   |                     |
| 10              | QPSK   | 1  | 0  | 20.95  | 20.90  | 20.72  | 21.6                |
| 10              | QPSK   | 1  | 25 | 20.65  | 20.63  | 20.77  |                     |
| 10              | QPSK   | 1  | 49 | 20.54  | 20.64  | 20.44  |                     |
| 10              | QPSK   | 25 | 0  | 20.89  | 20.85  | 20.82  | 21.6                |
| 10              | QPSK   | 25 | 12 | 20.75  | 20.64  | 20.84  |                     |
| 10              | QPSK   | 25 | 25 | 20.72  | 20.62  | 20.68  |                     |
| 10              | QPSK   | 50 | 0  | 20.81  | 20.61  | 20.73  |                     |
| 10              | 16QAM  | 1  | 0  | 20.76  | 20.62  | 20.51  | 21.6                |
| 10              | 16QAM  | 1  | 25 | 20.57  | 20.46  | 20.41  |                     |
| 10              | 16QAM  | 1  | 49 | 20.67  | 20.48  | 20.55  |                     |
| 10              | 16QAM  | 25 | 0  | 20.63  | 20.79  | 20.74  | 21.6                |
| 10              | 16QAM  | 25 | 12 | 20.62  | 20.65  | 20.69  |                     |
| 10              | 16QAM  | 25 | 25 | 20.75  | 20.63  | 20.49  |                     |
| 10              | 16QAM  | 50 | 0  | 20.69  | 20.70  | 20.72  |                     |
| 10              | 64QAM  | 1  | 0  | 20.84  | 20.85  | 20.87  | 21.6                |
| 10              | 64QAM  | 1  | 25 | 20.93  | 20.86  | 20.72  |                     |
| 10              | 64QAM  | 1  | 49 | 20.96  | 20.83  | 20.62  |                     |
| 10              | 64QAM  | 25 | 0  | 20.70  | 20.54  | 20.61  | 21.6                |
| 10              | 64QAM  | 25 | 12 | 20.62  | 20.75  | 20.55  |                     |
| 10              | 64QAM  | 25 | 25 | 20.59  | 20.49  | 20.49  |                     |
| 10              | 64QAM  | 50 | 0  | 20.65  | 20.45  | 20.59  |                     |
| 10              | 256QAM | 1  | 0  | 19.68  | 19.53  | 19.37  | 20.6                |
| 10              | 256QAM | 1  | 25 | 19.48  | 19.35  | 19.30  |                     |
| 10              | 256QAM | 1  | 49 | 19.42  | 19.58  | 19.15  |                     |
| 10              | 256QAM | 25 | 0  | 19.38  | 19.31  | 19.37  | 20.6                |
| 10              | 256QAM | 25 | 12 | 19.26  | 19.28  | 19.22  |                     |
| 10              | 256QAM | 25 | 25 | 19.29  | 19.30  | 19.18  |                     |
| 10              | 256QAM | 50 | 0  | 19.32  | 19.15  | 19.11  |                     |
| Channel         |        |    |    | 131997 | 132322 | 132647 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1712.5 | 1745   | 1777.5 |                     |
| 5               | QPSK   | 1  | 0  | 20.93  | 20.91  | 20.71  | 21.6                |
| 5               | QPSK   | 1  | 12 | 20.58  | 20.73  | 20.66  |                     |
| 5               | QPSK   | 1  | 24 | 20.73  | 20.71  | 20.61  |                     |
| 5               | QPSK   | 12 | 0  | 20.80  | 20.72  | 20.85  | 21.6                |
| 5               | QPSK   | 12 | 7  | 20.80  | 20.79  | 20.80  |                     |
| 5               | QPSK   | 12 | 13 | 20.73  | 20.72  | 20.58  |                     |
| 5               | QPSK   | 25 | 0  | 20.83  | 20.66  | 20.64  |                     |
| 5               | 16QAM  | 1  | 0  | 20.81  | 20.59  | 20.63  | 21.6                |
| 5               | 16QAM  | 1  | 12 | 20.58  | 20.48  | 20.48  |                     |
| 5               | 16QAM  | 1  | 24 | 20.68  | 20.46  | 20.42  |                     |
| 5               | 16QAM  | 12 | 0  | 20.90  | 20.84  | 20.60  | 21.6                |
| 5               | 16QAM  | 12 | 7  | 20.72  | 20.75  | 20.59  |                     |
| 5               | 16QAM  | 12 | 13 | 20.74  | 20.54  | 20.54  |                     |
| 5               | 16QAM  | 25 | 0  | 20.60  | 20.74  | 20.64  |                     |
| 5               | 64QAM  | 1  | 0  | 20.94  | 20.82  | 20.91  | 21.6                |
| 5               | 64QAM  | 1  | 12 | 20.73  | 20.84  | 20.87  |                     |
| 5               | 64QAM  | 1  | 24 | 20.84  | 20.85  | 20.68  |                     |
| 5               | 64QAM  | 12 | 0  | 20.79  | 20.70  | 20.59  | 21.6                |
| 5               | 64QAM  | 12 | 7  | 20.50  | 20.52  | 20.59  |                     |
| 5               | 64QAM  | 12 | 13 | 20.50  | 20.55  | 20.50  |                     |
| 5               | 64QAM  | 25 | 0  | 20.70  | 20.69  | 20.49  |                     |
| 5               | 256QAM | 1  | 0  | 19.78  | 19.60  | 19.53  | 20.6                |
| 5               | 256QAM | 1  | 12 | 19.40  | 19.36  | 19.22  |                     |
| 5               | 256QAM | 1  | 24 | 19.52  | 19.33  | 19.29  |                     |
| 5               | 256QAM | 12 | 0  | 19.41  | 19.29  | 19.25  | 20.6                |
| 5               | 256QAM | 12 | 7  | 19.31  | 19.36  | 19.23  |                     |
| 5               | 256QAM | 12 | 13 | 19.24  | 19.12  | 19.25  |                     |
| 5               | 256QAM | 25 | 0  | 19.15  | 19.22  | 19.15  |                     |
| Channel         |        |    |    | 131987 | 132322 | 132657 | Tune-up limit       |



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| Frequency (MHz) |        |    |    | 1711.5 | 1745   | 1778.5 | (dBm)               |
|-----------------|--------|----|----|--------|--------|--------|---------------------|
| 3               | QPSK   | 1  | 0  | 20.88  | 20.88  | 20.92  | 21.6                |
| 3               | QPSK   | 1  | 8  | 20.63  | 20.88  | 20.56  |                     |
| 3               | QPSK   | 1  | 14 | 20.73  | 20.69  | 20.70  |                     |
| 3               | QPSK   | 8  | 0  | 20.95  | 20.82  | 20.87  | 21.6                |
| 3               | QPSK   | 8  | 4  | 20.76  | 20.59  | 20.75  |                     |
| 3               | QPSK   | 8  | 7  | 20.67  | 20.81  | 20.75  |                     |
| 3               | QPSK   | 15 | 0  | 20.77  | 20.74  | 20.68  | 21.6                |
| 3               | 16QAM  | 1  | 0  | 20.87  | 20.72  | 20.61  |                     |
| 3               | 16QAM  | 1  | 8  | 20.58  | 20.64  | 20.56  |                     |
| 3               | 16QAM  | 1  | 14 | 20.62  | 20.59  | 20.48  | 21.6                |
| 3               | 16QAM  | 8  | 0  | 20.67  | 20.67  | 20.50  |                     |
| 3               | 16QAM  | 8  | 4  | 20.58  | 20.51  | 20.70  |                     |
| 3               | 16QAM  | 8  | 7  | 20.65  | 20.61  | 20.52  | 21.6                |
| 3               | 16QAM  | 15 | 0  | 20.54  | 20.74  | 20.83  |                     |
| 3               | 64QAM  | 1  | 0  | 20.89  | 20.86  | 20.94  |                     |
| 3               | 64QAM  | 1  | 8  | 20.88  | 20.75  | 20.92  | 21.6                |
| 3               | 64QAM  | 1  | 14 | 20.82  | 20.78  | 20.57  |                     |
| 3               | 64QAM  | 8  | 0  | 20.59  | 20.50  | 20.50  |                     |
| 3               | 64QAM  | 8  | 4  | 20.72  | 20.73  | 20.46  | 21.6                |
| 3               | 64QAM  | 8  | 7  | 20.49  | 20.43  | 20.63  |                     |
| 3               | 64QAM  | 15 | 0  | 20.53  | 20.46  | 20.41  |                     |
| 3               | 256QAM | 1  | 0  | 19.65  | 19.58  | 19.46  | 20.6                |
| 3               | 256QAM | 1  | 8  | 19.43  | 19.29  | 19.35  |                     |
| 3               | 256QAM | 1  | 14 | 19.37  | 19.44  | 19.18  |                     |
| 3               | 256QAM | 8  | 0  | 19.27  | 19.23  | 19.35  | 20.6                |
| 3               | 256QAM | 8  | 4  | 19.42  | 19.30  | 19.41  |                     |
| 3               | 256QAM | 8  | 7  | 19.34  | 19.19  | 19.24  |                     |
| 3               | 256QAM | 15 | 0  | 19.34  | 19.22  | 19.16  |                     |
| Channel         |        |    |    | 131979 | 132322 | 132665 | Tune-up limit (dBm) |
| Frequency (MHz) |        |    |    | 1710.7 | 1745   | 1779.3 |                     |
| 1.4             | QPSK   | 1  | 0  | 20.80  | 20.88  | 20.84  | 21.6                |
| 1.4             | QPSK   | 1  | 3  | 20.81  | 20.53  | 20.62  |                     |
| 1.4             | QPSK   | 1  | 5  | 20.73  | 20.58  | 20.61  |                     |
| 1.4             | QPSK   | 3  | 0  | 20.89  | 20.83  | 20.96  | 21.6                |
| 1.4             | QPSK   | 3  | 1  | 20.66  | 20.84  | 20.59  |                     |
| 1.4             | QPSK   | 3  | 3  | 20.56  | 20.70  | 20.43  |                     |
| 1.4             | QPSK   | 6  | 0  | 20.72  | 20.70  | 20.90  | 21.6                |
| 1.4             | 16QAM  | 1  | 0  | 20.72  | 20.92  | 20.80  | 21.6                |
| 1.4             | 16QAM  | 1  | 3  | 20.72  | 20.74  | 20.79  |                     |
| 1.4             | 16QAM  | 1  | 5  | 20.83  | 20.69  | 20.63  |                     |
| 1.4             | 16QAM  | 3  | 0  | 20.95  | 20.68  | 20.84  | 21.6                |
| 1.4             | 16QAM  | 3  | 1  | 20.63  | 20.77  | 20.69  |                     |
| 1.4             | 16QAM  | 3  | 3  | 20.73  | 20.69  | 20.58  |                     |
| 1.4             | 16QAM  | 6  | 0  | 20.74  | 20.79  | 20.56  | 21.6                |
| 1.4             | 64QAM  | 1  | 0  | 20.72  | 20.51  | 20.70  | 21.6                |
| 1.4             | 64QAM  | 1  | 3  | 20.63  | 20.52  | 20.59  |                     |
| 1.4             | 64QAM  | 1  | 5  | 20.68  | 20.76  | 20.73  |                     |
| 1.4             | 64QAM  | 3  | 0  | 20.81  | 20.91  | 20.92  | 21.6                |
| 1.4             | 64QAM  | 3  | 1  | 20.86  | 20.90  | 20.74  |                     |
| 1.4             | 64QAM  | 3  | 3  | 20.88  | 20.77  | 20.79  |                     |
| 1.4             | 64QAM  | 6  | 0  | 20.64  | 20.47  | 20.57  | 21.6                |
| 1.4             | 256QAM | 1  | 0  | 19.72  | 19.80  | 19.48  | 20.6                |
| 1.4             | 256QAM | 1  | 3  | 19.44  | 19.40  | 19.28  |                     |
| 1.4             | 256QAM | 1  | 5  | 19.61  | 19.40  | 19.15  |                     |
| 1.4             | 256QAM | 3  | 0  | 19.38  | 19.31  | 19.16  | 20.6                |
| 1.4             | 256QAM | 3  | 1  | 19.36  | 19.34  | 19.28  |                     |
| 1.4             | 256QAM | 3  | 3  | 19.12  | 19.25  | 19.40  |                     |
| 1.4             | 256QAM | 6  | 0  | 19.18  | 19.28  | 19.36  | 20.6                |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 133222                   | 133297                      | 133372                    |                        |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |
| 20              | QPSK       | 1       | 0         | 24.18                    | 24.15                       | 24.16                     |                        |
| 20              | QPSK       | 1       | 49        | 24.09                    | 24.04                       | 24.02                     | 25.7                   |
| 20              | QPSK       | 1       | 99        | 24.07                    | 23.99                       | 23.98                     |                        |
| 20              | QPSK       | 50      | 0         | 23.25                    | 23.11                       | 23.12                     |                        |
| 20              | QPSK       | 50      | 24        | 23.15                    | 23.09                       | 23.11                     | 24.7                   |
| 20              | QPSK       | 50      | 50        | 23.09                    | 23.08                       | 23.11                     |                        |
| 20              | QPSK       | 100     | 0         | 23.08                    | 23.05                       | 23.07                     |                        |
| 20              | 16QAM      | 1       | 0         | 23.35                    | 23.39                       | 23.42                     | 24.7                   |
| 20              | 16QAM      | 1       | 49        | 23.32                    | 23.35                       | 23.31                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.34                    | 23.32                       | 23.19                     |                        |
| 20              | 16QAM      | 50      | 0         | 22.20                    | 22.14                       | 22.12                     | 23.7                   |
| 20              | 16QAM      | 50      | 24        | 22.16                    | 22.12                       | 22.11                     |                        |
| 20              | 16QAM      | 50      | 50        | 22.12                    | 22.07                       | 22.07                     |                        |
| 20              | 16QAM      | 100     | 0         | 22.15                    | 22.12                       | 22.10                     | 23.7                   |
| 20              | 64QAM      | 1       | 0         | 22.37                    | 22.40                       | 22.51                     |                        |
| 20              | 64QAM      | 1       | 49        | 22.34                    | 22.37                       | 22.32                     |                        |
| 20              | 64QAM      | 1       | 99        | 22.39                    | 22.25                       | 22.21                     | 22.7                   |
| 20              | 64QAM      | 50      | 0         | 21.22                    | 21.14                       | 21.16                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.15                    | 21.14                       | 21.13                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.12                    | 21.10                       | 21.09                     | 20.7                   |
| 20              | 64QAM      | 100     | 0         | 21.19                    | 21.14                       | 21.13                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.68                    | 19.71                       | 19.86                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.59                    | 19.72                       | 19.60                     | 20.7                   |
| 20              | 256QAM     | 1       | 99        | 19.69                    | 19.52                       | 19.50                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.48                    | 19.45                       | 19.51                     |                        |
| 20              | 256QAM     | 50      | 24        | 19.48                    | 19.49                       | 19.46                     | 20.7                   |
| 20              | 256QAM     | 50      | 50        | 19.42                    | 19.35                       | 19.40                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.50                    | 19.45                       | 19.46                     |                        |
| Channel         |            |         |           | 133197                   | 133297                      | 133397                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     |                        |
| 15              | QPSK       | 1       | 0         | 24.15                    | 24.08                       | 24.07                     |                        |
| 15              | QPSK       | 1       | 37        | 24.02                    | 23.97                       | 23.92                     | 25.7                   |
| 15              | QPSK       | 1       | 74        | 23.97                    | 23.90                       | 23.91                     |                        |
| 15              | QPSK       | 36      | 0         | 23.21                    | 23.07                       | 23.08                     |                        |
| 15              | QPSK       | 36      | 20        | 23.12                    | 23.04                       | 23.05                     | 24.7                   |
| 15              | QPSK       | 36      | 39        | 23.04                    | 23.07                       | 23.11                     |                        |
| 15              | QPSK       | 75      | 0         | 23.03                    | 22.95                       | 23.05                     |                        |
| 15              | 16QAM      | 1       | 0         | 23.30                    | 23.36                       | 23.34                     | 24.7                   |
| 15              | 16QAM      | 1       | 37        | 23.30                    | 23.31                       | 23.22                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.32                    | 23.25                       | 23.13                     |                        |
| 15              | 16QAM      | 36      | 0         | 22.15                    | 22.08                       | 22.03                     | 23.7                   |
| 15              | 16QAM      | 36      | 20        | 22.06                    | 22.03                       | 22.01                     |                        |
| 15              | 16QAM      | 36      | 39        | 22.05                    | 21.99                       | 22.01                     |                        |
| 15              | 16QAM      | 75      | 0         | 22.15                    | 22.06                       | 22.05                     | 23.7                   |
| 15              | 64QAM      | 1       | 0         | 22.37                    | 22.34                       | 22.49                     |                        |
| 15              | 64QAM      | 1       | 37        | 22.33                    | 22.30                       | 22.28                     |                        |
| 15              | 64QAM      | 1       | 74        | 22.34                    | 22.15                       | 22.18                     | 22.7                   |
| 15              | 64QAM      | 36      | 0         | 21.18                    | 21.14                       | 21.16                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.06                    | 21.07                       | 21.06                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.04                    | 21.01                       | 21.09                     | 20.7                   |
| 15              | 64QAM      | 75      | 0         | 21.16                    | 21.06                       | 21.06                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.63                    | 19.67                       | 19.84                     |                        |
| 15              | 256QAM     | 1       | 37        | 19.55                    | 19.69                       | 19.50                     | 20.7                   |
| 15              | 256QAM     | 1       | 74        | 19.64                    | 19.45                       | 19.40                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.44                    | 19.40                       | 19.42                     |                        |
| 15              | 256QAM     | 36      | 20        | 19.42                    | 19.46                       | 19.40                     | 20.7                   |
| 15              | 256QAM     | 36      | 39        | 19.34                    | 19.32                       | 19.40                     |                        |



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|                 |        |    |    |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.44  | 19.43  | 19.44  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 133172 | 133297 | 133422 |                        |
| Frequency (MHz) |        |    |    | 668    | 680.5  | 693    |                        |
| 10              | QPSK   | 1  | 0  | 24.09  | 24.11  | 24.12  | 25.7                   |
| 10              | QPSK   | 1  | 25 | 24.05  | 23.96  | 23.97  |                        |
| 10              | QPSK   | 1  | 49 | 24.06  | 23.98  | 23.98  |                        |
| 10              | QPSK   | 25 | 0  | 23.25  | 23.06  | 23.12  | 24.7                   |
| 10              | QPSK   | 25 | 12 | 23.10  | 23.03  | 23.10  |                        |
| 10              | QPSK   | 25 | 25 | 22.99  | 23.03  | 23.04  |                        |
| 10              | QPSK   | 50 | 0  | 23.02  | 23.01  | 22.98  |                        |
| 10              | 16QAM  | 1  | 0  | 23.29  | 23.38  | 23.41  | 24.7                   |
| 10              | 16QAM  | 1  | 25 | 23.24  | 23.30  | 23.21  |                        |
| 10              | 16QAM  | 1  | 49 | 23.26  | 23.27  | 23.19  |                        |
| 10              | 16QAM  | 25 | 0  | 22.16  | 22.05  | 22.03  | 23.7                   |
| 10              | 16QAM  | 25 | 12 | 22.06  | 22.10  | 22.11  |                        |
| 10              | 16QAM  | 25 | 25 | 22.11  | 22.03  | 22.01  |                        |
| 10              | 16QAM  | 50 | 0  | 22.11  | 22.08  | 22.07  |                        |
| 10              | 64QAM  | 1  | 0  | 22.34  | 22.39  | 22.51  | 23.7                   |
| 10              | 64QAM  | 1  | 25 | 22.30  | 22.34  | 22.24  |                        |
| 10              | 64QAM  | 1  | 49 | 22.33  | 22.20  | 22.21  |                        |
| 10              | 64QAM  | 25 | 0  | 21.15  | 21.06  | 21.06  | 22.7                   |
| 10              | 64QAM  | 25 | 12 | 21.12  | 21.09  | 21.05  |                        |
| 10              | 64QAM  | 25 | 25 | 21.10  | 21.10  | 20.99  |                        |
| 10              | 64QAM  | 50 | 0  | 21.17  | 21.11  | 21.06  |                        |
| 10              | 256QAM | 1  | 0  | 19.60  | 19.64  | 19.76  | 20.7                   |
| 10              | 256QAM | 1  | 25 | 19.58  | 19.67  | 19.56  |                        |
| 10              | 256QAM | 1  | 49 | 19.61  | 19.42  | 19.47  |                        |
| 10              | 256QAM | 25 | 0  | 19.41  | 19.39  | 19.49  | 20.7                   |
| 10              | 256QAM | 25 | 12 | 19.45  | 19.42  | 19.36  |                        |
| 10              | 256QAM | 25 | 25 | 19.40  | 19.26  | 19.32  |                        |
| 10              | 256QAM | 50 | 0  | 19.49  | 19.42  | 19.37  |                        |
| Channel         |        |    |    | 133147 | 133297 | 133447 | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 665.5  | 680.5  | 695.5  |                        |
| 5               | QPSK   | 1  | 0  | 24.06  | 24.08  | 24.08  | 25.7                   |
| 5               | QPSK   | 1  | 12 | 24.05  | 23.98  | 24.01  |                        |
| 5               | QPSK   | 1  | 24 | 24.05  | 23.97  | 23.90  |                        |
| 5               | QPSK   | 12 | 0  | 23.20  | 23.01  | 23.11  | 24.7                   |
| 5               | QPSK   | 12 | 7  | 23.14  | 23.03  | 23.08  |                        |
| 5               | QPSK   | 12 | 13 | 23.03  | 22.99  | 23.01  |                        |
| 5               | QPSK   | 25 | 0  | 23.07  | 23.04  | 23.01  |                        |
| 5               | 16QAM  | 1  | 0  | 23.34  | 23.32  | 23.41  | 24.7                   |
| 5               | 16QAM  | 1  | 12 | 23.25  | 23.27  | 23.30  |                        |
| 5               | 16QAM  | 1  | 24 | 23.34  | 23.24  | 23.15  |                        |
| 5               | 16QAM  | 12 | 0  | 22.14  | 22.06  | 22.06  | 23.7                   |
| 5               | 16QAM  | 12 | 7  | 22.07  | 22.05  | 22.05  |                        |
| 5               | 16QAM  | 12 | 13 | 22.06  | 21.97  | 21.98  |                        |
| 5               | 16QAM  | 25 | 0  | 22.10  | 22.10  | 22.00  |                        |
| 5               | 64QAM  | 1  | 0  | 22.35  | 22.32  | 22.47  | 23.7                   |
| 5               | 64QAM  | 1  | 12 | 22.25  | 22.28  | 22.23  |                        |
| 5               | 64QAM  | 1  | 24 | 22.39  | 22.18  | 22.11  |                        |
| 5               | 64QAM  | 12 | 0  | 21.22  | 21.13  | 21.10  | 22.7                   |
| 5               | 64QAM  | 12 | 7  | 21.11  | 21.14  | 21.07  |                        |
| 5               | 64QAM  | 12 | 13 | 21.05  | 21.10  | 20.99  |                        |
| 5               | 64QAM  | 25 | 0  | 21.09  | 21.12  | 21.10  |                        |
| 5               | 256QAM | 1  | 0  | 19.63  | 19.71  | 19.85  | 20.7                   |
| 5               | 256QAM | 1  | 12 | 19.50  | 19.62  | 19.51  |                        |
| 5               | 256QAM | 1  | 24 | 19.69  | 19.42  | 19.49  |                        |
| 5               | 256QAM | 12 | 0  | 19.46  | 19.37  | 19.46  | 20.7                   |
| 5               | 256QAM | 12 | 7  | 19.48  | 19.42  | 19.38  |                        |
| 5               | 256QAM | 12 | 13 | 19.35  | 19.25  | 19.39  |                        |
| 5               | 256QAM | 25 | 0  | 19.46  | 19.37  | 19.36  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 133222                   | 133297                      | 133372                    |                        |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |
| 20              | QPSK       | 1       | 0         | 22.70                    | 22.75                       | 22.71                     |                        |
| 20              | QPSK       | 1       | 49        | 22.67                    | 22.67                       | 22.65                     | 23.3                   |
| 20              | QPSK       | 1       | 99        | 22.54                    | 22.69                       | 22.60                     |                        |
| 20              | QPSK       | 50      | 0         | 22.55                    | 22.75                       | 22.68                     |                        |
| 20              | QPSK       | 50      | 24        | 22.51                    | 22.58                       | 22.68                     | 23.3                   |
| 20              | QPSK       | 50      | 50        | 22.52                    | 22.71                       | 22.67                     |                        |
| 20              | QPSK       | 100     | 0         | 22.66                    | 22.74                       | 22.72                     |                        |
| 20              | 16QAM      | 1       | 0         | 22.75                    | 22.64                       | 22.62                     | 23.3                   |
| 20              | 16QAM      | 1       | 49        | 22.69                    | 22.52                       | 22.62                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.66                    | 22.60                       | 22.65                     |                        |
| 20              | 16QAM      | 50      | 0         | 22.54                    | 22.58                       | 22.56                     | 23.3                   |
| 20              | 16QAM      | 50      | 24        | 22.54                    | 22.57                       | 22.48                     |                        |
| 20              | 16QAM      | 50      | 50        | 22.47                    | 22.44                       | 22.40                     |                        |
| 20              | 16QAM      | 100     | 0         | 22.46                    | 22.53                       | 22.41                     | 23.3                   |
| 20              | 64QAM      | 1       | 0         | 22.63                    | 22.64                       | 22.67                     |                        |
| 20              | 64QAM      | 1       | 49        | 22.49                    | 22.62                       | 22.74                     |                        |
| 20              | 64QAM      | 1       | 99        | 22.59                    | 22.54                       | 22.25                     | 22.7                   |
| 20              | 64QAM      | 50      | 0         | 22.06                    | 22.16                       | 22.10                     |                        |
| 20              | 64QAM      | 50      | 24        | 22.12                    | 22.05                       | 22.08                     |                        |
| 20              | 64QAM      | 50      | 50        | 22.08                    | 21.97                       | 21.94                     | 20.7                   |
| 20              | 64QAM      | 100     | 0         | 22.11                    | 22.00                       | 22.03                     |                        |
| 20              | 256QAM     | 1       | 0         | 20.63                    | 20.49                       | 20.60                     |                        |
| 20              | 256QAM     | 1       | 49        | 20.44                    | 20.52                       | 20.60                     | 20.7                   |
| 20              | 256QAM     | 1       | 99        | 20.42                    | 20.63                       | 20.24                     |                        |
| 20              | 256QAM     | 50      | 0         | 20.49                    | 20.39                       | 20.33                     |                        |
| 20              | 256QAM     | 50      | 24        | 20.50                    | 20.42                       | 20.36                     | 20.7                   |
| 20              | 256QAM     | 50      | 50        | 20.39                    | 20.32                       | 20.39                     |                        |
| 20              | 256QAM     | 100     | 0         | 20.46                    | 20.49                       | 20.48                     |                        |
| Channel         |            |         |           | 133197                   | 133297                      | 133397                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     |                        |
| 15              | QPSK       | 1       | 0         | 22.52                    | 22.58                       | 22.62                     |                        |
| 15              | QPSK       | 1       | 37        | 22.48                    | 22.61                       | 22.45                     | 23.3                   |
| 15              | QPSK       | 1       | 74        | 22.49                    | 22.68                       | 22.59                     |                        |
| 15              | QPSK       | 36      | 0         | 22.44                    | 22.69                       | 22.63                     |                        |
| 15              | QPSK       | 36      | 20        | 22.49                    | 22.55                       | 22.55                     | 23.3                   |
| 15              | QPSK       | 36      | 39        | 22.47                    | 22.61                       | 22.67                     |                        |
| 15              | QPSK       | 75      | 0         | 22.48                    | 22.64                       | 22.62                     |                        |
| 15              | 16QAM      | 1       | 0         | 22.55                    | 22.44                       | 22.45                     | 23.3                   |
| 15              | 16QAM      | 1       | 37        | 22.52                    | 22.43                       | 22.59                     |                        |
| 15              | 16QAM      | 1       | 74        | 22.53                    | 22.46                       | 22.62                     |                        |
| 15              | 16QAM      | 36      | 0         | 22.45                    | 22.51                       | 22.40                     | 23.3                   |
| 15              | 16QAM      | 36      | 20        | 22.43                    | 22.52                       | 22.34                     |                        |
| 15              | 16QAM      | 36      | 39        | 22.40                    | 22.35                       | 22.40                     |                        |
| 15              | 16QAM      | 75      | 0         | 22.32                    | 22.36                       | 22.22                     | 23.3                   |
| 15              | 64QAM      | 1       | 0         | 22.58                    | 22.50                       | 22.63                     |                        |
| 15              | 64QAM      | 1       | 37        | 22.37                    | 22.49                       | 22.67                     |                        |
| 15              | 64QAM      | 1       | 74        | 22.52                    | 22.53                       | 22.22                     | 22.7                   |
| 15              | 64QAM      | 36      | 0         | 22.05                    | 22.12                       | 22.09                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.97                    | 22.01                       | 21.92                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.90                    | 21.88                       | 21.82                     | 20.7                   |
| 15              | 64QAM      | 75      | 0         | 21.93                    | 21.81                       | 21.89                     |                        |
| 15              | 256QAM     | 1       | 0         | 20.50                    | 20.29                       | 20.50                     |                        |
| 15              | 256QAM     | 1       | 37        | 20.36                    | 20.48                       | 20.42                     | 20.7                   |
| 15              | 256QAM     | 1       | 74        | 20.42                    | 20.44                       | 20.18                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.48                    | 20.31                       | 20.33                     |                        |
| 15              | 256QAM     | 36      | 20        | 20.44                    | 20.40                       | 20.33                     | 20.7                   |
| 15              | 256QAM     | 36      | 39        | 20.39                    | 20.16                       | 20.31                     |                        |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 20.28  | 20.35  | 20.34  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 133172 | 133297 | 133422 |                        |
| Frequency (MHz) |        |    |    | 668    | 680.5  | 693    |                        |
| 10              | QPSK   | 1  | 0  | 22.68  | 22.70  | 22.51  | 23.3                   |
| 10              | QPSK   | 1  | 25 | 22.52  | 22.66  | 22.50  |                        |
| 10              | QPSK   | 1  | 49 | 22.46  | 22.64  | 22.53  |                        |
| 10              | QPSK   | 25 | 0  | 22.36  | 22.66  | 22.68  | 23.3                   |
| 10              | QPSK   | 25 | 12 | 22.47  | 22.49  | 22.55  |                        |
| 10              | QPSK   | 25 | 25 | 22.43  | 22.65  | 22.52  |                        |
| 10              | QPSK   | 50 | 0  | 22.59  | 22.74  | 22.59  | 23.3                   |
| 10              | 16QAM  | 1  | 0  | 22.66  | 22.44  | 22.49  |                        |
| 10              | 16QAM  | 1  | 25 | 22.51  | 22.46  | 22.51  |                        |
| 10              | 16QAM  | 1  | 49 | 22.54  | 22.42  | 22.50  | 23.3                   |
| 10              | 16QAM  | 25 | 0  | 22.47  | 22.45  | 22.45  |                        |
| 10              | 16QAM  | 25 | 12 | 22.52  | 22.41  | 22.45  |                        |
| 10              | 16QAM  | 25 | 25 | 22.36  | 22.34  | 22.39  | 23.3                   |
| 10              | 16QAM  | 50 | 0  | 22.45  | 22.50  | 22.36  |                        |
| 10              | 64QAM  | 1  | 0  | 22.44  | 22.44  | 22.63  |                        |
| 10              | 64QAM  | 1  | 25 | 22.42  | 22.42  | 22.63  | 23.3                   |
| 10              | 64QAM  | 1  | 49 | 22.58  | 22.45  | 22.23  |                        |
| 10              | 64QAM  | 25 | 0  | 22.05  | 21.99  | 21.92  |                        |
| 10              | 64QAM  | 25 | 12 | 22.01  | 21.94  | 21.98  | 22.7                   |
| 10              | 64QAM  | 25 | 25 | 22.01  | 21.89  | 21.74  |                        |
| 10              | 64QAM  | 50 | 0  | 22.09  | 21.80  | 22.03  |                        |
| 10              | 256QAM | 1  | 0  | 20.47  | 20.39  | 20.44  | 20.7                   |
| 10              | 256QAM | 1  | 25 | 20.44  | 20.48  | 20.51  |                        |
| 10              | 256QAM | 1  | 49 | 20.32  | 20.55  | 20.10  |                        |
| 10              | 256QAM | 25 | 0  | 20.32  | 20.21  | 20.26  | 20.7                   |
| 10              | 256QAM | 25 | 12 | 20.38  | 20.37  | 20.25  |                        |
| 10              | 256QAM | 25 | 25 | 20.20  | 20.23  | 20.28  |                        |
| 10              | 256QAM | 50 | 0  | 20.41  | 20.40  | 20.32  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 133147 | 133297 | 133447 |                        |
| Frequency (MHz) |        |    |    | 665.5  | 680.5  | 695.5  |                        |
| 5               | QPSK   | 1  | 0  | 22.50  | 22.58  | 22.65  | 23.3                   |
| 5               | QPSK   | 1  | 12 | 22.61  | 22.67  | 22.48  |                        |
| 5               | QPSK   | 1  | 24 | 22.41  | 22.61  | 22.40  |                        |
| 5               | QPSK   | 12 | 0  | 22.46  | 22.73  | 22.48  | 23.3                   |
| 5               | QPSK   | 12 | 7  | 22.46  | 22.51  | 22.62  |                        |
| 5               | QPSK   | 12 | 13 | 22.40  | 22.52  | 22.59  |                        |
| 5               | QPSK   | 25 | 0  | 22.52  | 22.61  | 22.67  | 23.3                   |
| 5               | 16QAM  | 1  | 0  | 22.56  | 22.54  | 22.51  |                        |
| 5               | 16QAM  | 1  | 12 | 22.54  | 22.37  | 22.53  |                        |
| 5               | 16QAM  | 1  | 24 | 22.57  | 22.44  | 22.50  | 23.3                   |
| 5               | 16QAM  | 12 | 0  | 22.43  | 22.46  | 22.56  |                        |
| 5               | 16QAM  | 12 | 7  | 22.36  | 22.57  | 22.32  |                        |
| 5               | 16QAM  | 12 | 13 | 22.28  | 22.38  | 22.39  | 23.3                   |
| 5               | 16QAM  | 25 | 0  | 22.38  | 22.38  | 22.22  |                        |
| 5               | 64QAM  | 1  | 0  | 22.61  | 22.52  | 22.63  |                        |
| 5               | 64QAM  | 1  | 12 | 22.47  | 22.47  | 22.59  | 23.3                   |
| 5               | 64QAM  | 1  | 24 | 22.43  | 22.54  | 22.17  |                        |
| 5               | 64QAM  | 12 | 0  | 21.99  | 22.04  | 21.90  |                        |
| 5               | 64QAM  | 12 | 7  | 22.07  | 21.91  | 21.98  | 22.7                   |
| 5               | 64QAM  | 12 | 13 | 22.08  | 21.78  | 21.92  |                        |
| 5               | 64QAM  | 25 | 0  | 22.08  | 21.95  | 21.83  |                        |
| 5               | 256QAM | 1  | 0  | 20.59  | 20.44  | 20.56  | 20.7                   |
| 5               | 256QAM | 1  | 12 | 20.25  | 20.39  | 20.53  |                        |
| 5               | 256QAM | 1  | 24 | 20.26  | 20.60  | 20.09  |                        |
| 5               | 256QAM | 12 | 0  | 20.44  | 20.30  | 20.17  | 20.7                   |
| 5               | 256QAM | 12 | 7  | 20.45  | 20.25  | 20.18  |                        |
| 5               | 256QAM | 12 | 13 | 20.30  | 20.17  | 20.36  |                        |
| 5               | 256QAM | 25 | 0  | 20.27  | 20.36  | 20.41  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 133222                   | 133297                      | 133372                    |                        |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |
| 20              | QPSK       | 1       | 0         | 24.18                    | 24.15                       | 24.16                     |                        |
| 20              | QPSK       | 1       | 49        | 24.09                    | 24.04                       | 24.02                     | 25.7                   |
| 20              | QPSK       | 1       | 99        | 24.07                    | 23.99                       | 23.98                     |                        |
| 20              | QPSK       | 50      | 0         | 23.25                    | 23.11                       | 23.12                     |                        |
| 20              | QPSK       | 50      | 24        | 23.15                    | 23.09                       | 23.11                     | 24.7                   |
| 20              | QPSK       | 50      | 50        | 23.09                    | 23.08                       | 23.11                     |                        |
| 20              | QPSK       | 100     | 0         | 23.08                    | 23.05                       | 23.07                     |                        |
| 20              | 16QAM      | 1       | 0         | 23.35                    | 23.39                       | 23.42                     | 24.7                   |
| 20              | 16QAM      | 1       | 49        | 23.32                    | 23.35                       | 23.31                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.34                    | 23.32                       | 23.19                     |                        |
| 20              | 16QAM      | 50      | 0         | 22.20                    | 22.14                       | 22.12                     | 23.7                   |
| 20              | 16QAM      | 50      | 24        | 22.16                    | 22.12                       | 22.11                     |                        |
| 20              | 16QAM      | 50      | 50        | 22.12                    | 22.07                       | 22.07                     |                        |
| 20              | 16QAM      | 100     | 0         | 22.15                    | 22.12                       | 22.10                     | 23.7                   |
| 20              | 64QAM      | 1       | 0         | 22.37                    | 22.40                       | 22.51                     |                        |
| 20              | 64QAM      | 1       | 49        | 22.34                    | 22.37                       | 22.32                     |                        |
| 20              | 64QAM      | 1       | 99        | 22.39                    | 22.25                       | 22.21                     | 22.7                   |
| 20              | 64QAM      | 50      | 0         | 21.22                    | 21.14                       | 21.16                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.15                    | 21.14                       | 21.13                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.12                    | 21.10                       | 21.09                     | 20.7                   |
| 20              | 64QAM      | 100     | 0         | 21.19                    | 21.14                       | 21.13                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.68                    | 19.71                       | 19.86                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.59                    | 19.72                       | 19.60                     | 20.7                   |
| 20              | 256QAM     | 1       | 99        | 19.69                    | 19.52                       | 19.50                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.48                    | 19.45                       | 19.51                     |                        |
| 20              | 256QAM     | 50      | 24        | 19.48                    | 19.49                       | 19.46                     | 20.7                   |
| 20              | 256QAM     | 50      | 50        | 19.42                    | 19.35                       | 19.40                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.50                    | 19.45                       | 19.46                     |                        |
| Channel         |            |         |           | 133197                   | 133297                      | 133397                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     |                        |
| 15              | QPSK       | 1       | 0         | 24.15                    | 24.08                       | 24.07                     |                        |
| 15              | QPSK       | 1       | 37        | 24.02                    | 23.97                       | 23.92                     | 25.7                   |
| 15              | QPSK       | 1       | 74        | 23.97                    | 23.90                       | 23.91                     |                        |
| 15              | QPSK       | 36      | 0         | 23.21                    | 23.07                       | 23.08                     | 24.7                   |
| 15              | QPSK       | 36      | 20        | 23.12                    | 23.04                       | 23.05                     |                        |
| 15              | QPSK       | 36      | 39        | 23.04                    | 23.07                       | 23.11                     |                        |
| 15              | QPSK       | 75      | 0         | 23.03                    | 22.95                       | 23.05                     | 24.7                   |
| 15              | 16QAM      | 1       | 0         | 23.30                    | 23.36                       | 23.34                     |                        |
| 15              | 16QAM      | 1       | 37        | 23.30                    | 23.31                       | 23.22                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.32                    | 23.25                       | 23.13                     | 23.7                   |
| 15              | 16QAM      | 36      | 0         | 22.15                    | 22.08                       | 22.03                     |                        |
| 15              | 16QAM      | 36      | 20        | 22.06                    | 22.03                       | 22.01                     |                        |
| 15              | 16QAM      | 36      | 39        | 22.05                    | 21.99                       | 22.01                     | 23.7                   |
| 15              | 16QAM      | 75      | 0         | 22.15                    | 22.06                       | 22.05                     |                        |
| 15              | 64QAM      | 1       | 0         | 22.37                    | 22.34                       | 22.49                     |                        |
| 15              | 64QAM      | 1       | 37        | 22.33                    | 22.30                       | 22.28                     | 23.7                   |
| 15              | 64QAM      | 1       | 74        | 22.34                    | 22.15                       | 22.18                     |                        |
| 15              | 64QAM      | 36      | 0         | 21.18                    | 21.14                       | 21.16                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.06                    | 21.07                       | 21.06                     | 22.7                   |
| 15              | 64QAM      | 36      | 39        | 21.04                    | 21.01                       | 21.09                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.16                    | 21.06                       | 21.06                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.63                    | 19.67                       | 19.84                     | 20.7                   |
| 15              | 256QAM     | 1       | 37        | 19.55                    | 19.69                       | 19.50                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.64                    | 19.45                       | 19.40                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.44                    | 19.40                       | 19.42                     | 20.7                   |
| 15              | 256QAM     | 36      | 20        | 19.42                    | 19.46                       | 19.40                     |                        |
| 15              | 256QAM     | 36      | 39        | 19.34                    | 19.32                       | 19.40                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.44  | 19.43  | 19.44  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 133172 | 133297 | 133422 |                        |
| Frequency (MHz) |        |    |    | 668    | 680.5  | 693    |                        |
| 10              | QPSK   | 1  | 0  | 24.09  | 24.11  | 24.12  | 25.7                   |
| 10              | QPSK   | 1  | 25 | 24.05  | 23.96  | 23.97  |                        |
| 10              | QPSK   | 1  | 49 | 24.06  | 23.98  | 23.98  |                        |
| 10              | QPSK   | 25 | 0  | 23.25  | 23.06  | 23.12  | 24.7                   |
| 10              | QPSK   | 25 | 12 | 23.10  | 23.03  | 23.10  |                        |
| 10              | QPSK   | 25 | 25 | 22.99  | 23.03  | 23.04  |                        |
| 10              | QPSK   | 50 | 0  | 23.02  | 23.01  | 22.98  |                        |
| 10              | 16QAM  | 1  | 0  | 23.29  | 23.38  | 23.41  | 24.7                   |
| 10              | 16QAM  | 1  | 25 | 23.24  | 23.30  | 23.21  |                        |
| 10              | 16QAM  | 1  | 49 | 23.26  | 23.27  | 23.19  |                        |
| 10              | 16QAM  | 25 | 0  | 22.16  | 22.05  | 22.03  | 23.7                   |
| 10              | 16QAM  | 25 | 12 | 22.06  | 22.10  | 22.11  |                        |
| 10              | 16QAM  | 25 | 25 | 22.11  | 22.03  | 22.01  |                        |
| 10              | 16QAM  | 50 | 0  | 22.11  | 22.08  | 22.07  |                        |
| 10              | 64QAM  | 1  | 0  | 22.34  | 22.39  | 22.51  | 23.7                   |
| 10              | 64QAM  | 1  | 25 | 22.30  | 22.34  | 22.24  |                        |
| 10              | 64QAM  | 1  | 49 | 22.33  | 22.20  | 22.21  |                        |
| 10              | 64QAM  | 25 | 0  | 21.15  | 21.06  | 21.06  | 22.7                   |
| 10              | 64QAM  | 25 | 12 | 21.12  | 21.09  | 21.05  |                        |
| 10              | 64QAM  | 25 | 25 | 21.10  | 21.10  | 20.99  |                        |
| 10              | 64QAM  | 50 | 0  | 21.17  | 21.11  | 21.06  |                        |
| 10              | 256QAM | 1  | 0  | 19.60  | 19.64  | 19.76  | 20.7                   |
| 10              | 256QAM | 1  | 25 | 19.58  | 19.67  | 19.56  |                        |
| 10              | 256QAM | 1  | 49 | 19.61  | 19.42  | 19.47  |                        |
| 10              | 256QAM | 25 | 0  | 19.41  | 19.39  | 19.49  | 20.7                   |
| 10              | 256QAM | 25 | 12 | 19.45  | 19.42  | 19.36  |                        |
| 10              | 256QAM | 25 | 25 | 19.40  | 19.26  | 19.32  |                        |
| 10              | 256QAM | 50 | 0  | 19.49  | 19.42  | 19.37  |                        |
| Channel         |        |    |    | 133147 | 133297 | 133447 | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 665.5  | 680.5  | 695.5  |                        |
| 5               | QPSK   | 1  | 0  | 24.06  | 24.08  | 24.08  | 25.7                   |
| 5               | QPSK   | 1  | 12 | 24.05  | 23.98  | 24.01  |                        |
| 5               | QPSK   | 1  | 24 | 24.05  | 23.97  | 23.90  |                        |
| 5               | QPSK   | 12 | 0  | 23.20  | 23.01  | 23.11  | 24.7                   |
| 5               | QPSK   | 12 | 7  | 23.14  | 23.03  | 23.08  |                        |
| 5               | QPSK   | 12 | 13 | 23.03  | 22.99  | 23.01  |                        |
| 5               | QPSK   | 25 | 0  | 23.07  | 23.04  | 23.01  |                        |
| 5               | 16QAM  | 1  | 0  | 23.34  | 23.32  | 23.41  | 24.7                   |
| 5               | 16QAM  | 1  | 12 | 23.25  | 23.27  | 23.30  |                        |
| 5               | 16QAM  | 1  | 24 | 23.34  | 23.24  | 23.15  |                        |
| 5               | 16QAM  | 12 | 0  | 22.14  | 22.06  | 22.06  | 23.7                   |
| 5               | 16QAM  | 12 | 7  | 22.07  | 22.05  | 22.05  |                        |
| 5               | 16QAM  | 12 | 13 | 22.06  | 21.97  | 21.98  |                        |
| 5               | 16QAM  | 25 | 0  | 22.10  | 22.10  | 22.00  |                        |
| 5               | 64QAM  | 1  | 0  | 22.35  | 22.32  | 22.47  | 23.7                   |
| 5               | 64QAM  | 1  | 12 | 22.25  | 22.28  | 22.23  |                        |
| 5               | 64QAM  | 1  | 24 | 22.39  | 22.18  | 22.11  |                        |
| 5               | 64QAM  | 12 | 0  | 21.22  | 21.13  | 21.10  | 22.7                   |
| 5               | 64QAM  | 12 | 7  | 21.11  | 21.14  | 21.07  |                        |
| 5               | 64QAM  | 12 | 13 | 21.05  | 21.10  | 20.99  |                        |
| 5               | 64QAM  | 25 | 0  | 21.09  | 21.12  | 21.10  |                        |
| 5               | 256QAM | 1  | 0  | 19.63  | 19.71  | 19.85  | 20.7                   |
| 5               | 256QAM | 1  | 12 | 19.50  | 19.62  | 19.51  |                        |
| 5               | 256QAM | 1  | 24 | 19.69  | 19.42  | 19.49  |                        |
| 5               | 256QAM | 12 | 0  | 19.46  | 19.37  | 19.46  | 20.7                   |
| 5               | 256QAM | 12 | 7  | 19.48  | 19.42  | 19.38  |                        |
| 5               | 256QAM | 12 | 13 | 19.35  | 19.25  | 19.39  |                        |
| 5               | 256QAM | 25 | 0  | 19.46  | 19.37  | 19.36  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 133222                   | 133297                      | 133372                    |                        |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |
| 20              | QPSK       | 1       | 0         | 25.07                    | 25.05                       | 25.04                     |                        |
| 20              | QPSK       | 1       | 49        | 24.94                    | 24.89                       | 24.86                     | 25.7                   |
| 20              | QPSK       | 1       | 99        | 24.89                    | 24.86                       | 24.84                     |                        |
| 20              | QPSK       | 50      | 0         | 24.16                    | 24.07                       | 24.06                     |                        |
| 20              | QPSK       | 50      | 24        | 24.09                    | 24.03                       | 24.02                     | 24.7                   |
| 20              | QPSK       | 50      | 50        | 23.99                    | 23.99                       | 24.01                     |                        |
| 20              | QPSK       | 100     | 0         | 23.98                    | 23.98                       | 23.92                     |                        |
| 20              | 16QAM      | 1       | 0         | 24.25                    | 24.28                       | 24.38                     | 24.7                   |
| 20              | 16QAM      | 1       | 49        | 24.27                    | 24.22                       | 24.17                     |                        |
| 20              | 16QAM      | 1       | 99        | 24.25                    | 24.16                       | 24.07                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.06                    | 23.02                       | 23.00                     | 23.7                   |
| 20              | 16QAM      | 50      | 24        | 23.04                    | 22.99                       | 22.95                     |                        |
| 20              | 16QAM      | 50      | 50        | 22.98                    | 22.94                       | 22.94                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.00                    | 22.97                       | 22.95                     | 23.7                   |
| 20              | 64QAM      | 1       | 0         | 23.14                    | 23.16                       | 23.20                     |                        |
| 20              | 64QAM      | 1       | 49        | 23.05                    | 23.14                       | 23.15                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.07                    | 23.10                       | 22.85                     | 22.7                   |
| 20              | 64QAM      | 50      | 0         | 22.13                    | 22.06                       | 22.03                     |                        |
| 20              | 64QAM      | 50      | 24        | 22.06                    | 22.02                       | 22.02                     |                        |
| 20              | 64QAM      | 50      | 50        | 22.00                    | 21.96                       | 21.96                     | 20.7                   |
| 20              | 64QAM      | 100     | 0         | 22.04                    | 21.99                       | 21.98                     |                        |
| 20              | 256QAM     | 1       | 0         | 20.55                    | 20.57                       | 20.61                     |                        |
| 20              | 256QAM     | 1       | 49        | 20.50                    | 20.52                       | 20.54                     | 20.7                   |
| 20              | 256QAM     | 1       | 99        | 20.45                    | 20.54                       | 20.21                     |                        |
| 20              | 256QAM     | 50      | 0         | 20.52                    | 20.41                       | 20.39                     |                        |
| 20              | 256QAM     | 50      | 24        | 20.48                    | 20.39                       | 20.43                     | 20.7                   |
| 20              | 256QAM     | 50      | 50        | 20.35                    | 20.38                       | 20.38                     |                        |
| 20              | 256QAM     | 100     | 0         | 20.47                    | 20.44                       | 20.41                     |                        |
| Channel         |            |         |           | 133197                   | 133297                      | 133397                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     |                        |
| 15              | QPSK       | 1       | 0         | 24.89                    | 25.04                       | 24.87                     |                        |
| 15              | QPSK       | 1       | 37        | 24.76                    | 24.82                       | 24.66                     | 25.7                   |
| 15              | QPSK       | 1       | 74        | 24.78                    | 24.66                       | 24.68                     |                        |
| 15              | QPSK       | 36      | 0         | 24.05                    | 24.01                       | 23.93                     | 24.7                   |
| 15              | QPSK       | 36      | 20        | 23.90                    | 24.00                       | 23.84                     |                        |
| 15              | QPSK       | 36      | 39        | 23.80                    | 23.89                       | 23.95                     |                        |
| 15              | QPSK       | 75      | 0         | 23.79                    | 23.95                       | 23.91                     | 24.7                   |
| 15              | 16QAM      | 1       | 0         | 24.16                    | 24.15                       | 24.30                     |                        |
| 15              | 16QAM      | 1       | 37        | 24.17                    | 24.19                       | 24.06                     |                        |
| 15              | 16QAM      | 1       | 74        | 24.06                    | 24.15                       | 24.06                     | 23.7                   |
| 15              | 16QAM      | 36      | 0         | 23.05                    | 22.94                       | 23.00                     |                        |
| 15              | 16QAM      | 36      | 20        | 22.99                    | 22.92                       | 22.77                     |                        |
| 15              | 16QAM      | 36      | 39        | 22.79                    | 22.81                       | 22.82                     | 23.7                   |
| 15              | 16QAM      | 75      | 0         | 23.00                    | 22.85                       | 22.79                     |                        |
| 15              | 64QAM      | 1       | 0         | 23.10                    | 23.02                       | 23.10                     |                        |
| 15              | 64QAM      | 1       | 37        | 23.01                    | 23.05                       | 22.95                     | 23.7                   |
| 15              | 64QAM      | 1       | 74        | 23.02                    | 23.10                       | 22.66                     |                        |
| 15              | 64QAM      | 36      | 0         | 22.13                    | 21.97                       | 21.87                     |                        |
| 15              | 64QAM      | 36      | 20        | 22.00                    | 21.94                       | 21.84                     | 22.7                   |
| 15              | 64QAM      | 36      | 39        | 21.87                    | 21.81                       | 21.84                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.84                    | 21.92                       | 21.87                     |                        |
| 15              | 256QAM     | 1       | 0         | 20.48                    | 20.56                       | 20.50                     | 20.7                   |
| 15              | 256QAM     | 1       | 37        | 20.40                    | 20.51                       | 20.43                     |                        |
| 15              | 256QAM     | 1       | 74        | 20.44                    | 20.48                       | 20.02                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.38                    | 20.21                       | 20.26                     | 20.7                   |
| 15              | 256QAM     | 36      | 20        | 20.43                    | 20.24                       | 20.27                     |                        |
| 15              | 256QAM     | 36      | 39        | 20.19                    | 20.33                       | 20.26                     |                        |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 20.46  | 20.26  | 20.25  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 133172 | 133297 | 133422 |                        |
| Frequency (MHz) |        |    |    | 668    | 680.5  | 693    |                        |
| 10              | QPSK   | 1  | 0  | 25.00  | 24.86  | 24.96  | 25.7                   |
| 10              | QPSK   | 1  | 25 | 24.87  | 24.74  | 24.71  |                        |
| 10              | QPSK   | 1  | 49 | 24.76  | 24.84  | 24.71  |                        |
| 10              | QPSK   | 25 | 0  | 24.15  | 23.87  | 24.04  | 24.7                   |
| 10              | QPSK   | 25 | 12 | 23.97  | 23.88  | 23.97  |                        |
| 10              | QPSK   | 25 | 25 | 23.88  | 23.84  | 23.92  |                        |
| 10              | QPSK   | 50 | 0  | 23.89  | 23.90  | 23.76  |                        |
| 10              | 16QAM  | 1  | 0  | 24.20  | 24.18  | 24.30  | 24.7                   |
| 10              | 16QAM  | 1  | 25 | 24.10  | 24.03  | 24.03  |                        |
| 10              | 16QAM  | 1  | 49 | 24.20  | 23.97  | 23.98  |                        |
| 10              | 16QAM  | 25 | 0  | 22.92  | 22.84  | 22.84  | 23.7                   |
| 10              | 16QAM  | 25 | 12 | 22.95  | 22.94  | 22.83  |                        |
| 10              | 16QAM  | 25 | 25 | 22.97  | 22.86  | 22.93  |                        |
| 10              | 16QAM  | 50 | 0  | 22.87  | 22.77  | 22.75  |                        |
| 10              | 64QAM  | 1  | 0  | 22.96  | 23.00  | 23.10  | 23.7                   |
| 10              | 64QAM  | 1  | 25 | 22.86  | 23.09  | 23.12  |                        |
| 10              | 64QAM  | 1  | 49 | 23.01  | 22.90  | 22.70  |                        |
| 10              | 64QAM  | 25 | 0  | 22.12  | 21.90  | 21.86  | 22.7                   |
| 10              | 64QAM  | 25 | 12 | 21.92  | 21.98  | 22.02  |                        |
| 10              | 64QAM  | 25 | 25 | 21.81  | 21.92  | 21.81  |                        |
| 10              | 64QAM  | 50 | 0  | 22.03  | 21.81  | 21.88  |                        |
| 10              | 256QAM | 1  | 0  | 20.51  | 20.55  | 20.43  | 20.7                   |
| 10              | 256QAM | 1  | 25 | 20.38  | 20.47  | 20.34  |                        |
| 10              | 256QAM | 1  | 49 | 20.35  | 20.36  | 20.09  |                        |
| 10              | 256QAM | 25 | 0  | 20.40  | 20.27  | 20.34  | 20.7                   |
| 10              | 256QAM | 25 | 12 | 20.41  | 20.30  | 20.40  |                        |
| 10              | 256QAM | 25 | 25 | 20.33  | 20.29  | 20.27  |                        |
| 10              | 256QAM | 50 | 0  | 20.47  | 20.37  | 20.41  |                        |
| Channel         |        |    |    | 133147 | 133297 | 133447 | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 665.5  | 680.5  | 695.5  |                        |
| 5               | QPSK   | 1  | 0  | 25.01  | 24.93  | 24.98  | 25.7                   |
| 5               | QPSK   | 1  | 12 | 24.75  | 24.85  | 24.71  |                        |
| 5               | QPSK   | 1  | 24 | 24.72  | 24.84  | 24.69  |                        |
| 5               | QPSK   | 12 | 0  | 24.14  | 23.92  | 23.95  | 24.7                   |
| 5               | QPSK   | 12 | 7  | 24.04  | 24.00  | 23.85  |                        |
| 5               | QPSK   | 12 | 13 | 23.87  | 23.99  | 24.00  |                        |
| 5               | QPSK   | 25 | 0  | 23.90  | 23.94  | 23.79  |                        |
| 5               | 16QAM  | 1  | 0  | 24.09  | 24.27  | 24.24  | 24.7                   |
| 5               | 16QAM  | 1  | 12 | 24.20  | 24.12  | 24.11  |                        |
| 5               | 16QAM  | 1  | 24 | 24.16  | 24.04  | 23.95  |                        |
| 5               | 16QAM  | 12 | 0  | 22.98  | 22.95  | 22.97  | 23.7                   |
| 5               | 16QAM  | 12 | 7  | 23.04  | 22.89  | 22.89  |                        |
| 5               | 16QAM  | 12 | 13 | 22.98  | 22.91  | 22.81  |                        |
| 5               | 16QAM  | 25 | 0  | 23.00  | 22.95  | 22.75  |                        |
| 5               | 64QAM  | 1  | 0  | 22.97  | 22.96  | 23.14  | 23.7                   |
| 5               | 64QAM  | 1  | 12 | 22.91  | 23.14  | 23.01  |                        |
| 5               | 64QAM  | 1  | 24 | 23.02  | 22.98  | 22.76  |                        |
| 5               | 64QAM  | 12 | 0  | 21.95  | 21.88  | 21.88  | 22.7                   |
| 5               | 64QAM  | 12 | 7  | 22.02  | 21.97  | 21.96  |                        |
| 5               | 64QAM  | 12 | 13 | 21.94  | 21.80  | 21.77  |                        |
| 5               | 64QAM  | 25 | 0  | 22.03  | 21.97  | 21.79  |                        |
| 5               | 256QAM | 1  | 0  | 20.35  | 20.51  | 20.60  | 20.7                   |
| 5               | 256QAM | 1  | 12 | 20.31  | 20.32  | 20.50  |                        |
| 5               | 256QAM | 1  | 24 | 20.36  | 20.51  | 20.13  |                        |
| 5               | 256QAM | 12 | 0  | 20.45  | 20.33  | 20.20  | 20.7                   |
| 5               | 256QAM | 12 | 7  | 20.32  | 20.34  | 20.32  |                        |
| 5               | 256QAM | 12 | 13 | 20.34  | 20.35  | 20.34  |                        |
| 5               | 256QAM | 25 | 0  | 20.39  | 20.42  | 20.29  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 133222                   | 133297                      | 133372                    |                        |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |
| 20              | QPSK       | 1       | 0         | 24.18                    | 24.15                       | 24.16                     |                        |
| 20              | QPSK       | 1       | 49        | 24.09                    | 24.04                       | 24.02                     | 25.7                   |
| 20              | QPSK       | 1       | 99        | 24.07                    | 23.99                       | 23.98                     |                        |
| 20              | QPSK       | 50      | 0         | 23.25                    | 23.11                       | 23.12                     |                        |
| 20              | QPSK       | 50      | 24        | 23.15                    | 23.09                       | 23.11                     | 24.7                   |
| 20              | QPSK       | 50      | 50        | 23.09                    | 23.08                       | 23.11                     |                        |
| 20              | QPSK       | 100     | 0         | 23.08                    | 23.05                       | 23.07                     |                        |
| 20              | 16QAM      | 1       | 0         | 23.35                    | 23.39                       | 23.42                     | 24.7                   |
| 20              | 16QAM      | 1       | 49        | 23.32                    | 23.35                       | 23.31                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.34                    | 23.32                       | 23.19                     |                        |
| 20              | 16QAM      | 50      | 0         | 22.20                    | 22.14                       | 22.12                     | 23.7                   |
| 20              | 16QAM      | 50      | 24        | 22.16                    | 22.12                       | 22.11                     |                        |
| 20              | 16QAM      | 50      | 50        | 22.12                    | 22.07                       | 22.07                     |                        |
| 20              | 16QAM      | 100     | 0         | 22.15                    | 22.12                       | 22.10                     | 23.7                   |
| 20              | 64QAM      | 1       | 0         | 22.37                    | 22.40                       | 22.51                     |                        |
| 20              | 64QAM      | 1       | 49        | 22.34                    | 22.37                       | 22.32                     |                        |
| 20              | 64QAM      | 1       | 99        | 22.39                    | 22.25                       | 22.21                     | 22.7                   |
| 20              | 64QAM      | 50      | 0         | 21.22                    | 21.14                       | 21.16                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.15                    | 21.14                       | 21.13                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.12                    | 21.10                       | 21.09                     | 20.7                   |
| 20              | 64QAM      | 100     | 0         | 21.19                    | 21.14                       | 21.13                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.68                    | 19.71                       | 19.86                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.59                    | 19.72                       | 19.60                     | 20.7                   |
| 20              | 256QAM     | 1       | 99        | 19.69                    | 19.52                       | 19.50                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.48                    | 19.45                       | 19.51                     |                        |
| 20              | 256QAM     | 50      | 24        | 19.48                    | 19.49                       | 19.46                     | 20.7                   |
| 20              | 256QAM     | 50      | 50        | 19.42                    | 19.35                       | 19.40                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.50                    | 19.45                       | 19.46                     |                        |
| Channel         |            |         |           | 133197                   | 133297                      | 133397                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     |                        |
| 15              | QPSK       | 1       | 0         | 24.15                    | 24.08                       | 24.07                     |                        |
| 15              | QPSK       | 1       | 37        | 24.02                    | 23.97                       | 23.92                     | 25.7                   |
| 15              | QPSK       | 1       | 74        | 23.97                    | 23.90                       | 23.91                     |                        |
| 15              | QPSK       | 36      | 0         | 23.21                    | 23.07                       | 23.08                     | 24.7                   |
| 15              | QPSK       | 36      | 20        | 23.12                    | 23.04                       | 23.05                     |                        |
| 15              | QPSK       | 36      | 39        | 23.04                    | 23.07                       | 23.11                     |                        |
| 15              | QPSK       | 75      | 0         | 23.03                    | 22.95                       | 23.05                     | 24.7                   |
| 15              | 16QAM      | 1       | 0         | 23.30                    | 23.36                       | 23.34                     |                        |
| 15              | 16QAM      | 1       | 37        | 23.30                    | 23.31                       | 23.22                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.32                    | 23.25                       | 23.13                     | 23.7                   |
| 15              | 16QAM      | 36      | 0         | 22.15                    | 22.08                       | 22.03                     |                        |
| 15              | 16QAM      | 36      | 20        | 22.06                    | 22.03                       | 22.01                     |                        |
| 15              | 16QAM      | 36      | 39        | 22.05                    | 21.99                       | 22.01                     | 23.7                   |
| 15              | 16QAM      | 75      | 0         | 22.15                    | 22.06                       | 22.05                     |                        |
| 15              | 64QAM      | 1       | 0         | 22.37                    | 22.34                       | 22.49                     |                        |
| 15              | 64QAM      | 1       | 37        | 22.33                    | 22.30                       | 22.28                     | 23.7                   |
| 15              | 64QAM      | 1       | 74        | 22.34                    | 22.15                       | 22.18                     |                        |
| 15              | 64QAM      | 36      | 0         | 21.18                    | 21.14                       | 21.16                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.06                    | 21.07                       | 21.06                     | 22.7                   |
| 15              | 64QAM      | 36      | 39        | 21.04                    | 21.01                       | 21.09                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.16                    | 21.06                       | 21.06                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.63                    | 19.67                       | 19.84                     | 20.7                   |
| 15              | 256QAM     | 1       | 37        | 19.55                    | 19.69                       | 19.50                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.64                    | 19.45                       | 19.40                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.44                    | 19.40                       | 19.42                     | 20.7                   |
| 15              | 256QAM     | 36      | 20        | 19.42                    | 19.46                       | 19.40                     |                        |
| 15              | 256QAM     | 36      | 39        | 19.34                    | 19.32                       | 19.40                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.44  | 19.43  | 19.44  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 133172 | 133297 | 133422 |                        |
| Frequency (MHz) |        |    |    | 668    | 680.5  | 693    |                        |
| 10              | QPSK   | 1  | 0  | 24.09  | 24.11  | 24.12  | 25.7                   |
| 10              | QPSK   | 1  | 25 | 24.05  | 23.96  | 23.97  |                        |
| 10              | QPSK   | 1  | 49 | 24.06  | 23.98  | 23.98  |                        |
| 10              | QPSK   | 25 | 0  | 23.25  | 23.06  | 23.12  | 24.7                   |
| 10              | QPSK   | 25 | 12 | 23.10  | 23.03  | 23.10  |                        |
| 10              | QPSK   | 25 | 25 | 22.99  | 23.03  | 23.04  |                        |
| 10              | QPSK   | 50 | 0  | 23.02  | 23.01  | 22.98  |                        |
| 10              | 16QAM  | 1  | 0  | 23.29  | 23.38  | 23.41  | 24.7                   |
| 10              | 16QAM  | 1  | 25 | 23.24  | 23.30  | 23.21  |                        |
| 10              | 16QAM  | 1  | 49 | 23.26  | 23.27  | 23.19  |                        |
| 10              | 16QAM  | 25 | 0  | 22.16  | 22.05  | 22.03  | 23.7                   |
| 10              | 16QAM  | 25 | 12 | 22.06  | 22.10  | 22.11  |                        |
| 10              | 16QAM  | 25 | 25 | 22.11  | 22.03  | 22.01  |                        |
| 10              | 16QAM  | 50 | 0  | 22.11  | 22.08  | 22.07  |                        |
| 10              | 64QAM  | 1  | 0  | 22.34  | 22.39  | 22.51  | 23.7                   |
| 10              | 64QAM  | 1  | 25 | 22.30  | 22.34  | 22.24  |                        |
| 10              | 64QAM  | 1  | 49 | 22.33  | 22.20  | 22.21  |                        |
| 10              | 64QAM  | 25 | 0  | 21.15  | 21.06  | 21.06  | 22.7                   |
| 10              | 64QAM  | 25 | 12 | 21.12  | 21.09  | 21.05  |                        |
| 10              | 64QAM  | 25 | 25 | 21.10  | 21.10  | 20.99  |                        |
| 10              | 64QAM  | 50 | 0  | 21.17  | 21.11  | 21.06  |                        |
| 10              | 256QAM | 1  | 0  | 19.60  | 19.64  | 19.76  | 20.7                   |
| 10              | 256QAM | 1  | 25 | 19.58  | 19.67  | 19.56  |                        |
| 10              | 256QAM | 1  | 49 | 19.61  | 19.42  | 19.47  |                        |
| 10              | 256QAM | 25 | 0  | 19.41  | 19.39  | 19.49  | 20.7                   |
| 10              | 256QAM | 25 | 12 | 19.45  | 19.42  | 19.36  |                        |
| 10              | 256QAM | 25 | 25 | 19.40  | 19.26  | 19.32  |                        |
| 10              | 256QAM | 50 | 0  | 19.49  | 19.42  | 19.37  |                        |
| Channel         |        |    |    | 133147 | 133297 | 133447 | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 665.5  | 680.5  | 695.5  |                        |
| 5               | QPSK   | 1  | 0  | 24.06  | 24.08  | 24.08  | 25.7                   |
| 5               | QPSK   | 1  | 12 | 24.05  | 23.98  | 24.01  |                        |
| 5               | QPSK   | 1  | 24 | 24.05  | 23.97  | 23.90  |                        |
| 5               | QPSK   | 12 | 0  | 23.20  | 23.01  | 23.11  | 24.7                   |
| 5               | QPSK   | 12 | 7  | 23.14  | 23.03  | 23.08  |                        |
| 5               | QPSK   | 12 | 13 | 23.03  | 22.99  | 23.01  |                        |
| 5               | QPSK   | 25 | 0  | 23.07  | 23.04  | 23.01  |                        |
| 5               | 16QAM  | 1  | 0  | 23.34  | 23.32  | 23.41  | 24.7                   |
| 5               | 16QAM  | 1  | 12 | 23.25  | 23.27  | 23.30  |                        |
| 5               | 16QAM  | 1  | 24 | 23.34  | 23.24  | 23.15  |                        |
| 5               | 16QAM  | 12 | 0  | 22.14  | 22.06  | 22.06  | 23.7                   |
| 5               | 16QAM  | 12 | 7  | 22.07  | 22.05  | 22.05  |                        |
| 5               | 16QAM  | 12 | 13 | 22.06  | 21.97  | 21.98  |                        |
| 5               | 16QAM  | 25 | 0  | 22.10  | 22.10  | 22.00  |                        |
| 5               | 64QAM  | 1  | 0  | 22.35  | 22.32  | 22.47  | 23.7                   |
| 5               | 64QAM  | 1  | 12 | 22.25  | 22.28  | 22.23  |                        |
| 5               | 64QAM  | 1  | 24 | 22.39  | 22.18  | 22.11  |                        |
| 5               | 64QAM  | 12 | 0  | 21.22  | 21.13  | 21.10  | 22.7                   |
| 5               | 64QAM  | 12 | 7  | 21.11  | 21.14  | 21.07  |                        |
| 5               | 64QAM  | 12 | 13 | 21.05  | 21.10  | 20.99  |                        |
| 5               | 64QAM  | 25 | 0  | 21.09  | 21.12  | 21.10  |                        |
| 5               | 256QAM | 1  | 0  | 19.63  | 19.71  | 19.85  | 20.7                   |
| 5               | 256QAM | 1  | 12 | 19.50  | 19.62  | 19.51  |                        |
| 5               | 256QAM | 1  | 24 | 19.69  | 19.42  | 19.49  |                        |
| 5               | 256QAM | 12 | 0  | 19.46  | 19.37  | 19.46  | 20.7                   |
| 5               | 256QAM | 12 | 7  | 19.48  | 19.42  | 19.38  |                        |
| 5               | 256QAM | 12 | 13 | 19.35  | 19.25  | 19.39  |                        |
| 5               | 256QAM | 25 | 0  | 19.46  | 19.37  | 19.36  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 133222                   | 133297                      | 133372                    |                        |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |
| 20              | QPSK       | 1       | 0         | 25.07                    | 25.05                       | 25.04                     |                        |
| 20              | QPSK       | 1       | 49        | 24.94                    | 24.89                       | 24.86                     | 25.7                   |
| 20              | QPSK       | 1       | 99        | 24.89                    | 24.86                       | 24.84                     |                        |
| 20              | QPSK       | 50      | 0         | 24.16                    | 24.07                       | 24.06                     |                        |
| 20              | QPSK       | 50      | 24        | 24.09                    | 24.03                       | 24.02                     | 24.7                   |
| 20              | QPSK       | 50      | 50        | 23.99                    | 23.99                       | 24.01                     |                        |
| 20              | QPSK       | 100     | 0         | 23.98                    | 23.98                       | 23.92                     |                        |
| 20              | 16QAM      | 1       | 0         | 24.25                    | 24.28                       | 24.38                     | 24.7                   |
| 20              | 16QAM      | 1       | 49        | 24.27                    | 24.22                       | 24.17                     |                        |
| 20              | 16QAM      | 1       | 99        | 24.25                    | 24.16                       | 24.07                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.06                    | 23.02                       | 23.00                     | 23.7                   |
| 20              | 16QAM      | 50      | 24        | 23.04                    | 22.99                       | 22.95                     |                        |
| 20              | 16QAM      | 50      | 50        | 22.98                    | 22.94                       | 22.94                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.00                    | 22.97                       | 22.95                     | 23.7                   |
| 20              | 64QAM      | 1       | 0         | 23.14                    | 23.16                       | 23.20                     |                        |
| 20              | 64QAM      | 1       | 49        | 23.05                    | 23.14                       | 23.15                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.07                    | 23.10                       | 22.85                     | 22.7                   |
| 20              | 64QAM      | 50      | 0         | 22.13                    | 22.06                       | 22.03                     |                        |
| 20              | 64QAM      | 50      | 24        | 22.06                    | 22.02                       | 22.02                     |                        |
| 20              | 64QAM      | 50      | 50        | 22.00                    | 21.96                       | 21.96                     | 20.7                   |
| 20              | 64QAM      | 100     | 0         | 22.04                    | 21.99                       | 21.98                     |                        |
| 20              | 256QAM     | 1       | 0         | 20.55                    | 20.57                       | 20.61                     |                        |
| 20              | 256QAM     | 1       | 49        | 20.50                    | 20.52                       | 20.54                     | 20.7                   |
| 20              | 256QAM     | 1       | 99        | 20.45                    | 20.54                       | 20.21                     |                        |
| 20              | 256QAM     | 50      | 0         | 20.52                    | 20.41                       | 20.39                     |                        |
| 20              | 256QAM     | 50      | 24        | 20.48                    | 20.39                       | 20.43                     | 20.7                   |
| 20              | 256QAM     | 50      | 50        | 20.35                    | 20.38                       | 20.38                     |                        |
| 20              | 256QAM     | 100     | 0         | 20.47                    | 20.44                       | 20.41                     |                        |
| Channel         |            |         |           | 133197                   | 133297                      | 133397                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     |                        |
| 15              | QPSK       | 1       | 0         | 24.89                    | 25.04                       | 24.87                     |                        |
| 15              | QPSK       | 1       | 37        | 24.76                    | 24.82                       | 24.66                     | 25.7                   |
| 15              | QPSK       | 1       | 74        | 24.78                    | 24.66                       | 24.68                     |                        |
| 15              | QPSK       | 36      | 0         | 24.05                    | 24.01                       | 23.93                     | 24.7                   |
| 15              | QPSK       | 36      | 20        | 23.90                    | 24.00                       | 23.84                     |                        |
| 15              | QPSK       | 36      | 39        | 23.80                    | 23.89                       | 23.95                     |                        |
| 15              | QPSK       | 75      | 0         | 23.79                    | 23.95                       | 23.91                     | 24.7                   |
| 15              | 16QAM      | 1       | 0         | 24.16                    | 24.15                       | 24.30                     |                        |
| 15              | 16QAM      | 1       | 37        | 24.17                    | 24.19                       | 24.06                     |                        |
| 15              | 16QAM      | 1       | 74        | 24.06                    | 24.15                       | 24.06                     | 23.7                   |
| 15              | 16QAM      | 36      | 0         | 23.05                    | 22.94                       | 23.00                     |                        |
| 15              | 16QAM      | 36      | 20        | 22.99                    | 22.92                       | 22.77                     |                        |
| 15              | 16QAM      | 36      | 39        | 22.79                    | 22.81                       | 22.82                     | 23.7                   |
| 15              | 16QAM      | 75      | 0         | 23.00                    | 22.85                       | 22.79                     |                        |
| 15              | 64QAM      | 1       | 0         | 23.10                    | 23.02                       | 23.10                     |                        |
| 15              | 64QAM      | 1       | 37        | 23.01                    | 23.05                       | 22.95                     | 23.7                   |
| 15              | 64QAM      | 1       | 74        | 23.02                    | 23.10                       | 22.66                     |                        |
| 15              | 64QAM      | 36      | 0         | 22.13                    | 21.97                       | 21.87                     |                        |
| 15              | 64QAM      | 36      | 20        | 22.00                    | 21.94                       | 21.84                     | 22.7                   |
| 15              | 64QAM      | 36      | 39        | 21.87                    | 21.81                       | 21.84                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.84                    | 21.92                       | 21.87                     |                        |
| 15              | 256QAM     | 1       | 0         | 20.48                    | 20.56                       | 20.50                     | 20.7                   |
| 15              | 256QAM     | 1       | 37        | 20.40                    | 20.51                       | 20.43                     |                        |
| 15              | 256QAM     | 1       | 74        | 20.44                    | 20.48                       | 20.02                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.38                    | 20.21                       | 20.26                     | 20.7                   |
| 15              | 256QAM     | 36      | 20        | 20.43                    | 20.24                       | 20.27                     |                        |
| 15              | 256QAM     | 36      | 39        | 20.19                    | 20.33                       | 20.26                     |                        |



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|                 |        |    |    |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 20.46  | 20.26  | 20.25  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 133172 | 133297 | 133422 |                        |
| Frequency (MHz) |        |    |    | 668    | 680.5  | 693    |                        |
| 10              | QPSK   | 1  | 0  | 25.00  | 24.86  | 24.96  | 25.7                   |
| 10              | QPSK   | 1  | 25 | 24.87  | 24.74  | 24.71  |                        |
| 10              | QPSK   | 1  | 49 | 24.76  | 24.84  | 24.71  |                        |
| 10              | QPSK   | 25 | 0  | 24.15  | 23.87  | 24.04  | 24.7                   |
| 10              | QPSK   | 25 | 12 | 23.97  | 23.88  | 23.97  |                        |
| 10              | QPSK   | 25 | 25 | 23.88  | 23.84  | 23.92  |                        |
| 10              | QPSK   | 50 | 0  | 23.89  | 23.90  | 23.76  |                        |
| 10              | 16QAM  | 1  | 0  | 24.20  | 24.18  | 24.30  | 24.7                   |
| 10              | 16QAM  | 1  | 25 | 24.10  | 24.03  | 24.03  |                        |
| 10              | 16QAM  | 1  | 49 | 24.20  | 23.97  | 23.98  |                        |
| 10              | 16QAM  | 25 | 0  | 22.92  | 22.84  | 22.84  | 23.7                   |
| 10              | 16QAM  | 25 | 12 | 22.95  | 22.94  | 22.83  |                        |
| 10              | 16QAM  | 25 | 25 | 22.97  | 22.86  | 22.93  |                        |
| 10              | 16QAM  | 50 | 0  | 22.87  | 22.77  | 22.75  |                        |
| 10              | 64QAM  | 1  | 0  | 22.96  | 23.00  | 23.10  | 23.7                   |
| 10              | 64QAM  | 1  | 25 | 22.86  | 23.09  | 23.12  |                        |
| 10              | 64QAM  | 1  | 49 | 23.01  | 22.90  | 22.70  |                        |
| 10              | 64QAM  | 25 | 0  | 22.12  | 21.90  | 21.86  | 22.7                   |
| 10              | 64QAM  | 25 | 12 | 21.92  | 21.98  | 22.02  |                        |
| 10              | 64QAM  | 25 | 25 | 21.81  | 21.92  | 21.81  |                        |
| 10              | 64QAM  | 50 | 0  | 22.03  | 21.81  | 21.88  |                        |
| 10              | 256QAM | 1  | 0  | 20.51  | 20.55  | 20.43  | 20.7                   |
| 10              | 256QAM | 1  | 25 | 20.38  | 20.47  | 20.34  |                        |
| 10              | 256QAM | 1  | 49 | 20.35  | 20.36  | 20.09  |                        |
| 10              | 256QAM | 25 | 0  | 20.40  | 20.27  | 20.34  | 20.7                   |
| 10              | 256QAM | 25 | 12 | 20.41  | 20.30  | 20.40  |                        |
| 10              | 256QAM | 25 | 25 | 20.33  | 20.29  | 20.27  |                        |
| 10              | 256QAM | 50 | 0  | 20.47  | 20.37  | 20.41  |                        |
| Channel         |        |    |    | 133147 | 133297 | 133447 | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 665.5  | 680.5  | 695.5  |                        |
| 5               | QPSK   | 1  | 0  | 25.01  | 24.93  | 24.98  | 25.7                   |
| 5               | QPSK   | 1  | 12 | 24.75  | 24.85  | 24.71  |                        |
| 5               | QPSK   | 1  | 24 | 24.72  | 24.84  | 24.69  |                        |
| 5               | QPSK   | 12 | 0  | 24.14  | 23.92  | 23.95  | 24.7                   |
| 5               | QPSK   | 12 | 7  | 24.04  | 24.00  | 23.85  |                        |
| 5               | QPSK   | 12 | 13 | 23.87  | 23.99  | 24.00  |                        |
| 5               | QPSK   | 25 | 0  | 23.90  | 23.94  | 23.79  |                        |
| 5               | 16QAM  | 1  | 0  | 24.09  | 24.27  | 24.24  | 24.7                   |
| 5               | 16QAM  | 1  | 12 | 24.20  | 24.12  | 24.11  |                        |
| 5               | 16QAM  | 1  | 24 | 24.16  | 24.04  | 23.95  |                        |
| 5               | 16QAM  | 12 | 0  | 22.98  | 22.95  | 22.97  | 23.7                   |
| 5               | 16QAM  | 12 | 7  | 23.04  | 22.89  | 22.89  |                        |
| 5               | 16QAM  | 12 | 13 | 22.98  | 22.91  | 22.81  |                        |
| 5               | 16QAM  | 25 | 0  | 23.00  | 22.95  | 22.75  |                        |
| 5               | 64QAM  | 1  | 0  | 22.97  | 22.96  | 23.14  | 23.7                   |
| 5               | 64QAM  | 1  | 12 | 22.91  | 23.14  | 23.01  |                        |
| 5               | 64QAM  | 1  | 24 | 23.02  | 22.98  | 22.76  |                        |
| 5               | 64QAM  | 12 | 0  | 21.95  | 21.88  | 21.88  | 22.7                   |
| 5               | 64QAM  | 12 | 7  | 22.02  | 21.97  | 21.96  |                        |
| 5               | 64QAM  | 12 | 13 | 21.94  | 21.80  | 21.77  |                        |
| 5               | 64QAM  | 25 | 0  | 22.03  | 21.97  | 21.79  |                        |
| 5               | 256QAM | 1  | 0  | 20.35  | 20.51  | 20.60  | 20.7                   |
| 5               | 256QAM | 1  | 12 | 20.31  | 20.32  | 20.50  |                        |
| 5               | 256QAM | 1  | 24 | 20.36  | 20.51  | 20.13  |                        |
| 5               | 256QAM | 12 | 0  | 20.45  | 20.33  | 20.20  | 20.7                   |
| 5               | 256QAM | 12 | 7  | 20.32  | 20.34  | 20.32  |                        |
| 5               | 256QAM | 12 | 13 | 20.34  | 20.35  | 20.34  |                        |
| 5               | 256QAM | 25 | 0  | 20.39  | 20.42  | 20.29  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 133222                   | 133297                      | 133372                    |                        |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |
| 20              | QPSK       | 1       | 0         | 24.18                    | 24.15                       | 24.16                     |                        |
| 20              | QPSK       | 1       | 49        | 24.09                    | 24.04                       | 24.02                     | 25.7                   |
| 20              | QPSK       | 1       | 99        | 24.07                    | 23.99                       | 23.98                     |                        |
| 20              | QPSK       | 50      | 0         | 23.25                    | 23.11                       | 23.12                     |                        |
| 20              | QPSK       | 50      | 24        | 23.15                    | 23.09                       | 23.11                     | 24.7                   |
| 20              | QPSK       | 50      | 50        | 23.09                    | 23.08                       | 23.11                     |                        |
| 20              | QPSK       | 100     | 0         | 23.08                    | 23.05                       | 23.07                     |                        |
| 20              | 16QAM      | 1       | 0         | 23.35                    | 23.39                       | 23.42                     | 24.7                   |
| 20              | 16QAM      | 1       | 49        | 23.32                    | 23.35                       | 23.31                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.34                    | 23.32                       | 23.19                     |                        |
| 20              | 16QAM      | 50      | 0         | 22.20                    | 22.14                       | 22.12                     | 23.7                   |
| 20              | 16QAM      | 50      | 24        | 22.16                    | 22.12                       | 22.11                     |                        |
| 20              | 16QAM      | 50      | 50        | 22.12                    | 22.07                       | 22.07                     |                        |
| 20              | 16QAM      | 100     | 0         | 22.15                    | 22.12                       | 22.10                     | 23.7                   |
| 20              | 64QAM      | 1       | 0         | 22.37                    | 22.40                       | 22.51                     |                        |
| 20              | 64QAM      | 1       | 49        | 22.34                    | 22.37                       | 22.32                     |                        |
| 20              | 64QAM      | 1       | 99        | 22.39                    | 22.25                       | 22.21                     | 22.7                   |
| 20              | 64QAM      | 50      | 0         | 21.22                    | 21.14                       | 21.16                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.15                    | 21.14                       | 21.13                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.12                    | 21.10                       | 21.09                     | 20.7                   |
| 20              | 64QAM      | 100     | 0         | 21.19                    | 21.14                       | 21.13                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.68                    | 19.71                       | 19.86                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.59                    | 19.72                       | 19.60                     | 20.7                   |
| 20              | 256QAM     | 1       | 99        | 19.69                    | 19.52                       | 19.50                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.48                    | 19.45                       | 19.51                     |                        |
| 20              | 256QAM     | 50      | 24        | 19.48                    | 19.49                       | 19.46                     | 20.7                   |
| 20              | 256QAM     | 50      | 50        | 19.42                    | 19.35                       | 19.40                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.50                    | 19.45                       | 19.46                     |                        |
| Channel         |            |         |           | 133197                   | 133297                      | 133397                    |                        |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     |                        |
| 15              | QPSK       | 1       | 0         | 24.15                    | 24.08                       | 24.07                     |                        |
| 15              | QPSK       | 1       | 37        | 24.02                    | 23.97                       | 23.92                     | 25.7                   |
| 15              | QPSK       | 1       | 74        | 23.97                    | 23.90                       | 23.91                     |                        |
| 15              | QPSK       | 36      | 0         | 23.21                    | 23.07                       | 23.08                     | 24.7                   |
| 15              | QPSK       | 36      | 20        | 23.12                    | 23.04                       | 23.05                     |                        |
| 15              | QPSK       | 36      | 39        | 23.04                    | 23.07                       | 23.11                     |                        |
| 15              | QPSK       | 75      | 0         | 23.03                    | 22.95                       | 23.05                     | 24.7                   |
| 15              | 16QAM      | 1       | 0         | 23.30                    | 23.36                       | 23.34                     |                        |
| 15              | 16QAM      | 1       | 37        | 23.30                    | 23.31                       | 23.22                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.32                    | 23.25                       | 23.13                     | 23.7                   |
| 15              | 16QAM      | 36      | 0         | 22.15                    | 22.08                       | 22.03                     |                        |
| 15              | 16QAM      | 36      | 20        | 22.06                    | 22.03                       | 22.01                     |                        |
| 15              | 16QAM      | 36      | 39        | 22.05                    | 21.99                       | 22.01                     | 23.7                   |
| 15              | 16QAM      | 75      | 0         | 22.15                    | 22.06                       | 22.05                     |                        |
| 15              | 64QAM      | 1       | 0         | 22.37                    | 22.34                       | 22.49                     |                        |
| 15              | 64QAM      | 1       | 37        | 22.33                    | 22.30                       | 22.28                     | 23.7                   |
| 15              | 64QAM      | 1       | 74        | 22.34                    | 22.15                       | 22.18                     |                        |
| 15              | 64QAM      | 36      | 0         | 21.18                    | 21.14                       | 21.16                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.06                    | 21.07                       | 21.06                     | 22.7                   |
| 15              | 64QAM      | 36      | 39        | 21.04                    | 21.01                       | 21.09                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.16                    | 21.06                       | 21.06                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.63                    | 19.67                       | 19.84                     | 20.7                   |
| 15              | 256QAM     | 1       | 37        | 19.55                    | 19.69                       | 19.50                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.64                    | 19.45                       | 19.40                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.44                    | 19.40                       | 19.42                     | 20.7                   |
| 15              | 256QAM     | 36      | 20        | 19.42                    | 19.46                       | 19.40                     |                        |
| 15              | 256QAM     | 36      | 39        | 19.34                    | 19.32                       | 19.40                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.44  | 19.43  | 19.44  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 133172 | 133297 | 133422 |                        |
| Frequency (MHz) |        |    |    | 668    | 680.5  | 693    |                        |
| 10              | QPSK   | 1  | 0  | 24.09  | 24.11  | 24.12  | 25.7                   |
| 10              | QPSK   | 1  | 25 | 24.05  | 23.96  | 23.97  |                        |
| 10              | QPSK   | 1  | 49 | 24.06  | 23.98  | 23.98  |                        |
| 10              | QPSK   | 25 | 0  | 23.25  | 23.06  | 23.12  | 24.7                   |
| 10              | QPSK   | 25 | 12 | 23.10  | 23.03  | 23.10  |                        |
| 10              | QPSK   | 25 | 25 | 22.99  | 23.03  | 23.04  |                        |
| 10              | QPSK   | 50 | 0  | 23.02  | 23.01  | 22.98  |                        |
| 10              | 16QAM  | 1  | 0  | 23.29  | 23.38  | 23.41  | 24.7                   |
| 10              | 16QAM  | 1  | 25 | 23.24  | 23.30  | 23.21  |                        |
| 10              | 16QAM  | 1  | 49 | 23.26  | 23.27  | 23.19  |                        |
| 10              | 16QAM  | 25 | 0  | 22.16  | 22.05  | 22.03  | 23.7                   |
| 10              | 16QAM  | 25 | 12 | 22.06  | 22.10  | 22.11  |                        |
| 10              | 16QAM  | 25 | 25 | 22.11  | 22.03  | 22.01  |                        |
| 10              | 16QAM  | 50 | 0  | 22.11  | 22.08  | 22.07  |                        |
| 10              | 64QAM  | 1  | 0  | 22.34  | 22.39  | 22.51  | 23.7                   |
| 10              | 64QAM  | 1  | 25 | 22.30  | 22.34  | 22.24  |                        |
| 10              | 64QAM  | 1  | 49 | 22.33  | 22.20  | 22.21  |                        |
| 10              | 64QAM  | 25 | 0  | 21.15  | 21.06  | 21.06  | 22.7                   |
| 10              | 64QAM  | 25 | 12 | 21.12  | 21.09  | 21.05  |                        |
| 10              | 64QAM  | 25 | 25 | 21.10  | 21.10  | 20.99  |                        |
| 10              | 64QAM  | 50 | 0  | 21.17  | 21.11  | 21.06  |                        |
| 10              | 256QAM | 1  | 0  | 19.60  | 19.64  | 19.76  | 20.7                   |
| 10              | 256QAM | 1  | 25 | 19.58  | 19.67  | 19.56  |                        |
| 10              | 256QAM | 1  | 49 | 19.61  | 19.42  | 19.47  |                        |
| 10              | 256QAM | 25 | 0  | 19.41  | 19.39  | 19.49  | 20.7                   |
| 10              | 256QAM | 25 | 12 | 19.45  | 19.42  | 19.36  |                        |
| 10              | 256QAM | 25 | 25 | 19.40  | 19.26  | 19.32  |                        |
| 10              | 256QAM | 50 | 0  | 19.49  | 19.42  | 19.37  |                        |
| Channel         |        |    |    | 133147 | 133297 | 133447 | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 665.5  | 680.5  | 695.5  |                        |
| 5               | QPSK   | 1  | 0  | 24.06  | 24.08  | 24.08  | 25.7                   |
| 5               | QPSK   | 1  | 12 | 24.05  | 23.98  | 24.01  |                        |
| 5               | QPSK   | 1  | 24 | 24.05  | 23.97  | 23.90  |                        |
| 5               | QPSK   | 12 | 0  | 23.20  | 23.01  | 23.11  | 24.7                   |
| 5               | QPSK   | 12 | 7  | 23.14  | 23.03  | 23.08  |                        |
| 5               | QPSK   | 12 | 13 | 23.03  | 22.99  | 23.01  |                        |
| 5               | QPSK   | 25 | 0  | 23.07  | 23.04  | 23.01  |                        |
| 5               | 16QAM  | 1  | 0  | 23.34  | 23.32  | 23.41  | 24.7                   |
| 5               | 16QAM  | 1  | 12 | 23.25  | 23.27  | 23.30  |                        |
| 5               | 16QAM  | 1  | 24 | 23.34  | 23.24  | 23.15  |                        |
| 5               | 16QAM  | 12 | 0  | 22.14  | 22.06  | 22.06  | 23.7                   |
| 5               | 16QAM  | 12 | 7  | 22.07  | 22.05  | 22.05  |                        |
| 5               | 16QAM  | 12 | 13 | 22.06  | 21.97  | 21.98  |                        |
| 5               | 16QAM  | 25 | 0  | 22.10  | 22.10  | 22.00  |                        |
| 5               | 64QAM  | 1  | 0  | 22.35  | 22.32  | 22.47  | 23.7                   |
| 5               | 64QAM  | 1  | 12 | 22.25  | 22.28  | 22.23  |                        |
| 5               | 64QAM  | 1  | 24 | 22.39  | 22.18  | 22.11  |                        |
| 5               | 64QAM  | 12 | 0  | 21.22  | 21.13  | 21.10  | 22.7                   |
| 5               | 64QAM  | 12 | 7  | 21.11  | 21.14  | 21.07  |                        |
| 5               | 64QAM  | 12 | 13 | 21.05  | 21.10  | 20.99  |                        |
| 5               | 64QAM  | 25 | 0  | 21.09  | 21.12  | 21.10  |                        |
| 5               | 256QAM | 1  | 0  | 19.63  | 19.71  | 19.85  | 20.7                   |
| 5               | 256QAM | 1  | 12 | 19.50  | 19.62  | 19.51  |                        |
| 5               | 256QAM | 1  | 24 | 19.69  | 19.42  | 19.49  |                        |
| 5               | 256QAM | 12 | 0  | 19.46  | 19.37  | 19.46  | 20.7                   |
| 5               | 256QAM | 12 | 7  | 19.48  | 19.42  | 19.38  |                        |
| 5               | 256QAM | 12 | 13 | 19.35  | 19.25  | 19.39  |                        |
| 5               | 256QAM | 25 | 0  | 19.46  | 19.37  | 19.36  |                        |



&lt;LTE Band 71\_Ant 1\_Index 11&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 133222                   | 133297                      | 133372                    |                        |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |
| 20              | QPSK       | 1       | 0         | 25.07                    | 25.05                       | 25.04                     |                        |
| 20              | QPSK       | 1       | 49        | 24.94                    | 24.89                       | 24.86                     | 25.7                   |
| 20              | QPSK       | 1       | 99        | 24.89                    | 24.86                       | 24.84                     |                        |
| 20              | QPSK       | 50      | 0         | 24.16                    | 24.07                       | 24.06                     |                        |
| 20              | QPSK       | 50      | 24        | 24.09                    | 24.03                       | 24.02                     | 24.7                   |
| 20              | QPSK       | 50      | 50        | 23.99                    | 23.99                       | 24.01                     |                        |
| 20              | QPSK       | 100     | 0         | 23.98                    | 23.98                       | 23.92                     |                        |
| 20              | 16QAM      | 1       | 0         | 24.25                    | 24.28                       | 24.38                     | 24.7                   |
| 20              | 16QAM      | 1       | 49        | 24.27                    | 24.22                       | 24.17                     |                        |
| 20              | 16QAM      | 1       | 99        | 24.25                    | 24.16                       | 24.07                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.06                    | 23.02                       | 23.00                     | 23.7                   |
| 20              | 16QAM      | 50      | 24        | 23.04                    | 22.99                       | 22.95                     |                        |
| 20              | 16QAM      | 50      | 50        | 22.98                    | 22.94                       | 22.94                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.00                    | 22.97                       | 22.95                     | 23.7                   |
| 20              | 64QAM      | 1       | 0         | 23.14                    | 23.16                       | 23.20                     |                        |
| 20              | 64QAM      | 1       | 49        | 23.05                    | 23.14                       | 23.15                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.07                    | 23.10                       | 22.85                     | 22.7                   |
| 20              | 64QAM      | 50      | 0         | 22.13                    | 22.06                       | 22.03                     |                        |
| 20              | 64QAM      | 50      | 24        | 22.06                    | 22.02                       | 22.02                     |                        |
| 20              | 64QAM      | 50      | 50        | 22.00                    | 21.96                       | 21.96                     | 20.7                   |
| 20              | 64QAM      | 100     | 0         | 22.04                    | 21.99                       | 21.98                     |                        |
| 20              | 256QAM     | 1       | 0         | 20.55                    | 20.57                       | 20.61                     |                        |
| 20              | 256QAM     | 1       | 49        | 20.50                    | 20.52                       | 20.54                     | 20.7                   |
| 20              | 256QAM     | 1       | 99        | 20.45                    | 20.54                       | 20.21                     |                        |
| 20              | 256QAM     | 50      | 0         | 20.52                    | 20.41                       | 20.39                     |                        |
| 20              | 256QAM     | 50      | 24        | 20.48                    | 20.39                       | 20.43                     | 20.7                   |
| 20              | 256QAM     | 50      | 50        | 20.35                    | 20.38                       | 20.38                     |                        |
| 20              | 256QAM     | 100     | 0         | 20.47                    | 20.44                       | 20.41                     |                        |
| Channel         |            |         |           | 133197                   | 133297                      | 133397                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     |                        |
| 15              | QPSK       | 1       | 0         | 24.89                    | 25.04                       | 24.87                     |                        |
| 15              | QPSK       | 1       | 37        | 24.76                    | 24.82                       | 24.66                     | 25.7                   |
| 15              | QPSK       | 1       | 74        | 24.78                    | 24.66                       | 24.68                     |                        |
| 15              | QPSK       | 36      | 0         | 24.05                    | 24.01                       | 23.93                     |                        |
| 15              | QPSK       | 36      | 20        | 23.90                    | 24.00                       | 23.84                     | 24.7                   |
| 15              | QPSK       | 36      | 39        | 23.80                    | 23.89                       | 23.95                     |                        |
| 15              | QPSK       | 75      | 0         | 23.79                    | 23.95                       | 23.91                     |                        |
| 15              | 16QAM      | 1       | 0         | 24.16                    | 24.15                       | 24.30                     | 24.7                   |
| 15              | 16QAM      | 1       | 37        | 24.17                    | 24.19                       | 24.06                     |                        |
| 15              | 16QAM      | 1       | 74        | 24.06                    | 24.15                       | 24.06                     |                        |
| 15              | 16QAM      | 36      | 0         | 23.05                    | 22.94                       | 23.00                     | 23.7                   |
| 15              | 16QAM      | 36      | 20        | 22.99                    | 22.92                       | 22.77                     |                        |
| 15              | 16QAM      | 36      | 39        | 22.79                    | 22.81                       | 22.82                     |                        |
| 15              | 16QAM      | 75      | 0         | 23.00                    | 22.85                       | 22.79                     | 23.7                   |
| 15              | 64QAM      | 1       | 0         | 23.10                    | 23.02                       | 23.10                     |                        |
| 15              | 64QAM      | 1       | 37        | 23.01                    | 23.05                       | 22.95                     |                        |
| 15              | 64QAM      | 1       | 74        | 23.02                    | 23.10                       | 22.66                     | 22.7                   |
| 15              | 64QAM      | 36      | 0         | 22.13                    | 21.97                       | 21.87                     |                        |
| 15              | 64QAM      | 36      | 20        | 22.00                    | 21.94                       | 21.84                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.87                    | 21.81                       | 21.84                     | 20.7                   |
| 15              | 64QAM      | 75      | 0         | 21.84                    | 21.92                       | 21.87                     |                        |
| 15              | 256QAM     | 1       | 0         | 20.48                    | 20.56                       | 20.50                     |                        |
| 15              | 256QAM     | 1       | 37        | 20.40                    | 20.51                       | 20.43                     | 20.7                   |
| 15              | 256QAM     | 1       | 74        | 20.44                    | 20.48                       | 20.02                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.38                    | 20.21                       | 20.26                     |                        |
| 15              | 256QAM     | 36      | 20        | 20.43                    | 20.24                       | 20.27                     | 20.7                   |
| 15              | 256QAM     | 36      | 39        | 20.19                    | 20.33                       | 20.26                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 20.46  | 20.26  | 20.25  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 133172 | 133297 | 133422 |                        |
| Frequency (MHz) |        |    |    | 668    | 680.5  | 693    |                        |
| 10              | QPSK   | 1  | 0  | 25.00  | 24.86  | 24.96  | 25.7                   |
| 10              | QPSK   | 1  | 25 | 24.87  | 24.74  | 24.71  |                        |
| 10              | QPSK   | 1  | 49 | 24.76  | 24.84  | 24.71  |                        |
| 10              | QPSK   | 25 | 0  | 24.15  | 23.87  | 24.04  | 24.7                   |
| 10              | QPSK   | 25 | 12 | 23.97  | 23.88  | 23.97  |                        |
| 10              | QPSK   | 25 | 25 | 23.88  | 23.84  | 23.92  |                        |
| 10              | QPSK   | 50 | 0  | 23.89  | 23.90  | 23.76  | 24.7                   |
| 10              | 16QAM  | 1  | 0  | 24.20  | 24.18  | 24.30  |                        |
| 10              | 16QAM  | 1  | 25 | 24.10  | 24.03  | 24.03  |                        |
| 10              | 16QAM  | 1  | 49 | 24.20  | 23.97  | 23.98  | 23.7                   |
| 10              | 16QAM  | 25 | 0  | 22.92  | 22.84  | 22.84  |                        |
| 10              | 16QAM  | 25 | 12 | 22.95  | 22.94  | 22.83  |                        |
| 10              | 16QAM  | 25 | 25 | 22.97  | 22.86  | 22.93  | 23.7                   |
| 10              | 16QAM  | 50 | 0  | 22.87  | 22.77  | 22.75  |                        |
| 10              | 64QAM  | 1  | 0  | 22.96  | 23.00  | 23.10  |                        |
| 10              | 64QAM  | 1  | 25 | 22.86  | 23.09  | 23.12  | 23.7                   |
| 10              | 64QAM  | 1  | 49 | 23.01  | 22.90  | 22.70  |                        |
| 10              | 64QAM  | 25 | 0  | 22.12  | 21.90  | 21.86  |                        |
| 10              | 64QAM  | 25 | 12 | 21.92  | 21.98  | 22.02  | 22.7                   |
| 10              | 64QAM  | 25 | 25 | 21.81  | 21.92  | 21.81  |                        |
| 10              | 64QAM  | 50 | 0  | 22.03  | 21.81  | 21.88  |                        |
| 10              | 256QAM | 1  | 0  | 20.51  | 20.55  | 20.43  | 20.7                   |
| 10              | 256QAM | 1  | 25 | 20.38  | 20.47  | 20.34  |                        |
| 10              | 256QAM | 1  | 49 | 20.35  | 20.36  | 20.09  |                        |
| 10              | 256QAM | 25 | 0  | 20.40  | 20.27  | 20.34  | 20.7                   |
| 10              | 256QAM | 25 | 12 | 20.41  | 20.30  | 20.40  |                        |
| 10              | 256QAM | 25 | 25 | 20.33  | 20.29  | 20.27  |                        |
| 10              | 256QAM | 50 | 0  | 20.47  | 20.37  | 20.41  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 133147 | 133297 | 133447 |                        |
| Frequency (MHz) |        |    |    | 665.5  | 680.5  | 695.5  |                        |
| 5               | QPSK   | 1  | 0  | 25.01  | 24.93  | 24.98  | 25.7                   |
| 5               | QPSK   | 1  | 12 | 24.75  | 24.85  | 24.71  |                        |
| 5               | QPSK   | 1  | 24 | 24.72  | 24.84  | 24.69  |                        |
| 5               | QPSK   | 12 | 0  | 24.14  | 23.92  | 23.95  | 24.7                   |
| 5               | QPSK   | 12 | 7  | 24.04  | 24.00  | 23.85  |                        |
| 5               | QPSK   | 12 | 13 | 23.87  | 23.99  | 24.00  |                        |
| 5               | QPSK   | 25 | 0  | 23.90  | 23.94  | 23.79  | 24.7                   |
| 5               | 16QAM  | 1  | 0  | 24.09  | 24.27  | 24.24  |                        |
| 5               | 16QAM  | 1  | 12 | 24.20  | 24.12  | 24.11  |                        |
| 5               | 16QAM  | 1  | 24 | 24.16  | 24.04  | 23.95  | 23.7                   |
| 5               | 16QAM  | 12 | 0  | 22.98  | 22.95  | 22.97  |                        |
| 5               | 16QAM  | 12 | 7  | 23.04  | 22.89  | 22.89  |                        |
| 5               | 16QAM  | 12 | 13 | 22.98  | 22.91  | 22.81  | 23.7                   |
| 5               | 16QAM  | 25 | 0  | 23.00  | 22.95  | 22.75  |                        |
| 5               | 64QAM  | 1  | 0  | 22.97  | 22.96  | 23.14  |                        |
| 5               | 64QAM  | 1  | 12 | 22.91  | 23.14  | 23.01  | 22.7                   |
| 5               | 64QAM  | 1  | 24 | 23.02  | 22.98  | 22.76  |                        |
| 5               | 64QAM  | 12 | 0  | 21.95  | 21.88  | 21.88  |                        |
| 5               | 64QAM  | 12 | 7  | 22.02  | 21.97  | 21.96  | 20.7                   |
| 5               | 64QAM  | 12 | 13 | 21.94  | 21.80  | 21.77  |                        |
| 5               | 64QAM  | 25 | 0  | 22.03  | 21.97  | 21.79  |                        |
| 5               | 256QAM | 1  | 0  | 20.35  | 20.51  | 20.60  | 20.7                   |
| 5               | 256QAM | 1  | 12 | 20.31  | 20.32  | 20.50  |                        |
| 5               | 256QAM | 1  | 24 | 20.36  | 20.51  | 20.13  |                        |
| 5               | 256QAM | 12 | 0  | 20.45  | 20.33  | 20.20  | 20.7                   |
| 5               | 256QAM | 12 | 7  | 20.32  | 20.34  | 20.32  |                        |
| 5               | 256QAM | 12 | 13 | 20.34  | 20.35  | 20.34  |                        |
| 5               | 256QAM | 25 | 0  | 20.39  | 20.42  | 20.29  |                        |

## <TDD LTE SAR Measurement>

TEL : 886-3-327-3456

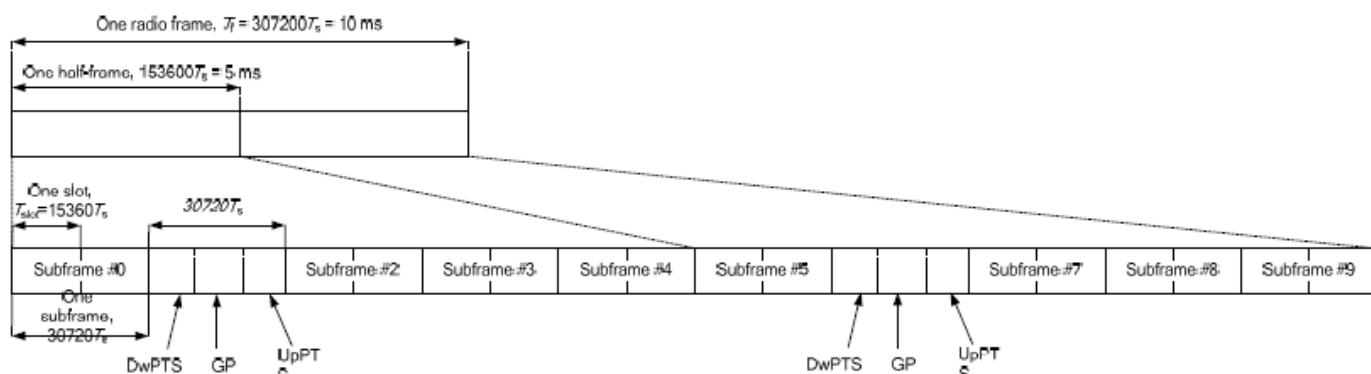
FAX : 886-3-328-4978

Template version: 240125

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Base station simulator was used for LTE output power measurements and SAR testing.



**Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).**

**Table 4.2-2: Uplink-downlink configurations.**

| Uplink-downlink configuration | Downlink-to-Uplink Switch-point periodicity | Subframe number |   |   |   |   |   |   |   |   |   |
|-------------------------------|---------------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
|                               |                                             | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | U |
| 1                             | 5 ms                                        | D               | S | U | U | D | D | S | U | U | D |
| 2                             | 5 ms                                        | D               | S | U | D | D | D | S | U | D | D |
| 3                             | 10 ms                                       | D               | S | U | U | U | D | D | D | D | D |
| 4                             | 10 ms                                       | D               | S | U | U | D | D | D | D | D | D |
| 5                             | 10 ms                                       | D               | S | U | D | D | D | D | D | D | D |
| 6                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | D |

**Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).**

| Special subframe configuration | Normal cyclic prefix in downlink |                                |                                  | Extended cyclic prefix in downlink |                                |                                  |
|--------------------------------|----------------------------------|--------------------------------|----------------------------------|------------------------------------|--------------------------------|----------------------------------|
|                                | DwPTS                            | UpPTS                          |                                  | DwPTS                              | UpPTS                          |                                  |
|                                |                                  | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |                                    | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| 0                              | $6592 \cdot T_s$                 | $2192 \cdot T_s$               | $2560 \cdot T_s$                 | $7680 \cdot T_s$                   | $2192 \cdot T_s$               | $2560 \cdot T_s$                 |
| 1                              | $19760 \cdot T_s$                |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 2                              | $21952 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 3                              | $24144 \cdot T_s$                |                                |                                  | $25600 \cdot T_s$                  |                                |                                  |
| 4                              | $26336 \cdot T_s$                | $4384 \cdot T_s$               | $5120 \cdot T_s$                 | $7680 \cdot T_s$                   | $4384 \cdot T_s$               | $5120 \cdot T_s$                 |
| 5                              | $6592 \cdot T_s$                 |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 6                              | $19760 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 7                              | $21952 \cdot T_s$                |                                |                                  | $12800 \cdot T_s$                  |                                |                                  |
| 8                              | $24144 \cdot T_s$                |                                |                                  | -                                  | -                              | -                                |
| 9                              | $13168 \cdot T_s$                |                                |                                  | -                                  | -                              | -                                |

| Special subframe (30720·T <sub>s</sub> ): Normal cyclic prefix in downlink (UpPTS) |                                |                                |                                  |
|------------------------------------------------------------------------------------|--------------------------------|--------------------------------|----------------------------------|
|                                                                                    | Special subframe configuration | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| Uplink duty factor in one special subframe                                         | 0~4                            | 7.13%                          | 8.33%                            |
|                                                                                    | 5~9                            | 14.3%                          | 16.7%                            |

| Special subframe(30720·T <sub>s</sub> ): Extended cyclic prefix in downlink (UpPTS) |                                |                                |                                  |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|----------------------------------|
|                                                                                     | Special subframe configuration | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| Uplink duty factor in one special subframe                                          | 0~3                            | 7.13%                          | 8.33%                            |
|                                                                                     | 4~7                            | 14.3%                          | 16.7%                            |

The highest duty factor is resulted from:

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(3+0.143)/5 = 62.9\%$
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix  $63.3\%/62.9\% = 1.006$  is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
- vi. The device supports Power Class 3 uplink-downlink configurations 0 and 6, and Power Class 2 uplink-downlink configurations 1 to 5 operations for LTE Band 41.
- vii. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1, for Power Class 3 operation is 63.3% using UL-DL configuration 0. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR among all exposure condition.



&lt;LTE Band 38\_Ant 2\_Index 7/8&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 24.22                    | 24.23                       | 24.25                     |                        |
| 20              | QPSK       | 1       | 49        | 24.21                    | 24.21                       | 24.21                     | 25                     |
| 20              | QPSK       | 1       | 99        | 24.20                    | 24.22                       | 24.21                     |                        |
| 20              | QPSK       | 50      | 0         | 23.23                    | 23.24                       | 23.25                     |                        |
| 20              | QPSK       | 50      | 24        | 23.20                    | 23.18                       | 23.21                     | 24                     |
| 20              | QPSK       | 50      | 50        | 23.20                    | 23.19                       | 23.23                     |                        |
| 20              | QPSK       | 100     | 0         | 23.21                    | 23.22                       | 23.24                     |                        |
| 20              | 16QAM      | 1       | 0         | 23.36                    | 23.36                       | 23.38                     | 24                     |
| 20              | 16QAM      | 1       | 49        | 23.29                    | 23.31                       | 23.34                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.36                    | 23.33                       | 23.31                     |                        |
| 20              | 16QAM      | 50      | 0         | 22.19                    | 22.18                       | 22.18                     | 23                     |
| 20              | 16QAM      | 50      | 24        | 22.22                    | 22.20                       | 22.18                     |                        |
| 20              | 16QAM      | 50      | 50        | 22.21                    | 22.19                       | 22.20                     |                        |
| 20              | 16QAM      | 100     | 0         | 22.25                    | 22.25                       | 22.28                     | 23                     |
| 20              | 64QAM      | 1       | 0         | 22.05                    | 22.02                       | 21.98                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.98                    | 22.01                       | 21.96                     |                        |
| 20              | 64QAM      | 1       | 99        | 22.07                    | 22.07                       | 21.99                     | 22                     |
| 20              | 64QAM      | 50      | 0         | 21.22                    | 21.20                       | 21.19                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.22                    | 21.20                       | 21.19                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.22                    | 21.22                       | 21.20                     | 20                     |
| 20              | 64QAM      | 100     | 0         | 21.23                    | 21.24                       | 21.22                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.48                    | 19.39                       | 19.40                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.36                    | 19.39                       | 19.35                     | 20                     |
| 20              | 256QAM     | 1       | 99        | 19.52                    | 19.43                       | 19.43                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.59                    | 19.64                       | 19.60                     | 20                     |
| 20              | 256QAM     | 50      | 24        | 19.60                    | 19.60                       | 19.55                     |                        |
| 20              | 256QAM     | 50      | 50        | 19.59                    | 19.58                       | 19.56                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.62                    | 19.68                       | 19.59                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     |                        |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 24.19                    | 24.11                       | 24.16                     | 25                     |
| 15              | QPSK       | 1       | 37        | 24.05                    | 24.21                       | 24.06                     |                        |
| 15              | QPSK       | 1       | 74        | 24.13                    | 24.11                       | 24.18                     |                        |
| 15              | QPSK       | 36      | 0         | 23.17                    | 23.16                       | 23.21                     | 24                     |
| 15              | QPSK       | 36      | 20        | 23.15                    | 23.00                       | 23.18                     |                        |
| 15              | QPSK       | 36      | 39        | 23.12                    | 23.03                       | 23.03                     |                        |
| 15              | QPSK       | 75      | 0         | 23.01                    | 23.06                       | 23.13                     | 24                     |
| 15              | 16QAM      | 1       | 0         | 23.16                    | 23.27                       | 23.30                     |                        |
| 15              | 16QAM      | 1       | 37        | 23.15                    | 23.31                       | 23.22                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.22                    | 23.17                       | 23.16                     | 23                     |
| 15              | 16QAM      | 36      | 0         | 22.07                    | 22.06                       | 22.02                     |                        |
| 15              | 16QAM      | 36      | 20        | 22.05                    | 22.06                       | 22.17                     |                        |
| 15              | 16QAM      | 36      | 39        | 22.11                    | 21.99                       | 22.14                     | 23                     |
| 15              | 16QAM      | 75      | 0         | 22.13                    | 22.18                       | 22.18                     |                        |
| 15              | 64QAM      | 1       | 0         | 22.05                    | 21.91                       | 21.84                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.79                    | 21.96                       | 21.80                     | 23                     |
| 15              | 64QAM      | 1       | 74        | 22.07                    | 21.94                       | 21.91                     |                        |
| 15              | 64QAM      | 36      | 0         | 21.02                    | 21.10                       | 21.16                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.16                    | 21.19                       | 21.06                     | 22                     |
| 15              | 64QAM      | 36      | 39        | 21.13                    | 21.20                       | 21.14                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.06                    | 21.07                       | 21.11                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.31                    | 19.33                       | 19.26                     | 20                     |
| 15              | 256QAM     | 1       | 37        | 19.34                    | 19.35                       | 19.16                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.46                    | 19.38                       | 19.30                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.47                    | 19.56                       | 19.43                     | 20                     |
| 15              | 256QAM     | 36      | 20        | 19.45                    | 19.51                       | 19.52                     |                        |
| 15              | 256QAM     | 36      | 39        | 19.39                    | 19.49                       | 19.46                     |                        |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.62  | 19.53 | 19.48  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 24.20  | 24.05 | 24.22  | 25                     |
| 10              | QPSK   | 1  | 25 | 24.03  | 24.01 | 24.15  |                        |
| 10              | QPSK   | 1  | 49 | 24.03  | 24.13 | 24.20  |                        |
| 10              | QPSK   | 25 | 0  | 23.22  | 23.09 | 23.21  | 24                     |
| 10              | QPSK   | 25 | 12 | 23.10  | 23.11 | 23.20  |                        |
| 10              | QPSK   | 25 | 25 | 23.04  | 23.08 | 23.14  |                        |
| 10              | QPSK   | 50 | 0  | 23.12  | 23.06 | 23.14  | 24                     |
| 10              | 16QAM  | 1  | 0  | 23.20  | 23.30 | 23.28  |                        |
| 10              | 16QAM  | 1  | 25 | 23.10  | 23.31 | 23.26  |                        |
| 10              | 16QAM  | 1  | 49 | 23.36  | 23.33 | 23.16  | 23                     |
| 10              | 16QAM  | 25 | 0  | 22.17  | 22.06 | 22.01  |                        |
| 10              | 16QAM  | 25 | 12 | 22.04  | 22.16 | 22.02  |                        |
| 10              | 16QAM  | 25 | 25 | 22.09  | 22.10 | 22.16  | 23                     |
| 10              | 16QAM  | 50 | 0  | 22.21  | 22.16 | 22.24  |                        |
| 10              | 64QAM  | 1  | 0  | 22.01  | 21.97 | 21.95  |                        |
| 10              | 64QAM  | 1  | 25 | 21.90  | 21.98 | 21.85  | 23                     |
| 10              | 64QAM  | 1  | 49 | 21.99  | 22.03 | 21.80  |                        |
| 10              | 64QAM  | 25 | 0  | 21.04  | 21.08 | 21.05  |                        |
| 10              | 64QAM  | 25 | 12 | 21.10  | 21.03 | 21.15  | 22                     |
| 10              | 64QAM  | 25 | 25 | 21.09  | 21.11 | 21.10  |                        |
| 10              | 64QAM  | 50 | 0  | 21.07  | 21.20 | 21.04  |                        |
| 10              | 256QAM | 1  | 0  | 19.34  | 19.30 | 19.28  | 20                     |
| 10              | 256QAM | 1  | 25 | 19.29  | 19.28 | 19.16  |                        |
| 10              | 256QAM | 1  | 49 | 19.44  | 19.34 | 19.27  |                        |
| 10              | 256QAM | 25 | 0  | 19.55  | 19.63 | 19.51  | 20                     |
| 10              | 256QAM | 25 | 12 | 19.48  | 19.52 | 19.51  |                        |
| 10              | 256QAM | 25 | 25 | 19.40  | 19.44 | 19.38  |                        |
| 10              | 256QAM | 50 | 0  | 19.48  | 19.58 | 19.57  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 24.15  | 24.15 | 24.12  | 25                     |
| 5               | QPSK   | 1  | 12 | 24.08  | 24.10 | 24.03  |                        |
| 5               | QPSK   | 1  | 24 | 24.14  | 24.08 | 24.16  |                        |
| 5               | QPSK   | 12 | 0  | 23.03  | 23.15 | 23.16  | 24                     |
| 5               | QPSK   | 12 | 7  | 23.16  | 23.00 | 23.12  |                        |
| 5               | QPSK   | 12 | 13 | 23.15  | 23.15 | 23.22  |                        |
| 5               | QPSK   | 25 | 0  | 23.21  | 23.14 | 23.12  | 24                     |
| 5               | 16QAM  | 1  | 0  | 23.21  | 23.24 | 23.27  |                        |
| 5               | 16QAM  | 1  | 12 | 23.13  | 23.22 | 23.17  |                        |
| 5               | 16QAM  | 1  | 24 | 23.33  | 23.15 | 23.30  | 23                     |
| 5               | 16QAM  | 12 | 0  | 22.16  | 22.15 | 22.01  |                        |
| 5               | 16QAM  | 12 | 7  | 22.03  | 22.07 | 22.06  |                        |
| 5               | 16QAM  | 12 | 13 | 22.14  | 22.19 | 22.16  | 23                     |
| 5               | 16QAM  | 25 | 0  | 22.10  | 22.05 | 22.16  |                        |
| 5               | 64QAM  | 1  | 0  | 22.01  | 21.85 | 21.97  |                        |
| 5               | 64QAM  | 1  | 12 | 21.86  | 21.99 | 21.79  | 23                     |
| 5               | 64QAM  | 1  | 24 | 21.92  | 22.05 | 21.82  |                        |
| 5               | 64QAM  | 12 | 0  | 21.16  | 21.20 | 21.09  |                        |
| 5               | 64QAM  | 12 | 7  | 21.12  | 21.07 | 21.09  | 22                     |
| 5               | 64QAM  | 12 | 13 | 21.15  | 21.03 | 21.17  |                        |
| 5               | 64QAM  | 25 | 0  | 21.14  | 21.08 | 21.04  |                        |
| 5               | 256QAM | 1  | 0  | 19.33  | 19.36 | 19.30  | 20                     |
| 5               | 256QAM | 1  | 12 | 19.21  | 19.29 | 19.25  |                        |
| 5               | 256QAM | 1  | 24 | 19.42  | 19.28 | 19.24  |                        |
| 5               | 256QAM | 12 | 0  | 19.54  | 19.54 | 19.45  | 20                     |
| 5               | 256QAM | 12 | 7  | 19.40  | 19.56 | 19.50  |                        |
| 5               | 256QAM | 12 | 13 | 19.40  | 19.42 | 19.45  |                        |
| 5               | 256QAM | 25 | 0  | 19.43  | 19.67 | 19.59  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 20.07                    | 19.96                       | 19.94                     |                        |
| 20              | QPSK       | 1       | 49        | 19.95                    | 19.96                       | 19.86                     | 20.3                   |
| 20              | QPSK       | 1       | 99        | 19.92                    | 19.88                       | 19.89                     |                        |
| 20              | QPSK       | 50      | 0         | 20.02                    | 19.90                       | 19.81                     |                        |
| 20              | QPSK       | 50      | 24        | 19.89                    | 19.85                       | 19.76                     | 20.3                   |
| 20              | QPSK       | 50      | 50        | 19.92                    | 19.89                       | 19.78                     |                        |
| 20              | QPSK       | 100     | 0         | 19.95                    | 19.85                       | 19.94                     |                        |
| 20              | 16QAM      | 1       | 0         | 20.06                    | 19.85                       | 19.82                     | 20.3                   |
| 20              | 16QAM      | 1       | 49        | 19.91                    | 19.95                       | 19.90                     |                        |
| 20              | 16QAM      | 1       | 99        | 19.87                    | 19.78                       | 19.83                     |                        |
| 20              | 16QAM      | 50      | 0         | 20.01                    | 19.90                       | 19.74                     | 20.3                   |
| 20              | 16QAM      | 50      | 24        | 19.91                    | 19.78                       | 19.93                     |                        |
| 20              | 16QAM      | 50      | 50        | 19.93                    | 19.77                       | 19.75                     |                        |
| 20              | 16QAM      | 100     | 0         | 19.97                    | 19.94                       | 19.94                     | 20.3                   |
| 20              | 64QAM      | 1       | 0         | 19.95                    | 19.93                       | 19.87                     |                        |
| 20              | 64QAM      | 1       | 49        | 20.06                    | 19.89                       | 19.94                     |                        |
| 20              | 64QAM      | 1       | 99        | 20.02                    | 19.82                       | 19.93                     | 20.3                   |
| 20              | 64QAM      | 50      | 0         | 19.99                    | 19.91                       | 19.80                     |                        |
| 20              | 64QAM      | 50      | 24        | 20.04                    | 19.78                       | 19.76                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.06                    | 19.95                       | 19.77                     | 20.3                   |
| 20              | 64QAM      | 100     | 0         | 19.90                    | 19.95                       | 19.93                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.38                    | 19.38                       | 19.39                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.47                    | 19.46                       | 19.27                     | 20                     |
| 20              | 256QAM     | 1       | 99        | 19.43                    | 19.39                       | 19.24                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.54                    | 19.26                       | 19.31                     |                        |
| 20              | 256QAM     | 50      | 24        | 19.47                    | 19.26                       | 19.29                     | 20                     |
| 20              | 256QAM     | 50      | 50        | 19.46                    | 19.36                       | 19.38                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.45                    | 19.43                       | 19.38                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 20.06                    | 19.83                       | 19.84                     |                        |
| 15              | QPSK       | 1       | 37        | 19.94                    | 19.77                       | 19.76                     | 20.3                   |
| 15              | QPSK       | 1       | 74        | 19.92                    | 19.74                       | 19.86                     |                        |
| 15              | QPSK       | 36      | 0         | 19.97                    | 19.83                       | 19.78                     |                        |
| 15              | QPSK       | 36      | 20        | 19.69                    | 19.84                       | 19.60                     | 20.3                   |
| 15              | QPSK       | 36      | 39        | 19.73                    | 19.76                       | 19.77                     |                        |
| 15              | QPSK       | 75      | 0         | 19.76                    | 19.70                       | 19.76                     |                        |
| 15              | 16QAM      | 1       | 0         | 20.04                    | 19.84                       | 19.79                     | 20.3                   |
| 15              | 16QAM      | 1       | 37        | 19.78                    | 19.90                       | 19.71                     |                        |
| 15              | 16QAM      | 1       | 74        | 19.78                    | 19.61                       | 19.65                     |                        |
| 15              | 16QAM      | 36      | 0         | 19.96                    | 19.81                       | 19.56                     | 20.3                   |
| 15              | 16QAM      | 36      | 20        | 19.71                    | 19.60                       | 19.90                     |                        |
| 15              | 16QAM      | 36      | 39        | 19.81                    | 19.70                       | 19.71                     |                        |
| 15              | 16QAM      | 75      | 0         | 19.91                    | 19.75                       | 19.76                     | 20.3                   |
| 15              | 64QAM      | 1       | 0         | 19.75                    | 19.89                       | 19.87                     |                        |
| 15              | 64QAM      | 1       | 37        | 19.93                    | 19.81                       | 19.91                     |                        |
| 15              | 64QAM      | 1       | 74        | 20.00                    | 19.81                       | 19.77                     | 20.3                   |
| 15              | 64QAM      | 36      | 0         | 19.99                    | 19.76                       | 19.66                     |                        |
| 15              | 64QAM      | 36      | 20        | 19.89                    | 19.75                       | 19.63                     |                        |
| 15              | 64QAM      | 36      | 39        | 19.94                    | 19.89                       | 19.68                     | 20                     |
| 15              | 64QAM      | 75      | 0         | 19.85                    | 19.86                       | 19.75                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.33                    | 19.31                       | 19.31                     |                        |
| 15              | 256QAM     | 1       | 37        | 19.28                    | 19.34                       | 19.13                     | 20                     |
| 15              | 256QAM     | 1       | 74        | 19.25                    | 19.39                       | 19.23                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.50                    | 19.24                       | 19.27                     |                        |
| 15              | 256QAM     | 36      | 20        | 19.34                    | 19.07                       | 19.19                     | 20                     |
| 15              | 256QAM     | 36      | 39        | 19.41                    | 19.16                       | 19.18                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.33  | 19.40 | 19.21  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 20.01  | 19.92 | 19.75  | 20.3                   |
| 10              | QPSK   | 1  | 25 | 19.84  | 19.77 | 19.85  |                        |
| 10              | QPSK   | 1  | 49 | 19.90  | 19.88 | 19.71  |                        |
| 10              | QPSK   | 25 | 0  | 19.97  | 19.70 | 19.66  | 20.3                   |
| 10              | QPSK   | 25 | 12 | 19.80  | 19.74 | 19.68  |                        |
| 10              | QPSK   | 25 | 25 | 19.73  | 19.80 | 19.70  |                        |
| 10              | QPSK   | 50 | 0  | 19.78  | 19.65 | 19.86  | 20.3                   |
| 10              | 16QAM  | 1  | 0  | 19.94  | 19.77 | 19.79  |                        |
| 10              | 16QAM  | 1  | 25 | 19.80  | 19.95 | 19.74  |                        |
| 10              | 16QAM  | 1  | 49 | 19.85  | 19.66 | 19.82  | 20.3                   |
| 10              | 16QAM  | 25 | 0  | 19.83  | 19.82 | 19.63  |                        |
| 10              | 16QAM  | 25 | 12 | 19.91  | 19.73 | 19.92  |                        |
| 10              | 16QAM  | 25 | 25 | 19.91  | 19.75 | 19.75  | 20.3                   |
| 10              | 16QAM  | 50 | 0  | 19.77  | 19.84 | 19.88  |                        |
| 10              | 64QAM  | 1  | 0  | 19.82  | 19.73 | 19.85  |                        |
| 10              | 64QAM  | 1  | 25 | 20.06  | 19.88 | 19.76  | 20.3                   |
| 10              | 64QAM  | 1  | 49 | 19.98  | 19.80 | 19.75  |                        |
| 10              | 64QAM  | 25 | 0  | 19.87  | 19.72 | 19.62  |                        |
| 10              | 64QAM  | 25 | 12 | 19.85  | 19.78 | 19.61  | 20.3                   |
| 10              | 64QAM  | 25 | 25 | 20.04  | 19.85 | 19.77  |                        |
| 10              | 64QAM  | 50 | 0  | 19.74  | 19.95 | 19.92  |                        |
| 10              | 256QAM | 1  | 0  | 19.30  | 19.30 | 19.22  | 20                     |
| 10              | 256QAM | 1  | 25 | 19.28  | 19.41 | 19.27  |                        |
| 10              | 256QAM | 1  | 49 | 19.28  | 19.29 | 19.19  |                        |
| 10              | 256QAM | 25 | 0  | 19.44  | 19.11 | 19.26  | 20                     |
| 10              | 256QAM | 25 | 12 | 19.38  | 19.17 | 19.13  |                        |
| 10              | 256QAM | 25 | 25 | 19.41  | 19.26 | 19.36  |                        |
| 10              | 256QAM | 50 | 0  | 19.43  | 19.40 | 19.27  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 20.06  | 19.95 | 19.79  | 20.3                   |
| 5               | QPSK   | 1  | 12 | 19.79  | 19.77 | 19.66  |                        |
| 5               | QPSK   | 1  | 24 | 19.82  | 19.76 | 19.85  |                        |
| 5               | QPSK   | 12 | 0  | 19.97  | 19.79 | 19.63  | 20.3                   |
| 5               | QPSK   | 12 | 7  | 19.70  | 19.79 | 19.75  |                        |
| 5               | QPSK   | 12 | 13 | 19.88  | 19.80 | 19.67  |                        |
| 5               | QPSK   | 25 | 0  | 19.89  | 19.83 | 19.91  | 20.3                   |
| 5               | 16QAM  | 1  | 0  | 19.89  | 19.81 | 19.69  |                        |
| 5               | 16QAM  | 1  | 12 | 19.91  | 19.88 | 19.70  |                        |
| 5               | 16QAM  | 1  | 24 | 19.72  | 19.66 | 19.74  | 20.3                   |
| 5               | 16QAM  | 12 | 0  | 19.95  | 19.78 | 19.56  |                        |
| 5               | 16QAM  | 12 | 7  | 19.85  | 19.69 | 19.84  |                        |
| 5               | 16QAM  | 12 | 13 | 19.74  | 19.58 | 19.71  | 20.3                   |
| 5               | 16QAM  | 25 | 0  | 19.90  | 19.92 | 19.82  |                        |
| 5               | 64QAM  | 1  | 0  | 19.92  | 19.73 | 19.68  |                        |
| 5               | 64QAM  | 1  | 12 | 20.03  | 19.74 | 19.85  | 20.3                   |
| 5               | 64QAM  | 1  | 24 | 19.87  | 19.63 | 19.79  |                        |
| 5               | 64QAM  | 12 | 0  | 19.97  | 19.79 | 19.78  |                        |
| 5               | 64QAM  | 12 | 7  | 20.04  | 19.60 | 19.58  | 20.3                   |
| 5               | 64QAM  | 12 | 13 | 19.88  | 19.82 | 19.61  |                        |
| 5               | 64QAM  | 25 | 0  | 19.73  | 19.82 | 19.83  |                        |
| 5               | 256QAM | 1  | 0  | 19.22  | 19.19 | 19.20  | 20                     |
| 5               | 256QAM | 1  | 12 | 19.40  | 19.29 | 19.17  |                        |
| 5               | 256QAM | 1  | 24 | 19.34  | 19.35 | 19.08  |                        |
| 5               | 256QAM | 12 | 0  | 19.39  | 19.18 | 19.30  | 20                     |
| 5               | 256QAM | 12 | 7  | 19.40  | 19.17 | 19.17  |                        |
| 5               | 256QAM | 12 | 13 | 19.38  | 19.35 | 19.34  |                        |
| 5               | 256QAM | 25 | 0  | 19.27  | 19.37 | 19.30  |                        |



&lt;LTE Band 38\_Ant 0\_Index 7/8&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 23.98                    | 23.96                       | 23.93                     |                        |
| 20              | QPSK       | 1       | 49        | 23.97                    | 23.95                       | 23.92                     | 25                     |
| 20              | QPSK       | 1       | 99        | 23.96                    | 23.92                       | 23.90                     |                        |
| 20              | QPSK       | 50      | 0         | 22.90                    | 22.87                       | 22.84                     |                        |
| 20              | QPSK       | 50      | 24        | 22.89                    | 22.86                       | 22.81                     | 24                     |
| 20              | QPSK       | 50      | 50        | 22.88                    | 22.85                       | 22.82                     |                        |
| 20              | QPSK       | 100     | 0         | 22.89                    | 22.86                       | 22.83                     |                        |
| 20              | 16QAM      | 1       | 0         | 23.08                    | 23.05                       | 22.91                     | 24                     |
| 20              | 16QAM      | 1       | 49        | 22.98                    | 23.04                       | 22.96                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.09                    | 23.03                       | 22.95                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.88                    | 21.88                       | 21.81                     | 23                     |
| 20              | 16QAM      | 50      | 24        | 21.89                    | 21.88                       | 21.84                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.92                    | 21.88                       | 21.85                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.93                    | 21.92                       | 21.89                     | 23                     |
| 20              | 64QAM      | 1       | 0         | 21.95                    | 21.70                       | 21.78                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.80                    | 21.73                       | 21.81                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.83                    | 21.76                       | 21.78                     | 22                     |
| 20              | 64QAM      | 50      | 0         | 20.90                    | 20.87                       | 20.83                     |                        |
| 20              | 64QAM      | 50      | 24        | 20.88                    | 20.89                       | 20.85                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.90                    | 20.87                       | 20.84                     | 20                     |
| 20              | 64QAM      | 100     | 0         | 20.90                    | 20.88                       | 20.84                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.17                    | 18.90                       | 18.98                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.02                    | 18.96                       | 19.09                     | 20                     |
| 20              | 256QAM     | 1       | 99        | 19.08                    | 19.04                       | 19.00                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.16                    | 19.09                       | 19.06                     | 20                     |
| 20              | 256QAM     | 50      | 24        | 19.12                    | 19.12                       | 19.12                     |                        |
| 20              | 256QAM     | 50      | 50        | 19.10                    | 19.16                       | 19.13                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.10                    | 19.12                       | 19.12                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     |                        |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 23.93                    | 23.85                       | 23.83                     | 25                     |
| 15              | QPSK       | 1       | 37        | 23.78                    | 23.88                       | 23.92                     |                        |
| 15              | QPSK       | 1       | 74        | 23.83                    | 23.79                       | 23.90                     |                        |
| 15              | QPSK       | 36      | 0         | 22.79                    | 22.78                       | 22.69                     | 24                     |
| 15              | QPSK       | 36      | 20        | 22.69                    | 22.69                       | 22.80                     |                        |
| 15              | QPSK       | 36      | 39        | 22.71                    | 22.80                       | 22.74                     |                        |
| 15              | QPSK       | 75      | 0         | 22.72                    | 22.86                       | 22.79                     | 24                     |
| 15              | 16QAM      | 1       | 0         | 23.06                    | 22.89                       | 22.91                     |                        |
| 15              | 16QAM      | 1       | 37        | 22.87                    | 23.02                       | 22.87                     |                        |
| 15              | 16QAM      | 1       | 74        | 22.96                    | 22.98                       | 22.89                     | 23                     |
| 15              | 16QAM      | 36      | 0         | 21.75                    | 21.69                       | 21.67                     |                        |
| 15              | 16QAM      | 36      | 20        | 21.79                    | 21.87                       | 21.64                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.91                    | 21.83                       | 21.75                     | 23                     |
| 15              | 16QAM      | 75      | 0         | 21.83                    | 21.89                       | 21.88                     |                        |
| 15              | 64QAM      | 1       | 0         | 21.82                    | 21.67                       | 21.75                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.67                    | 21.66                       | 21.61                     | 23                     |
| 15              | 64QAM      | 1       | 74        | 21.82                    | 21.71                       | 21.78                     |                        |
| 15              | 64QAM      | 36      | 0         | 20.86                    | 20.67                       | 20.65                     | 22                     |
| 15              | 64QAM      | 36      | 20        | 20.81                    | 20.85                       | 20.75                     |                        |
| 15              | 64QAM      | 36      | 39        | 20.81                    | 20.69                       | 20.80                     |                        |
| 15              | 64QAM      | 75      | 0         | 20.79                    | 20.80                       | 20.71                     | 20                     |
| 15              | 256QAM     | 1       | 0         | 19.14                    | 18.76                       | 18.78                     |                        |
| 15              | 256QAM     | 1       | 37        | 18.97                    | 18.81                       | 18.94                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.05                    | 18.98                       | 18.96                     | 20                     |
| 15              | 256QAM     | 36      | 0         | 19.13                    | 18.91                       | 18.89                     |                        |
| 15              | 256QAM     | 36      | 20        | 18.96                    | 18.99                       | 19.09                     |                        |
| 15              | 256QAM     | 36      | 39        | 18.90                    | 19.11                       | 18.93                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 18.98  | 18.99 | 19.00  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 23.94  | 23.78 | 23.78  | 25                     |
| 10              | QPSK   | 1  | 25 | 23.90  | 23.75 | 23.77  |                        |
| 10              | QPSK   | 1  | 49 | 23.85  | 23.88 | 23.86  |                        |
| 10              | QPSK   | 25 | 0  | 22.76  | 22.86 | 22.71  | 24                     |
| 10              | QPSK   | 25 | 12 | 22.80  | 22.83 | 22.62  |                        |
| 10              | QPSK   | 25 | 25 | 22.77  | 22.66 | 22.71  |                        |
| 10              | QPSK   | 50 | 0  | 22.73  | 22.66 | 22.69  | 24                     |
| 10              | 16QAM  | 1  | 0  | 22.93  | 22.87 | 22.87  |                        |
| 10              | 16QAM  | 1  | 25 | 22.86  | 22.91 | 22.77  |                        |
| 10              | 16QAM  | 1  | 49 | 22.99  | 22.89 | 22.86  | 23                     |
| 10              | 16QAM  | 25 | 0  | 21.84  | 21.87 | 21.62  |                        |
| 10              | 16QAM  | 25 | 12 | 21.71  | 21.75 | 21.84  |                        |
| 10              | 16QAM  | 25 | 25 | 21.86  | 21.72 | 21.76  | 23                     |
| 10              | 16QAM  | 50 | 0  | 21.85  | 21.78 | 21.81  |                        |
| 10              | 64QAM  | 1  | 0  | 21.80  | 21.60 | 21.58  |                        |
| 10              | 64QAM  | 1  | 25 | 21.77  | 21.71 | 21.66  | 23                     |
| 10              | 64QAM  | 1  | 49 | 21.69  | 21.61 | 21.64  |                        |
| 10              | 64QAM  | 25 | 0  | 20.77  | 20.70 | 20.64  | 22                     |
| 10              | 64QAM  | 25 | 12 | 20.80  | 20.85 | 20.69  |                        |
| 10              | 64QAM  | 25 | 25 | 20.88  | 20.81 | 20.71  |                        |
| 10              | 64QAM  | 50 | 0  | 20.72  | 20.82 | 20.69  | 20                     |
| 10              | 256QAM | 1  | 0  | 18.98  | 18.82 | 18.87  |                        |
| 10              | 256QAM | 1  | 25 | 19.02  | 18.95 | 19.03  |                        |
| 10              | 256QAM | 1  | 49 | 19.02  | 18.87 | 18.99  | 20                     |
| 10              | 256QAM | 25 | 0  | 19.09  | 19.08 | 19.04  |                        |
| 10              | 256QAM | 25 | 12 | 19.07  | 18.93 | 19.01  |                        |
| 10              | 256QAM | 25 | 25 | 19.03  | 19.13 | 19.04  | 20                     |
| 10              | 256QAM | 50 | 0  | 18.92  | 19.01 | 19.00  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 23.83  | 23.92 | 23.77  | 25                     |
| 5               | QPSK   | 1  | 12 | 23.94  | 23.83 | 23.73  |                        |
| 5               | QPSK   | 1  | 24 | 23.85  | 23.77 | 23.85  |                        |
| 5               | QPSK   | 12 | 0  | 22.81  | 22.80 | 22.67  | 24                     |
| 5               | QPSK   | 12 | 7  | 22.70  | 22.74 | 22.71  |                        |
| 5               | QPSK   | 12 | 13 | 22.74  | 22.66 | 22.76  |                        |
| 5               | QPSK   | 25 | 0  | 22.70  | 22.86 | 22.78  | 24                     |
| 5               | 16QAM  | 1  | 0  | 23.05  | 22.94 | 22.82  |                        |
| 5               | 16QAM  | 1  | 12 | 22.90  | 22.97 | 22.87  |                        |
| 5               | 16QAM  | 1  | 24 | 23.00  | 23.00 | 22.91  | 23                     |
| 5               | 16QAM  | 12 | 0  | 21.74  | 21.74 | 21.63  |                        |
| 5               | 16QAM  | 12 | 7  | 21.85  | 21.88 | 21.83  |                        |
| 5               | 16QAM  | 12 | 13 | 21.88  | 21.77 | 21.69  | 23                     |
| 5               | 16QAM  | 25 | 0  | 21.81  | 21.92 | 21.80  |                        |
| 5               | 64QAM  | 1  | 0  | 21.78  | 21.63 | 21.73  |                        |
| 5               | 64QAM  | 1  | 12 | 21.69  | 21.72 | 21.76  | 22                     |
| 5               | 64QAM  | 1  | 24 | 21.65  | 21.60 | 21.66  |                        |
| 5               | 64QAM  | 12 | 0  | 20.70  | 20.83 | 20.72  |                        |
| 5               | 64QAM  | 12 | 7  | 20.85  | 20.86 | 20.82  | 20                     |
| 5               | 64QAM  | 12 | 13 | 20.88  | 20.68 | 20.73  |                        |
| 5               | 64QAM  | 25 | 0  | 20.72  | 20.75 | 20.79  |                        |
| 5               | 256QAM | 1  | 0  | 19.14  | 18.83 | 18.81  | 20                     |
| 5               | 256QAM | 1  | 12 | 18.87  | 18.90 | 19.06  |                        |
| 5               | 256QAM | 1  | 24 | 18.93  | 18.94 | 18.88  |                        |
| 5               | 256QAM | 12 | 0  | 19.02  | 19.00 | 19.02  | 20                     |
| 5               | 256QAM | 12 | 7  | 18.98  | 18.98 | 18.94  |                        |
| 5               | 256QAM | 12 | 13 | 18.94  | 19.09 | 19.05  |                        |
| 5               | 256QAM | 25 | 0  | 19.02  | 19.04 | 19.00  |                        |



&lt;LTE Band 38\_Ant 5\_Index 7/8&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 23.47                    | 23.35                       | 23.61                     |                        |
| 20              | QPSK       | 1       | 49        | 23.32                    | 23.33                       | 23.54                     | 25                     |
| 20              | QPSK       | 1       | 99        | 23.36                    | 23.38                       | 23.58                     |                        |
| 20              | QPSK       | 50      | 0         | 22.38                    | 22.33                       | 22.53                     |                        |
| 20              | QPSK       | 50      | 24        | 22.31                    | 22.28                       | 22.50                     | 24                     |
| 20              | QPSK       | 50      | 50        | 22.38                    | 22.25                       | 22.46                     |                        |
| 20              | QPSK       | 100     | 0         | 22.35                    | 22.28                       | 22.49                     |                        |
| 20              | 16QAM      | 1       | 0         | 22.54                    | 22.47                       | 22.72                     | 24                     |
| 20              | 16QAM      | 1       | 49        | 22.36                    | 22.30                       | 22.58                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.48                    | 22.41                       | 22.71                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.31                    | 21.36                       | 21.56                     | 23                     |
| 20              | 16QAM      | 50      | 24        | 21.31                    | 21.25                       | 21.44                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.35                    | 21.26                       | 21.43                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.37                    | 21.33                       | 21.58                     | 23                     |
| 20              | 64QAM      | 1       | 0         | 21.36                    | 21.40                       | 21.47                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.21                    | 21.20                       | 21.39                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.21                    | 21.30                       | 21.35                     | 22                     |
| 20              | 64QAM      | 50      | 0         | 20.41                    | 20.25                       | 20.55                     |                        |
| 20              | 64QAM      | 50      | 24        | 20.33                    | 20.35                       | 20.54                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.32                    | 20.26                       | 20.44                     | 20                     |
| 20              | 64QAM      | 100     | 0         | 20.38                    | 20.30                       | 20.55                     |                        |
| 20              | 256QAM     | 1       | 0         | 18.56                    | 18.65                       | 18.68                     |                        |
| 20              | 256QAM     | 1       | 49        | 18.49                    | 18.41                       | 18.66                     | 20                     |
| 20              | 256QAM     | 1       | 99        | 18.42                    | 18.54                       | 18.58                     |                        |
| 20              | 256QAM     | 50      | 0         | 18.65                    | 18.46                       | 18.82                     | 20                     |
| 20              | 256QAM     | 50      | 24        | 18.60                    | 18.57                       | 18.79                     |                        |
| 20              | 256QAM     | 50      | 50        | 18.57                    | 18.55                       | 18.72                     |                        |
| 20              | 256QAM     | 100     | 0         | 18.66                    | 18.54                       | 18.80                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 23.30                    | 23.28                       | 23.41                     |                        |
| 15              | QPSK       | 1       | 37        | 23.18                    | 23.25                       | 23.54                     | 25                     |
| 15              | QPSK       | 1       | 74        | 23.33                    | 23.20                       | 23.49                     |                        |
| 15              | QPSK       | 36      | 0         | 22.27                    | 22.22                       | 22.46                     | 24                     |
| 15              | QPSK       | 36      | 20        | 22.29                    | 22.11                       | 22.47                     |                        |
| 15              | QPSK       | 36      | 39        | 22.27                    | 22.22                       | 22.36                     |                        |
| 15              | QPSK       | 75      | 0         | 22.35                    | 22.19                       | 22.30                     | 24                     |
| 15              | 16QAM      | 1       | 0         | 22.52                    | 22.29                       | 22.72                     |                        |
| 15              | 16QAM      | 1       | 37        | 22.27                    | 22.14                       | 22.46                     |                        |
| 15              | 16QAM      | 1       | 74        | 22.41                    | 22.35                       | 22.53                     | 23                     |
| 15              | 16QAM      | 36      | 0         | 21.27                    | 21.22                       | 21.54                     |                        |
| 15              | 16QAM      | 36      | 20        | 21.14                    | 21.12                       | 21.26                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.32                    | 21.24                       | 21.30                     | 23                     |
| 15              | 16QAM      | 75      | 0         | 21.36                    | 21.13                       | 21.49                     |                        |
| 15              | 64QAM      | 1       | 0         | 21.23                    | 21.21                       | 21.30                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.05                    | 21.04                       | 21.39                     | 23                     |
| 15              | 64QAM      | 1       | 74        | 21.15                    | 21.29                       | 21.30                     |                        |
| 15              | 64QAM      | 36      | 0         | 20.34                    | 20.21                       | 20.46                     |                        |
| 15              | 64QAM      | 36      | 20        | 20.22                    | 20.28                       | 20.39                     | 22                     |
| 15              | 64QAM      | 36      | 39        | 20.25                    | 20.17                       | 20.24                     |                        |
| 15              | 64QAM      | 75      | 0         | 20.29                    | 20.25                       | 20.37                     |                        |
| 15              | 256QAM     | 1       | 0         | 18.44                    | 18.60                       | 18.54                     | 20                     |
| 15              | 256QAM     | 1       | 37        | 18.37                    | 18.32                       | 18.52                     |                        |
| 15              | 256QAM     | 1       | 74        | 18.34                    | 18.52                       | 18.54                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.45                    | 18.44                       | 18.68                     | 20                     |
| 15              | 256QAM     | 36      | 20        | 18.48                    | 18.43                       | 18.64                     |                        |
| 15              | 256QAM     | 36      | 39        | 18.49                    | 18.38                       | 18.68                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 18.56  | 18.38 | 18.69  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 23.30  | 23.29 | 23.57  | 25                     |
| 10              | QPSK   | 1  | 25 | 23.31  | 23.25 | 23.38  |                        |
| 10              | QPSK   | 1  | 49 | 23.24  | 23.28 | 23.49  |                        |
| 10              | QPSK   | 25 | 0  | 22.34  | 22.20 | 22.40  | 24                     |
| 10              | QPSK   | 25 | 12 | 22.25  | 22.24 | 22.31  |                        |
| 10              | QPSK   | 25 | 25 | 22.31  | 22.08 | 22.34  |                        |
| 10              | QPSK   | 50 | 0  | 22.20  | 22.09 | 22.48  | 24                     |
| 10              | 16QAM  | 1  | 0  | 22.43  | 22.44 | 22.53  |                        |
| 10              | 16QAM  | 1  | 25 | 22.33  | 22.27 | 22.45  |                        |
| 10              | 16QAM  | 1  | 49 | 22.37  | 22.41 | 22.53  | 23                     |
| 10              | 16QAM  | 25 | 0  | 21.14  | 21.17 | 21.39  |                        |
| 10              | 16QAM  | 25 | 12 | 21.26  | 21.09 | 21.44  |                        |
| 10              | 16QAM  | 25 | 25 | 21.15  | 21.06 | 21.38  | 23                     |
| 10              | 16QAM  | 50 | 0  | 21.31  | 21.17 | 21.52  |                        |
| 10              | 64QAM  | 1  | 0  | 21.17  | 21.28 | 21.45  |                        |
| 10              | 64QAM  | 1  | 25 | 21.01  | 21.12 | 21.23  | 23                     |
| 10              | 64QAM  | 1  | 49 | 21.19  | 21.26 | 21.33  |                        |
| 10              | 64QAM  | 25 | 0  | 20.32  | 20.24 | 20.41  | 22                     |
| 10              | 64QAM  | 25 | 12 | 20.30  | 20.22 | 20.45  |                        |
| 10              | 64QAM  | 25 | 25 | 20.16  | 20.12 | 20.28  |                        |
| 10              | 64QAM  | 50 | 0  | 20.36  | 20.11 | 20.49  | 20                     |
| 10              | 256QAM | 1  | 0  | 18.48  | 18.57 | 18.49  |                        |
| 10              | 256QAM | 1  | 25 | 18.49  | 18.25 | 18.58  |                        |
| 10              | 256QAM | 1  | 49 | 18.34  | 18.41 | 18.41  | 20                     |
| 10              | 256QAM | 25 | 0  | 18.52  | 18.35 | 18.73  |                        |
| 10              | 256QAM | 25 | 12 | 18.41  | 18.57 | 18.60  |                        |
| 10              | 256QAM | 25 | 25 | 18.55  | 18.40 | 18.72  | 20                     |
| 10              | 256QAM | 50 | 0  | 18.56  | 18.42 | 18.67  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 23.46  | 23.20 | 23.44  | 25                     |
| 5               | QPSK   | 1  | 12 | 23.22  | 23.22 | 23.54  |                        |
| 5               | QPSK   | 1  | 24 | 23.36  | 23.37 | 23.39  |                        |
| 5               | QPSK   | 12 | 0  | 22.24  | 22.29 | 22.36  | 24                     |
| 5               | QPSK   | 12 | 7  | 22.23  | 22.24 | 22.31  |                        |
| 5               | QPSK   | 12 | 13 | 22.29  | 22.23 | 22.31  |                        |
| 5               | QPSK   | 25 | 0  | 22.15  | 22.27 | 22.31  | 24                     |
| 5               | 16QAM  | 1  | 0  | 22.43  | 22.41 | 22.61  |                        |
| 5               | 16QAM  | 1  | 12 | 22.19  | 22.20 | 22.53  |                        |
| 5               | 16QAM  | 1  | 24 | 22.37  | 22.41 | 22.54  | 23                     |
| 5               | 16QAM  | 12 | 0  | 21.21  | 21.18 | 21.41  |                        |
| 5               | 16QAM  | 12 | 7  | 21.17  | 21.25 | 21.37  |                        |
| 5               | 16QAM  | 12 | 13 | 21.31  | 21.22 | 21.38  | 23                     |
| 5               | 16QAM  | 25 | 0  | 21.35  | 21.26 | 21.58  |                        |
| 5               | 64QAM  | 1  | 0  | 21.33  | 21.28 | 21.44  |                        |
| 5               | 64QAM  | 1  | 12 | 21.02  | 21.01 | 21.20  | 22                     |
| 5               | 64QAM  | 1  | 24 | 21.05  | 21.28 | 21.27  |                        |
| 5               | 64QAM  | 12 | 0  | 20.22  | 20.24 | 20.49  |                        |
| 5               | 64QAM  | 12 | 7  | 20.19  | 20.29 | 20.35  | 20                     |
| 5               | 64QAM  | 12 | 13 | 20.24  | 20.10 | 20.43  |                        |
| 5               | 64QAM  | 25 | 0  | 20.33  | 20.13 | 20.47  |                        |
| 5               | 256QAM | 1  | 0  | 18.42  | 18.54 | 18.56  | 20                     |
| 5               | 256QAM | 1  | 12 | 18.41  | 18.29 | 18.56  |                        |
| 5               | 256QAM | 1  | 24 | 18.23  | 18.44 | 18.38  |                        |
| 5               | 256QAM | 12 | 0  | 18.63  | 18.36 | 18.72  | 20                     |
| 5               | 256QAM | 12 | 7  | 18.50  | 18.39 | 18.68  |                        |
| 5               | 256QAM | 12 | 13 | 18.46  | 18.52 | 18.54  |                        |
| 5               | 256QAM | 25 | 0  | 18.51  | 18.52 | 18.65  |                        |



&lt;LTE Band 38\_Ant 2\_Index 9&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 20.13                    | 20.19                       | 20.16                     |                        |
| 20              | QPSK       | 1       | 49        | 20.12                    | 20.18                       | 20.16                     | 20.2                   |
| 20              | QPSK       | 1       | 99        | 20.13                    | 20.17                       | 20.15                     |                        |
| 20              | QPSK       | 50      | 0         | 20.15                    | 20.17                       | 20.16                     |                        |
| 20              | QPSK       | 50      | 24        | 20.13                    | 20.16                       | 20.15                     | 20.2                   |
| 20              | QPSK       | 50      | 50        | 20.11                    | 20.15                       | 20.14                     |                        |
| 20              | QPSK       | 100     | 0         | 20.14                    | 20.14                       | 20.13                     |                        |
| 20              | 16QAM      | 1       | 0         | 20.04                    | 20.13                       | 20.02                     | 20.2                   |
| 20              | 16QAM      | 1       | 49        | 20.00                    | 20.09                       | 20.07                     |                        |
| 20              | 16QAM      | 1       | 99        | 20.04                    | 20.13                       | 19.98                     |                        |
| 20              | 16QAM      | 50      | 0         | 20.15                    | 20.15                       | 20.15                     | 20.2                   |
| 20              | 16QAM      | 50      | 24        | 20.14                    | 20.15                       | 20.15                     |                        |
| 20              | 16QAM      | 50      | 50        | 20.16                    | 20.13                       | 20.15                     |                        |
| 20              | 16QAM      | 100     | 0         | 20.15                    | 20.09                       | 20.15                     | 20.2                   |
| 20              | 64QAM      | 1       | 0         | 19.99                    | 20.05                       | 20.04                     |                        |
| 20              | 64QAM      | 1       | 49        | 19.99                    | 20.01                       | 20.03                     |                        |
| 20              | 64QAM      | 1       | 99        | 20.03                    | 20.09                       | 20.05                     | 20.2                   |
| 20              | 64QAM      | 50      | 0         | 20.12                    | 20.15                       | 20.14                     |                        |
| 20              | 64QAM      | 50      | 24        | 20.14                    | 20.14                       | 20.16                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.16                    | 20.16                       | 20.15                     | 20.2                   |
| 20              | 64QAM      | 100     | 0         | 20.10                    | 20.17                       | 20.14                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.39                    | 19.35                       | 19.25                     | 20                     |
| 20              | 256QAM     | 1       | 49        | 19.36                    | 19.55                       | 19.27                     |                        |
| 20              | 256QAM     | 1       | 99        | 19.54                    | 19.30                       | 19.55                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.64                    | 19.46                       | 19.57                     | 20                     |
| 20              | 256QAM     | 50      | 24        | 19.66                    | 19.61                       | 19.47                     |                        |
| 20              | 256QAM     | 50      | 50        | 19.41                    | 19.70                       | 19.52                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.52                    | 19.60                       | 19.77                     | Tune-up limit<br>(dBm) |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     |                        |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 20.00                    | 20.17                       | 19.96                     | 20.2                   |
| 15              | QPSK       | 1       | 37        | 19.96                    | 20.02                       | 20.07                     |                        |
| 15              | QPSK       | 1       | 74        | 20.11                    | 20.13                       | 20.00                     |                        |
| 15              | QPSK       | 36      | 0         | 20.07                    | 20.00                       | 20.08                     | 20.2                   |
| 15              | QPSK       | 36      | 20        | 20.12                    | 20.00                       | 20.08                     |                        |
| 15              | QPSK       | 36      | 39        | 20.09                    | 20.01                       | 19.99                     |                        |
| 15              | QPSK       | 75      | 0         | 20.08                    | 19.96                       | 20.13                     | 20.2                   |
| 15              | 16QAM      | 1       | 0         | 19.85                    | 19.94                       | 19.85                     |                        |
| 15              | 16QAM      | 1       | 37        | 19.89                    | 20.08                       | 20.00                     |                        |
| 15              | 16QAM      | 1       | 74        | 19.86                    | 20.12                       | 19.83                     | 20.2                   |
| 15              | 16QAM      | 36      | 0         | 19.99                    | 20.10                       | 20.09                     |                        |
| 15              | 16QAM      | 36      | 20        | 20.12                    | 20.04                       | 20.07                     |                        |
| 15              | 16QAM      | 36      | 39        | 20.05                    | 19.97                       | 20.13                     | 20.2                   |
| 15              | 16QAM      | 75      | 0         | 19.98                    | 20.09                       | 20.03                     |                        |
| 15              | 64QAM      | 1       | 0         | 19.90                    | 19.95                       | 19.97                     |                        |
| 15              | 64QAM      | 1       | 37        | 19.94                    | 20.01                       | 19.91                     | 20.2                   |
| 15              | 64QAM      | 1       | 74        | 19.92                    | 19.98                       | 19.88                     |                        |
| 15              | 64QAM      | 36      | 0         | 20.02                    | 20.09                       | 20.10                     |                        |
| 15              | 64QAM      | 36      | 20        | 20.12                    | 19.96                       | 20.05                     | 20.2                   |
| 15              | 64QAM      | 36      | 39        | 19.97                    | 19.99                       | 20.12                     |                        |
| 15              | 64QAM      | 75      | 0         | 19.97                    | 20.04                       | 20.05                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.19                    | 19.19                       | 19.06                     | 20                     |
| 15              | 256QAM     | 1       | 37        | 19.35                    | 19.52                       | 19.23                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.41                    | 19.22                       | 19.43                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.46                    | 19.29                       | 19.44                     | 20                     |
| 15              | 256QAM     | 36      | 20        | 19.64                    | 19.59                       | 19.47                     |                        |
| 15              | 256QAM     | 36      | 39        | 19.25                    | 19.60                       | 19.50                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.41  | 19.49 | 19.66  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 19.98  | 20.05 | 20.01  | 20.2                   |
| 10              | QPSK   | 1  | 25 | 20.09  | 20.04 | 19.96  |                        |
| 10              | QPSK   | 1  | 49 | 20.06  | 20.04 | 20.04  |                        |
| 10              | QPSK   | 25 | 0  | 20.11  | 20.17 | 20.00  | 20.2                   |
| 10              | QPSK   | 25 | 12 | 19.94  | 20.00 | 20.08  |                        |
| 10              | QPSK   | 25 | 25 | 20.09  | 20.15 | 20.00  |                        |
| 10              | QPSK   | 50 | 0  | 20.12  | 19.95 | 20.04  | 20.2                   |
| 10              | 16QAM  | 1  | 0  | 19.99  | 20.08 | 19.87  |                        |
| 10              | 16QAM  | 1  | 25 | 19.85  | 20.09 | 19.87  |                        |
| 10              | 16QAM  | 1  | 49 | 19.97  | 20.05 | 19.88  | 20.2                   |
| 10              | 16QAM  | 25 | 0  | 20.12  | 20.02 | 20.06  |                        |
| 10              | 16QAM  | 25 | 12 | 19.97  | 19.95 | 20.11  |                        |
| 10              | 16QAM  | 25 | 25 | 20.11  | 20.07 | 20.04  | 20.2                   |
| 10              | 16QAM  | 50 | 0  | 19.96  | 19.98 | 19.97  |                        |
| 10              | 64QAM  | 1  | 0  | 19.94  | 19.89 | 19.87  |                        |
| 10              | 64QAM  | 1  | 25 | 19.84  | 19.96 | 20.00  | 20.2                   |
| 10              | 64QAM  | 1  | 49 | 19.94  | 19.92 | 19.96  |                        |
| 10              | 64QAM  | 25 | 0  | 19.98  | 20.06 | 19.99  |                        |
| 10              | 64QAM  | 25 | 12 | 19.97  | 20.07 | 20.04  | 20.2                   |
| 10              | 64QAM  | 25 | 25 | 20.02  | 20.06 | 20.03  |                        |
| 10              | 64QAM  | 50 | 0  | 19.95  | 19.99 | 20.03  |                        |
| 10              | 256QAM | 1  | 0  | 19.33  | 19.24 | 19.08  | 20                     |
| 10              | 256QAM | 1  | 25 | 19.35  | 19.41 | 19.17  |                        |
| 10              | 256QAM | 1  | 49 | 19.40  | 19.27 | 19.35  |                        |
| 10              | 256QAM | 25 | 0  | 19.53  | 19.41 | 19.49  | 20                     |
| 10              | 256QAM | 25 | 12 | 19.53  | 19.57 | 19.32  |                        |
| 10              | 256QAM | 25 | 25 | 19.23  | 19.70 | 19.42  |                        |
| 10              | 256QAM | 50 | 0  | 19.44  | 19.53 | 19.59  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 19.97  | 20.09 | 20.15  | 20.2                   |
| 5               | QPSK   | 1  | 12 | 20.11  | 20.03 | 20.00  |                        |
| 5               | QPSK   | 1  | 24 | 20.07  | 20.10 | 20.01  |                        |
| 5               | QPSK   | 12 | 0  | 19.98  | 20.12 | 19.96  | 20.2                   |
| 5               | QPSK   | 12 | 7  | 20.12  | 20.12 | 19.96  |                        |
| 5               | QPSK   | 12 | 13 | 19.98  | 19.95 | 19.96  |                        |
| 5               | QPSK   | 25 | 0  | 19.98  | 20.11 | 19.96  | 20.2                   |
| 5               | 16QAM  | 1  | 0  | 19.89  | 20.02 | 19.87  |                        |
| 5               | 16QAM  | 1  | 12 | 19.85  | 20.00 | 19.96  |                        |
| 5               | 16QAM  | 1  | 24 | 19.87  | 20.02 | 19.96  | 20.2                   |
| 5               | 16QAM  | 12 | 0  | 20.13  | 20.09 | 20.05  |                        |
| 5               | 16QAM  | 12 | 7  | 20.06  | 20.02 | 19.96  |                        |
| 5               | 16QAM  | 12 | 13 | 20.05  | 19.98 | 20.02  | 20.2                   |
| 5               | 16QAM  | 25 | 0  | 19.99  | 20.02 | 20.01  |                        |
| 5               | 64QAM  | 1  | 0  | 19.82  | 19.93 | 20.00  |                        |
| 5               | 64QAM  | 1  | 12 | 19.86  | 19.98 | 19.95  | 20.2                   |
| 5               | 64QAM  | 1  | 24 | 19.91  | 19.92 | 19.86  |                        |
| 5               | 64QAM  | 12 | 0  | 20.11  | 20.12 | 20.09  |                        |
| 5               | 64QAM  | 12 | 7  | 19.96  | 20.14 | 20.06  | 20.2                   |
| 5               | 64QAM  | 12 | 13 | 20.09  | 20.06 | 20.01  |                        |
| 5               | 64QAM  | 25 | 0  | 20.04  | 19.97 | 20.03  |                        |
| 5               | 256QAM | 1  | 0  | 19.36  | 19.20 | 19.05  | 20                     |
| 5               | 256QAM | 1  | 12 | 19.30  | 19.36 | 19.09  |                        |
| 5               | 256QAM | 1  | 24 | 19.53  | 19.12 | 19.53  |                        |
| 5               | 256QAM | 12 | 0  | 19.64  | 19.41 | 19.52  | 20                     |
| 5               | 256QAM | 12 | 7  | 19.61  | 19.45 | 19.44  |                        |
| 5               | 256QAM | 12 | 13 | 19.41  | 19.56 | 19.35  |                        |
| 5               | 256QAM | 25 | 0  | 19.47  | 19.60 | 19.62  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 20.07                    | 19.96                       | 19.94                     |                        |
| 20              | QPSK       | 1       | 49        | 19.95                    | 19.96                       | 19.86                     | 20.7                   |
| 20              | QPSK       | 1       | 99        | 19.92                    | 19.88                       | 19.89                     |                        |
| 20              | QPSK       | 50      | 0         | 20.02                    | 19.90                       | 19.81                     |                        |
| 20              | QPSK       | 50      | 24        | 19.89                    | 19.85                       | 19.76                     | 20.7                   |
| 20              | QPSK       | 50      | 50        | 19.92                    | 19.89                       | 19.78                     |                        |
| 20              | QPSK       | 100     | 0         | 19.95                    | 19.85                       | 19.94                     |                        |
| 20              | 16QAM      | 1       | 0         | 20.06                    | 19.85                       | 19.82                     | 20.7                   |
| 20              | 16QAM      | 1       | 49        | 19.91                    | 19.95                       | 19.90                     |                        |
| 20              | 16QAM      | 1       | 99        | 19.87                    | 19.78                       | 19.83                     |                        |
| 20              | 16QAM      | 50      | 0         | 20.01                    | 19.90                       | 19.74                     | 20.7                   |
| 20              | 16QAM      | 50      | 24        | 19.91                    | 19.78                       | 19.93                     |                        |
| 20              | 16QAM      | 50      | 50        | 19.93                    | 19.77                       | 19.75                     |                        |
| 20              | 16QAM      | 100     | 0         | 19.97                    | 19.94                       | 19.94                     | 20.7                   |
| 20              | 64QAM      | 1       | 0         | 19.95                    | 19.93                       | 19.87                     |                        |
| 20              | 64QAM      | 1       | 49        | 20.06                    | 19.89                       | 19.94                     |                        |
| 20              | 64QAM      | 1       | 99        | 20.02                    | 19.82                       | 19.93                     | 20.7                   |
| 20              | 64QAM      | 50      | 0         | 19.99                    | 19.91                       | 19.80                     |                        |
| 20              | 64QAM      | 50      | 24        | 20.04                    | 19.78                       | 19.76                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.06                    | 19.95                       | 19.77                     | 20.7                   |
| 20              | 64QAM      | 100     | 0         | 19.90                    | 19.95                       | 19.93                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.38                    | 19.38                       | 19.39                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.47                    | 19.46                       | 19.27                     | 20                     |
| 20              | 256QAM     | 1       | 99        | 19.43                    | 19.39                       | 19.24                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.54                    | 19.26                       | 19.31                     |                        |
| 20              | 256QAM     | 50      | 24        | 19.47                    | 19.26                       | 19.29                     | 20                     |
| 20              | 256QAM     | 50      | 50        | 19.46                    | 19.36                       | 19.38                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.45                    | 19.43                       | 19.38                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 20.06                    | 19.83                       | 19.84                     |                        |
| 15              | QPSK       | 1       | 37        | 19.94                    | 19.77                       | 19.76                     | 20.7                   |
| 15              | QPSK       | 1       | 74        | 19.92                    | 19.74                       | 19.86                     |                        |
| 15              | QPSK       | 36      | 0         | 19.97                    | 19.83                       | 19.78                     |                        |
| 15              | QPSK       | 36      | 20        | 19.69                    | 19.84                       | 19.60                     | 20.7                   |
| 15              | QPSK       | 36      | 39        | 19.73                    | 19.76                       | 19.77                     |                        |
| 15              | QPSK       | 75      | 0         | 19.76                    | 19.70                       | 19.76                     |                        |
| 15              | 16QAM      | 1       | 0         | 20.04                    | 19.84                       | 19.79                     | 20.7                   |
| 15              | 16QAM      | 1       | 37        | 19.78                    | 19.90                       | 19.71                     |                        |
| 15              | 16QAM      | 1       | 74        | 19.78                    | 19.61                       | 19.65                     |                        |
| 15              | 16QAM      | 36      | 0         | 19.96                    | 19.81                       | 19.56                     | 20.7                   |
| 15              | 16QAM      | 36      | 20        | 19.71                    | 19.60                       | 19.90                     |                        |
| 15              | 16QAM      | 36      | 39        | 19.81                    | 19.70                       | 19.71                     |                        |
| 15              | 16QAM      | 75      | 0         | 19.91                    | 19.75                       | 19.76                     | 20.7                   |
| 15              | 64QAM      | 1       | 0         | 19.75                    | 19.89                       | 19.87                     |                        |
| 15              | 64QAM      | 1       | 37        | 19.93                    | 19.81                       | 19.91                     |                        |
| 15              | 64QAM      | 1       | 74        | 20.00                    | 19.81                       | 19.77                     | 20.7                   |
| 15              | 64QAM      | 36      | 0         | 19.99                    | 19.76                       | 19.66                     |                        |
| 15              | 64QAM      | 36      | 20        | 19.89                    | 19.75                       | 19.63                     |                        |
| 15              | 64QAM      | 36      | 39        | 19.94                    | 19.89                       | 19.68                     | 20                     |
| 15              | 64QAM      | 75      | 0         | 19.85                    | 19.86                       | 19.75                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.33                    | 19.31                       | 19.31                     |                        |
| 15              | 256QAM     | 1       | 37        | 19.28                    | 19.34                       | 19.13                     | 20                     |
| 15              | 256QAM     | 1       | 74        | 19.25                    | 19.39                       | 19.23                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.50                    | 19.24                       | 19.27                     |                        |
| 15              | 256QAM     | 36      | 20        | 19.34                    | 19.07                       | 19.19                     | 20                     |
| 15              | 256QAM     | 36      | 39        | 19.41                    | 19.16                       | 19.18                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.33  | 19.40 | 19.21  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 20.01  | 19.92 | 19.75  | 20.7                   |
| 10              | QPSK   | 1  | 25 | 19.84  | 19.77 | 19.85  |                        |
| 10              | QPSK   | 1  | 49 | 19.90  | 19.88 | 19.71  |                        |
| 10              | QPSK   | 25 | 0  | 19.97  | 19.70 | 19.66  | 20.7                   |
| 10              | QPSK   | 25 | 12 | 19.80  | 19.74 | 19.68  |                        |
| 10              | QPSK   | 25 | 25 | 19.73  | 19.80 | 19.70  |                        |
| 10              | QPSK   | 50 | 0  | 19.78  | 19.65 | 19.86  |                        |
| 10              | 16QAM  | 1  | 0  | 19.94  | 19.77 | 19.79  | 20.7                   |
| 10              | 16QAM  | 1  | 25 | 19.80  | 19.95 | 19.74  |                        |
| 10              | 16QAM  | 1  | 49 | 19.85  | 19.66 | 19.82  |                        |
| 10              | 16QAM  | 25 | 0  | 19.83  | 19.82 | 19.63  | 20.7                   |
| 10              | 16QAM  | 25 | 12 | 19.91  | 19.73 | 19.92  |                        |
| 10              | 16QAM  | 25 | 25 | 19.91  | 19.75 | 19.75  |                        |
| 10              | 16QAM  | 50 | 0  | 19.77  | 19.84 | 19.88  |                        |
| 10              | 64QAM  | 1  | 0  | 19.82  | 19.73 | 19.85  | 20.7                   |
| 10              | 64QAM  | 1  | 25 | 20.06  | 19.88 | 19.76  |                        |
| 10              | 64QAM  | 1  | 49 | 19.98  | 19.80 | 19.75  |                        |
| 10              | 64QAM  | 25 | 0  | 19.87  | 19.72 | 19.62  | 20.7                   |
| 10              | 64QAM  | 25 | 12 | 19.85  | 19.78 | 19.61  |                        |
| 10              | 64QAM  | 25 | 25 | 20.04  | 19.85 | 19.77  |                        |
| 10              | 64QAM  | 50 | 0  | 19.74  | 19.95 | 19.92  |                        |
| 10              | 256QAM | 1  | 0  | 19.30  | 19.30 | 19.22  | 20                     |
| 10              | 256QAM | 1  | 25 | 19.28  | 19.41 | 19.27  |                        |
| 10              | 256QAM | 1  | 49 | 19.28  | 19.29 | 19.19  |                        |
| 10              | 256QAM | 25 | 0  | 19.44  | 19.11 | 19.26  | 20                     |
| 10              | 256QAM | 25 | 12 | 19.38  | 19.17 | 19.13  |                        |
| 10              | 256QAM | 25 | 25 | 19.41  | 19.26 | 19.36  |                        |
| 10              | 256QAM | 50 | 0  | 19.43  | 19.40 | 19.27  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 20.06  | 19.95 | 19.79  | 20.7                   |
| 5               | QPSK   | 1  | 12 | 19.79  | 19.77 | 19.66  |                        |
| 5               | QPSK   | 1  | 24 | 19.82  | 19.76 | 19.85  |                        |
| 5               | QPSK   | 12 | 0  | 19.97  | 19.79 | 19.63  | 20.7                   |
| 5               | QPSK   | 12 | 7  | 19.70  | 19.79 | 19.75  |                        |
| 5               | QPSK   | 12 | 13 | 19.88  | 19.80 | 19.67  |                        |
| 5               | QPSK   | 25 | 0  | 19.89  | 19.83 | 19.91  |                        |
| 5               | 16QAM  | 1  | 0  | 19.89  | 19.81 | 19.69  | 20.7                   |
| 5               | 16QAM  | 1  | 12 | 19.91  | 19.88 | 19.70  |                        |
| 5               | 16QAM  | 1  | 24 | 19.72  | 19.66 | 19.74  |                        |
| 5               | 16QAM  | 12 | 0  | 19.95  | 19.78 | 19.56  | 20.7                   |
| 5               | 16QAM  | 12 | 7  | 19.85  | 19.69 | 19.84  |                        |
| 5               | 16QAM  | 12 | 13 | 19.74  | 19.58 | 19.71  |                        |
| 5               | 16QAM  | 25 | 0  | 19.90  | 19.92 | 19.82  |                        |
| 5               | 64QAM  | 1  | 0  | 19.92  | 19.73 | 19.68  | 20.7                   |
| 5               | 64QAM  | 1  | 12 | 20.03  | 19.74 | 19.85  |                        |
| 5               | 64QAM  | 1  | 24 | 19.87  | 19.63 | 19.79  |                        |
| 5               | 64QAM  | 12 | 0  | 19.97  | 19.79 | 19.78  | 20.7                   |
| 5               | 64QAM  | 12 | 7  | 20.04  | 19.60 | 19.58  |                        |
| 5               | 64QAM  | 12 | 13 | 19.88  | 19.82 | 19.61  |                        |
| 5               | 64QAM  | 25 | 0  | 19.73  | 19.82 | 19.83  |                        |
| 5               | 256QAM | 1  | 0  | 19.22  | 19.19 | 19.20  | 20                     |
| 5               | 256QAM | 1  | 12 | 19.40  | 19.29 | 19.17  |                        |
| 5               | 256QAM | 1  | 24 | 19.34  | 19.35 | 19.08  |                        |
| 5               | 256QAM | 12 | 0  | 19.39  | 19.18 | 19.30  | 20                     |
| 5               | 256QAM | 12 | 7  | 19.40  | 19.17 | 19.17  |                        |
| 5               | 256QAM | 12 | 13 | 19.38  | 19.35 | 19.34  |                        |
| 5               | 256QAM | 25 | 0  | 19.27  | 19.37 | 19.30  |                        |



&lt;LTE Band 38\_Ant 0\_Index 9&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 22.49                    | 22.45                       | 22.30                     |                        |
| 20              | QPSK       | 1       | 49        | 22.38                    | 22.22                       | 22.26                     | 22.9                   |
| 20              | QPSK       | 1       | 99        | 22.43                    | 22.27                       | 22.29                     |                        |
| 20              | QPSK       | 50      | 0         | 22.40                    | 22.36                       | 22.37                     |                        |
| 20              | QPSK       | 50      | 24        | 22.30                    | 22.26                       | 22.22                     | 22.9                   |
| 20              | QPSK       | 50      | 50        | 22.28                    | 22.25                       | 22.36                     |                        |
| 20              | QPSK       | 100     | 0         | 22.38                    | 22.32                       | 22.35                     |                        |
| 20              | 16QAM      | 1       | 0         | 22.16                    | 22.22                       | 22.20                     | 22.9                   |
| 20              | 16QAM      | 1       | 49        | 22.28                    | 22.18                       | 22.18                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.33                    | 22.25                       | 22.28                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.85                    | 21.88                       | 21.97                     | 22.9                   |
| 20              | 16QAM      | 50      | 24        | 21.92                    | 21.96                       | 21.95                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.99                    | 21.84                       | 21.81                     |                        |
| 20              | 16QAM      | 100     | 0         | 22.01                    | 21.95                       | 21.89                     | 22.9                   |
| 20              | 64QAM      | 1       | 0         | 21.70                    | 21.80                       | 21.61                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.84                    | 21.67                       | 21.63                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.86                    | 21.81                       | 21.68                     | 22                     |
| 20              | 64QAM      | 50      | 0         | 20.91                    | 21.01                       | 20.90                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.04                    | 20.83                       | 20.78                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.98                    | 20.86                       | 20.78                     | 20                     |
| 20              | 64QAM      | 100     | 0         | 20.91                    | 21.04                       | 20.84                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.17                    | 18.85                       | 18.89                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.06                    | 18.86                       | 19.08                     | 20                     |
| 20              | 256QAM     | 1       | 99        | 19.16                    | 18.99                       | 19.06                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.12                    | 19.13                       | 19.01                     |                        |
| 20              | 256QAM     | 50      | 24        | 19.10                    | 19.07                       | 19.04                     | 20                     |
| 20              | 256QAM     | 50      | 50        | 19.16                    | 19.25                       | 19.13                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.11                    | 19.18                       | 19.20                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 22.40                    | 22.32                       | 22.26                     |                        |
| 15              | QPSK       | 1       | 37        | 22.35                    | 22.09                       | 22.21                     | 22.9                   |
| 15              | QPSK       | 1       | 74        | 22.25                    | 22.12                       | 22.32                     |                        |
| 15              | QPSK       | 36      | 0         | 22.23                    | 22.31                       | 22.23                     |                        |
| 15              | QPSK       | 36      | 20        | 22.16                    | 22.08                       | 22.07                     | 22.9                   |
| 15              | QPSK       | 36      | 39        | 22.17                    | 22.22                       | 22.34                     |                        |
| 15              | QPSK       | 75      | 0         | 22.11                    | 22.17                       | 22.31                     |                        |
| 15              | 16QAM      | 1       | 0         | 22.16                    | 22.19                       | 22.12                     | 22.9                   |
| 15              | 16QAM      | 1       | 37        | 21.99                    | 22.15                       | 22.18                     |                        |
| 15              | 16QAM      | 1       | 74        | 22.34                    | 22.12                       | 22.12                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.88                    | 21.80                       | 21.79                     | 22.9                   |
| 15              | 16QAM      | 36      | 20        | 21.80                    | 21.98                       | 21.83                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.98                    | 21.90                       | 21.81                     |                        |
| 15              | 16QAM      | 75      | 0         | 22.06                    | 21.83                       | 21.87                     | 22.9                   |
| 15              | 64QAM      | 1       | 0         | 21.58                    | 21.62                       | 21.76                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.70                    | 21.49                       | 21.48                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.58                    | 21.80                       | 21.53                     | 22                     |
| 15              | 64QAM      | 36      | 0         | 20.84                    | 20.75                       | 20.82                     |                        |
| 15              | 64QAM      | 36      | 20        | 20.81                    | 20.69                       | 20.77                     |                        |
| 15              | 64QAM      | 36      | 39        | 20.91                    | 20.99                       | 20.83                     | 20                     |
| 15              | 64QAM      | 75      | 0         | 20.99                    | 21.02                       | 20.90                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.02                    | 18.92                       | 19.00                     |                        |
| 15              | 256QAM     | 1       | 37        | 18.91                    | 18.78                       | 19.00                     | 20                     |
| 15              | 256QAM     | 1       | 74        | 19.06                    | 18.91                       | 18.86                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.96                    | 18.87                       | 18.89                     |                        |
| 15              | 256QAM     | 36      | 20        | 19.11                    | 18.94                       | 19.19                     | 20                     |
| 15              | 256QAM     | 36      | 39        | 18.81                    | 19.18                       | 18.94                     |                        |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.14  | 18.98 | 18.94  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 22.46  | 22.36 | 22.17  | 22.9                   |
| 10              | QPSK   | 1  | 25 | 22.33  | 22.17 | 22.14  |                        |
| 10              | QPSK   | 1  | 49 | 22.40  | 22.10 | 22.39  |                        |
| 10              | QPSK   | 25 | 0  | 22.33  | 22.25 | 22.21  | 22.9                   |
| 10              | QPSK   | 25 | 12 | 22.27  | 22.07 | 22.19  |                        |
| 10              | QPSK   | 25 | 25 | 22.09  | 22.24 | 22.25  |                        |
| 10              | QPSK   | 50 | 0  | 22.19  | 22.17 | 22.16  | 22.9                   |
| 10              | 16QAM  | 1  | 0  | 22.20  | 22.26 | 22.08  |                        |
| 10              | 16QAM  | 1  | 25 | 22.24  | 22.13 | 22.14  |                        |
| 10              | 16QAM  | 1  | 49 | 22.34  | 22.14 | 22.31  | 22.9                   |
| 10              | 16QAM  | 25 | 0  | 21.74  | 21.76 | 21.94  |                        |
| 10              | 16QAM  | 25 | 12 | 21.77  | 21.82 | 21.73  |                        |
| 10              | 16QAM  | 25 | 25 | 21.81  | 21.74 | 21.79  | 22.9                   |
| 10              | 16QAM  | 50 | 0  | 21.97  | 21.80 | 21.88  |                        |
| 10              | 64QAM  | 1  | 0  | 21.80  | 21.82 | 21.52  |                        |
| 10              | 64QAM  | 1  | 25 | 21.59  | 21.55 | 21.68  | 22.9                   |
| 10              | 64QAM  | 1  | 49 | 21.66  | 21.80 | 21.69  |                        |
| 10              | 64QAM  | 25 | 0  | 20.81  | 20.75 | 20.81  |                        |
| 10              | 64QAM  | 25 | 12 | 20.80  | 20.92 | 20.86  | 22                     |
| 10              | 64QAM  | 25 | 25 | 20.96  | 20.78 | 20.77  |                        |
| 10              | 64QAM  | 50 | 0  | 20.74  | 20.71 | 20.71  |                        |
| 10              | 256QAM | 1  | 0  | 19.02  | 18.86 | 18.96  | 20                     |
| 10              | 256QAM | 1  | 25 | 18.82  | 18.98 | 19.09  |                        |
| 10              | 256QAM | 1  | 49 | 19.02  | 19.03 | 18.92  |                        |
| 10              | 256QAM | 25 | 0  | 19.16  | 18.96 | 19.13  | 20                     |
| 10              | 256QAM | 25 | 12 | 19.06  | 19.01 | 19.01  |                        |
| 10              | 256QAM | 25 | 25 | 19.16  | 18.97 | 19.08  |                        |
| 10              | 256QAM | 50 | 0  | 18.87  | 19.01 | 19.00  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 22.45  | 22.42 | 22.13  | 22.9                   |
| 5               | QPSK   | 1  | 12 | 22.36  | 22.06 | 22.22  |                        |
| 5               | QPSK   | 1  | 24 | 22.29  | 22.16 | 22.27  |                        |
| 5               | QPSK   | 12 | 0  | 22.33  | 22.33 | 22.33  | 22.9                   |
| 5               | QPSK   | 12 | 7  | 22.14  | 22.06 | 22.11  |                        |
| 5               | QPSK   | 12 | 13 | 22.19  | 22.15 | 22.35  |                        |
| 5               | QPSK   | 25 | 0  | 22.08  | 22.22 | 22.32  | 22.9                   |
| 5               | 16QAM  | 1  | 0  | 22.17  | 22.21 | 22.19  |                        |
| 5               | 16QAM  | 1  | 12 | 22.12  | 22.26 | 22.14  |                        |
| 5               | 16QAM  | 1  | 24 | 22.16  | 22.06 | 22.18  | 22.9                   |
| 5               | 16QAM  | 12 | 0  | 21.65  | 21.76 | 21.78  |                        |
| 5               | 16QAM  | 12 | 7  | 21.97  | 21.99 | 21.83  |                        |
| 5               | 16QAM  | 12 | 13 | 21.93  | 21.90 | 21.83  | 22.9                   |
| 5               | 16QAM  | 25 | 0  | 21.92  | 21.88 | 21.74  |                        |
| 5               | 64QAM  | 1  | 0  | 21.61  | 21.79 | 21.75  |                        |
| 5               | 64QAM  | 1  | 12 | 21.67  | 21.70 | 21.61  | 22.9                   |
| 5               | 64QAM  | 1  | 24 | 21.69  | 21.68 | 21.78  |                        |
| 5               | 64QAM  | 12 | 0  | 20.70  | 20.77 | 20.92  |                        |
| 5               | 64QAM  | 12 | 7  | 20.97  | 20.89 | 20.89  | 22                     |
| 5               | 64QAM  | 12 | 13 | 20.94  | 20.77 | 20.87  |                        |
| 5               | 64QAM  | 25 | 0  | 20.83  | 20.83 | 20.72  |                        |
| 5               | 256QAM | 1  | 0  | 18.99  | 18.93 | 18.92  | 20                     |
| 5               | 256QAM | 1  | 12 | 18.92  | 18.95 | 19.09  |                        |
| 5               | 256QAM | 1  | 24 | 18.86  | 18.95 | 18.94  |                        |
| 5               | 256QAM | 12 | 0  | 19.06  | 18.81 | 18.79  | 20                     |
| 5               | 256QAM | 12 | 7  | 18.96  | 19.12 | 19.11  |                        |
| 5               | 256QAM | 12 | 13 | 18.99  | 19.17 | 19.05  |                        |
| 5               | 256QAM | 25 | 0  | 19.12  | 19.04 | 19.13  |                        |



&lt;LTE Band 38\_Ant 5\_Index 9&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 22.42                    | 22.35                       | 22.58                     |                        |
| 20              | QPSK       | 1       | 49        | 22.29                    | 22.23                       | 22.44                     | 23.4                   |
| 20              | QPSK       | 1       | 99        | 22.26                    | 22.33                       | 22.57                     |                        |
| 20              | QPSK       | 50      | 0         | 22.33                    | 22.32                       | 22.47                     |                        |
| 20              | QPSK       | 50      | 24        | 22.30                    | 22.19                       | 22.45                     | 23.4                   |
| 20              | QPSK       | 50      | 50        | 22.28                    | 22.20                       | 22.45                     |                        |
| 20              | QPSK       | 100     | 0         | 22.27                    | 22.24                       | 22.39                     |                        |
| 20              | 16QAM      | 1       | 0         | 22.50                    | 22.46                       | 22.52                     | 23.4                   |
| 20              | 16QAM      | 1       | 49        | 22.35                    | 22.27                       | 22.52                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.42                    | 22.31                       | 22.48                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.40                    | 21.34                       | 21.45                     | 23                     |
| 20              | 16QAM      | 50      | 24        | 21.18                    | 21.33                       | 21.45                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.54                    | 21.28                       | 21.59                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.51                    | 21.43                       | 21.72                     | 23                     |
| 20              | 64QAM      | 1       | 0         | 21.22                    | 21.29                       | 21.57                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.24                    | 21.34                       | 21.37                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.40                    | 21.48                       | 21.30                     | 22                     |
| 20              | 64QAM      | 50      | 0         | 20.53                    | 20.28                       | 20.66                     |                        |
| 20              | 64QAM      | 50      | 24        | 20.52                    | 20.25                       | 20.66                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.38                    | 20.35                       | 20.37                     | 20                     |
| 20              | 64QAM      | 100     | 0         | 20.35                    | 20.36                       | 20.72                     |                        |
| 20              | 256QAM     | 1       | 0         | 18.56                    | 18.78                       | 18.52                     |                        |
| 20              | 256QAM     | 1       | 49        | 18.33                    | 18.26                       | 18.76                     | 20                     |
| 20              | 256QAM     | 1       | 99        | 18.32                    | 18.58                       | 18.57                     |                        |
| 20              | 256QAM     | 50      | 0         | 18.48                    | 18.29                       | 18.93                     |                        |
| 20              | 256QAM     | 50      | 24        | 18.49                    | 18.75                       | 18.95                     | 20                     |
| 20              | 256QAM     | 50      | 50        | 18.75                    | 18.59                       | 18.82                     |                        |
| 20              | 256QAM     | 100     | 0         | 18.50                    | 18.39                       | 18.76                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 22.23                    | 22.28                       | 22.33                     |                        |
| 15              | QPSK       | 1       | 37        | 22.26                    | 22.24                       | 22.54                     | 23.4                   |
| 15              | QPSK       | 1       | 74        | 22.30                    | 22.25                       | 22.42                     |                        |
| 15              | QPSK       | 36      | 0         | 22.19                    | 22.13                       | 22.46                     | 23.4                   |
| 15              | QPSK       | 36      | 20        | 22.28                    | 22.07                       | 22.44                     |                        |
| 15              | QPSK       | 36      | 39        | 22.24                    | 22.17                       | 22.32                     |                        |
| 15              | QPSK       | 75      | 0         | 22.35                    | 22.17                       | 22.30                     | 23.4                   |
| 15              | 16QAM      | 1       | 0         | 22.48                    | 22.27                       | 22.47                     |                        |
| 15              | 16QAM      | 1       | 37        | 22.26                    | 22.06                       | 22.41                     |                        |
| 15              | 16QAM      | 1       | 74        | 22.37                    | 22.34                       | 22.39                     | 23                     |
| 15              | 16QAM      | 36      | 0         | 21.31                    | 21.11                       | 21.38                     |                        |
| 15              | 16QAM      | 36      | 20        | 21.06                    | 21.31                       | 21.25                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.26                    | 21.28                       | 21.28                     | 23                     |
| 15              | 16QAM      | 75      | 0         | 21.43                    | 21.29                       | 21.54                     |                        |
| 15              | 64QAM      | 1       | 0         | 21.03                    | 21.30                       | 21.40                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.21                    | 21.17                       | 21.26                     | 23                     |
| 15              | 64QAM      | 1       | 74        | 21.23                    | 21.36                       | 21.26                     |                        |
| 15              | 64QAM      | 36      | 0         | 20.36                    | 20.30                       | 20.33                     |                        |
| 15              | 64QAM      | 36      | 20        | 20.20                    | 20.13                       | 20.29                     | 22                     |
| 15              | 64QAM      | 36      | 39        | 20.29                    | 20.24                       | 20.16                     |                        |
| 15              | 64QAM      | 75      | 0         | 20.45                    | 20.26                       | 20.56                     |                        |
| 15              | 256QAM     | 1       | 0         | 18.51                    | 18.45                       | 18.45                     | 20                     |
| 15              | 256QAM     | 1       | 37        | 18.53                    | 18.35                       | 18.52                     |                        |
| 15              | 256QAM     | 1       | 74        | 18.44                    | 18.56                       | 18.70                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.30                    | 18.45                       | 18.50                     | 20                     |
| 15              | 256QAM     | 36      | 20        | 18.29                    | 18.27                       | 18.44                     |                        |
| 15              | 256QAM     | 36      | 39        | 18.32                    | 18.53                       | 18.63                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 18.65  | 18.57 | 18.81  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 22.24  | 22.25 | 22.51  | 23.4                   |
| 10              | QPSK   | 1  | 25 | 22.22  | 22.21 | 22.33  |                        |
| 10              | QPSK   | 1  | 49 | 22.21  | 22.21 | 22.43  |                        |
| 10              | QPSK   | 25 | 0  | 22.28  | 22.19 | 22.40  | 23.4                   |
| 10              | QPSK   | 25 | 12 | 22.24  | 22.14 | 22.27  |                        |
| 10              | QPSK   | 25 | 25 | 22.22  | 22.00 | 22.34  |                        |
| 10              | QPSK   | 50 | 0  | 22.18  | 22.05 | 22.40  |                        |
| 10              | 16QAM  | 1  | 0  | 22.34  | 22.39 | 22.49  | 23.4                   |
| 10              | 16QAM  | 1  | 25 | 22.32  | 22.22 | 22.39  |                        |
| 10              | 16QAM  | 1  | 49 | 22.27  | 22.33 | 22.51  |                        |
| 10              | 16QAM  | 25 | 0  | 21.28  | 21.21 | 21.40  | 23                     |
| 10              | 16QAM  | 25 | 12 | 21.20  | 21.06 | 21.24  |                        |
| 10              | 16QAM  | 25 | 25 | 21.18  | 21.15 | 21.39  |                        |
| 10              | 16QAM  | 50 | 0  | 21.43  | 21.17 | 21.70  |                        |
| 10              | 64QAM  | 1  | 0  | 21.00  | 21.30 | 21.46  | 23                     |
| 10              | 64QAM  | 1  | 25 | 21.02  | 21.21 | 21.29  |                        |
| 10              | 64QAM  | 1  | 49 | 21.05  | 21.24 | 21.18  |                        |
| 10              | 64QAM  | 25 | 0  | 20.31  | 20.25 | 20.35  | 22                     |
| 10              | 64QAM  | 25 | 12 | 20.14  | 20.31 | 20.38  |                        |
| 10              | 64QAM  | 25 | 25 | 20.03  | 20.17 | 20.16  |                        |
| 10              | 64QAM  | 50 | 0  | 20.52  | 20.12 | 20.33  |                        |
| 10              | 256QAM | 1  | 0  | 18.45  | 18.76 | 18.33  | 20                     |
| 10              | 256QAM | 1  | 25 | 18.29  | 18.05 | 18.64  |                        |
| 10              | 256QAM | 1  | 49 | 18.24  | 18.22 | 18.25  |                        |
| 10              | 256QAM | 25 | 0  | 18.42  | 18.35 | 18.87  | 20                     |
| 10              | 256QAM | 25 | 12 | 18.42  | 18.71 | 18.60  |                        |
| 10              | 256QAM | 25 | 25 | 18.49  | 18.54 | 18.64  |                        |
| 10              | 256QAM | 50 | 0  | 18.72  | 18.44 | 18.64  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 22.43  | 22.30 | 22.42  | 23.4                   |
| 5               | QPSK   | 1  | 12 | 22.36  | 22.38 | 22.48  |                        |
| 5               | QPSK   | 1  | 24 | 22.28  | 22.29 | 22.36  |                        |
| 5               | QPSK   | 12 | 0  | 22.16  | 22.19 | 22.32  | 23.4                   |
| 5               | QPSK   | 12 | 7  | 22.14  | 22.16 | 22.27  |                        |
| 5               | QPSK   | 12 | 13 | 22.27  | 22.18 | 22.30  |                        |
| 5               | QPSK   | 25 | 0  | 22.08  | 22.26 | 22.21  |                        |
| 5               | 16QAM  | 1  | 0  | 22.34  | 22.36 | 22.55  | 23.4                   |
| 5               | 16QAM  | 1  | 12 | 22.18  | 22.15 | 22.50  |                        |
| 5               | 16QAM  | 1  | 24 | 22.28  | 22.37 | 22.51  |                        |
| 5               | 16QAM  | 12 | 0  | 21.06  | 21.33 | 21.25  | 23                     |
| 5               | 16QAM  | 12 | 7  | 21.05  | 21.31 | 21.29  |                        |
| 5               | 16QAM  | 12 | 13 | 21.51  | 21.03 | 21.20  |                        |
| 5               | 16QAM  | 25 | 0  | 21.48  | 21.08 | 21.54  |                        |
| 5               | 64QAM  | 1  | 0  | 21.32  | 21.46 | 21.29  | 23                     |
| 5               | 64QAM  | 1  | 12 | 21.20  | 21.02 | 21.01  |                        |
| 5               | 64QAM  | 1  | 24 | 21.08  | 21.09 | 21.47  |                        |
| 5               | 64QAM  | 12 | 0  | 20.19  | 20.39 | 20.64  | 22                     |
| 5               | 64QAM  | 12 | 7  | 20.08  | 20.37 | 20.47  |                        |
| 5               | 64QAM  | 12 | 13 | 20.06  | 20.08 | 20.25  |                        |
| 5               | 64QAM  | 25 | 0  | 20.34  | 20.08 | 20.65  |                        |
| 5               | 256QAM | 1  | 0  | 18.30  | 18.45 | 18.47  | 20                     |
| 5               | 256QAM | 1  | 12 | 18.33  | 18.23 | 18.68  |                        |
| 5               | 256QAM | 1  | 24 | 18.32  | 18.24 | 18.56  |                        |
| 5               | 256QAM | 12 | 0  | 18.62  | 18.18 | 18.88  | 20                     |
| 5               | 256QAM | 12 | 7  | 18.52  | 18.47 | 18.66  |                        |
| 5               | 256QAM | 12 | 13 | 18.38  | 18.34 | 18.35  |                        |
| 5               | 256QAM | 25 | 0  | 18.69  | 18.36 | 18.48  |                        |



&lt;LTE Band 38\_Ant 2\_Index 10&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 20.13                    | 20.19                       | 20.16                     |                        |
| 20              | QPSK       | 1       | 49        | 20.12                    | 20.18                       | 20.16                     | 21                     |
| 20              | QPSK       | 1       | 99        | 20.13                    | 20.17                       | 20.15                     |                        |
| 20              | QPSK       | 50      | 0         | 20.15                    | 20.17                       | 20.16                     |                        |
| 20              | QPSK       | 50      | 24        | 20.13                    | 20.16                       | 20.15                     | 21                     |
| 20              | QPSK       | 50      | 50        | 20.11                    | 20.15                       | 20.14                     |                        |
| 20              | QPSK       | 100     | 0         | 20.14                    | 20.14                       | 20.13                     |                        |
| 20              | 16QAM      | 1       | 0         | 20.04                    | 20.13                       | 20.02                     | 21                     |
| 20              | 16QAM      | 1       | 49        | 20.00                    | 20.09                       | 20.07                     |                        |
| 20              | 16QAM      | 1       | 99        | 20.04                    | 20.13                       | 19.98                     |                        |
| 20              | 16QAM      | 50      | 0         | 20.15                    | 20.15                       | 20.15                     | 21                     |
| 20              | 16QAM      | 50      | 24        | 20.14                    | 20.15                       | 20.15                     |                        |
| 20              | 16QAM      | 50      | 50        | 20.16                    | 20.13                       | 20.15                     |                        |
| 20              | 16QAM      | 100     | 0         | 20.15                    | 20.09                       | 20.15                     | 21                     |
| 20              | 64QAM      | 1       | 0         | 19.99                    | 20.05                       | 20.04                     |                        |
| 20              | 64QAM      | 1       | 49        | 19.99                    | 20.01                       | 20.03                     |                        |
| 20              | 64QAM      | 1       | 99        | 20.03                    | 20.09                       | 20.05                     | 21                     |
| 20              | 64QAM      | 50      | 0         | 20.12                    | 20.15                       | 20.14                     |                        |
| 20              | 64QAM      | 50      | 24        | 20.14                    | 20.14                       | 20.16                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.16                    | 20.16                       | 20.15                     | 21                     |
| 20              | 64QAM      | 100     | 0         | 20.10                    | 20.17                       | 20.14                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.39                    | 19.35                       | 19.25                     | 20                     |
| 20              | 256QAM     | 1       | 49        | 19.36                    | 19.55                       | 19.27                     |                        |
| 20              | 256QAM     | 1       | 99        | 19.54                    | 19.30                       | 19.55                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.64                    | 19.46                       | 19.57                     | 20                     |
| 20              | 256QAM     | 50      | 24        | 19.66                    | 19.61                       | 19.47                     |                        |
| 20              | 256QAM     | 50      | 50        | 19.41                    | 19.70                       | 19.52                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.52                    | 19.60                       | 19.77                     | Tune-up limit<br>(dBm) |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     |                        |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 20.00                    | 20.17                       | 19.96                     | 21                     |
| 15              | QPSK       | 1       | 37        | 19.96                    | 20.02                       | 20.07                     |                        |
| 15              | QPSK       | 1       | 74        | 20.11                    | 20.13                       | 20.00                     |                        |
| 15              | QPSK       | 36      | 0         | 20.07                    | 20.00                       | 20.08                     | 21                     |
| 15              | QPSK       | 36      | 20        | 20.12                    | 20.00                       | 20.08                     |                        |
| 15              | QPSK       | 36      | 39        | 20.09                    | 20.01                       | 19.99                     |                        |
| 15              | QPSK       | 75      | 0         | 20.08                    | 19.96                       | 20.13                     | 21                     |
| 15              | 16QAM      | 1       | 0         | 19.85                    | 19.94                       | 19.85                     |                        |
| 15              | 16QAM      | 1       | 37        | 19.89                    | 20.08                       | 20.00                     |                        |
| 15              | 16QAM      | 1       | 74        | 19.86                    | 20.12                       | 19.83                     | 21                     |
| 15              | 16QAM      | 36      | 0         | 19.99                    | 20.10                       | 20.09                     |                        |
| 15              | 16QAM      | 36      | 20        | 20.12                    | 20.04                       | 20.07                     |                        |
| 15              | 16QAM      | 36      | 39        | 20.05                    | 19.97                       | 20.13                     | 21                     |
| 15              | 16QAM      | 75      | 0         | 19.98                    | 20.09                       | 20.03                     |                        |
| 15              | 64QAM      | 1       | 0         | 19.90                    | 19.95                       | 19.97                     |                        |
| 15              | 64QAM      | 1       | 37        | 19.94                    | 20.01                       | 19.91                     | 21                     |
| 15              | 64QAM      | 1       | 74        | 19.92                    | 19.98                       | 19.88                     |                        |
| 15              | 64QAM      | 36      | 0         | 20.02                    | 20.09                       | 20.10                     |                        |
| 15              | 64QAM      | 36      | 20        | 20.12                    | 19.96                       | 20.05                     | 21                     |
| 15              | 64QAM      | 36      | 39        | 19.97                    | 19.99                       | 20.12                     |                        |
| 15              | 64QAM      | 75      | 0         | 19.97                    | 20.04                       | 20.05                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.19                    | 19.19                       | 19.06                     | 20                     |
| 15              | 256QAM     | 1       | 37        | 19.35                    | 19.52                       | 19.23                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.41                    | 19.22                       | 19.43                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.46                    | 19.29                       | 19.44                     | 20                     |
| 15              | 256QAM     | 36      | 20        | 19.64                    | 19.59                       | 19.47                     |                        |
| 15              | 256QAM     | 36      | 39        | 19.25                    | 19.60                       | 19.50                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.41  | 19.49 | 19.66  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 19.98  | 20.05 | 20.01  | 21                     |
| 10              | QPSK   | 1  | 25 | 20.09  | 20.04 | 19.96  |                        |
| 10              | QPSK   | 1  | 49 | 20.06  | 20.04 | 20.04  |                        |
| 10              | QPSK   | 25 | 0  | 20.11  | 20.17 | 20.00  | 21                     |
| 10              | QPSK   | 25 | 12 | 19.94  | 20.00 | 20.08  |                        |
| 10              | QPSK   | 25 | 25 | 20.09  | 20.15 | 20.00  |                        |
| 10              | QPSK   | 50 | 0  | 20.12  | 19.95 | 20.04  | 21                     |
| 10              | 16QAM  | 1  | 0  | 19.99  | 20.08 | 19.87  |                        |
| 10              | 16QAM  | 1  | 25 | 19.85  | 20.09 | 19.87  |                        |
| 10              | 16QAM  | 1  | 49 | 19.97  | 20.05 | 19.88  | 21                     |
| 10              | 16QAM  | 25 | 0  | 20.12  | 20.02 | 20.06  |                        |
| 10              | 16QAM  | 25 | 12 | 19.97  | 19.95 | 20.11  |                        |
| 10              | 16QAM  | 25 | 25 | 20.11  | 20.07 | 20.04  | 21                     |
| 10              | 16QAM  | 50 | 0  | 19.96  | 19.98 | 19.97  |                        |
| 10              | 64QAM  | 1  | 0  | 19.94  | 19.89 | 19.87  | 21                     |
| 10              | 64QAM  | 1  | 25 | 19.84  | 19.96 | 20.00  |                        |
| 10              | 64QAM  | 1  | 49 | 19.94  | 19.92 | 19.96  |                        |
| 10              | 64QAM  | 25 | 0  | 19.98  | 20.06 | 19.99  | 21                     |
| 10              | 64QAM  | 25 | 12 | 19.97  | 20.07 | 20.04  |                        |
| 10              | 64QAM  | 25 | 25 | 20.02  | 20.06 | 20.03  |                        |
| 10              | 64QAM  | 50 | 0  | 19.95  | 19.99 | 20.03  | 20                     |
| 10              | 256QAM | 1  | 0  | 19.33  | 19.24 | 19.08  |                        |
| 10              | 256QAM | 1  | 25 | 19.35  | 19.41 | 19.17  |                        |
| 10              | 256QAM | 1  | 49 | 19.40  | 19.27 | 19.35  | 20                     |
| 10              | 256QAM | 25 | 0  | 19.53  | 19.41 | 19.49  |                        |
| 10              | 256QAM | 25 | 12 | 19.53  | 19.57 | 19.32  |                        |
| 10              | 256QAM | 25 | 25 | 19.23  | 19.70 | 19.42  | 20                     |
| 10              | 256QAM | 50 | 0  | 19.44  | 19.53 | 19.59  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 19.97  | 20.09 | 20.15  | 21                     |
| 5               | QPSK   | 1  | 12 | 20.11  | 20.03 | 20.00  |                        |
| 5               | QPSK   | 1  | 24 | 20.07  | 20.10 | 20.01  |                        |
| 5               | QPSK   | 12 | 0  | 19.98  | 20.12 | 19.96  | 21                     |
| 5               | QPSK   | 12 | 7  | 20.12  | 20.12 | 19.96  |                        |
| 5               | QPSK   | 12 | 13 | 19.98  | 19.95 | 19.96  |                        |
| 5               | QPSK   | 25 | 0  | 19.98  | 20.11 | 19.96  | 21                     |
| 5               | 16QAM  | 1  | 0  | 19.89  | 20.02 | 19.87  |                        |
| 5               | 16QAM  | 1  | 12 | 19.85  | 20.00 | 19.96  |                        |
| 5               | 16QAM  | 1  | 24 | 19.87  | 20.02 | 19.96  | 21                     |
| 5               | 16QAM  | 12 | 0  | 20.13  | 20.09 | 20.05  |                        |
| 5               | 16QAM  | 12 | 7  | 20.06  | 20.02 | 19.96  |                        |
| 5               | 16QAM  | 12 | 13 | 20.05  | 19.98 | 20.02  | 21                     |
| 5               | 16QAM  | 25 | 0  | 19.99  | 20.02 | 20.01  |                        |
| 5               | 64QAM  | 1  | 0  | 19.82  | 19.93 | 20.00  |                        |
| 5               | 64QAM  | 1  | 12 | 19.86  | 19.98 | 19.95  | 21                     |
| 5               | 64QAM  | 1  | 24 | 19.91  | 19.92 | 19.86  |                        |
| 5               | 64QAM  | 12 | 0  | 20.11  | 20.12 | 20.09  | 21                     |
| 5               | 64QAM  | 12 | 7  | 19.96  | 20.14 | 20.06  |                        |
| 5               | 64QAM  | 12 | 13 | 20.09  | 20.06 | 20.01  |                        |
| 5               | 64QAM  | 25 | 0  | 20.04  | 19.97 | 20.03  | 20                     |
| 5               | 256QAM | 1  | 0  | 19.36  | 19.20 | 19.05  |                        |
| 5               | 256QAM | 1  | 12 | 19.30  | 19.36 | 19.09  |                        |
| 5               | 256QAM | 1  | 24 | 19.53  | 19.12 | 19.53  | 20                     |
| 5               | 256QAM | 12 | 0  | 19.64  | 19.41 | 19.52  |                        |
| 5               | 256QAM | 12 | 7  | 19.61  | 19.45 | 19.44  |                        |
| 5               | 256QAM | 12 | 13 | 19.41  | 19.56 | 19.35  | 20                     |
| 5               | 256QAM | 25 | 0  | 19.47  | 19.60 | 19.62  |                        |



## &lt;LTE Band 38\_Ant 1\_Index 10&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 22.22                    | 22.16                       | 22.07                     |                        |
| 20              | QPSK       | 1       | 49        | 22.18                    | 22.13                       | 21.97                     | 23.5                   |
| 20              | QPSK       | 1       | 99        | 22.19                    | 21.97                       | 21.97                     |                        |
| 20              | QPSK       | 50      | 0         | 22.21                    | 22.15                       | 22.19                     |                        |
| 20              | QPSK       | 50      | 24        | 22.15                    | 22.08                       | 21.97                     | 23.5                   |
| 20              | QPSK       | 50      | 50        | 22.13                    | 21.98                       | 21.94                     |                        |
| 20              | QPSK       | 100     | 0         | 22.18                    | 22.13                       | 21.97                     |                        |
| 20              | 16QAM      | 1       | 0         | 22.19                    | 22.13                       | 22.17                     | 23.5                   |
| 20              | 16QAM      | 1       | 49        | 22.17                    | 22.11                       | 22.18                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.20                    | 22.15                       | 22.18                     |                        |
| 20              | 16QAM      | 50      | 0         | 22.04                    | 22.01                       | 22.13                     | 23                     |
| 20              | 16QAM      | 50      | 24        | 22.02                    | 21.87                       | 21.95                     |                        |
| 20              | 16QAM      | 50      | 50        | 22.04                    | 22.17                       | 21.94                     |                        |
| 20              | 16QAM      | 100     | 0         | 22.12                    | 22.01                       | 22.00                     | 23                     |
| 20              | 64QAM      | 1       | 0         | 22.10                    | 21.86                       | 22.00                     |                        |
| 20              | 64QAM      | 1       | 49        | 22.05                    | 21.93                       | 22.03                     |                        |
| 20              | 64QAM      | 1       | 99        | 22.07                    | 21.94                       | 22.03                     | 22                     |
| 20              | 64QAM      | 50      | 0         | 21.29                    | 21.10                       | 21.06                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.19                    | 21.12                       | 21.05                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.24                    | 21.04                       | 21.11                     | 20                     |
| 20              | 64QAM      | 100     | 0         | 21.15                    | 21.04                       | 21.23                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.42                    | 19.18                       | 19.34                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.55                    | 19.36                       | 19.27                     | 20                     |
| 20              | 256QAM     | 1       | 99        | 19.37                    | 19.45                       | 19.42                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.48                    | 19.27                       | 19.34                     |                        |
| 20              | 256QAM     | 50      | 24        | 19.48                    | 19.34                       | 19.29                     | 20                     |
| 20              | 256QAM     | 50      | 50        | 19.42                    | 19.36                       | 19.35                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.40                    | 19.39                       | 19.32                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 22.03                    | 22.07                       | 22.07                     |                        |
| 15              | QPSK       | 1       | 37        | 22.14                    | 22.08                       | 22.04                     | 23.5                   |
| 15              | QPSK       | 1       | 74        | 21.88                    | 21.87                       | 21.98                     |                        |
| 15              | QPSK       | 36      | 0         | 22.09                    | 22.03                       | 22.11                     |                        |
| 15              | QPSK       | 36      | 20        | 21.97                    | 21.78                       | 22.01                     | 23.5                   |
| 15              | QPSK       | 36      | 39        | 21.96                    | 21.86                       | 22.05                     |                        |
| 15              | QPSK       | 75      | 0         | 22.13                    | 22.07                       | 22.08                     |                        |
| 15              | 16QAM      | 1       | 0         | 22.07                    | 22.04                       | 22.11                     | 23.5                   |
| 15              | 16QAM      | 1       | 37        | 21.99                    | 22.06                       | 21.88                     |                        |
| 15              | 16QAM      | 1       | 74        | 22.08                    | 22.06                       | 22.09                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.86                    | 21.94                       | 21.80                     | 23                     |
| 15              | 16QAM      | 36      | 20        | 21.92                    | 21.81                       | 21.80                     |                        |
| 15              | 16QAM      | 36      | 39        | 22.04                    | 22.00                       | 21.89                     |                        |
| 15              | 16QAM      | 75      | 0         | 22.15                    | 21.88                       | 21.88                     | 23                     |
| 15              | 64QAM      | 1       | 0         | 21.95                    | 21.73                       | 22.05                     |                        |
| 15              | 64QAM      | 1       | 37        | 22.06                    | 21.93                       | 21.75                     |                        |
| 15              | 64QAM      | 1       | 74        | 22.09                    | 21.92                       | 21.76                     | 22                     |
| 15              | 64QAM      | 36      | 0         | 21.17                    | 21.00                       | 20.90                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.08                    | 20.99                       | 21.19                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.10                    | 21.13                       | 21.00                     | 20                     |
| 15              | 64QAM      | 75      | 0         | 21.25                    | 21.04                       | 20.87                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.36                    | 19.03                       | 19.43                     |                        |
| 15              | 256QAM     | 1       | 37        | 19.29                    | 19.21                       | 19.13                     | 20                     |
| 15              | 256QAM     | 1       | 74        | 19.22                    | 19.13                       | 19.40                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.50                    | 19.23                       | 19.27                     |                        |
| 15              | 256QAM     | 36      | 20        | 19.40                    | 19.43                       | 19.25                     | 20                     |
| 15              | 256QAM     | 36      | 39        | 19.38                    | 19.23                       | 19.24                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.30  | 19.24 | 19.34  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 22.09  | 22.00 | 21.93  | 23.5                   |
| 10              | QPSK   | 1  | 25 | 22.06  | 22.03 | 21.78  |                        |
| 10              | QPSK   | 1  | 49 | 22.06  | 22.03 | 21.81  |                        |
| 10              | QPSK   | 25 | 0  | 22.20  | 22.07 | 22.05  | 23.5                   |
| 10              | QPSK   | 25 | 12 | 22.08  | 22.02 | 21.92  |                        |
| 10              | QPSK   | 25 | 25 | 22.13  | 21.86 | 21.97  |                        |
| 10              | QPSK   | 50 | 0  | 21.93  | 22.00 | 21.84  | 23.5                   |
| 10              | 16QAM  | 1  | 0  | 22.13  | 22.08 | 22.05  |                        |
| 10              | 16QAM  | 1  | 25 | 21.91  | 21.96 | 21.96  |                        |
| 10              | 16QAM  | 1  | 49 | 22.17  | 22.11 | 21.91  | 23                     |
| 10              | 16QAM  | 25 | 0  | 22.07  | 22.02 | 22.03  |                        |
| 10              | 16QAM  | 25 | 12 | 21.99  | 21.69 | 21.87  |                        |
| 10              | 16QAM  | 25 | 25 | 22.03  | 21.96 | 21.93  | 23                     |
| 10              | 16QAM  | 50 | 0  | 22.09  | 22.02 | 21.85  |                        |
| 10              | 64QAM  | 1  | 0  | 22.05  | 21.77 | 21.74  |                        |
| 10              | 64QAM  | 1  | 25 | 22.02  | 21.79 | 21.96  | 23                     |
| 10              | 64QAM  | 1  | 49 | 21.95  | 21.91 | 21.94  |                        |
| 10              | 64QAM  | 25 | 0  | 21.11  | 20.99 | 21.02  | 22                     |
| 10              | 64QAM  | 25 | 12 | 21.00  | 20.96 | 20.96  |                        |
| 10              | 64QAM  | 25 | 25 | 21.05  | 20.99 | 21.11  |                        |
| 10              | 64QAM  | 50 | 0  | 21.29  | 21.05 | 21.19  | 20                     |
| 10              | 256QAM | 1  | 0  | 19.36  | 19.16 | 19.14  |                        |
| 10              | 256QAM | 1  | 25 | 19.20  | 19.16 | 19.19  |                        |
| 10              | 256QAM | 1  | 49 | 19.14  | 19.43 | 19.25  | 20                     |
| 10              | 256QAM | 25 | 0  | 19.36  | 19.12 | 19.27  |                        |
| 10              | 256QAM | 25 | 12 | 19.20  | 19.25 | 19.46  |                        |
| 10              | 256QAM | 25 | 25 | 19.28  | 19.39 | 19.19  | 20                     |
| 10              | 256QAM | 50 | 0  | 19.42  | 19.32 | 19.19  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 22.04  | 21.96 | 21.90  | 23.5                   |
| 5               | QPSK   | 1  | 12 | 22.07  | 21.94 | 21.99  |                        |
| 5               | QPSK   | 1  | 24 | 22.04  | 21.98 | 22.07  |                        |
| 5               | QPSK   | 12 | 0  | 22.06  | 22.00 | 21.97  | 23.5                   |
| 5               | QPSK   | 12 | 7  | 22.00  | 21.76 | 21.99  |                        |
| 5               | QPSK   | 12 | 13 | 22.18  | 22.06 | 21.96  |                        |
| 5               | QPSK   | 25 | 0  | 21.93  | 21.97 | 21.86  | 23.5                   |
| 5               | 16QAM  | 1  | 0  | 22.18  | 22.05 | 21.95  |                        |
| 5               | 16QAM  | 1  | 12 | 22.10  | 21.98 | 22.09  |                        |
| 5               | 16QAM  | 1  | 24 | 22.04  | 21.97 | 21.96  | 23                     |
| 5               | 16QAM  | 12 | 0  | 21.97  | 22.06 | 21.90  |                        |
| 5               | 16QAM  | 12 | 7  | 22.16  | 21.67 | 21.88  |                        |
| 5               | 16QAM  | 12 | 13 | 21.97  | 21.95 | 21.95  | 23                     |
| 5               | 16QAM  | 25 | 0  | 22.00  | 21.97 | 22.01  |                        |
| 5               | 64QAM  | 1  | 0  | 21.95  | 21.78 | 21.82  |                        |
| 5               | 64QAM  | 1  | 12 | 22.02  | 21.79 | 21.86  | 22                     |
| 5               | 64QAM  | 1  | 24 | 21.96  | 21.93 | 21.76  |                        |
| 5               | 64QAM  | 12 | 0  | 21.12  | 20.88 | 21.16  |                        |
| 5               | 64QAM  | 12 | 7  | 21.16  | 20.99 | 21.14  | 20                     |
| 5               | 64QAM  | 12 | 13 | 21.24  | 21.07 | 20.98  |                        |
| 5               | 64QAM  | 25 | 0  | 21.17  | 20.97 | 20.97  |                        |
| 5               | 256QAM | 1  | 0  | 19.53  | 19.17 | 19.33  | 20                     |
| 5               | 256QAM | 1  | 12 | 19.44  | 19.07 | 19.22  |                        |
| 5               | 256QAM | 1  | 24 | 19.20  | 19.43 | 19.22  |                        |
| 5               | 256QAM | 12 | 0  | 19.44  | 19.15 | 19.26  | 20                     |
| 5               | 256QAM | 12 | 7  | 19.32  | 19.29 | 19.30  |                        |
| 5               | 256QAM | 12 | 13 | 19.33  | 19.28 | 19.31  |                        |
| 5               | 256QAM | 25 | 0  | 19.30  | 19.29 | 19.32  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 22.49                    | 22.45                       | 22.30                     |                        |
| 20              | QPSK       | 1       | 49        | 22.38                    | 22.22                       | 22.26                     | 23.7                   |
| 20              | QPSK       | 1       | 99        | 22.43                    | 22.27                       | 22.29                     |                        |
| 20              | QPSK       | 50      | 0         | 22.40                    | 22.36                       | 22.37                     |                        |
| 20              | QPSK       | 50      | 24        | 22.30                    | 22.26                       | 22.22                     | 23.7                   |
| 20              | QPSK       | 50      | 50        | 22.28                    | 22.25                       | 22.36                     |                        |
| 20              | QPSK       | 100     | 0         | 22.38                    | 22.32                       | 22.35                     |                        |
| 20              | 16QAM      | 1       | 0         | 22.16                    | 22.22                       | 22.20                     | 23.7                   |
| 20              | 16QAM      | 1       | 49        | 22.28                    | 22.18                       | 22.18                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.33                    | 22.25                       | 22.28                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.85                    | 21.88                       | 21.97                     | 23                     |
| 20              | 16QAM      | 50      | 24        | 21.92                    | 21.96                       | 21.95                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.99                    | 21.84                       | 21.81                     |                        |
| 20              | 16QAM      | 100     | 0         | 22.01                    | 21.95                       | 21.89                     | 23                     |
| 20              | 64QAM      | 1       | 0         | 21.70                    | 21.80                       | 21.61                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.84                    | 21.67                       | 21.63                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.86                    | 21.81                       | 21.68                     | 22                     |
| 20              | 64QAM      | 50      | 0         | 20.91                    | 21.01                       | 20.90                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.04                    | 20.83                       | 20.78                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.98                    | 20.86                       | 20.78                     | 20                     |
| 20              | 64QAM      | 100     | 0         | 20.91                    | 21.04                       | 20.84                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.17                    | 18.85                       | 18.89                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.06                    | 18.86                       | 19.08                     | 20                     |
| 20              | 256QAM     | 1       | 99        | 19.16                    | 18.99                       | 19.06                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.12                    | 19.13                       | 19.01                     |                        |
| 20              | 256QAM     | 50      | 24        | 19.10                    | 19.07                       | 19.04                     | 20                     |
| 20              | 256QAM     | 50      | 50        | 19.16                    | 19.25                       | 19.13                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.11                    | 19.18                       | 19.20                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 22.40                    | 22.32                       | 22.26                     |                        |
| 15              | QPSK       | 1       | 37        | 22.35                    | 22.09                       | 22.21                     | 23.7                   |
| 15              | QPSK       | 1       | 74        | 22.25                    | 22.12                       | 22.32                     |                        |
| 15              | QPSK       | 36      | 0         | 22.23                    | 22.31                       | 22.23                     |                        |
| 15              | QPSK       | 36      | 20        | 22.16                    | 22.08                       | 22.07                     | 23.7                   |
| 15              | QPSK       | 36      | 39        | 22.17                    | 22.22                       | 22.34                     |                        |
| 15              | QPSK       | 75      | 0         | 22.11                    | 22.17                       | 22.31                     |                        |
| 15              | 16QAM      | 1       | 0         | 22.16                    | 22.19                       | 22.12                     | 23.7                   |
| 15              | 16QAM      | 1       | 37        | 21.99                    | 22.15                       | 22.18                     |                        |
| 15              | 16QAM      | 1       | 74        | 22.34                    | 22.12                       | 22.12                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.88                    | 21.80                       | 21.79                     | 23                     |
| 15              | 16QAM      | 36      | 20        | 21.80                    | 21.98                       | 21.83                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.98                    | 21.90                       | 21.81                     |                        |
| 15              | 16QAM      | 75      | 0         | 22.06                    | 21.83                       | 21.87                     | 23                     |
| 15              | 64QAM      | 1       | 0         | 21.58                    | 21.62                       | 21.76                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.70                    | 21.49                       | 21.48                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.58                    | 21.80                       | 21.53                     | 22                     |
| 15              | 64QAM      | 36      | 0         | 20.84                    | 20.75                       | 20.82                     |                        |
| 15              | 64QAM      | 36      | 20        | 20.81                    | 20.69                       | 20.77                     |                        |
| 15              | 64QAM      | 36      | 39        | 20.91                    | 20.99                       | 20.83                     | 20                     |
| 15              | 64QAM      | 75      | 0         | 20.99                    | 21.02                       | 20.90                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.02                    | 18.92                       | 19.00                     |                        |
| 15              | 256QAM     | 1       | 37        | 18.91                    | 18.78                       | 19.00                     | 20                     |
| 15              | 256QAM     | 1       | 74        | 19.06                    | 18.91                       | 18.86                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.96                    | 18.87                       | 18.89                     |                        |
| 15              | 256QAM     | 36      | 20        | 19.11                    | 18.94                       | 19.19                     | 20                     |
| 15              | 256QAM     | 36      | 39        | 18.81                    | 19.18                       | 18.94                     |                        |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.14  | 18.98 | 18.94  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 22.46  | 22.36 | 22.17  | 23.7                   |
| 10              | QPSK   | 1  | 25 | 22.33  | 22.17 | 22.14  |                        |
| 10              | QPSK   | 1  | 49 | 22.40  | 22.10 | 22.39  |                        |
| 10              | QPSK   | 25 | 0  | 22.33  | 22.25 | 22.21  | 23.7                   |
| 10              | QPSK   | 25 | 12 | 22.27  | 22.07 | 22.19  |                        |
| 10              | QPSK   | 25 | 25 | 22.09  | 22.24 | 22.25  |                        |
| 10              | QPSK   | 50 | 0  | 22.19  | 22.17 | 22.16  | 23.7                   |
| 10              | 16QAM  | 1  | 0  | 22.20  | 22.26 | 22.08  |                        |
| 10              | 16QAM  | 1  | 25 | 22.24  | 22.13 | 22.14  |                        |
| 10              | 16QAM  | 1  | 49 | 22.34  | 22.14 | 22.31  | 23                     |
| 10              | 16QAM  | 25 | 0  | 21.74  | 21.76 | 21.94  |                        |
| 10              | 16QAM  | 25 | 12 | 21.77  | 21.82 | 21.73  |                        |
| 10              | 16QAM  | 25 | 25 | 21.81  | 21.74 | 21.79  | 23                     |
| 10              | 16QAM  | 50 | 0  | 21.97  | 21.80 | 21.88  |                        |
| 10              | 64QAM  | 1  | 0  | 21.80  | 21.82 | 21.52  |                        |
| 10              | 64QAM  | 1  | 25 | 21.59  | 21.55 | 21.68  | 23                     |
| 10              | 64QAM  | 1  | 49 | 21.66  | 21.80 | 21.69  |                        |
| 10              | 64QAM  | 25 | 0  | 20.81  | 20.75 | 20.81  | 22                     |
| 10              | 64QAM  | 25 | 12 | 20.80  | 20.92 | 20.86  |                        |
| 10              | 64QAM  | 25 | 25 | 20.96  | 20.78 | 20.77  |                        |
| 10              | 64QAM  | 50 | 0  | 20.74  | 20.71 | 20.71  | 20                     |
| 10              | 256QAM | 1  | 0  | 19.02  | 18.86 | 18.96  |                        |
| 10              | 256QAM | 1  | 25 | 18.82  | 18.98 | 19.09  |                        |
| 10              | 256QAM | 1  | 49 | 19.02  | 19.03 | 18.92  | 20                     |
| 10              | 256QAM | 25 | 0  | 19.16  | 18.96 | 19.13  |                        |
| 10              | 256QAM | 25 | 12 | 19.06  | 19.01 | 19.01  |                        |
| 10              | 256QAM | 25 | 25 | 19.16  | 18.97 | 19.08  | 20                     |
| 10              | 256QAM | 50 | 0  | 18.87  | 19.01 | 19.00  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 22.45  | 22.42 | 22.13  | 23.7                   |
| 5               | QPSK   | 1  | 12 | 22.36  | 22.06 | 22.22  |                        |
| 5               | QPSK   | 1  | 24 | 22.29  | 22.16 | 22.27  |                        |
| 5               | QPSK   | 12 | 0  | 22.33  | 22.33 | 22.33  | 23.7                   |
| 5               | QPSK   | 12 | 7  | 22.14  | 22.06 | 22.11  |                        |
| 5               | QPSK   | 12 | 13 | 22.19  | 22.15 | 22.35  |                        |
| 5               | QPSK   | 25 | 0  | 22.08  | 22.22 | 22.32  | 23.7                   |
| 5               | 16QAM  | 1  | 0  | 22.17  | 22.21 | 22.19  |                        |
| 5               | 16QAM  | 1  | 12 | 22.12  | 22.26 | 22.14  |                        |
| 5               | 16QAM  | 1  | 24 | 22.16  | 22.06 | 22.18  | 23                     |
| 5               | 16QAM  | 12 | 0  | 21.65  | 21.76 | 21.78  |                        |
| 5               | 16QAM  | 12 | 7  | 21.97  | 21.99 | 21.83  |                        |
| 5               | 16QAM  | 12 | 13 | 21.93  | 21.90 | 21.83  | 23                     |
| 5               | 16QAM  | 25 | 0  | 21.92  | 21.88 | 21.74  |                        |
| 5               | 64QAM  | 1  | 0  | 21.61  | 21.79 | 21.75  |                        |
| 5               | 64QAM  | 1  | 12 | 21.67  | 21.70 | 21.61  | 23                     |
| 5               | 64QAM  | 1  | 24 | 21.69  | 21.68 | 21.78  |                        |
| 5               | 64QAM  | 12 | 0  | 20.70  | 20.77 | 20.92  | 22                     |
| 5               | 64QAM  | 12 | 7  | 20.97  | 20.89 | 20.89  |                        |
| 5               | 64QAM  | 12 | 13 | 20.94  | 20.77 | 20.87  |                        |
| 5               | 64QAM  | 25 | 0  | 20.83  | 20.83 | 20.72  | 20                     |
| 5               | 256QAM | 1  | 0  | 18.99  | 18.93 | 18.92  |                        |
| 5               | 256QAM | 1  | 12 | 18.92  | 18.95 | 19.09  |                        |
| 5               | 256QAM | 1  | 24 | 18.86  | 18.95 | 18.94  | 20                     |
| 5               | 256QAM | 12 | 0  | 19.06  | 18.81 | 18.79  |                        |
| 5               | 256QAM | 12 | 7  | 18.96  | 19.12 | 19.11  |                        |
| 5               | 256QAM | 12 | 13 | 18.99  | 19.17 | 19.05  | 20                     |
| 5               | 256QAM | 25 | 0  | 19.12  | 19.04 | 19.13  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 22.42                    | 22.35                       | 22.58                     |                        |
| 20              | QPSK       | 1       | 49        | 22.29                    | 22.23                       | 22.44                     | 24.2                   |
| 20              | QPSK       | 1       | 99        | 22.26                    | 22.33                       | 22.57                     |                        |
| 20              | QPSK       | 50      | 0         | 22.33                    | 22.32                       | 22.47                     |                        |
| 20              | QPSK       | 50      | 24        | 22.30                    | 22.19                       | 22.45                     | 24                     |
| 20              | QPSK       | 50      | 50        | 22.28                    | 22.20                       | 22.45                     |                        |
| 20              | QPSK       | 100     | 0         | 22.27                    | 22.24                       | 22.39                     |                        |
| 20              | 16QAM      | 1       | 0         | 22.50                    | 22.46                       | 22.52                     | 24                     |
| 20              | 16QAM      | 1       | 49        | 22.35                    | 22.27                       | 22.52                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.42                    | 22.31                       | 22.48                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.40                    | 21.34                       | 21.45                     | 23                     |
| 20              | 16QAM      | 50      | 24        | 21.18                    | 21.33                       | 21.45                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.54                    | 21.28                       | 21.59                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.51                    | 21.43                       | 21.72                     | 23                     |
| 20              | 64QAM      | 1       | 0         | 21.22                    | 21.29                       | 21.57                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.24                    | 21.34                       | 21.37                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.40                    | 21.48                       | 21.30                     | 22                     |
| 20              | 64QAM      | 50      | 0         | 20.53                    | 20.28                       | 20.66                     |                        |
| 20              | 64QAM      | 50      | 24        | 20.52                    | 20.25                       | 20.66                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.38                    | 20.35                       | 20.37                     | 20                     |
| 20              | 64QAM      | 100     | 0         | 20.35                    | 20.36                       | 20.72                     |                        |
| 20              | 256QAM     | 1       | 0         | 18.56                    | 18.78                       | 18.52                     |                        |
| 20              | 256QAM     | 1       | 49        | 18.33                    | 18.26                       | 18.76                     | 20                     |
| 20              | 256QAM     | 1       | 99        | 18.32                    | 18.58                       | 18.57                     |                        |
| 20              | 256QAM     | 50      | 0         | 18.48                    | 18.29                       | 18.93                     |                        |
| 20              | 256QAM     | 50      | 24        | 18.49                    | 18.75                       | 18.95                     | 20                     |
| 20              | 256QAM     | 50      | 50        | 18.75                    | 18.59                       | 18.82                     |                        |
| 20              | 256QAM     | 100     | 0         | 18.50                    | 18.39                       | 18.76                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 22.23                    | 22.28                       | 22.33                     |                        |
| 15              | QPSK       | 1       | 37        | 22.26                    | 22.24                       | 22.54                     | 24.2                   |
| 15              | QPSK       | 1       | 74        | 22.30                    | 22.25                       | 22.42                     |                        |
| 15              | QPSK       | 36      | 0         | 22.19                    | 22.13                       | 22.46                     | 24                     |
| 15              | QPSK       | 36      | 20        | 22.28                    | 22.07                       | 22.44                     |                        |
| 15              | QPSK       | 36      | 39        | 22.24                    | 22.17                       | 22.32                     |                        |
| 15              | QPSK       | 75      | 0         | 22.35                    | 22.17                       | 22.30                     | 24                     |
| 15              | 16QAM      | 1       | 0         | 22.48                    | 22.27                       | 22.47                     |                        |
| 15              | 16QAM      | 1       | 37        | 22.26                    | 22.06                       | 22.41                     |                        |
| 15              | 16QAM      | 1       | 74        | 22.37                    | 22.34                       | 22.39                     | 23                     |
| 15              | 16QAM      | 36      | 0         | 21.31                    | 21.11                       | 21.38                     |                        |
| 15              | 16QAM      | 36      | 20        | 21.06                    | 21.31                       | 21.25                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.26                    | 21.28                       | 21.28                     | 23                     |
| 15              | 16QAM      | 75      | 0         | 21.43                    | 21.29                       | 21.54                     |                        |
| 15              | 64QAM      | 1       | 0         | 21.03                    | 21.30                       | 21.40                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.21                    | 21.17                       | 21.26                     | 23                     |
| 15              | 64QAM      | 1       | 74        | 21.23                    | 21.36                       | 21.26                     |                        |
| 15              | 64QAM      | 36      | 0         | 20.36                    | 20.30                       | 20.33                     |                        |
| 15              | 64QAM      | 36      | 20        | 20.20                    | 20.13                       | 20.29                     | 22                     |
| 15              | 64QAM      | 36      | 39        | 20.29                    | 20.24                       | 20.16                     |                        |
| 15              | 64QAM      | 75      | 0         | 20.45                    | 20.26                       | 20.56                     |                        |
| 15              | 256QAM     | 1       | 0         | 18.51                    | 18.45                       | 18.45                     | 20                     |
| 15              | 256QAM     | 1       | 37        | 18.53                    | 18.35                       | 18.52                     |                        |
| 15              | 256QAM     | 1       | 74        | 18.44                    | 18.56                       | 18.70                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.30                    | 18.45                       | 18.50                     | 20                     |
| 15              | 256QAM     | 36      | 20        | 18.29                    | 18.27                       | 18.44                     |                        |
| 15              | 256QAM     | 36      | 39        | 18.32                    | 18.53                       | 18.63                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 18.65  | 18.57 | 18.81  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 22.24  | 22.25 | 22.51  | 24.2                   |
| 10              | QPSK   | 1  | 25 | 22.22  | 22.21 | 22.33  |                        |
| 10              | QPSK   | 1  | 49 | 22.21  | 22.21 | 22.43  |                        |
| 10              | QPSK   | 25 | 0  | 22.28  | 22.19 | 22.40  | 24                     |
| 10              | QPSK   | 25 | 12 | 22.24  | 22.14 | 22.27  |                        |
| 10              | QPSK   | 25 | 25 | 22.22  | 22.00 | 22.34  |                        |
| 10              | QPSK   | 50 | 0  | 22.18  | 22.05 | 22.40  |                        |
| 10              | 16QAM  | 1  | 0  | 22.34  | 22.39 | 22.49  | 24                     |
| 10              | 16QAM  | 1  | 25 | 22.32  | 22.22 | 22.39  |                        |
| 10              | 16QAM  | 1  | 49 | 22.27  | 22.33 | 22.51  |                        |
| 10              | 16QAM  | 25 | 0  | 21.28  | 21.21 | 21.40  | 23                     |
| 10              | 16QAM  | 25 | 12 | 21.20  | 21.06 | 21.24  |                        |
| 10              | 16QAM  | 25 | 25 | 21.18  | 21.15 | 21.39  |                        |
| 10              | 16QAM  | 50 | 0  | 21.43  | 21.17 | 21.70  |                        |
| 10              | 64QAM  | 1  | 0  | 21.00  | 21.30 | 21.46  | 23                     |
| 10              | 64QAM  | 1  | 25 | 21.02  | 21.21 | 21.29  |                        |
| 10              | 64QAM  | 1  | 49 | 21.05  | 21.24 | 21.18  |                        |
| 10              | 64QAM  | 25 | 0  | 20.31  | 20.25 | 20.35  | 22                     |
| 10              | 64QAM  | 25 | 12 | 20.14  | 20.31 | 20.38  |                        |
| 10              | 64QAM  | 25 | 25 | 20.03  | 20.17 | 20.16  |                        |
| 10              | 64QAM  | 50 | 0  | 20.52  | 20.12 | 20.33  |                        |
| 10              | 256QAM | 1  | 0  | 18.45  | 18.76 | 18.33  | 20                     |
| 10              | 256QAM | 1  | 25 | 18.29  | 18.05 | 18.64  |                        |
| 10              | 256QAM | 1  | 49 | 18.24  | 18.22 | 18.25  |                        |
| 10              | 256QAM | 25 | 0  | 18.42  | 18.35 | 18.87  | 20                     |
| 10              | 256QAM | 25 | 12 | 18.42  | 18.71 | 18.60  |                        |
| 10              | 256QAM | 25 | 25 | 18.49  | 18.54 | 18.64  |                        |
| 10              | 256QAM | 50 | 0  | 18.72  | 18.44 | 18.64  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 22.43  | 22.30 | 22.42  | 24.2                   |
| 5               | QPSK   | 1  | 12 | 22.36  | 22.38 | 22.48  |                        |
| 5               | QPSK   | 1  | 24 | 22.28  | 22.29 | 22.36  |                        |
| 5               | QPSK   | 12 | 0  | 22.16  | 22.19 | 22.32  | 24                     |
| 5               | QPSK   | 12 | 7  | 22.14  | 22.16 | 22.27  |                        |
| 5               | QPSK   | 12 | 13 | 22.27  | 22.18 | 22.30  |                        |
| 5               | QPSK   | 25 | 0  | 22.08  | 22.26 | 22.21  |                        |
| 5               | 16QAM  | 1  | 0  | 22.34  | 22.36 | 22.55  | 24                     |
| 5               | 16QAM  | 1  | 12 | 22.18  | 22.15 | 22.50  |                        |
| 5               | 16QAM  | 1  | 24 | 22.28  | 22.37 | 22.51  |                        |
| 5               | 16QAM  | 12 | 0  | 21.06  | 21.33 | 21.25  | 23                     |
| 5               | 16QAM  | 12 | 7  | 21.05  | 21.31 | 21.29  |                        |
| 5               | 16QAM  | 12 | 13 | 21.51  | 21.03 | 21.20  |                        |
| 5               | 16QAM  | 25 | 0  | 21.48  | 21.08 | 21.54  |                        |
| 5               | 64QAM  | 1  | 0  | 21.32  | 21.46 | 21.29  | 23                     |
| 5               | 64QAM  | 1  | 12 | 21.20  | 21.02 | 21.01  |                        |
| 5               | 64QAM  | 1  | 24 | 21.08  | 21.09 | 21.47  |                        |
| 5               | 64QAM  | 12 | 0  | 20.19  | 20.39 | 20.64  |                        |
| 5               | 64QAM  | 12 | 7  | 20.08  | 20.37 | 20.47  | 22                     |
| 5               | 64QAM  | 12 | 13 | 20.06  | 20.08 | 20.25  |                        |
| 5               | 64QAM  | 25 | 0  | 20.34  | 20.08 | 20.65  |                        |
| 5               | 256QAM | 1  | 0  | 18.30  | 18.45 | 18.47  |                        |
| 5               | 256QAM | 1  | 12 | 18.33  | 18.23 | 18.68  | 20                     |
| 5               | 256QAM | 1  | 24 | 18.32  | 18.24 | 18.56  |                        |
| 5               | 256QAM | 12 | 0  | 18.62  | 18.18 | 18.88  |                        |
| 5               | 256QAM | 12 | 7  | 18.52  | 18.47 | 18.66  |                        |
| 5               | 256QAM | 12 | 13 | 18.38  | 18.34 | 18.35  | 20                     |
| 5               | 256QAM | 25 | 0  | 18.69  | 18.36 | 18.48  |                        |



&lt;LTE Band 38\_Ant 2\_Index 11&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 20.13                    | 20.19                       | 20.16                     |                        |
| 20              | QPSK       | 1       | 49        | 20.12                    | 20.18                       | 20.16                     | 20.2                   |
| 20              | QPSK       | 1       | 99        | 20.13                    | 20.17                       | 20.15                     |                        |
| 20              | QPSK       | 50      | 0         | 20.15                    | 20.17                       | 20.16                     |                        |
| 20              | QPSK       | 50      | 24        | 20.13                    | 20.16                       | 20.15                     | 20.2                   |
| 20              | QPSK       | 50      | 50        | 20.11                    | 20.15                       | 20.14                     |                        |
| 20              | QPSK       | 100     | 0         | 20.14                    | 20.14                       | 20.13                     |                        |
| 20              | 16QAM      | 1       | 0         | 20.04                    | 20.13                       | 20.02                     | 20.2                   |
| 20              | 16QAM      | 1       | 49        | 20.00                    | 20.09                       | 20.07                     |                        |
| 20              | 16QAM      | 1       | 99        | 20.04                    | 20.13                       | 19.98                     |                        |
| 20              | 16QAM      | 50      | 0         | 20.15                    | 20.15                       | 20.15                     | 20.2                   |
| 20              | 16QAM      | 50      | 24        | 20.14                    | 20.15                       | 20.15                     |                        |
| 20              | 16QAM      | 50      | 50        | 20.16                    | 20.13                       | 20.15                     |                        |
| 20              | 16QAM      | 100     | 0         | 20.15                    | 20.09                       | 20.15                     | 20.2                   |
| 20              | 64QAM      | 1       | 0         | 19.99                    | 20.05                       | 20.04                     |                        |
| 20              | 64QAM      | 1       | 49        | 19.99                    | 20.01                       | 20.03                     |                        |
| 20              | 64QAM      | 1       | 99        | 20.03                    | 20.09                       | 20.05                     | 20.2                   |
| 20              | 64QAM      | 50      | 0         | 20.12                    | 20.15                       | 20.14                     |                        |
| 20              | 64QAM      | 50      | 24        | 20.14                    | 20.14                       | 20.16                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.16                    | 20.16                       | 20.15                     | 20                     |
| 20              | 64QAM      | 100     | 0         | 20.10                    | 20.17                       | 20.14                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.39                    | 19.35                       | 19.25                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.36                    | 19.55                       | 19.27                     | 20                     |
| 20              | 256QAM     | 1       | 99        | 19.54                    | 19.30                       | 19.55                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.64                    | 19.46                       | 19.57                     | 20                     |
| 20              | 256QAM     | 50      | 24        | 19.66                    | 19.61                       | 19.47                     |                        |
| 20              | 256QAM     | 50      | 50        | 19.41                    | 19.70                       | 19.52                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.52                    | 19.60                       | 19.77                     | Tune-up limit<br>(dBm) |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     |                        |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 20.00                    | 20.17                       | 19.96                     | 20.2                   |
| 15              | QPSK       | 1       | 37        | 19.96                    | 20.02                       | 20.07                     |                        |
| 15              | QPSK       | 1       | 74        | 20.11                    | 20.13                       | 20.00                     |                        |
| 15              | QPSK       | 36      | 0         | 20.07                    | 20.00                       | 20.08                     | 20.2                   |
| 15              | QPSK       | 36      | 20        | 20.12                    | 20.00                       | 20.08                     |                        |
| 15              | QPSK       | 36      | 39        | 20.09                    | 20.01                       | 19.99                     |                        |
| 15              | QPSK       | 75      | 0         | 20.08                    | 19.96                       | 20.13                     | 20.2                   |
| 15              | 16QAM      | 1       | 0         | 19.85                    | 19.94                       | 19.85                     |                        |
| 15              | 16QAM      | 1       | 37        | 19.89                    | 20.08                       | 20.00                     |                        |
| 15              | 16QAM      | 1       | 74        | 19.86                    | 20.12                       | 19.83                     | 20.2                   |
| 15              | 16QAM      | 36      | 0         | 19.99                    | 20.10                       | 20.09                     |                        |
| 15              | 16QAM      | 36      | 20        | 20.12                    | 20.04                       | 20.07                     |                        |
| 15              | 16QAM      | 36      | 39        | 20.05                    | 19.97                       | 20.13                     | 20.2                   |
| 15              | 16QAM      | 75      | 0         | 19.98                    | 20.09                       | 20.03                     |                        |
| 15              | 64QAM      | 1       | 0         | 19.90                    | 19.95                       | 19.97                     |                        |
| 15              | 64QAM      | 1       | 37        | 19.94                    | 20.01                       | 19.91                     | 20.2                   |
| 15              | 64QAM      | 1       | 74        | 19.92                    | 19.98                       | 19.88                     |                        |
| 15              | 64QAM      | 36      | 0         | 20.02                    | 20.09                       | 20.10                     |                        |
| 15              | 64QAM      | 36      | 20        | 20.12                    | 19.96                       | 20.05                     | 20.2                   |
| 15              | 64QAM      | 36      | 39        | 19.97                    | 19.99                       | 20.12                     |                        |
| 15              | 64QAM      | 75      | 0         | 19.97                    | 20.04                       | 20.05                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.19                    | 19.19                       | 19.06                     | 20                     |
| 15              | 256QAM     | 1       | 37        | 19.35                    | 19.52                       | 19.23                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.41                    | 19.22                       | 19.43                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.46                    | 19.29                       | 19.44                     | 20                     |
| 15              | 256QAM     | 36      | 20        | 19.64                    | 19.59                       | 19.47                     |                        |
| 15              | 256QAM     | 36      | 39        | 19.25                    | 19.60                       | 19.50                     |                        |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.41  | 19.49 | 19.66  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 19.98  | 20.05 | 20.01  | 20.2                   |
| 10              | QPSK   | 1  | 25 | 20.09  | 20.04 | 19.96  |                        |
| 10              | QPSK   | 1  | 49 | 20.06  | 20.04 | 20.04  |                        |
| 10              | QPSK   | 25 | 0  | 20.11  | 20.17 | 20.00  | 20.2                   |
| 10              | QPSK   | 25 | 12 | 19.94  | 20.00 | 20.08  |                        |
| 10              | QPSK   | 25 | 25 | 20.09  | 20.15 | 20.00  |                        |
| 10              | QPSK   | 50 | 0  | 20.12  | 19.95 | 20.04  | 20.2                   |
| 10              | 16QAM  | 1  | 0  | 19.99  | 20.08 | 19.87  |                        |
| 10              | 16QAM  | 1  | 25 | 19.85  | 20.09 | 19.87  |                        |
| 10              | 16QAM  | 1  | 49 | 19.97  | 20.05 | 19.88  | 20.2                   |
| 10              | 16QAM  | 25 | 0  | 20.12  | 20.02 | 20.06  |                        |
| 10              | 16QAM  | 25 | 12 | 19.97  | 19.95 | 20.11  |                        |
| 10              | 16QAM  | 25 | 25 | 20.11  | 20.07 | 20.04  | 20.2                   |
| 10              | 16QAM  | 50 | 0  | 19.96  | 19.98 | 19.97  |                        |
| 10              | 64QAM  | 1  | 0  | 19.94  | 19.89 | 19.87  |                        |
| 10              | 64QAM  | 1  | 25 | 19.84  | 19.96 | 20.00  | 20.2                   |
| 10              | 64QAM  | 1  | 49 | 19.94  | 19.92 | 19.96  |                        |
| 10              | 64QAM  | 25 | 0  | 19.98  | 20.06 | 19.99  |                        |
| 10              | 64QAM  | 25 | 12 | 19.97  | 20.07 | 20.04  | 20.2                   |
| 10              | 64QAM  | 25 | 25 | 20.02  | 20.06 | 20.03  |                        |
| 10              | 64QAM  | 50 | 0  | 19.95  | 19.99 | 20.03  |                        |
| 10              | 256QAM | 1  | 0  | 19.33  | 19.24 | 19.08  | 20                     |
| 10              | 256QAM | 1  | 25 | 19.35  | 19.41 | 19.17  |                        |
| 10              | 256QAM | 1  | 49 | 19.40  | 19.27 | 19.35  |                        |
| 10              | 256QAM | 25 | 0  | 19.53  | 19.41 | 19.49  | 20                     |
| 10              | 256QAM | 25 | 12 | 19.53  | 19.57 | 19.32  |                        |
| 10              | 256QAM | 25 | 25 | 19.23  | 19.70 | 19.42  |                        |
| 10              | 256QAM | 50 | 0  | 19.44  | 19.53 | 19.59  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 19.97  | 20.09 | 20.15  | 20.2                   |
| 5               | QPSK   | 1  | 12 | 20.11  | 20.03 | 20.00  |                        |
| 5               | QPSK   | 1  | 24 | 20.07  | 20.10 | 20.01  |                        |
| 5               | QPSK   | 12 | 0  | 19.98  | 20.12 | 19.96  | 20.2                   |
| 5               | QPSK   | 12 | 7  | 20.12  | 20.12 | 19.96  |                        |
| 5               | QPSK   | 12 | 13 | 19.98  | 19.95 | 19.96  |                        |
| 5               | QPSK   | 25 | 0  | 19.98  | 20.11 | 19.96  | 20.2                   |
| 5               | 16QAM  | 1  | 0  | 19.89  | 20.02 | 19.87  |                        |
| 5               | 16QAM  | 1  | 12 | 19.85  | 20.00 | 19.96  |                        |
| 5               | 16QAM  | 1  | 24 | 19.87  | 20.02 | 19.96  | 20.2                   |
| 5               | 16QAM  | 12 | 0  | 20.13  | 20.09 | 20.05  |                        |
| 5               | 16QAM  | 12 | 7  | 20.06  | 20.02 | 19.96  |                        |
| 5               | 16QAM  | 12 | 13 | 20.05  | 19.98 | 20.02  | 20.2                   |
| 5               | 16QAM  | 25 | 0  | 19.99  | 20.02 | 20.01  |                        |
| 5               | 64QAM  | 1  | 0  | 19.82  | 19.93 | 20.00  |                        |
| 5               | 64QAM  | 1  | 12 | 19.86  | 19.98 | 19.95  | 20.2                   |
| 5               | 64QAM  | 1  | 24 | 19.91  | 19.92 | 19.86  |                        |
| 5               | 64QAM  | 12 | 0  | 20.11  | 20.12 | 20.09  |                        |
| 5               | 64QAM  | 12 | 7  | 19.96  | 20.14 | 20.06  | 20.2                   |
| 5               | 64QAM  | 12 | 13 | 20.09  | 20.06 | 20.01  |                        |
| 5               | 64QAM  | 25 | 0  | 20.04  | 19.97 | 20.03  |                        |
| 5               | 256QAM | 1  | 0  | 19.36  | 19.20 | 19.05  | 20                     |
| 5               | 256QAM | 1  | 12 | 19.30  | 19.36 | 19.09  |                        |
| 5               | 256QAM | 1  | 24 | 19.53  | 19.12 | 19.53  |                        |
| 5               | 256QAM | 12 | 0  | 19.64  | 19.41 | 19.52  | 20                     |
| 5               | 256QAM | 12 | 7  | 19.61  | 19.45 | 19.44  |                        |
| 5               | 256QAM | 12 | 13 | 19.41  | 19.56 | 19.35  |                        |
| 5               | 256QAM | 25 | 0  | 19.47  | 19.60 | 19.62  |                        |



&lt;LTE Band 38\_Ant 1\_Index 11&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 22.22                    | 22.16                       | 22.07                     |                        |
| 20              | QPSK       | 1       | 49        | 22.18                    | 22.13                       | 21.97                     | 22.7                   |
| 20              | QPSK       | 1       | 99        | 22.19                    | 21.97                       | 21.97                     |                        |
| 20              | QPSK       | 50      | 0         | 22.21                    | 22.15                       | 22.19                     |                        |
| 20              | QPSK       | 50      | 24        | 22.15                    | 22.08                       | 21.97                     | 22.7                   |
| 20              | QPSK       | 50      | 50        | 22.13                    | 21.98                       | 21.94                     |                        |
| 20              | QPSK       | 100     | 0         | 22.18                    | 22.13                       | 21.97                     |                        |
| 20              | 16QAM      | 1       | 0         | 22.19                    | 22.13                       | 22.17                     | 22.7                   |
| 20              | 16QAM      | 1       | 49        | 22.17                    | 22.11                       | 22.18                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.20                    | 22.15                       | 22.18                     |                        |
| 20              | 16QAM      | 50      | 0         | 22.04                    | 22.01                       | 22.13                     | 22.7                   |
| 20              | 16QAM      | 50      | 24        | 22.02                    | 21.87                       | 21.95                     |                        |
| 20              | 16QAM      | 50      | 50        | 22.04                    | 22.17                       | 21.94                     |                        |
| 20              | 16QAM      | 100     | 0         | 22.12                    | 22.01                       | 22.00                     | 22.7                   |
| 20              | 64QAM      | 1       | 0         | 22.10                    | 21.86                       | 22.00                     |                        |
| 20              | 64QAM      | 1       | 49        | 22.05                    | 21.93                       | 22.03                     |                        |
| 20              | 64QAM      | 1       | 99        | 22.07                    | 21.94                       | 22.03                     | 22                     |
| 20              | 64QAM      | 50      | 0         | 21.29                    | 21.10                       | 21.06                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.19                    | 21.12                       | 21.05                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.24                    | 21.04                       | 21.11                     | 20                     |
| 20              | 64QAM      | 100     | 0         | 21.15                    | 21.04                       | 21.23                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.42                    | 19.18                       | 19.34                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.55                    | 19.36                       | 19.27                     | 20                     |
| 20              | 256QAM     | 1       | 99        | 19.37                    | 19.45                       | 19.42                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.48                    | 19.27                       | 19.34                     |                        |
| 20              | 256QAM     | 50      | 24        | 19.48                    | 19.34                       | 19.29                     | 20                     |
| 20              | 256QAM     | 50      | 50        | 19.42                    | 19.36                       | 19.35                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.40                    | 19.39                       | 19.32                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 22.03                    | 22.07                       | 22.07                     |                        |
| 15              | QPSK       | 1       | 37        | 22.14                    | 22.08                       | 22.04                     | 22.7                   |
| 15              | QPSK       | 1       | 74        | 21.88                    | 21.87                       | 21.98                     |                        |
| 15              | QPSK       | 36      | 0         | 22.09                    | 22.03                       | 22.11                     | 22.7                   |
| 15              | QPSK       | 36      | 20        | 21.97                    | 21.78                       | 22.01                     |                        |
| 15              | QPSK       | 36      | 39        | 21.96                    | 21.86                       | 22.05                     |                        |
| 15              | QPSK       | 75      | 0         | 22.13                    | 22.07                       | 22.08                     | 22.7                   |
| 15              | 16QAM      | 1       | 0         | 22.07                    | 22.04                       | 22.11                     |                        |
| 15              | 16QAM      | 1       | 37        | 21.99                    | 22.06                       | 21.88                     |                        |
| 15              | 16QAM      | 1       | 74        | 22.08                    | 22.06                       | 22.09                     | 22.7                   |
| 15              | 16QAM      | 36      | 0         | 21.86                    | 21.94                       | 21.80                     |                        |
| 15              | 16QAM      | 36      | 20        | 21.92                    | 21.81                       | 21.80                     |                        |
| 15              | 16QAM      | 36      | 39        | 22.04                    | 22.00                       | 21.89                     | 22.7                   |
| 15              | 16QAM      | 75      | 0         | 22.15                    | 21.88                       | 21.88                     |                        |
| 15              | 64QAM      | 1       | 0         | 21.95                    | 21.73                       | 22.05                     |                        |
| 15              | 64QAM      | 1       | 37        | 22.06                    | 21.93                       | 21.75                     | 22.7                   |
| 15              | 64QAM      | 1       | 74        | 22.09                    | 21.92                       | 21.76                     |                        |
| 15              | 64QAM      | 36      | 0         | 21.17                    | 21.00                       | 20.90                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.08                    | 20.99                       | 21.19                     | 22                     |
| 15              | 64QAM      | 36      | 39        | 21.10                    | 21.13                       | 21.00                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.25                    | 21.04                       | 20.87                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.36                    | 19.03                       | 19.43                     | 20                     |
| 15              | 256QAM     | 1       | 37        | 19.29                    | 19.21                       | 19.13                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.22                    | 19.13                       | 19.40                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.50                    | 19.23                       | 19.27                     | 20                     |
| 15              | 256QAM     | 36      | 20        | 19.40                    | 19.43                       | 19.25                     |                        |
| 15              | 256QAM     | 36      | 39        | 19.38                    | 19.23                       | 19.24                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.30  | 19.24 | 19.34  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 22.09  | 22.00 | 21.93  | 22.7                   |
| 10              | QPSK   | 1  | 25 | 22.06  | 22.03 | 21.78  |                        |
| 10              | QPSK   | 1  | 49 | 22.06  | 22.03 | 21.81  |                        |
| 10              | QPSK   | 25 | 0  | 22.20  | 22.07 | 22.05  | 22.7                   |
| 10              | QPSK   | 25 | 12 | 22.08  | 22.02 | 21.92  |                        |
| 10              | QPSK   | 25 | 25 | 22.13  | 21.86 | 21.97  |                        |
| 10              | QPSK   | 50 | 0  | 21.93  | 22.00 | 21.84  | 22.7                   |
| 10              | 16QAM  | 1  | 0  | 22.13  | 22.08 | 22.05  |                        |
| 10              | 16QAM  | 1  | 25 | 21.91  | 21.96 | 21.96  |                        |
| 10              | 16QAM  | 1  | 49 | 22.17  | 22.11 | 21.91  | 22.7                   |
| 10              | 16QAM  | 25 | 0  | 22.07  | 22.02 | 22.03  |                        |
| 10              | 16QAM  | 25 | 12 | 21.99  | 21.69 | 21.87  |                        |
| 10              | 16QAM  | 25 | 25 | 22.03  | 21.96 | 21.93  | 22.7                   |
| 10              | 16QAM  | 50 | 0  | 22.09  | 22.02 | 21.85  |                        |
| 10              | 64QAM  | 1  | 0  | 22.05  | 21.77 | 21.74  |                        |
| 10              | 64QAM  | 1  | 25 | 22.02  | 21.79 | 21.96  | 22.7                   |
| 10              | 64QAM  | 1  | 49 | 21.95  | 21.91 | 21.94  |                        |
| 10              | 64QAM  | 25 | 0  | 21.11  | 20.99 | 21.02  |                        |
| 10              | 64QAM  | 25 | 12 | 21.00  | 20.96 | 20.96  | 22                     |
| 10              | 64QAM  | 25 | 25 | 21.05  | 20.99 | 21.11  |                        |
| 10              | 64QAM  | 50 | 0  | 21.29  | 21.05 | 21.19  |                        |
| 10              | 256QAM | 1  | 0  | 19.36  | 19.16 | 19.14  | 20                     |
| 10              | 256QAM | 1  | 25 | 19.20  | 19.16 | 19.19  |                        |
| 10              | 256QAM | 1  | 49 | 19.14  | 19.43 | 19.25  |                        |
| 10              | 256QAM | 25 | 0  | 19.36  | 19.12 | 19.27  | 20                     |
| 10              | 256QAM | 25 | 12 | 19.20  | 19.25 | 19.46  |                        |
| 10              | 256QAM | 25 | 25 | 19.28  | 19.39 | 19.19  |                        |
| 10              | 256QAM | 50 | 0  | 19.42  | 19.32 | 19.19  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 22.04  | 21.96 | 21.90  | 22.7                   |
| 5               | QPSK   | 1  | 12 | 22.07  | 21.94 | 21.99  |                        |
| 5               | QPSK   | 1  | 24 | 22.04  | 21.98 | 22.07  |                        |
| 5               | QPSK   | 12 | 0  | 22.06  | 22.00 | 21.97  | 22.7                   |
| 5               | QPSK   | 12 | 7  | 22.00  | 21.76 | 21.99  |                        |
| 5               | QPSK   | 12 | 13 | 22.18  | 22.06 | 21.96  |                        |
| 5               | QPSK   | 25 | 0  | 21.93  | 21.97 | 21.86  | 22.7                   |
| 5               | 16QAM  | 1  | 0  | 22.18  | 22.05 | 21.95  |                        |
| 5               | 16QAM  | 1  | 12 | 22.10  | 21.98 | 22.09  |                        |
| 5               | 16QAM  | 1  | 24 | 22.04  | 21.97 | 21.96  | 22.7                   |
| 5               | 16QAM  | 12 | 0  | 21.97  | 22.06 | 21.90  |                        |
| 5               | 16QAM  | 12 | 7  | 22.16  | 21.67 | 21.88  |                        |
| 5               | 16QAM  | 12 | 13 | 21.97  | 21.95 | 21.95  | 22.7                   |
| 5               | 16QAM  | 25 | 0  | 22.00  | 21.97 | 22.01  |                        |
| 5               | 64QAM  | 1  | 0  | 21.95  | 21.78 | 21.82  |                        |
| 5               | 64QAM  | 1  | 12 | 22.02  | 21.79 | 21.86  | 22.7                   |
| 5               | 64QAM  | 1  | 24 | 21.96  | 21.93 | 21.76  |                        |
| 5               | 64QAM  | 12 | 0  | 21.12  | 20.88 | 21.16  |                        |
| 5               | 64QAM  | 12 | 7  | 21.16  | 20.99 | 21.14  | 22                     |
| 5               | 64QAM  | 12 | 13 | 21.24  | 21.07 | 20.98  |                        |
| 5               | 64QAM  | 25 | 0  | 21.17  | 20.97 | 20.97  |                        |
| 5               | 256QAM | 1  | 0  | 19.53  | 19.17 | 19.33  | 20                     |
| 5               | 256QAM | 1  | 12 | 19.44  | 19.07 | 19.22  |                        |
| 5               | 256QAM | 1  | 24 | 19.20  | 19.43 | 19.22  |                        |
| 5               | 256QAM | 12 | 0  | 19.44  | 19.15 | 19.26  | 20                     |
| 5               | 256QAM | 12 | 7  | 19.32  | 19.29 | 19.30  |                        |
| 5               | 256QAM | 12 | 13 | 19.33  | 19.28 | 19.31  |                        |
| 5               | 256QAM | 25 | 0  | 19.30  | 19.29 | 19.32  |                        |



&lt;LTE Band 38\_Ant 0\_Index 11&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 22.49                    | 22.45                       | 22.30                     |                        |
| 20              | QPSK       | 1       | 49        | 22.38                    | 22.22                       | 22.26                     | 22.9                   |
| 20              | QPSK       | 1       | 99        | 22.43                    | 22.27                       | 22.29                     |                        |
| 20              | QPSK       | 50      | 0         | 22.40                    | 22.36                       | 22.37                     |                        |
| 20              | QPSK       | 50      | 24        | 22.30                    | 22.26                       | 22.22                     | 22.9                   |
| 20              | QPSK       | 50      | 50        | 22.28                    | 22.25                       | 22.36                     |                        |
| 20              | QPSK       | 100     | 0         | 22.38                    | 22.32                       | 22.35                     |                        |
| 20              | 16QAM      | 1       | 0         | 22.16                    | 22.22                       | 22.20                     | 22.9                   |
| 20              | 16QAM      | 1       | 49        | 22.28                    | 22.18                       | 22.18                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.33                    | 22.25                       | 22.28                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.85                    | 21.88                       | 21.97                     | 22.9                   |
| 20              | 16QAM      | 50      | 24        | 21.92                    | 21.96                       | 21.95                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.99                    | 21.84                       | 21.81                     |                        |
| 20              | 16QAM      | 100     | 0         | 22.01                    | 21.95                       | 21.89                     | 22.9                   |
| 20              | 64QAM      | 1       | 0         | 21.70                    | 21.80                       | 21.61                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.84                    | 21.67                       | 21.63                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.86                    | 21.81                       | 21.68                     | 22                     |
| 20              | 64QAM      | 50      | 0         | 20.91                    | 21.01                       | 20.90                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.04                    | 20.83                       | 20.78                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.98                    | 20.86                       | 20.78                     | 20                     |
| 20              | 64QAM      | 100     | 0         | 20.91                    | 21.04                       | 20.84                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.17                    | 18.85                       | 18.89                     |                        |
| 20              | 256QAM     | 1       | 49        | 19.06                    | 18.86                       | 19.08                     | 20                     |
| 20              | 256QAM     | 1       | 99        | 19.16                    | 18.99                       | 19.06                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.12                    | 19.13                       | 19.01                     |                        |
| 20              | 256QAM     | 50      | 24        | 19.10                    | 19.07                       | 19.04                     | 20                     |
| 20              | 256QAM     | 50      | 50        | 19.16                    | 19.25                       | 19.13                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.11                    | 19.18                       | 19.20                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 22.40                    | 22.32                       | 22.26                     |                        |
| 15              | QPSK       | 1       | 37        | 22.35                    | 22.09                       | 22.21                     | 22.9                   |
| 15              | QPSK       | 1       | 74        | 22.25                    | 22.12                       | 22.32                     |                        |
| 15              | QPSK       | 36      | 0         | 22.23                    | 22.31                       | 22.23                     |                        |
| 15              | QPSK       | 36      | 20        | 22.16                    | 22.08                       | 22.07                     | 22.9                   |
| 15              | QPSK       | 36      | 39        | 22.17                    | 22.22                       | 22.34                     |                        |
| 15              | QPSK       | 75      | 0         | 22.11                    | 22.17                       | 22.31                     |                        |
| 15              | 16QAM      | 1       | 0         | 22.16                    | 22.19                       | 22.12                     | 22.9                   |
| 15              | 16QAM      | 1       | 37        | 21.99                    | 22.15                       | 22.18                     |                        |
| 15              | 16QAM      | 1       | 74        | 22.34                    | 22.12                       | 22.12                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.88                    | 21.80                       | 21.79                     | 22.9                   |
| 15              | 16QAM      | 36      | 20        | 21.80                    | 21.98                       | 21.83                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.98                    | 21.90                       | 21.81                     |                        |
| 15              | 16QAM      | 75      | 0         | 22.06                    | 21.83                       | 21.87                     | 22.9                   |
| 15              | 64QAM      | 1       | 0         | 21.58                    | 21.62                       | 21.76                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.70                    | 21.49                       | 21.48                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.58                    | 21.80                       | 21.53                     | 22                     |
| 15              | 64QAM      | 36      | 0         | 20.84                    | 20.75                       | 20.82                     |                        |
| 15              | 64QAM      | 36      | 20        | 20.81                    | 20.69                       | 20.77                     |                        |
| 15              | 64QAM      | 36      | 39        | 20.91                    | 20.99                       | 20.83                     | 20                     |
| 15              | 64QAM      | 75      | 0         | 20.99                    | 21.02                       | 20.90                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.02                    | 18.92                       | 19.00                     |                        |
| 15              | 256QAM     | 1       | 37        | 18.91                    | 18.78                       | 19.00                     | 20                     |
| 15              | 256QAM     | 1       | 74        | 19.06                    | 18.91                       | 18.86                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.96                    | 18.87                       | 18.89                     |                        |
| 15              | 256QAM     | 36      | 20        | 19.11                    | 18.94                       | 19.19                     | 20                     |
| 15              | 256QAM     | 36      | 39        | 18.81                    | 19.18                       | 18.94                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 19.14  | 18.98 | 18.94  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 22.46  | 22.36 | 22.17  | 22.9                   |
| 10              | QPSK   | 1  | 25 | 22.33  | 22.17 | 22.14  |                        |
| 10              | QPSK   | 1  | 49 | 22.40  | 22.10 | 22.39  |                        |
| 10              | QPSK   | 25 | 0  | 22.33  | 22.25 | 22.21  | 22.9                   |
| 10              | QPSK   | 25 | 12 | 22.27  | 22.07 | 22.19  |                        |
| 10              | QPSK   | 25 | 25 | 22.09  | 22.24 | 22.25  |                        |
| 10              | QPSK   | 50 | 0  | 22.19  | 22.17 | 22.16  | 22.9                   |
| 10              | 16QAM  | 1  | 0  | 22.20  | 22.26 | 22.08  |                        |
| 10              | 16QAM  | 1  | 25 | 22.24  | 22.13 | 22.14  |                        |
| 10              | 16QAM  | 1  | 49 | 22.34  | 22.14 | 22.31  | 22.9                   |
| 10              | 16QAM  | 25 | 0  | 21.74  | 21.76 | 21.94  |                        |
| 10              | 16QAM  | 25 | 12 | 21.77  | 21.82 | 21.73  |                        |
| 10              | 16QAM  | 25 | 25 | 21.81  | 21.74 | 21.79  | 22.9                   |
| 10              | 16QAM  | 50 | 0  | 21.97  | 21.80 | 21.88  |                        |
| 10              | 64QAM  | 1  | 0  | 21.80  | 21.82 | 21.52  |                        |
| 10              | 64QAM  | 1  | 25 | 21.59  | 21.55 | 21.68  | 22.9                   |
| 10              | 64QAM  | 1  | 49 | 21.66  | 21.80 | 21.69  |                        |
| 10              | 64QAM  | 25 | 0  | 20.81  | 20.75 | 20.81  |                        |
| 10              | 64QAM  | 25 | 12 | 20.80  | 20.92 | 20.86  | 22                     |
| 10              | 64QAM  | 25 | 25 | 20.96  | 20.78 | 20.77  |                        |
| 10              | 64QAM  | 50 | 0  | 20.74  | 20.71 | 20.71  |                        |
| 10              | 256QAM | 1  | 0  | 19.02  | 18.86 | 18.96  | 20                     |
| 10              | 256QAM | 1  | 25 | 18.82  | 18.98 | 19.09  |                        |
| 10              | 256QAM | 1  | 49 | 19.02  | 19.03 | 18.92  |                        |
| 10              | 256QAM | 25 | 0  | 19.16  | 18.96 | 19.13  | 20                     |
| 10              | 256QAM | 25 | 12 | 19.06  | 19.01 | 19.01  |                        |
| 10              | 256QAM | 25 | 25 | 19.16  | 18.97 | 19.08  |                        |
| 10              | 256QAM | 50 | 0  | 18.87  | 19.01 | 19.00  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 22.45  | 22.42 | 22.13  | 22.9                   |
| 5               | QPSK   | 1  | 12 | 22.36  | 22.06 | 22.22  |                        |
| 5               | QPSK   | 1  | 24 | 22.29  | 22.16 | 22.27  |                        |
| 5               | QPSK   | 12 | 0  | 22.33  | 22.33 | 22.33  | 22.9                   |
| 5               | QPSK   | 12 | 7  | 22.14  | 22.06 | 22.11  |                        |
| 5               | QPSK   | 12 | 13 | 22.19  | 22.15 | 22.35  |                        |
| 5               | QPSK   | 25 | 0  | 22.08  | 22.22 | 22.32  | 22.9                   |
| 5               | 16QAM  | 1  | 0  | 22.17  | 22.21 | 22.19  |                        |
| 5               | 16QAM  | 1  | 12 | 22.12  | 22.26 | 22.14  |                        |
| 5               | 16QAM  | 1  | 24 | 22.16  | 22.06 | 22.18  | 22.9                   |
| 5               | 16QAM  | 12 | 0  | 21.65  | 21.76 | 21.78  |                        |
| 5               | 16QAM  | 12 | 7  | 21.97  | 21.99 | 21.83  |                        |
| 5               | 16QAM  | 12 | 13 | 21.93  | 21.90 | 21.83  | 22.9                   |
| 5               | 16QAM  | 25 | 0  | 21.92  | 21.88 | 21.74  |                        |
| 5               | 64QAM  | 1  | 0  | 21.61  | 21.79 | 21.75  |                        |
| 5               | 64QAM  | 1  | 12 | 21.67  | 21.70 | 21.61  | 22.9                   |
| 5               | 64QAM  | 1  | 24 | 21.69  | 21.68 | 21.78  |                        |
| 5               | 64QAM  | 12 | 0  | 20.70  | 20.77 | 20.92  |                        |
| 5               | 64QAM  | 12 | 7  | 20.97  | 20.89 | 20.89  | 22                     |
| 5               | 64QAM  | 12 | 13 | 20.94  | 20.77 | 20.87  |                        |
| 5               | 64QAM  | 25 | 0  | 20.83  | 20.83 | 20.72  |                        |
| 5               | 256QAM | 1  | 0  | 18.99  | 18.93 | 18.92  | 20                     |
| 5               | 256QAM | 1  | 12 | 18.92  | 18.95 | 19.09  |                        |
| 5               | 256QAM | 1  | 24 | 18.86  | 18.95 | 18.94  |                        |
| 5               | 256QAM | 12 | 0  | 19.06  | 18.81 | 18.79  | 20                     |
| 5               | 256QAM | 12 | 7  | 18.96  | 19.12 | 19.11  |                        |
| 5               | 256QAM | 12 | 13 | 18.99  | 19.17 | 19.05  |                        |
| 5               | 256QAM | 25 | 0  | 19.12  | 19.04 | 19.13  |                        |



&lt;LTE Band 38\_Ant 5\_Index 11&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 22.42                    | 22.35                       | 22.58                     |                        |
| 20              | QPSK       | 1       | 49        | 22.29                    | 22.23                       | 22.44                     | 23.4                   |
| 20              | QPSK       | 1       | 99        | 22.26                    | 22.33                       | 22.57                     |                        |
| 20              | QPSK       | 50      | 0         | 22.33                    | 22.32                       | 22.47                     |                        |
| 20              | QPSK       | 50      | 24        | 22.30                    | 22.19                       | 22.45                     | 23.4                   |
| 20              | QPSK       | 50      | 50        | 22.28                    | 22.20                       | 22.45                     |                        |
| 20              | QPSK       | 100     | 0         | 22.27                    | 22.24                       | 22.39                     |                        |
| 20              | 16QAM      | 1       | 0         | 22.50                    | 22.46                       | 22.52                     | 23.4                   |
| 20              | 16QAM      | 1       | 49        | 22.35                    | 22.27                       | 22.52                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.42                    | 22.31                       | 22.48                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.40                    | 21.34                       | 21.45                     | 23                     |
| 20              | 16QAM      | 50      | 24        | 21.18                    | 21.33                       | 21.45                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.54                    | 21.28                       | 21.59                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.51                    | 21.43                       | 21.72                     | 23                     |
| 20              | 64QAM      | 1       | 0         | 21.22                    | 21.29                       | 21.57                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.24                    | 21.34                       | 21.37                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.40                    | 21.48                       | 21.30                     | 22                     |
| 20              | 64QAM      | 50      | 0         | 20.53                    | 20.28                       | 20.66                     |                        |
| 20              | 64QAM      | 50      | 24        | 20.52                    | 20.25                       | 20.66                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.38                    | 20.35                       | 20.37                     | 20                     |
| 20              | 64QAM      | 100     | 0         | 20.35                    | 20.36                       | 20.72                     |                        |
| 20              | 256QAM     | 1       | 0         | 18.56                    | 18.78                       | 18.52                     |                        |
| 20              | 256QAM     | 1       | 49        | 18.33                    | 18.26                       | 18.76                     | 20                     |
| 20              | 256QAM     | 1       | 99        | 18.32                    | 18.58                       | 18.57                     |                        |
| 20              | 256QAM     | 50      | 0         | 18.48                    | 18.29                       | 18.93                     |                        |
| 20              | 256QAM     | 50      | 24        | 18.49                    | 18.75                       | 18.95                     | 20                     |
| 20              | 256QAM     | 50      | 50        | 18.75                    | 18.59                       | 18.82                     |                        |
| 20              | 256QAM     | 100     | 0         | 18.50                    | 18.39                       | 18.76                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 22.23                    | 22.28                       | 22.33                     |                        |
| 15              | QPSK       | 1       | 37        | 22.26                    | 22.24                       | 22.54                     | 23.4                   |
| 15              | QPSK       | 1       | 74        | 22.30                    | 22.25                       | 22.42                     |                        |
| 15              | QPSK       | 36      | 0         | 22.19                    | 22.13                       | 22.46                     | 23.4                   |
| 15              | QPSK       | 36      | 20        | 22.28                    | 22.07                       | 22.44                     |                        |
| 15              | QPSK       | 36      | 39        | 22.24                    | 22.17                       | 22.32                     |                        |
| 15              | QPSK       | 75      | 0         | 22.35                    | 22.17                       | 22.30                     | 23.4                   |
| 15              | 16QAM      | 1       | 0         | 22.48                    | 22.27                       | 22.47                     |                        |
| 15              | 16QAM      | 1       | 37        | 22.26                    | 22.06                       | 22.41                     |                        |
| 15              | 16QAM      | 1       | 74        | 22.37                    | 22.34                       | 22.39                     | 23                     |
| 15              | 16QAM      | 36      | 0         | 21.31                    | 21.11                       | 21.38                     |                        |
| 15              | 16QAM      | 36      | 20        | 21.06                    | 21.31                       | 21.25                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.26                    | 21.28                       | 21.28                     | 23                     |
| 15              | 16QAM      | 75      | 0         | 21.43                    | 21.29                       | 21.54                     |                        |
| 15              | 64QAM      | 1       | 0         | 21.03                    | 21.30                       | 21.40                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.21                    | 21.17                       | 21.26                     | 23                     |
| 15              | 64QAM      | 1       | 74        | 21.23                    | 21.36                       | 21.26                     |                        |
| 15              | 64QAM      | 36      | 0         | 20.36                    | 20.30                       | 20.33                     |                        |
| 15              | 64QAM      | 36      | 20        | 20.20                    | 20.13                       | 20.29                     | 22                     |
| 15              | 64QAM      | 36      | 39        | 20.29                    | 20.24                       | 20.16                     |                        |
| 15              | 64QAM      | 75      | 0         | 20.45                    | 20.26                       | 20.56                     |                        |
| 15              | 256QAM     | 1       | 0         | 18.51                    | 18.45                       | 18.45                     | 20                     |
| 15              | 256QAM     | 1       | 37        | 18.53                    | 18.35                       | 18.52                     |                        |
| 15              | 256QAM     | 1       | 74        | 18.44                    | 18.56                       | 18.70                     |                        |
| 15              | 256QAM     | 36      | 0         | 18.30                    | 18.45                       | 18.50                     | 20                     |
| 15              | 256QAM     | 36      | 20        | 18.29                    | 18.27                       | 18.44                     |                        |
| 15              | 256QAM     | 36      | 39        | 18.32                    | 18.53                       | 18.63                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 18.65  | 18.57 | 18.81  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 22.24  | 22.25 | 22.51  | 23.4                   |
| 10              | QPSK   | 1  | 25 | 22.22  | 22.21 | 22.33  |                        |
| 10              | QPSK   | 1  | 49 | 22.21  | 22.21 | 22.43  |                        |
| 10              | QPSK   | 25 | 0  | 22.28  | 22.19 | 22.40  | 23.4                   |
| 10              | QPSK   | 25 | 12 | 22.24  | 22.14 | 22.27  |                        |
| 10              | QPSK   | 25 | 25 | 22.22  | 22.00 | 22.34  |                        |
| 10              | QPSK   | 50 | 0  | 22.18  | 22.05 | 22.40  | 23.4                   |
| 10              | 16QAM  | 1  | 0  | 22.34  | 22.39 | 22.49  |                        |
| 10              | 16QAM  | 1  | 25 | 22.32  | 22.22 | 22.39  |                        |
| 10              | 16QAM  | 1  | 49 | 22.27  | 22.33 | 22.51  | 23                     |
| 10              | 16QAM  | 25 | 0  | 21.28  | 21.21 | 21.40  |                        |
| 10              | 16QAM  | 25 | 12 | 21.20  | 21.06 | 21.24  |                        |
| 10              | 16QAM  | 25 | 25 | 21.18  | 21.15 | 21.39  | 23                     |
| 10              | 16QAM  | 50 | 0  | 21.43  | 21.17 | 21.70  |                        |
| 10              | 64QAM  | 1  | 0  | 21.00  | 21.30 | 21.46  |                        |
| 10              | 64QAM  | 1  | 25 | 21.02  | 21.21 | 21.29  | 23                     |
| 10              | 64QAM  | 1  | 49 | 21.05  | 21.24 | 21.18  |                        |
| 10              | 64QAM  | 25 | 0  | 20.31  | 20.25 | 20.35  |                        |
| 10              | 64QAM  | 25 | 12 | 20.14  | 20.31 | 20.38  | 22                     |
| 10              | 64QAM  | 25 | 25 | 20.03  | 20.17 | 20.16  |                        |
| 10              | 64QAM  | 50 | 0  | 20.52  | 20.12 | 20.33  |                        |
| 10              | 256QAM | 1  | 0  | 18.45  | 18.76 | 18.33  | 20                     |
| 10              | 256QAM | 1  | 25 | 18.29  | 18.05 | 18.64  |                        |
| 10              | 256QAM | 1  | 49 | 18.24  | 18.22 | 18.25  |                        |
| 10              | 256QAM | 25 | 0  | 18.42  | 18.35 | 18.87  | 20                     |
| 10              | 256QAM | 25 | 12 | 18.42  | 18.71 | 18.60  |                        |
| 10              | 256QAM | 25 | 25 | 18.49  | 18.54 | 18.64  |                        |
| 10              | 256QAM | 50 | 0  | 18.72  | 18.44 | 18.64  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 22.43  | 22.30 | 22.42  | 23.4                   |
| 5               | QPSK   | 1  | 12 | 22.36  | 22.38 | 22.48  |                        |
| 5               | QPSK   | 1  | 24 | 22.28  | 22.29 | 22.36  |                        |
| 5               | QPSK   | 12 | 0  | 22.16  | 22.19 | 22.32  | 23.4                   |
| 5               | QPSK   | 12 | 7  | 22.14  | 22.16 | 22.27  |                        |
| 5               | QPSK   | 12 | 13 | 22.27  | 22.18 | 22.30  |                        |
| 5               | QPSK   | 25 | 0  | 22.08  | 22.26 | 22.21  | 23.4                   |
| 5               | 16QAM  | 1  | 0  | 22.34  | 22.36 | 22.55  |                        |
| 5               | 16QAM  | 1  | 12 | 22.18  | 22.15 | 22.50  |                        |
| 5               | 16QAM  | 1  | 24 | 22.28  | 22.37 | 22.51  | 23                     |
| 5               | 16QAM  | 12 | 0  | 21.06  | 21.33 | 21.25  |                        |
| 5               | 16QAM  | 12 | 7  | 21.05  | 21.31 | 21.29  |                        |
| 5               | 16QAM  | 12 | 13 | 21.51  | 21.03 | 21.20  | 23                     |
| 5               | 16QAM  | 25 | 0  | 21.48  | 21.08 | 21.54  |                        |
| 5               | 64QAM  | 1  | 0  | 21.32  | 21.46 | 21.29  |                        |
| 5               | 64QAM  | 1  | 12 | 21.20  | 21.02 | 21.01  | 23                     |
| 5               | 64QAM  | 1  | 24 | 21.08  | 21.09 | 21.47  |                        |
| 5               | 64QAM  | 12 | 0  | 20.19  | 20.39 | 20.64  |                        |
| 5               | 64QAM  | 12 | 7  | 20.08  | 20.37 | 20.47  | 22                     |
| 5               | 64QAM  | 12 | 13 | 20.06  | 20.08 | 20.25  |                        |
| 5               | 64QAM  | 25 | 0  | 20.34  | 20.08 | 20.65  |                        |
| 5               | 256QAM | 1  | 0  | 18.30  | 18.45 | 18.47  | 20                     |
| 5               | 256QAM | 1  | 12 | 18.33  | 18.23 | 18.68  |                        |
| 5               | 256QAM | 1  | 24 | 18.32  | 18.24 | 18.56  |                        |
| 5               | 256QAM | 12 | 0  | 18.62  | 18.18 | 18.88  | 20                     |
| 5               | 256QAM | 12 | 7  | 18.52  | 18.47 | 18.66  |                        |
| 5               | 256QAM | 12 | 13 | 18.38  | 18.34 | 18.35  |                        |
| 5               | 256QAM | 25 | 0  | 18.69  | 18.36 | 18.48  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 26.17                    | 26.15                       | 26.13                     |                        |
| 20              | QPSK       | 1       | 49        | 26.10                    | 26.10                       | 26.07                     | 26.9                   |
| 20              | QPSK       | 1       | 99        | 26.12                    | 26.04                       | 26.11                     |                        |
| 20              | QPSK       | 50      | 0         | 25.18                    | 25.17                       | 25.15                     |                        |
| 20              | QPSK       | 50      | 24        | 25.14                    | 25.12                       | 25.14                     | 26.9                   |
| 20              | QPSK       | 50      | 50        | 25.14                    | 25.14                       | 25.14                     |                        |
| 20              | QPSK       | 100     | 0         | 25.15                    | 25.13                       | 25.13                     |                        |
| 20              | 16QAM      | 1       | 0         | 25.59                    | 25.44                       | 25.65                     | 25.9                   |
| 20              | 16QAM      | 1       | 49        | 25.39                    | 25.24                       | 25.42                     |                        |
| 20              | 16QAM      | 1       | 99        | 25.45                    | 25.44                       | 25.40                     |                        |
| 20              | 16QAM      | 50      | 0         | 24.18                    | 24.20                       | 24.19                     | 24.9                   |
| 20              | 16QAM      | 50      | 24        | 24.20                    | 24.21                       | 24.20                     |                        |
| 20              | 16QAM      | 50      | 50        | 24.22                    | 24.20                       | 24.20                     |                        |
| 20              | 16QAM      | 100     | 0         | 24.15                    | 24.15                       | 24.15                     | 24.9                   |
| 20              | 64QAM      | 1       | 0         | 24.42                    | 24.45                       | 24.40                     |                        |
| 20              | 64QAM      | 1       | 49        | 24.40                    | 24.44                       | 24.43                     |                        |
| 20              | 64QAM      | 1       | 99        | 24.37                    | 24.38                       | 24.34                     | 23.9                   |
| 20              | 64QAM      | 50      | 0         | 23.14                    | 23.15                       | 23.17                     |                        |
| 20              | 64QAM      | 50      | 24        | 23.15                    | 23.14                       | 23.16                     |                        |
| 20              | 64QAM      | 50      | 50        | 23.16                    | 23.19                       | 23.19                     | 21.9                   |
| 20              | 64QAM      | 100     | 0         | 23.15                    | 23.15                       | 23.15                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.85                    | 21.84                       | 21.75                     |                        |
| 20              | 256QAM     | 1       | 49        | 21.83                    | 21.83                       | 21.83                     | 21.9                   |
| 20              | 256QAM     | 1       | 99        | 21.72                    | 21.74                       | 21.72                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.51                    | 21.58                       | 21.60                     | 21.9                   |
| 20              | 256QAM     | 50      | 24        | 21.52                    | 21.53                       | 21.59                     |                        |
| 20              | 256QAM     | 50      | 50        | 21.53                    | 21.57                       | 21.64                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.56                    | 21.56                       | 21.60                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 25.97                    | 26.01                       | 25.96                     |                        |
| 15              | QPSK       | 1       | 37        | 26.08                    | 26.08                       | 25.88                     | 26.9                   |
| 15              | QPSK       | 1       | 74        | 25.95                    | 25.96                       | 25.96                     |                        |
| 15              | QPSK       | 36      | 0         | 25.10                    | 25.02                       | 25.10                     | 26.9                   |
| 15              | QPSK       | 36      | 20        | 25.04                    | 24.92                       | 25.01                     |                        |
| 15              | QPSK       | 36      | 39        | 25.05                    | 25.09                       | 24.98                     |                        |
| 15              | QPSK       | 75      | 0         | 24.95                    | 25.13                       | 25.13                     | 25.9                   |
| 15              | 16QAM      | 1       | 0         | 25.55                    | 25.38                       | 25.51                     |                        |
| 15              | 16QAM      | 1       | 37        | 25.30                    | 25.14                       | 25.33                     |                        |
| 15              | 16QAM      | 1       | 74        | 25.38                    | 25.35                       | 25.35                     | 24.9                   |
| 15              | 16QAM      | 36      | 0         | 24.08                    | 24.18                       | 24.13                     |                        |
| 15              | 16QAM      | 36      | 20        | 24.09                    | 24.18                       | 24.12                     |                        |
| 15              | 16QAM      | 36      | 39        | 24.06                    | 24.07                       | 24.06                     | 24.9                   |
| 15              | 16QAM      | 75      | 0         | 24.11                    | 24.04                       | 23.95                     |                        |
| 15              | 64QAM      | 1       | 0         | 24.40                    | 24.25                       | 24.20                     |                        |
| 15              | 64QAM      | 1       | 37        | 24.37                    | 24.37                       | 24.37                     | 23.9                   |
| 15              | 64QAM      | 1       | 74        | 24.17                    | 24.21                       | 24.14                     |                        |
| 15              | 64QAM      | 36      | 0         | 23.01                    | 23.09                       | 23.09                     |                        |
| 15              | 64QAM      | 36      | 20        | 23.03                    | 23.09                       | 23.09                     | 21.9                   |
| 15              | 64QAM      | 36      | 39        | 23.06                    | 23.04                       | 23.17                     |                        |
| 15              | 64QAM      | 75      | 0         | 22.99                    | 23.03                       | 22.95                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.69                    | 21.74                       | 21.67                     | 21.9                   |
| 15              | 256QAM     | 1       | 37        | 21.72                    | 21.69                       | 21.76                     |                        |
| 15              | 256QAM     | 1       | 74        | 21.53                    | 21.59                       | 21.62                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.40                    | 21.58                       | 21.50                     | 21.9                   |
| 15              | 256QAM     | 36      | 20        | 21.52                    | 21.53                       | 21.39                     |                        |
| 15              | 256QAM     | 36      | 39        | 21.35                    | 21.47                       | 21.46                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 21.45  | 21.41 | 21.45  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 26.01  | 25.95 | 26.08  | 26.9                   |
| 10              | QPSK   | 1  | 25 | 26.05  | 25.96 | 25.89  |                        |
| 10              | QPSK   | 1  | 49 | 26.02  | 25.93 | 26.10  |                        |
| 10              | QPSK   | 25 | 0  | 25.02  | 25.16 | 25.01  | 26.9                   |
| 10              | QPSK   | 25 | 12 | 25.03  | 24.93 | 25.13  |                        |
| 10              | QPSK   | 25 | 25 | 25.10  | 25.03 | 25.14  |                        |
| 10              | QPSK   | 50 | 0  | 24.95  | 25.10 | 25.00  | 25.9                   |
| 10              | 16QAM  | 1  | 0  | 25.58  | 25.24 | 25.60  |                        |
| 10              | 16QAM  | 1  | 25 | 25.34  | 25.21 | 25.26  |                        |
| 10              | 16QAM  | 1  | 49 | 25.31  | 25.36 | 25.26  | 24.9                   |
| 10              | 16QAM  | 25 | 0  | 24.18  | 24.12 | 24.02  |                        |
| 10              | 16QAM  | 25 | 12 | 24.01  | 24.08 | 24.12  |                        |
| 10              | 16QAM  | 25 | 25 | 24.11  | 24.05 | 24.03  | 24.9                   |
| 10              | 16QAM  | 50 | 0  | 24.12  | 24.14 | 24.01  |                        |
| 10              | 64QAM  | 1  | 0  | 24.39  | 24.45 | 24.28  |                        |
| 10              | 64QAM  | 1  | 25 | 24.27  | 24.35 | 24.24  | 24.9                   |
| 10              | 64QAM  | 1  | 49 | 24.21  | 24.26 | 24.21  |                        |
| 10              | 64QAM  | 25 | 0  | 22.95  | 23.03 | 22.97  | 23.9                   |
| 10              | 64QAM  | 25 | 12 | 23.08  | 23.03 | 23.10  |                        |
| 10              | 64QAM  | 25 | 25 | 23.11  | 23.15 | 23.02  |                        |
| 10              | 64QAM  | 50 | 0  | 23.09  | 22.99 | 22.99  | 21.9                   |
| 10              | 256QAM | 1  | 0  | 21.69  | 21.71 | 21.63  |                        |
| 10              | 256QAM | 1  | 25 | 21.80  | 21.74 | 21.72  |                        |
| 10              | 256QAM | 1  | 49 | 21.65  | 21.74 | 21.64  | 21.9                   |
| 10              | 256QAM | 25 | 0  | 21.47  | 21.58 | 21.43  |                        |
| 10              | 256QAM | 25 | 12 | 21.34  | 21.53 | 21.39  |                        |
| 10              | 256QAM | 25 | 25 | 21.42  | 21.54 | 21.62  | 21.9                   |
| 10              | 256QAM | 50 | 0  | 21.52  | 21.37 | 21.44  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 26.01  | 26.02 | 26.01  | 26.9                   |
| 5               | QPSK   | 1  | 12 | 25.97  | 25.90 | 25.98  |                        |
| 5               | QPSK   | 1  | 24 | 26.02  | 26.04 | 25.98  |                        |
| 5               | QPSK   | 12 | 0  | 25.07  | 25.15 | 25.07  | 26.9                   |
| 5               | QPSK   | 12 | 7  | 25.05  | 25.07 | 25.04  |                        |
| 5               | QPSK   | 12 | 13 | 25.05  | 24.98 | 25.12  |                        |
| 5               | QPSK   | 25 | 0  | 25.02  | 24.98 | 24.96  | 25.9                   |
| 5               | 16QAM  | 1  | 0  | 25.47  | 25.26 | 25.56  |                        |
| 5               | 16QAM  | 1  | 12 | 25.24  | 25.07 | 25.42  |                        |
| 5               | 16QAM  | 1  | 24 | 25.34  | 25.42 | 25.40  | 24.9                   |
| 5               | 16QAM  | 12 | 0  | 24.14  | 24.11 | 24.04  |                        |
| 5               | 16QAM  | 12 | 7  | 24.04  | 24.17 | 24.14  |                        |
| 5               | 16QAM  | 12 | 13 | 24.17  | 24.20 | 24.12  | 24.9                   |
| 5               | 16QAM  | 25 | 0  | 24.09  | 24.04 | 24.00  |                        |
| 5               | 64QAM  | 1  | 0  | 24.42  | 24.45 | 24.32  |                        |
| 5               | 64QAM  | 1  | 12 | 24.31  | 24.30 | 24.33  | 23.9                   |
| 5               | 64QAM  | 1  | 24 | 24.37  | 24.28 | 24.15  |                        |
| 5               | 64QAM  | 12 | 0  | 23.13  | 22.95 | 23.15  |                        |
| 5               | 64QAM  | 12 | 7  | 22.97  | 23.04 | 23.12  | 21.9                   |
| 5               | 64QAM  | 12 | 13 | 23.04  | 23.13 | 23.07  |                        |
| 5               | 64QAM  | 25 | 0  | 22.98  | 23.13 | 23.08  |                        |
| 5               | 256QAM | 1  | 0  | 21.65  | 21.76 | 21.59  | 21.9                   |
| 5               | 256QAM | 1  | 12 | 21.64  | 21.82 | 21.69  |                        |
| 5               | 256QAM | 1  | 24 | 21.65  | 21.59 | 21.72  |                        |
| 5               | 256QAM | 12 | 0  | 21.36  | 21.47 | 21.49  | 21.9                   |
| 5               | 256QAM | 12 | 7  | 21.51  | 21.44 | 21.58  |                        |
| 5               | 256QAM | 12 | 13 | 21.49  | 21.41 | 21.61  |                        |
| 5               | 256QAM | 25 | 0  | 21.52  | 21.47 | 21.42  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 21.53                    | 21.47                       | 21.42                     |                        |
| 20              | QPSK       | 1       | 49        | 21.33                    | 21.33                       | 21.25                     | 21.9                   |
| 20              | QPSK       | 1       | 99        | 21.39                    | 21.39                       | 21.31                     |                        |
| 20              | QPSK       | 50      | 0         | 21.45                    | 21.42                       | 21.33                     |                        |
| 20              | QPSK       | 50      | 24        | 21.35                    | 21.39                       | 21.32                     | 21.9                   |
| 20              | QPSK       | 50      | 50        | 21.37                    | 21.31                       | 21.32                     |                        |
| 20              | QPSK       | 100     | 0         | 21.41                    | 21.29                       | 21.30                     |                        |
| 20              | 16QAM      | 1       | 0         | 21.52                    | 21.47                       | 21.30                     | 21.9                   |
| 20              | 16QAM      | 1       | 49        | 21.49                    | 21.30                       | 21.37                     |                        |
| 20              | 16QAM      | 1       | 99        | 21.51                    | 21.41                       | 21.39                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.47                    | 21.35                       | 21.23                     | 21.9                   |
| 20              | 16QAM      | 50      | 24        | 21.52                    | 21.43                       | 21.27                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.47                    | 21.30                       | 21.39                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.40                    | 21.34                       | 21.30                     | 21.9                   |
| 20              | 64QAM      | 1       | 0         | 21.36                    | 21.32                       | 21.29                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.40                    | 21.42                       | 21.30                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.41                    | 21.39                       | 21.36                     | 21.9                   |
| 20              | 64QAM      | 50      | 0         | 21.35                    | 21.35                       | 21.33                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.45                    | 21.36                       | 21.41                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.48                    | 21.35                       | 21.31                     | 21.9                   |
| 20              | 64QAM      | 100     | 0         | 21.52                    | 21.44                       | 21.29                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.43                    | 21.27                       | 21.39                     |                        |
| 20              | 256QAM     | 1       | 49        | 21.43                    | 21.44                       | 21.23                     | 21.9                   |
| 20              | 256QAM     | 1       | 99        | 21.50                    | 21.45                       | 21.38                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.52                    | 21.38                       | 21.26                     |                        |
| 20              | 256QAM     | 50      | 24        | 21.51                    | 21.30                       | 21.39                     | 21.9                   |
| 20              | 256QAM     | 50      | 50        | 21.39                    | 21.47                       | 21.22                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.36                    | 21.37                       | 21.31                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 21.51                    | 21.30                       | 21.39                     |                        |
| 15              | QPSK       | 1       | 37        | 21.19                    | 21.16                       | 21.21                     | 21.9                   |
| 15              | QPSK       | 1       | 74        | 21.23                    | 21.29                       | 21.29                     |                        |
| 15              | QPSK       | 36      | 0         | 21.39                    | 21.40                       | 21.18                     |                        |
| 15              | QPSK       | 36      | 20        | 21.29                    | 21.23                       | 21.26                     | 21.9                   |
| 15              | QPSK       | 36      | 39        | 21.32                    | 21.29                       | 21.18                     |                        |
| 15              | QPSK       | 75      | 0         | 21.24                    | 21.15                       | 21.18                     |                        |
| 15              | 16QAM      | 1       | 0         | 21.38                    | 21.34                       | 21.22                     | 21.9                   |
| 15              | 16QAM      | 1       | 37        | 21.49                    | 21.14                       | 21.21                     |                        |
| 15              | 16QAM      | 1       | 74        | 21.44                    | 21.26                       | 21.35                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.44                    | 21.33                       | 21.14                     | 21.9                   |
| 15              | 16QAM      | 36      | 20        | 21.46                    | 21.30                       | 21.23                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.35                    | 21.11                       | 21.23                     |                        |
| 15              | 16QAM      | 75      | 0         | 21.32                    | 21.16                       | 21.27                     | 21.9                   |
| 15              | 64QAM      | 1       | 0         | 21.36                    | 21.25                       | 21.22                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.35                    | 21.34                       | 21.29                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.32                    | 21.31                       | 21.30                     | 21.9                   |
| 15              | 64QAM      | 36      | 0         | 21.23                    | 21.17                       | 21.32                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.28                    | 21.26                       | 21.38                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.31                    | 21.35                       | 21.14                     | 21.9                   |
| 15              | 64QAM      | 75      | 0         | 21.45                    | 21.39                       | 21.10                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.43                    | 21.17                       | 21.25                     |                        |
| 15              | 256QAM     | 1       | 37        | 21.34                    | 21.29                       | 21.03                     | 21.9                   |
| 15              | 256QAM     | 1       | 74        | 21.50                    | 21.43                       | 21.33                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.40                    | 21.27                       | 21.22                     |                        |
| 15              | 256QAM     | 36      | 20        | 21.32                    | 21.30                       | 21.31                     | 21.9                   |
| 15              | 256QAM     | 36      | 39        | 21.39                    | 21.41                       | 21.22                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 21.20  | 21.27 | 21.27  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 21.41  | 21.40 | 21.41  | 21.9                   |
| 10              | QPSK   | 1  | 25 | 21.22  | 21.16 | 21.18  |                        |
| 10              | QPSK   | 1  | 49 | 21.24  | 21.22 | 21.18  |                        |
| 10              | QPSK   | 25 | 0  | 21.25  | 21.33 | 21.28  | 21.9                   |
| 10              | QPSK   | 25 | 12 | 21.19  | 21.33 | 21.18  |                        |
| 10              | QPSK   | 25 | 25 | 21.26  | 21.23 | 21.24  |                        |
| 10              | QPSK   | 50 | 0  | 21.24  | 21.15 | 21.25  | 21.9                   |
| 10              | 16QAM  | 1  | 0  | 21.36  | 21.47 | 21.21  |                        |
| 10              | 16QAM  | 1  | 25 | 21.31  | 21.22 | 21.18  |                        |
| 10              | 16QAM  | 1  | 49 | 21.39  | 21.28 | 21.23  | 21.9                   |
| 10              | 16QAM  | 25 | 0  | 21.41  | 21.15 | 21.14  |                        |
| 10              | 16QAM  | 25 | 12 | 21.39  | 21.30 | 21.21  |                        |
| 10              | 16QAM  | 25 | 25 | 21.35  | 21.15 | 21.23  | 21.9                   |
| 10              | 16QAM  | 50 | 0  | 21.26  | 21.31 | 21.23  |                        |
| 10              | 64QAM  | 1  | 0  | 21.24  | 21.21 | 21.20  |                        |
| 10              | 64QAM  | 1  | 25 | 21.39  | 21.42 | 21.20  | 21.9                   |
| 10              | 64QAM  | 1  | 49 | 21.27  | 21.23 | 21.18  |                        |
| 10              | 64QAM  | 25 | 0  | 21.31  | 21.15 | 21.20  |                        |
| 10              | 64QAM  | 25 | 12 | 21.37  | 21.30 | 21.29  | 21.9                   |
| 10              | 64QAM  | 25 | 25 | 21.34  | 21.17 | 21.13  |                        |
| 10              | 64QAM  | 50 | 0  | 21.51  | 21.39 | 21.25  |                        |
| 10              | 256QAM | 1  | 0  | 21.34  | 21.12 | 21.37  | 21.9                   |
| 10              | 256QAM | 1  | 25 | 21.25  | 21.43 | 21.07  |                        |
| 10              | 256QAM | 1  | 49 | 21.45  | 21.34 | 21.33  |                        |
| 10              | 256QAM | 25 | 0  | 21.32  | 21.25 | 21.15  | 21.9                   |
| 10              | 256QAM | 25 | 12 | 21.36  | 21.30 | 21.39  |                        |
| 10              | 256QAM | 25 | 25 | 21.27  | 21.46 | 21.11  |                        |
| 10              | 256QAM | 50 | 0  | 21.28  | 21.28 | 21.28  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 21.38  | 21.46 | 21.29  | 21.9                   |
| 5               | QPSK   | 1  | 12 | 21.24  | 21.33 | 21.12  |                        |
| 5               | QPSK   | 1  | 24 | 21.22  | 21.33 | 21.27  |                        |
| 5               | QPSK   | 12 | 0  | 21.30  | 21.35 | 21.27  | 21.9                   |
| 5               | QPSK   | 12 | 7  | 21.25  | 21.24 | 21.13  |                        |
| 5               | QPSK   | 12 | 13 | 21.30  | 21.14 | 21.28  |                        |
| 5               | QPSK   | 25 | 0  | 21.33  | 21.11 | 21.19  | 21.9                   |
| 5               | 16QAM  | 1  | 0  | 21.36  | 21.30 | 21.21  |                        |
| 5               | 16QAM  | 1  | 12 | 21.29  | 21.27 | 21.26  |                        |
| 5               | 16QAM  | 1  | 24 | 21.51  | 21.33 | 21.32  | 21.9                   |
| 5               | 16QAM  | 12 | 0  | 21.31  | 21.30 | 21.13  |                        |
| 5               | 16QAM  | 12 | 7  | 21.47  | 21.33 | 21.15  |                        |
| 5               | 16QAM  | 12 | 13 | 21.36  | 21.26 | 21.31  | 21.9                   |
| 5               | 16QAM  | 25 | 0  | 21.33  | 21.24 | 21.18  |                        |
| 5               | 64QAM  | 1  | 0  | 21.27  | 21.22 | 21.17  |                        |
| 5               | 64QAM  | 1  | 12 | 21.24  | 21.40 | 21.28  | 21.9                   |
| 5               | 64QAM  | 1  | 24 | 21.37  | 21.24 | 21.33  |                        |
| 5               | 64QAM  | 12 | 0  | 21.31  | 21.32 | 21.24  |                        |
| 5               | 64QAM  | 12 | 7  | 21.28  | 21.27 | 21.37  | 21.9                   |
| 5               | 64QAM  | 12 | 13 | 21.45  | 21.27 | 21.27  |                        |
| 5               | 64QAM  | 25 | 0  | 21.45  | 21.44 | 21.11  |                        |
| 5               | 256QAM | 1  | 0  | 21.43  | 21.26 | 21.32  | 21.9                   |
| 5               | 256QAM | 1  | 12 | 21.37  | 21.33 | 21.15  |                        |
| 5               | 256QAM | 1  | 24 | 21.40  | 21.38 | 21.23  |                        |
| 5               | 256QAM | 12 | 0  | 21.46  | 21.24 | 21.17  | 21.9                   |
| 5               | 256QAM | 12 | 7  | 21.51  | 21.28 | 21.29  |                        |
| 5               | 256QAM | 12 | 13 | 21.20  | 21.27 | 21.02  |                        |
| 5               | 256QAM | 25 | 0  | 21.23  | 21.21 | 21.12  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |



&lt;LTE Band 38\_HPUE\_Ant 0\_Index 7/8&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 26.01                    | 26.00                       | 25.97                     |                        |
| 20              | QPSK       | 1       | 49        | 25.97                    | 25.90                       | 25.92                     | 26.9                   |
| 20              | QPSK       | 1       | 99        | 25.88                    | 25.92                       | 25.88                     |                        |
| 20              | QPSK       | 50      | 0         | 24.90                    | 24.85                       | 24.84                     |                        |
| 20              | QPSK       | 50      | 24        | 24.82                    | 24.77                       | 24.81                     | 25.9                   |
| 20              | QPSK       | 50      | 50        | 24.81                    | 24.77                       | 24.76                     |                        |
| 20              | QPSK       | 100     | 0         | 24.84                    | 24.83                       | 24.83                     |                        |
| 20              | 16QAM      | 1       | 0         | 24.99                    | 24.95                       | 24.82                     | 25.9                   |
| 20              | 16QAM      | 1       | 49        | 24.97                    | 24.94                       | 24.93                     |                        |
| 20              | 16QAM      | 1       | 99        | 25.07                    | 24.98                       | 24.94                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.87                    | 23.83                       | 23.81                     | 24.9                   |
| 20              | 16QAM      | 50      | 24        | 23.84                    | 23.82                       | 23.81                     |                        |
| 20              | 16QAM      | 50      | 50        | 23.84                    | 23.86                       | 23.84                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.83                    | 23.85                       | 23.80                     | 24.9                   |
| 20              | 64QAM      | 1       | 0         | 23.89                    | 23.67                       | 23.68                     |                        |
| 20              | 64QAM      | 1       | 49        | 23.72                    | 23.71                       | 23.80                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.80                    | 23.70                       | 23.68                     | 23.9                   |
| 20              | 64QAM      | 50      | 0         | 22.80                    | 22.86                       | 22.79                     |                        |
| 20              | 64QAM      | 50      | 24        | 22.84                    | 22.79                       | 22.75                     |                        |
| 20              | 64QAM      | 50      | 50        | 22.86                    | 22.84                       | 22.76                     | 21.9                   |
| 20              | 64QAM      | 100     | 0         | 22.86                    | 22.83                       | 22.74                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.16                    | 20.97                       | 20.89                     |                        |
| 20              | 256QAM     | 1       | 49        | 20.99                    | 21.01                       | 21.03                     | 21.9                   |
| 20              | 256QAM     | 1       | 99        | 21.00                    | 20.94                       | 20.95                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.01                    | 21.14                       | 21.07                     |                        |
| 20              | 256QAM     | 50      | 24        | 21.14                    | 21.03                       | 21.04                     | 21.9                   |
| 20              | 256QAM     | 50      | 50        | 21.06                    | 21.14                       | 21.06                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.13                    | 21.09                       | 21.04                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 25.83                    | 25.99                       | 25.84                     |                        |
| 15              | QPSK       | 1       | 37        | 25.78                    | 25.90                       | 25.81                     | 26.9                   |
| 15              | QPSK       | 1       | 74        | 25.83                    | 25.79                       | 25.72                     |                        |
| 15              | QPSK       | 36      | 0         | 24.76                    | 24.76                       | 24.83                     |                        |
| 15              | QPSK       | 36      | 20        | 24.69                    | 24.76                       | 24.75                     | 25.9                   |
| 15              | QPSK       | 36      | 39        | 24.78                    | 24.75                       | 24.57                     |                        |
| 15              | QPSK       | 75      | 0         | 24.65                    | 24.66                       | 24.79                     |                        |
| 15              | 16QAM      | 1       | 0         | 24.83                    | 24.75                       | 24.75                     | 25.9                   |
| 15              | 16QAM      | 1       | 37        | 24.78                    | 24.76                       | 24.89                     |                        |
| 15              | 16QAM      | 1       | 74        | 25.01                    | 24.80                       | 24.87                     |                        |
| 15              | 16QAM      | 36      | 0         | 23.76                    | 23.64                       | 23.74                     | 24.9                   |
| 15              | 16QAM      | 36      | 20        | 23.79                    | 23.76                       | 23.78                     |                        |
| 15              | 16QAM      | 36      | 39        | 23.77                    | 23.70                       | 23.76                     |                        |
| 15              | 16QAM      | 75      | 0         | 23.77                    | 23.82                       | 23.69                     | 24.9                   |
| 15              | 64QAM      | 1       | 0         | 23.87                    | 23.66                       | 23.60                     |                        |
| 15              | 64QAM      | 1       | 37        | 23.70                    | 23.56                       | 23.74                     |                        |
| 15              | 64QAM      | 1       | 74        | 23.61                    | 23.69                       | 23.50                     | 23.9                   |
| 15              | 64QAM      | 36      | 0         | 22.69                    | 22.79                       | 22.71                     |                        |
| 15              | 64QAM      | 36      | 20        | 22.72                    | 22.65                       | 22.64                     |                        |
| 15              | 64QAM      | 36      | 39        | 22.82                    | 22.83                       | 22.73                     | 21.9                   |
| 15              | 64QAM      | 75      | 0         | 22.80                    | 22.72                       | 22.67                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.08                    | 20.86                       | 20.85                     |                        |
| 15              | 256QAM     | 1       | 37        | 20.81                    | 20.90                       | 20.87                     | 21.9                   |
| 15              | 256QAM     | 1       | 74        | 20.82                    | 20.85                       | 20.77                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.83                    | 21.12                       | 20.91                     |                        |
| 15              | 256QAM     | 36      | 20        | 20.95                    | 20.92                       | 20.89                     | 21.9                   |
| 15              | 256QAM     | 36      | 39        | 21.05                    | 20.99                       | 20.92                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 20.97  | 20.92 | 20.95  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 25.84  | 25.94 | 25.97  | 26.9                   |
| 10              | QPSK   | 1  | 25 | 25.95  | 25.90 | 25.73  |                        |
| 10              | QPSK   | 1  | 49 | 25.88  | 25.88 | 25.81  |                        |
| 10              | QPSK   | 25 | 0  | 24.78  | 24.73 | 24.83  | 25.9                   |
| 10              | QPSK   | 25 | 12 | 24.66  | 24.58 | 24.75  |                        |
| 10              | QPSK   | 25 | 25 | 24.69  | 24.61 | 24.67  |                        |
| 10              | QPSK   | 50 | 0  | 24.74  | 24.64 | 24.73  |                        |
| 10              | 16QAM  | 1  | 0  | 24.97  | 24.85 | 24.81  | 25.9                   |
| 10              | 16QAM  | 1  | 25 | 24.86  | 24.81 | 24.92  |                        |
| 10              | 16QAM  | 1  | 49 | 24.88  | 24.92 | 24.90  |                        |
| 10              | 16QAM  | 25 | 0  | 23.71  | 23.69 | 23.66  | 24.9                   |
| 10              | 16QAM  | 25 | 12 | 23.81  | 23.70 | 23.77  |                        |
| 10              | 16QAM  | 25 | 25 | 23.66  | 23.71 | 23.81  |                        |
| 10              | 16QAM  | 50 | 0  | 23.68  | 23.70 | 23.76  |                        |
| 10              | 64QAM  | 1  | 0  | 23.73  | 23.64 | 23.63  | 24.9                   |
| 10              | 64QAM  | 1  | 25 | 23.57  | 23.51 | 23.71  |                        |
| 10              | 64QAM  | 1  | 49 | 23.72  | 23.53 | 23.50  |                        |
| 10              | 64QAM  | 25 | 0  | 22.70  | 22.81 | 22.76  | 23.9                   |
| 10              | 64QAM  | 25 | 12 | 22.67  | 22.62 | 22.68  |                        |
| 10              | 64QAM  | 25 | 25 | 22.71  | 22.79 | 22.61  |                        |
| 10              | 64QAM  | 50 | 0  | 22.67  | 22.68 | 22.56  |                        |
| 10              | 256QAM | 1  | 0  | 21.12  | 20.84 | 20.73  | 21.9                   |
| 10              | 256QAM | 1  | 25 | 20.95  | 20.91 | 20.97  |                        |
| 10              | 256QAM | 1  | 49 | 20.96  | 20.79 | 20.84  |                        |
| 10              | 256QAM | 25 | 0  | 20.99  | 21.06 | 20.97  | 21.9                   |
| 10              | 256QAM | 25 | 12 | 21.14  | 20.96 | 20.86  |                        |
| 10              | 256QAM | 25 | 25 | 21.03  | 21.03 | 21.02  |                        |
| 10              | 256QAM | 50 | 0  | 21.05  | 21.05 | 20.94  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 25.87  | 26.00 | 25.87  | 26.9                   |
| 5               | QPSK   | 1  | 12 | 25.86  | 25.73 | 25.88  |                        |
| 5               | QPSK   | 1  | 24 | 25.69  | 25.76 | 25.83  |                        |
| 5               | QPSK   | 12 | 0  | 24.73  | 24.73 | 24.70  | 25.9                   |
| 5               | QPSK   | 12 | 7  | 24.73  | 24.60 | 24.66  |                        |
| 5               | QPSK   | 12 | 13 | 24.77  | 24.57 | 24.60  |                        |
| 5               | QPSK   | 25 | 0  | 24.84  | 24.65 | 24.70  |                        |
| 5               | 16QAM  | 1  | 0  | 24.97  | 24.94 | 24.75  | 25.9                   |
| 5               | 16QAM  | 1  | 12 | 24.79  | 24.81 | 24.76  |                        |
| 5               | 16QAM  | 1  | 24 | 24.88  | 24.89 | 24.90  |                        |
| 5               | 16QAM  | 12 | 0  | 23.81  | 23.78 | 23.75  | 24.9                   |
| 5               | 16QAM  | 12 | 7  | 23.78  | 23.80 | 23.73  |                        |
| 5               | 16QAM  | 12 | 13 | 23.67  | 23.72 | 23.75  |                        |
| 5               | 16QAM  | 25 | 0  | 23.69  | 23.81 | 23.66  |                        |
| 5               | 64QAM  | 1  | 0  | 23.80  | 23.67 | 23.61  | 24.9                   |
| 5               | 64QAM  | 1  | 12 | 23.70  | 23.65 | 23.76  |                        |
| 5               | 64QAM  | 1  | 24 | 23.61  | 23.53 | 23.65  |                        |
| 5               | 64QAM  | 12 | 0  | 22.63  | 22.75 | 22.76  | 23.9                   |
| 5               | 64QAM  | 12 | 7  | 22.76  | 22.69 | 22.55  |                        |
| 5               | 64QAM  | 12 | 13 | 22.82  | 22.79 | 22.66  |                        |
| 5               | 64QAM  | 25 | 0  | 22.83  | 22.64 | 22.60  |                        |
| 5               | 256QAM | 1  | 0  | 21.01  | 20.81 | 20.82  | 21.9                   |
| 5               | 256QAM | 1  | 12 | 20.79  | 20.95 | 20.87  |                        |
| 5               | 256QAM | 1  | 24 | 21.00  | 20.77 | 20.86  |                        |
| 5               | 256QAM | 12 | 0  | 20.84  | 21.09 | 20.93  | 21.9                   |
| 5               | 256QAM | 12 | 7  | 21.12  | 21.00 | 20.95  |                        |
| 5               | 256QAM | 12 | 13 | 20.90  | 20.97 | 20.87  |                        |
| 5               | 256QAM | 25 | 0  | 21.01  | 21.04 | 20.94  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 25.45                    | 25.38                       | 25.54                     |                        |
| 20              | QPSK       | 1       | 49        | 25.23                    | 25.24                       | 25.52                     | 26.9                   |
| 20              | QPSK       | 1       | 99        | 25.32                    | 25.28                       | 25.50                     |                        |
| 20              | QPSK       | 50      | 0         | 24.34                    | 24.24                       | 24.52                     |                        |
| 20              | QPSK       | 50      | 24        | 24.27                    | 24.21                       | 24.41                     | 25.9                   |
| 20              | QPSK       | 50      | 50        | 24.29                    | 24.23                       | 24.46                     |                        |
| 20              | QPSK       | 100     | 0         | 24.31                    | 24.24                       | 24.44                     |                        |
| 20              | 16QAM      | 1       | 0         | 24.53                    | 24.39                       | 24.69                     | 25.9                   |
| 20              | 16QAM      | 1       | 49        | 24.27                    | 24.22                       | 24.58                     |                        |
| 20              | 16QAM      | 1       | 99        | 24.40                    | 24.36                       | 24.65                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.30                    | 23.32                       | 23.54                     | 24.9                   |
| 20              | 16QAM      | 50      | 24        | 23.28                    | 23.25                       | 23.37                     |                        |
| 20              | 16QAM      | 50      | 50        | 23.31                    | 23.25                       | 23.34                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.27                    | 23.32                       | 23.52                     | 24.9                   |
| 20              | 64QAM      | 1       | 0         | 23.28                    | 23.31                       | 23.42                     |                        |
| 20              | 64QAM      | 1       | 49        | 23.13                    | 23.11                       | 23.29                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.17                    | 23.23                       | 23.34                     | 23.9                   |
| 20              | 64QAM      | 50      | 0         | 22.33                    | 22.19                       | 22.50                     |                        |
| 20              | 64QAM      | 50      | 24        | 22.31                    | 22.34                       | 22.45                     |                        |
| 20              | 64QAM      | 50      | 50        | 22.23                    | 22.18                       | 22.34                     | 21.9                   |
| 20              | 64QAM      | 100     | 0         | 22.37                    | 22.27                       | 22.55                     |                        |
| 20              | 256QAM     | 1       | 0         | 20.58                    | 20.58                       | 20.68                     |                        |
| 20              | 256QAM     | 1       | 49        | 20.40                    | 20.32                       | 20.54                     | 21.9                   |
| 20              | 256QAM     | 1       | 99        | 20.45                    | 20.47                       | 20.64                     |                        |
| 20              | 256QAM     | 50      | 0         | 20.55                    | 20.42                       | 20.78                     |                        |
| 20              | 256QAM     | 50      | 24        | 20.53                    | 20.54                       | 20.73                     | 21.9                   |
| 20              | 256QAM     | 50      | 50        | 20.44                    | 20.40                       | 20.57                     |                        |
| 20              | 256QAM     | 100     | 0         | 20.60                    | 20.57                       | 20.75                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 25.36                    | 25.18                       | 25.44                     |                        |
| 15              | QPSK       | 1       | 37        | 25.05                    | 25.09                       | 25.46                     | 26.9                   |
| 15              | QPSK       | 1       | 74        | 25.27                    | 25.13                       | 25.50                     |                        |
| 15              | QPSK       | 36      | 0         | 24.26                    | 24.13                       | 24.49                     | 25.9                   |
| 15              | QPSK       | 36      | 20        | 24.23                    | 24.10                       | 24.30                     |                        |
| 15              | QPSK       | 36      | 39        | 24.24                    | 24.15                       | 24.39                     |                        |
| 15              | QPSK       | 75      | 0         | 24.21                    | 24.06                       | 24.26                     | 25.9                   |
| 15              | 16QAM      | 1       | 0         | 24.43                    | 24.33                       | 24.61                     |                        |
| 15              | 16QAM      | 1       | 37        | 24.12                    | 24.03                       | 24.45                     |                        |
| 15              | 16QAM      | 1       | 74        | 24.20                    | 24.22                       | 24.64                     | 24.9                   |
| 15              | 16QAM      | 36      | 0         | 23.29                    | 23.27                       | 23.41                     |                        |
| 15              | 16QAM      | 36      | 20        | 23.27                    | 23.13                       | 23.36                     |                        |
| 15              | 16QAM      | 36      | 39        | 23.30                    | 23.20                       | 23.29                     | 24.9                   |
| 15              | 16QAM      | 75      | 0         | 23.23                    | 23.30                       | 23.49                     |                        |
| 15              | 64QAM      | 1       | 0         | 23.28                    | 23.16                       | 23.42                     |                        |
| 15              | 64QAM      | 1       | 37        | 23.11                    | 22.98                       | 23.17                     | 23.9                   |
| 15              | 64QAM      | 1       | 74        | 23.14                    | 23.13                       | 23.16                     |                        |
| 15              | 64QAM      | 36      | 0         | 22.20                    | 22.00                       | 22.47                     |                        |
| 15              | 64QAM      | 36      | 20        | 22.25                    | 22.23                       | 22.25                     | 21.9                   |
| 15              | 64QAM      | 36      | 39        | 22.15                    | 22.05                       | 22.22                     |                        |
| 15              | 64QAM      | 75      | 0         | 22.17                    | 22.23                       | 22.47                     |                        |
| 15              | 256QAM     | 1       | 0         | 20.50                    | 20.41                       | 20.58                     | 21.9                   |
| 15              | 256QAM     | 1       | 37        | 20.26                    | 20.15                       | 20.43                     |                        |
| 15              | 256QAM     | 1       | 74        | 20.35                    | 20.36                       | 20.45                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.54                    | 20.28                       | 20.77                     | 21.9                   |
| 15              | 256QAM     | 36      | 20        | 20.37                    | 20.49                       | 20.54                     |                        |
| 15              | 256QAM     | 36      | 39        | 20.42                    | 20.28                       | 20.49                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 20.55  | 20.40 | 20.59  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 25.37  | 25.34 | 25.39  | 26.9                   |
| 10              | QPSK   | 1  | 25 | 25.17  | 25.21 | 25.45  |                        |
| 10              | QPSK   | 1  | 49 | 25.28  | 25.10 | 25.40  |                        |
| 10              | QPSK   | 25 | 0  | 24.22  | 24.22 | 24.34  | 25.9                   |
| 10              | QPSK   | 25 | 12 | 24.13  | 24.12 | 24.21  |                        |
| 10              | QPSK   | 25 | 25 | 24.14  | 24.20 | 24.26  |                        |
| 10              | QPSK   | 50 | 0  | 24.22  | 24.18 | 24.33  |                        |
| 10              | 16QAM  | 1  | 0  | 24.52  | 24.34 | 24.69  | 25.9                   |
| 10              | 16QAM  | 1  | 25 | 24.10  | 24.13 | 24.58  |                        |
| 10              | 16QAM  | 1  | 49 | 24.34  | 24.27 | 24.46  |                        |
| 10              | 16QAM  | 25 | 0  | 23.11  | 23.12 | 23.50  | 24.9                   |
| 10              | 16QAM  | 25 | 12 | 23.09  | 23.21 | 23.22  |                        |
| 10              | 16QAM  | 25 | 25 | 23.18  | 23.11 | 23.27  |                        |
| 10              | 16QAM  | 50 | 0  | 23.16  | 23.18 | 23.45  |                        |
| 10              | 64QAM  | 1  | 0  | 23.11  | 23.23 | 23.28  | 24.9                   |
| 10              | 64QAM  | 1  | 25 | 23.02  | 22.96 | 23.26  |                        |
| 10              | 64QAM  | 1  | 49 | 23.02  | 23.10 | 23.19  |                        |
| 10              | 64QAM  | 25 | 0  | 22.28  | 22.17 | 22.42  | 23.9                   |
| 10              | 64QAM  | 25 | 12 | 22.12  | 22.20 | 22.30  |                        |
| 10              | 64QAM  | 25 | 25 | 22.06  | 22.00 | 22.32  |                        |
| 10              | 64QAM  | 50 | 0  | 22.27  | 22.11 | 22.46  |                        |
| 10              | 256QAM | 1  | 0  | 20.42  | 20.48 | 20.58  | 21.9                   |
| 10              | 256QAM | 1  | 25 | 20.40  | 20.13 | 20.52  |                        |
| 10              | 256QAM | 1  | 49 | 20.26  | 20.28 | 20.55  |                        |
| 10              | 256QAM | 25 | 0  | 20.50  | 20.42 | 20.59  | 21.9                   |
| 10              | 256QAM | 25 | 12 | 20.53  | 20.52 | 20.59  |                        |
| 10              | 256QAM | 25 | 25 | 20.33  | 20.21 | 20.52  |                        |
| 10              | 256QAM | 50 | 0  | 20.55  | 20.57 | 20.60  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 25.35  | 25.31 | 25.47  | 26.9                   |
| 5               | QPSK   | 1  | 12 | 25.05  | 25.04 | 25.47  |                        |
| 5               | QPSK   | 1  | 24 | 25.13  | 25.11 | 25.48  |                        |
| 5               | QPSK   | 12 | 0  | 24.18  | 24.17 | 24.43  | 25.9                   |
| 5               | QPSK   | 12 | 7  | 24.14  | 24.06 | 24.29  |                        |
| 5               | QPSK   | 12 | 13 | 24.14  | 24.09 | 24.34  |                        |
| 5               | QPSK   | 25 | 0  | 24.29  | 24.06 | 24.26  |                        |
| 5               | 16QAM  | 1  | 0  | 24.49  | 24.35 | 24.63  | 25.9                   |
| 5               | 16QAM  | 1  | 12 | 24.11  | 24.13 | 24.55  |                        |
| 5               | 16QAM  | 1  | 24 | 24.22  | 24.34 | 24.58  |                        |
| 5               | 16QAM  | 12 | 0  | 23.13  | 23.14 | 23.49  | 24.9                   |
| 5               | 16QAM  | 12 | 7  | 23.27  | 23.08 | 23.22  |                        |
| 5               | 16QAM  | 12 | 13 | 23.14  | 23.20 | 23.16  |                        |
| 5               | 16QAM  | 25 | 0  | 23.08  | 23.13 | 23.50  |                        |
| 5               | 64QAM  | 1  | 0  | 23.23  | 23.14 | 23.37  | 24.9                   |
| 5               | 64QAM  | 1  | 12 | 23.06  | 23.10 | 23.09  |                        |
| 5               | 64QAM  | 1  | 24 | 22.97  | 23.09 | 23.22  |                        |
| 5               | 64QAM  | 12 | 0  | 22.21  | 22.09 | 22.36  | 23.9                   |
| 5               | 64QAM  | 12 | 7  | 22.11  | 22.25 | 22.33  |                        |
| 5               | 64QAM  | 12 | 13 | 22.05  | 21.99 | 22.26  |                        |
| 5               | 64QAM  | 25 | 0  | 22.36  | 22.14 | 22.50  |                        |
| 5               | 256QAM | 1  | 0  | 20.51  | 20.41 | 20.63  | 21.9                   |
| 5               | 256QAM | 1  | 12 | 20.38  | 20.18 | 20.41  |                        |
| 5               | 256QAM | 1  | 24 | 20.34  | 20.32 | 20.63  |                        |
| 5               | 256QAM | 12 | 0  | 20.35  | 20.22 | 20.64  | 21.9                   |
| 5               | 256QAM | 12 | 7  | 20.39  | 20.41 | 20.61  |                        |
| 5               | 256QAM | 12 | 13 | 20.41  | 20.25 | 20.52  |                        |
| 5               | 256QAM | 25 | 0  | 20.41  | 20.46 | 20.59  |                        |



&lt;LTE Band 38\_HPUE\_Ant 2\_Index 9&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 21.66                    | 21.64                       | 21.63                     |                        |
| 20              | QPSK       | 1       | 49        | 21.64                    | 21.63                       | 21.61                     | 21.8                   |
| 20              | QPSK       | 1       | 99        | 21.65                    | 21.65                       | 21.60                     |                        |
| 20              | QPSK       | 50      | 0         | 21.61                    | 21.60                       | 21.60                     |                        |
| 20              | QPSK       | 50      | 24        | 21.59                    | 21.60                       | 21.58                     | 21.8                   |
| 20              | QPSK       | 50      | 50        | 21.60                    | 21.59                       | 21.59                     |                        |
| 20              | QPSK       | 100     | 0         | 21.60                    | 21.57                       | 21.56                     |                        |
| 20              | 16QAM      | 1       | 0         | 21.58                    | 21.56                       | 21.60                     | 21.8                   |
| 20              | 16QAM      | 1       | 49        | 21.23                    | 21.24                       | 21.21                     |                        |
| 20              | 16QAM      | 1       | 99        | 21.60                    | 21.59                       | 21.57                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.60                    | 21.59                       | 21.61                     | 21.8                   |
| 20              | 16QAM      | 50      | 24        | 21.62                    | 21.60                       | 21.61                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.63                    | 21.62                       | 21.61                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.64                    | 21.62                       | 21.64                     | 21.8                   |
| 20              | 64QAM      | 1       | 0         | 21.49                    | 21.48                       | 21.49                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.61                    | 21.52                       | 21.53                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.58                    | 21.54                       | 21.59                     | 21.8                   |
| 20              | 64QAM      | 50      | 0         | 21.61                    | 21.61                       | 21.60                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.61                    | 21.62                       | 21.61                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.61                    | 21.63                       | 21.61                     | 21.8                   |
| 20              | 64QAM      | 100     | 0         | 21.63                    | 21.63                       | 21.61                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.61                    | 21.61                       | 21.56                     |                        |
| 20              | 256QAM     | 1       | 49        | 21.63                    | 21.61                       | 21.59                     | 21.8                   |
| 20              | 256QAM     | 1       | 99        | 21.49                    | 21.62                       | 21.54                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.37                    | 21.31                       | 21.48                     |                        |
| 20              | 256QAM     | 50      | 24        | 21.27                    | 21.42                       | 21.34                     | 21.8                   |
| 20              | 256QAM     | 50      | 50        | 21.40                    | 21.29                       | 21.37                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.43                    | 21.32                       | 21.44                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 21.61                    | 21.50                       | 21.44                     |                        |
| 15              | QPSK       | 1       | 37        | 21.58                    | 21.46                       | 21.49                     | 21.8                   |
| 15              | QPSK       | 1       | 74        | 21.60                    | 21.53                       | 21.57                     |                        |
| 15              | QPSK       | 36      | 0         | 21.45                    | 21.41                       | 21.43                     |                        |
| 15              | QPSK       | 36      | 20        | 21.56                    | 21.48                       | 21.38                     | 21.8                   |
| 15              | QPSK       | 36      | 39        | 21.47                    | 21.53                       | 21.57                     |                        |
| 15              | QPSK       | 75      | 0         | 21.46                    | 21.41                       | 21.36                     |                        |
| 15              | 16QAM      | 1       | 0         | 21.41                    | 21.46                       | 21.40                     | 21.8                   |
| 15              | 16QAM      | 1       | 37        | 21.03                    | 21.04                       | 21.10                     |                        |
| 15              | 16QAM      | 1       | 74        | 21.50                    | 21.52                       | 21.41                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.48                    | 21.58                       | 21.61                     | 21.8                   |
| 15              | 16QAM      | 36      | 20        | 21.44                    | 21.53                       | 21.60                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.55                    | 21.61                       | 21.50                     |                        |
| 15              | 16QAM      | 75      | 0         | 21.53                    | 21.54                       | 21.46                     | 21.8                   |
| 15              | 64QAM      | 1       | 0         | 21.29                    | 21.39                       | 21.29                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.48                    | 21.44                       | 21.53                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.44                    | 21.43                       | 21.39                     | 21.8                   |
| 15              | 64QAM      | 36      | 0         | 21.46                    | 21.44                       | 21.58                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.47                    | 21.59                       | 21.43                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.43                    | 21.46                       | 21.57                     | 21.8                   |
| 15              | 64QAM      | 75      | 0         | 21.56                    | 21.44                       | 21.53                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.60                    | 21.51                       | 21.41                     |                        |
| 15              | 256QAM     | 1       | 37        | 21.52                    | 21.51                       | 21.49                     | 21.8                   |
| 15              | 256QAM     | 1       | 74        | 21.44                    | 21.53                       | 21.49                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.17                    | 21.17                       | 21.48                     |                        |
| 15              | 256QAM     | 36      | 20        | 21.17                    | 21.28                       | 21.29                     | 21.8                   |
| 15              | 256QAM     | 36      | 39        | 21.25                    | 21.23                       | 21.21                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 21.25  | 21.18 | 21.37  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 21.56  | 21.56 | 21.58  | 21.8                   |
| 10              | QPSK   | 1  | 25 | 21.53  | 21.54 | 21.50  |                        |
| 10              | QPSK   | 1  | 49 | 21.53  | 21.59 | 21.40  |                        |
| 10              | QPSK   | 25 | 0  | 21.59  | 21.40 | 21.50  | 21.8                   |
| 10              | QPSK   | 25 | 12 | 21.40  | 21.47 | 21.54  |                        |
| 10              | QPSK   | 25 | 25 | 21.55  | 21.46 | 21.54  |                        |
| 10              | QPSK   | 50 | 0  | 21.56  | 21.46 | 21.51  |                        |
| 10              | 16QAM  | 1  | 0  | 21.53  | 21.47 | 21.59  | 21.8                   |
| 10              | 16QAM  | 1  | 25 | 21.08  | 21.09 | 21.09  |                        |
| 10              | 16QAM  | 1  | 49 | 21.59  | 21.50 | 21.51  |                        |
| 10              | 16QAM  | 25 | 0  | 21.59  | 21.40 | 21.55  | 21.8                   |
| 10              | 16QAM  | 25 | 12 | 21.61  | 21.45 | 21.49  |                        |
| 10              | 16QAM  | 25 | 25 | 21.45  | 21.62 | 21.43  |                        |
| 10              | 16QAM  | 50 | 0  | 21.48  | 21.49 | 21.58  |                        |
| 10              | 64QAM  | 1  | 0  | 21.48  | 21.32 | 21.41  | 21.8                   |
| 10              | 64QAM  | 1  | 25 | 21.58  | 21.38 | 21.50  |                        |
| 10              | 64QAM  | 1  | 49 | 21.46  | 21.54 | 21.47  |                        |
| 10              | 64QAM  | 25 | 0  | 21.61  | 21.51 | 21.40  | 21.8                   |
| 10              | 64QAM  | 25 | 12 | 21.58  | 21.42 | 21.50  |                        |
| 10              | 64QAM  | 25 | 25 | 21.43  | 21.51 | 21.41  |                        |
| 10              | 64QAM  | 50 | 0  | 21.63  | 21.60 | 21.58  |                        |
| 10              | 256QAM | 1  | 0  | 21.55  | 21.50 | 21.39  | 21.8                   |
| 10              | 256QAM | 1  | 25 | 21.56  | 21.46 | 21.57  |                        |
| 10              | 256QAM | 1  | 49 | 21.44  | 21.44 | 21.36  |                        |
| 10              | 256QAM | 25 | 0  | 21.21  | 21.17 | 21.29  | 21.8                   |
| 10              | 256QAM | 25 | 12 | 21.23  | 21.37 | 21.16  |                        |
| 10              | 256QAM | 25 | 25 | 21.24  | 21.17 | 21.37  |                        |
| 10              | 256QAM | 50 | 0  | 21.24  | 21.28 | 21.32  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 21.61  | 21.55 | 21.49  | 21.8                   |
| 5               | QPSK   | 1  | 12 | 21.48  | 21.58 | 21.58  |                        |
| 5               | QPSK   | 1  | 24 | 21.53  | 21.53 | 21.49  |                        |
| 5               | QPSK   | 12 | 0  | 21.58  | 21.60 | 21.50  | 21.8                   |
| 5               | QPSK   | 12 | 7  | 21.46  | 21.59 | 21.56  |                        |
| 5               | QPSK   | 12 | 13 | 21.53  | 21.58 | 21.56  |                        |
| 5               | QPSK   | 25 | 0  | 21.53  | 21.41 | 21.53  |                        |
| 5               | 16QAM  | 1  | 0  | 21.58  | 21.42 | 21.43  | 21.8                   |
| 5               | 16QAM  | 1  | 12 | 21.07  | 21.20 | 21.20  |                        |
| 5               | 16QAM  | 1  | 24 | 21.41  | 21.57 | 21.57  |                        |
| 5               | 16QAM  | 12 | 0  | 21.55  | 21.40 | 21.56  | 21.8                   |
| 5               | 16QAM  | 12 | 7  | 21.42  | 21.60 | 21.59  |                        |
| 5               | 16QAM  | 12 | 13 | 21.43  | 21.49 | 21.52  |                        |
| 5               | 16QAM  | 25 | 0  | 21.54  | 21.55 | 21.52  |                        |
| 5               | 64QAM  | 1  | 0  | 21.47  | 21.43 | 21.29  | 21.8                   |
| 5               | 64QAM  | 1  | 12 | 21.49  | 21.38 | 21.46  |                        |
| 5               | 64QAM  | 1  | 24 | 21.43  | 21.45 | 21.53  |                        |
| 5               | 64QAM  | 12 | 0  | 21.58  | 21.55 | 21.60  | 21.8                   |
| 5               | 64QAM  | 12 | 7  | 21.44  | 21.55 | 21.52  |                        |
| 5               | 64QAM  | 12 | 13 | 21.54  | 21.44 | 21.43  |                        |
| 5               | 64QAM  | 25 | 0  | 21.58  | 21.47 | 21.46  |                        |
| 5               | 256QAM | 1  | 0  | 21.59  | 21.41 | 21.44  | 21.8                   |
| 5               | 256QAM | 1  | 12 | 21.46  | 21.46 | 21.61  |                        |
| 5               | 256QAM | 1  | 24 | 21.44  | 21.49 | 21.44  |                        |
| 5               | 256QAM | 12 | 0  | 21.31  | 21.14 | 21.41  | 21.8                   |
| 5               | 256QAM | 12 | 7  | 21.09  | 21.26 | 21.25  |                        |
| 5               | 256QAM | 12 | 13 | 21.35  | 21.15 | 21.37  |                        |
| 5               | 256QAM | 25 | 0  | 21.33  | 21.28 | 21.27  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 21.53                    | 21.47                       | 21.42                     |                        |
| 20              | QPSK       | 1       | 49        | 21.33                    | 21.33                       | 21.25                     | 22.3                   |
| 20              | QPSK       | 1       | 99        | 21.39                    | 21.39                       | 21.31                     |                        |
| 20              | QPSK       | 50      | 0         | 21.45                    | 21.42                       | 21.33                     |                        |
| 20              | QPSK       | 50      | 24        | 21.35                    | 21.39                       | 21.32                     | 22.3                   |
| 20              | QPSK       | 50      | 50        | 21.37                    | 21.31                       | 21.32                     |                        |
| 20              | QPSK       | 100     | 0         | 21.41                    | 21.29                       | 21.30                     |                        |
| 20              | 16QAM      | 1       | 0         | 21.52                    | 21.47                       | 21.30                     | 22.3                   |
| 20              | 16QAM      | 1       | 49        | 21.49                    | 21.30                       | 21.37                     |                        |
| 20              | 16QAM      | 1       | 99        | 21.51                    | 21.41                       | 21.39                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.47                    | 21.35                       | 21.23                     | 22.3                   |
| 20              | 16QAM      | 50      | 24        | 21.52                    | 21.43                       | 21.27                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.47                    | 21.30                       | 21.39                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.40                    | 21.34                       | 21.30                     | 22.3                   |
| 20              | 64QAM      | 1       | 0         | 21.36                    | 21.32                       | 21.29                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.40                    | 21.42                       | 21.30                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.41                    | 21.39                       | 21.36                     | 22.3                   |
| 20              | 64QAM      | 50      | 0         | 21.35                    | 21.35                       | 21.33                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.45                    | 21.36                       | 21.41                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.48                    | 21.35                       | 21.31                     | 22.3                   |
| 20              | 64QAM      | 100     | 0         | 21.52                    | 21.44                       | 21.29                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.43                    | 21.27                       | 21.39                     |                        |
| 20              | 256QAM     | 1       | 49        | 21.43                    | 21.44                       | 21.23                     | 22                     |
| 20              | 256QAM     | 1       | 99        | 21.50                    | 21.45                       | 21.38                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.52                    | 21.38                       | 21.26                     |                        |
| 20              | 256QAM     | 50      | 24        | 21.51                    | 21.30                       | 21.39                     | 22                     |
| 20              | 256QAM     | 50      | 50        | 21.39                    | 21.47                       | 21.22                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.36                    | 21.37                       | 21.31                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 21.51                    | 21.30                       | 21.39                     |                        |
| 15              | QPSK       | 1       | 37        | 21.19                    | 21.16                       | 21.21                     | 22.3                   |
| 15              | QPSK       | 1       | 74        | 21.23                    | 21.29                       | 21.29                     |                        |
| 15              | QPSK       | 36      | 0         | 21.39                    | 21.40                       | 21.18                     |                        |
| 15              | QPSK       | 36      | 20        | 21.29                    | 21.23                       | 21.26                     | 22.3                   |
| 15              | QPSK       | 36      | 39        | 21.32                    | 21.29                       | 21.18                     |                        |
| 15              | QPSK       | 75      | 0         | 21.24                    | 21.15                       | 21.18                     |                        |
| 15              | 16QAM      | 1       | 0         | 21.38                    | 21.34                       | 21.22                     | 22.3                   |
| 15              | 16QAM      | 1       | 37        | 21.49                    | 21.14                       | 21.21                     |                        |
| 15              | 16QAM      | 1       | 74        | 21.44                    | 21.26                       | 21.35                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.44                    | 21.33                       | 21.14                     | 22.3                   |
| 15              | 16QAM      | 36      | 20        | 21.46                    | 21.30                       | 21.23                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.35                    | 21.11                       | 21.23                     |                        |
| 15              | 16QAM      | 75      | 0         | 21.32                    | 21.16                       | 21.27                     | 22.3                   |
| 15              | 64QAM      | 1       | 0         | 21.36                    | 21.25                       | 21.22                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.35                    | 21.34                       | 21.29                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.32                    | 21.31                       | 21.30                     | 22.3                   |
| 15              | 64QAM      | 36      | 0         | 21.23                    | 21.17                       | 21.32                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.28                    | 21.26                       | 21.38                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.31                    | 21.35                       | 21.14                     | 22                     |
| 15              | 64QAM      | 75      | 0         | 21.45                    | 21.39                       | 21.10                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.43                    | 21.17                       | 21.25                     |                        |
| 15              | 256QAM     | 1       | 37        | 21.34                    | 21.29                       | 21.03                     | 22                     |
| 15              | 256QAM     | 1       | 74        | 21.50                    | 21.43                       | 21.33                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.40                    | 21.27                       | 21.22                     |                        |
| 15              | 256QAM     | 36      | 20        | 21.32                    | 21.30                       | 21.31                     | 22                     |
| 15              | 256QAM     | 36      | 39        | 21.39                    | 21.41                       | 21.22                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 21.20  | 21.27 | 21.27  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 21.41  | 21.40 | 21.41  | 22.3                   |
| 10              | QPSK   | 1  | 25 | 21.22  | 21.16 | 21.18  |                        |
| 10              | QPSK   | 1  | 49 | 21.24  | 21.22 | 21.18  |                        |
| 10              | QPSK   | 25 | 0  | 21.25  | 21.33 | 21.28  | 22.3                   |
| 10              | QPSK   | 25 | 12 | 21.19  | 21.33 | 21.18  |                        |
| 10              | QPSK   | 25 | 25 | 21.26  | 21.23 | 21.24  |                        |
| 10              | QPSK   | 50 | 0  | 21.24  | 21.15 | 21.25  |                        |
| 10              | 16QAM  | 1  | 0  | 21.36  | 21.47 | 21.21  | 22.3                   |
| 10              | 16QAM  | 1  | 25 | 21.31  | 21.22 | 21.18  |                        |
| 10              | 16QAM  | 1  | 49 | 21.39  | 21.28 | 21.23  |                        |
| 10              | 16QAM  | 25 | 0  | 21.41  | 21.15 | 21.14  | 22.3                   |
| 10              | 16QAM  | 25 | 12 | 21.39  | 21.30 | 21.21  |                        |
| 10              | 16QAM  | 25 | 25 | 21.35  | 21.15 | 21.23  |                        |
| 10              | 16QAM  | 50 | 0  | 21.26  | 21.31 | 21.23  |                        |
| 10              | 64QAM  | 1  | 0  | 21.24  | 21.21 | 21.20  | 22.3                   |
| 10              | 64QAM  | 1  | 25 | 21.39  | 21.42 | 21.20  |                        |
| 10              | 64QAM  | 1  | 49 | 21.27  | 21.23 | 21.18  |                        |
| 10              | 64QAM  | 25 | 0  | 21.31  | 21.15 | 21.20  | 22.3                   |
| 10              | 64QAM  | 25 | 12 | 21.37  | 21.30 | 21.29  |                        |
| 10              | 64QAM  | 25 | 25 | 21.34  | 21.17 | 21.13  |                        |
| 10              | 64QAM  | 50 | 0  | 21.51  | 21.39 | 21.25  |                        |
| 10              | 256QAM | 1  | 0  | 21.34  | 21.12 | 21.37  | 22                     |
| 10              | 256QAM | 1  | 25 | 21.25  | 21.43 | 21.07  |                        |
| 10              | 256QAM | 1  | 49 | 21.45  | 21.34 | 21.33  |                        |
| 10              | 256QAM | 25 | 0  | 21.32  | 21.25 | 21.15  | 22                     |
| 10              | 256QAM | 25 | 12 | 21.36  | 21.30 | 21.39  |                        |
| 10              | 256QAM | 25 | 25 | 21.27  | 21.46 | 21.11  |                        |
| 10              | 256QAM | 50 | 0  | 21.28  | 21.28 | 21.28  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 21.38  | 21.46 | 21.29  | 22.3                   |
| 5               | QPSK   | 1  | 12 | 21.24  | 21.33 | 21.12  |                        |
| 5               | QPSK   | 1  | 24 | 21.22  | 21.33 | 21.27  |                        |
| 5               | QPSK   | 12 | 0  | 21.30  | 21.35 | 21.27  | 22.3                   |
| 5               | QPSK   | 12 | 7  | 21.25  | 21.24 | 21.13  |                        |
| 5               | QPSK   | 12 | 13 | 21.30  | 21.14 | 21.28  |                        |
| 5               | QPSK   | 25 | 0  | 21.33  | 21.11 | 21.19  |                        |
| 5               | 16QAM  | 1  | 0  | 21.36  | 21.30 | 21.21  | 22.3                   |
| 5               | 16QAM  | 1  | 12 | 21.29  | 21.27 | 21.26  |                        |
| 5               | 16QAM  | 1  | 24 | 21.51  | 21.33 | 21.32  |                        |
| 5               | 16QAM  | 12 | 0  | 21.31  | 21.30 | 21.13  | 22.3                   |
| 5               | 16QAM  | 12 | 7  | 21.47  | 21.33 | 21.15  |                        |
| 5               | 16QAM  | 12 | 13 | 21.36  | 21.26 | 21.31  |                        |
| 5               | 16QAM  | 25 | 0  | 21.33  | 21.24 | 21.18  |                        |
| 5               | 64QAM  | 1  | 0  | 21.27  | 21.22 | 21.17  | 22.3                   |
| 5               | 64QAM  | 1  | 12 | 21.24  | 21.40 | 21.28  |                        |
| 5               | 64QAM  | 1  | 24 | 21.37  | 21.24 | 21.33  |                        |
| 5               | 64QAM  | 12 | 0  | 21.31  | 21.32 | 21.24  | 22.3                   |
| 5               | 64QAM  | 12 | 7  | 21.28  | 21.27 | 21.37  |                        |
| 5               | 64QAM  | 12 | 13 | 21.45  | 21.27 | 21.27  |                        |
| 5               | 64QAM  | 25 | 0  | 21.45  | 21.44 | 21.11  |                        |
| 5               | 256QAM | 1  | 0  | 21.43  | 21.26 | 21.32  | 22                     |
| 5               | 256QAM | 1  | 12 | 21.37  | 21.33 | 21.15  |                        |
| 5               | 256QAM | 1  | 24 | 21.40  | 21.38 | 21.23  |                        |
| 5               | 256QAM | 12 | 0  | 21.46  | 21.24 | 21.17  | 22                     |
| 5               | 256QAM | 12 | 7  | 21.51  | 21.28 | 21.29  |                        |
| 5               | 256QAM | 12 | 13 | 21.20  | 21.27 | 21.02  |                        |
| 5               | 256QAM | 25 | 0  | 21.23  | 21.21 | 21.12  |                        |



&lt;LTE Band 38\_HPUE\_Ant 0\_Index 9&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 23.79                    | 23.99                       | 23.88                     |                        |
| 20              | QPSK       | 1       | 49        | 23.76                    | 23.82                       | 23.84                     | 24.5                   |
| 20              | QPSK       | 1       | 99        | 23.73                    | 23.98                       | 23.85                     |                        |
| 20              | QPSK       | 50      | 0         | 23.75                    | 23.86                       | 23.84                     |                        |
| 20              | QPSK       | 50      | 24        | 23.72                    | 23.80                       | 23.75                     | 24.5                   |
| 20              | QPSK       | 50      | 50        | 23.74                    | 23.76                       | 23.72                     |                        |
| 20              | QPSK       | 100     | 0         | 23.79                    | 23.79                       | 23.66                     |                        |
| 20              | 16QAM      | 1       | 0         | 23.78                    | 23.58                       | 23.52                     | 24.5                   |
| 20              | 16QAM      | 1       | 49        | 23.42                    | 23.31                       | 23.45                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.72                    | 23.65                       | 23.53                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.85                    | 23.84                       | 23.88                     | 24.5                   |
| 20              | 16QAM      | 50      | 24        | 23.97                    | 23.95                       | 23.97                     |                        |
| 20              | 16QAM      | 50      | 50        | 23.86                    | 23.85                       | 23.98                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.94                    | 23.91                       | 23.87                     | 24.5                   |
| 20              | 64QAM      | 1       | 0         | 23.81                    | 23.77                       | 23.73                     |                        |
| 20              | 64QAM      | 1       | 49        | 23.84                    | 23.97                       | 23.75                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.80                    | 23.69                       | 23.84                     | 23.9                   |
| 20              | 64QAM      | 50      | 0         | 22.81                    | 22.95                       | 22.82                     |                        |
| 20              | 64QAM      | 50      | 24        | 22.82                    | 22.91                       | 22.92                     |                        |
| 20              | 64QAM      | 50      | 50        | 22.98                    | 22.83                       | 22.81                     | 21.9                   |
| 20              | 64QAM      | 100     | 0         | 22.94                    | 22.89                       | 22.92                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.28                    | 20.96                       | 20.86                     |                        |
| 20              | 256QAM     | 1       | 49        | 21.04                    | 20.96                       | 21.15                     | 21.9                   |
| 20              | 256QAM     | 1       | 99        | 20.98                    | 20.93                       | 20.85                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.01                    | 21.09                       | 21.14                     | 21.9                   |
| 20              | 256QAM     | 50      | 24        | 21.01                    | 21.00                       | 21.13                     |                        |
| 20              | 256QAM     | 50      | 50        | 20.87                    | 21.11                       | 21.12                     |                        |
| 20              | 256QAM     | 100     | 0         | 20.98                    | 21.00                       | 20.94                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 23.66                    | 23.96                       | 23.61                     |                        |
| 15              | QPSK       | 1       | 37        | 23.84                    | 23.72                       | 23.74                     | 24.5                   |
| 15              | QPSK       | 1       | 74        | 23.81                    | 23.96                       | 23.75                     |                        |
| 15              | QPSK       | 36      | 0         | 23.70                    | 23.79                       | 23.79                     | 24.5                   |
| 15              | QPSK       | 36      | 20        | 23.64                    | 23.72                       | 23.63                     |                        |
| 15              | QPSK       | 36      | 39        | 23.66                    | 23.72                       | 23.61                     |                        |
| 15              | QPSK       | 75      | 0         | 23.61                    | 23.59                       | 23.46                     | 24.5                   |
| 15              | 16QAM      | 1       | 0         | 23.53                    | 23.37                       | 23.65                     |                        |
| 15              | 16QAM      | 1       | 37        | 23.45                    | 23.34                       | 23.47                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.62                    | 23.52                       | 23.41                     | 24.5                   |
| 15              | 16QAM      | 36      | 0         | 23.84                    | 23.80                       | 23.72                     |                        |
| 15              | 16QAM      | 36      | 20        | 23.74                    | 23.91                       | 23.75                     |                        |
| 15              | 16QAM      | 36      | 39        | 23.86                    | 23.73                       | 23.68                     | 24.5                   |
| 15              | 16QAM      | 75      | 0         | 23.67                    | 23.91                       | 23.82                     |                        |
| 15              | 64QAM      | 1       | 0         | 23.64                    | 23.85                       | 23.57                     |                        |
| 15              | 64QAM      | 1       | 37        | 23.84                    | 23.88                       | 23.63                     | 23.9                   |
| 15              | 64QAM      | 1       | 74        | 23.74                    | 23.59                       | 23.69                     |                        |
| 15              | 64QAM      | 36      | 0         | 22.83                    | 22.84                       | 22.74                     |                        |
| 15              | 64QAM      | 36      | 20        | 22.81                    | 22.63                       | 22.69                     | 21.9                   |
| 15              | 64QAM      | 36      | 39        | 22.89                    | 22.79                       | 22.76                     |                        |
| 15              | 64QAM      | 75      | 0         | 22.75                    | 22.67                       | 22.84                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.25                    | 21.01                       | 20.79                     | 21.9                   |
| 15              | 256QAM     | 1       | 37        | 20.88                    | 20.80                       | 21.02                     |                        |
| 15              | 256QAM     | 1       | 74        | 20.79                    | 20.80                       | 20.83                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.98                    | 21.01                       | 21.21                     | 21.9                   |
| 15              | 256QAM     | 36      | 20        | 20.95                    | 20.79                       | 20.90                     |                        |
| 15              | 256QAM     | 36      | 39        | 21.02                    | 21.09                       | 20.95                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 20.93  | 21.09 | 20.87  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 23.63  | 23.84 | 23.77  | 24.5                   |
| 10              | QPSK   | 1  | 25 | 23.76  | 23.74 | 23.70  |                        |
| 10              | QPSK   | 1  | 49 | 23.67  | 23.79 | 23.68  |                        |
| 10              | QPSK   | 25 | 0  | 23.56  | 23.86 | 23.68  | 24.5                   |
| 10              | QPSK   | 25 | 12 | 23.68  | 23.72 | 23.58  |                        |
| 10              | QPSK   | 25 | 25 | 23.64  | 23.70 | 23.56  |                        |
| 10              | QPSK   | 50 | 0  | 23.63  | 23.64 | 23.59  | 24.5                   |
| 10              | 16QAM  | 1  | 0  | 23.70  | 23.61 | 23.56  |                        |
| 10              | 16QAM  | 1  | 25 | 23.36  | 23.38 | 23.48  |                        |
| 10              | 16QAM  | 1  | 49 | 23.70  | 23.51 | 23.43  | 24.5                   |
| 10              | 16QAM  | 25 | 0  | 23.89  | 23.80 | 23.73  |                        |
| 10              | 16QAM  | 25 | 12 | 23.95  | 23.82 | 23.76  |                        |
| 10              | 16QAM  | 25 | 25 | 23.88  | 23.81 | 23.71  | 24.5                   |
| 10              | 16QAM  | 50 | 0  | 23.74  | 23.72 | 23.73  |                        |
| 10              | 64QAM  | 1  | 0  | 23.81  | 23.66 | 23.45  |                        |
| 10              | 64QAM  | 1  | 25 | 23.78  | 23.83 | 23.66  | 24.5                   |
| 10              | 64QAM  | 1  | 49 | 23.67  | 23.63 | 23.62  |                        |
| 10              | 64QAM  | 25 | 0  | 22.71  | 22.71 | 22.74  |                        |
| 10              | 64QAM  | 25 | 12 | 22.77  | 22.80 | 22.60  | 23.9                   |
| 10              | 64QAM  | 25 | 25 | 22.97  | 22.59 | 22.76  |                        |
| 10              | 64QAM  | 50 | 0  | 22.68  | 22.83 | 22.82  |                        |
| 10              | 256QAM | 1  | 0  | 21.17  | 20.83 | 20.92  | 21.9                   |
| 10              | 256QAM | 1  | 25 | 21.10  | 20.72 | 21.14  |                        |
| 10              | 256QAM | 1  | 49 | 20.93  | 20.69 | 20.87  |                        |
| 10              | 256QAM | 25 | 0  | 20.84  | 20.98 | 21.02  | 21.9                   |
| 10              | 256QAM | 25 | 12 | 21.10  | 21.04 | 20.95  |                        |
| 10              | 256QAM | 25 | 25 | 20.77  | 21.01 | 20.98  |                        |
| 10              | 256QAM | 50 | 0  | 21.02  | 20.82 | 20.73  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 23.64  | 23.90 | 23.67  | 24.5                   |
| 5               | QPSK   | 1  | 12 | 23.85  | 23.76 | 23.73  |                        |
| 5               | QPSK   | 1  | 24 | 23.71  | 23.84 | 23.77  |                        |
| 5               | QPSK   | 12 | 0  | 23.60  | 23.82 | 23.64  | 24.5                   |
| 5               | QPSK   | 12 | 7  | 23.62  | 23.65 | 23.71  |                        |
| 5               | QPSK   | 12 | 13 | 23.65  | 23.57 | 23.53  |                        |
| 5               | QPSK   | 25 | 0  | 23.74  | 23.60 | 23.56  | 24.5                   |
| 5               | 16QAM  | 1  | 0  | 23.82  | 23.63 | 23.59  |                        |
| 5               | 16QAM  | 1  | 12 | 23.39  | 23.39 | 23.40  |                        |
| 5               | 16QAM  | 1  | 24 | 23.62  | 23.60 | 23.55  | 24.5                   |
| 5               | 16QAM  | 12 | 0  | 23.74  | 23.77 | 23.80  |                        |
| 5               | 16QAM  | 12 | 7  | 23.82  | 23.82 | 23.82  |                        |
| 5               | 16QAM  | 12 | 13 | 23.83  | 23.87 | 23.83  | 24.5                   |
| 5               | 16QAM  | 25 | 0  | 23.77  | 23.90 | 23.81  |                        |
| 5               | 64QAM  | 1  | 0  | 23.86  | 23.70 | 23.51  |                        |
| 5               | 64QAM  | 1  | 12 | 23.71  | 23.86 | 23.50  | 24.5                   |
| 5               | 64QAM  | 1  | 24 | 23.66  | 23.63 | 23.77  |                        |
| 5               | 64QAM  | 12 | 0  | 22.65  | 22.75 | 22.62  |                        |
| 5               | 64QAM  | 12 | 7  | 22.92  | 22.78 | 22.56  | 23.9                   |
| 5               | 64QAM  | 12 | 13 | 22.93  | 22.80 | 22.82  |                        |
| 5               | 64QAM  | 25 | 0  | 22.82  | 22.76 | 22.77  |                        |
| 5               | 256QAM | 1  | 0  | 21.23  | 20.92 | 20.70  | 21.9                   |
| 5               | 256QAM | 1  | 12 | 20.88  | 20.91 | 21.17  |                        |
| 5               | 256QAM | 1  | 24 | 21.07  | 20.93 | 20.81  |                        |
| 5               | 256QAM | 12 | 0  | 20.80  | 20.97 | 21.04  | 21.9                   |
| 5               | 256QAM | 12 | 7  | 20.96  | 21.03 | 21.02  |                        |
| 5               | 256QAM | 12 | 13 | 21.03  | 21.00 | 21.01  |                        |
| 5               | 256QAM | 25 | 0  | 21.00  | 21.00 | 20.84  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 24.35                    | 24.32                       | 24.53                     |                        |
| 20              | QPSK       | 1       | 49        | 24.21                    | 24.21                       | 24.44                     | 25                     |
| 20              | QPSK       | 1       | 99        | 24.25                    | 24.23                       | 24.43                     |                        |
| 20              | QPSK       | 50      | 0         | 24.31                    | 24.24                       | 24.52                     |                        |
| 20              | QPSK       | 50      | 24        | 24.19                    | 24.15                       | 24.32                     | 25                     |
| 20              | QPSK       | 50      | 50        | 24.25                    | 24.17                       | 24.42                     |                        |
| 20              | QPSK       | 100     | 0         | 24.28                    | 24.19                       | 24.44                     |                        |
| 20              | 16QAM      | 1       | 0         | 24.44                    | 24.31                       | 24.45                     | 25                     |
| 20              | 16QAM      | 1       | 49        | 24.19                    | 24.20                       | 24.40                     |                        |
| 20              | 16QAM      | 1       | 99        | 24.38                    | 24.31                       | 24.44                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.10                    | 23.30                       | 23.73                     | 24.9                   |
| 20              | 16QAM      | 50      | 24        | 23.28                    | 23.12                       | 23.25                     |                        |
| 20              | 16QAM      | 50      | 50        | 23.27                    | 23.38                       | 23.32                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.37                    | 23.19                       | 23.52                     | 24.9                   |
| 20              | 64QAM      | 1       | 0         | 23.22                    | 23.45                       | 23.56                     |                        |
| 20              | 64QAM      | 1       | 49        | 23.06                    | 23.24                       | 23.44                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.25                    | 23.21                       | 23.28                     | 23.9                   |
| 20              | 64QAM      | 50      | 0         | 22.49                    | 22.32                       | 22.69                     |                        |
| 20              | 64QAM      | 50      | 24        | 22.29                    | 22.53                       | 22.51                     |                        |
| 20              | 64QAM      | 50      | 50        | 22.26                    | 22.13                       | 22.51                     | 21.9                   |
| 20              | 64QAM      | 100     | 0         | 22.39                    | 22.12                       | 22.58                     |                        |
| 20              | 256QAM     | 1       | 0         | 20.57                    | 20.47                       | 20.88                     |                        |
| 20              | 256QAM     | 1       | 49        | 20.32                    | 20.36                       | 20.74                     | 21.9                   |
| 20              | 256QAM     | 1       | 99        | 20.55                    | 20.63                       | 20.81                     |                        |
| 20              | 256QAM     | 50      | 0         | 20.57                    | 20.44                       | 20.65                     |                        |
| 20              | 256QAM     | 50      | 24        | 20.49                    | 20.60                       | 20.84                     | 21.9                   |
| 20              | 256QAM     | 50      | 50        | 20.63                    | 20.50                       | 20.55                     |                        |
| 20              | 256QAM     | 100     | 0         | 20.54                    | 20.43                       | 20.86                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 24.34                    | 24.12                       | 24.44                     |                        |
| 15              | QPSK       | 1       | 37        | 23.98                    | 24.01                       | 24.46                     | 25                     |
| 15              | QPSK       | 1       | 74        | 24.22                    | 24.04                       | 24.49                     |                        |
| 15              | QPSK       | 36      | 0         | 24.25                    | 24.04                       | 24.44                     |                        |
| 15              | QPSK       | 36      | 20        | 24.14                    | 24.09                       | 24.23                     | 25                     |
| 15              | QPSK       | 36      | 39        | 24.24                    | 24.05                       | 24.37                     |                        |
| 15              | QPSK       | 75      | 0         | 24.16                    | 23.96                       | 24.18                     |                        |
| 15              | 16QAM      | 1       | 0         | 24.34                    | 24.33                       | 24.32                     | 25                     |
| 15              | 16QAM      | 1       | 37        | 24.07                    | 24.02                       | 24.35                     |                        |
| 15              | 16QAM      | 1       | 74        | 24.18                    | 24.17                       | 24.35                     |                        |
| 15              | 16QAM      | 36      | 0         | 23.43                    | 23.37                       | 23.49                     | 24.9                   |
| 15              | 16QAM      | 36      | 20        | 23.19                    | 23.14                       | 23.25                     |                        |
| 15              | 16QAM      | 36      | 39        | 23.43                    | 23.37                       | 23.28                     |                        |
| 15              | 16QAM      | 75      | 0         | 23.37                    | 23.44                       | 23.34                     | 24.9                   |
| 15              | 64QAM      | 1       | 0         | 23.43                    | 22.99                       | 23.58                     |                        |
| 15              | 64QAM      | 1       | 37        | 23.06                    | 23.06                       | 23.29                     |                        |
| 15              | 64QAM      | 1       | 74        | 23.12                    | 23.01                       | 23.28                     | 23.9                   |
| 15              | 64QAM      | 36      | 0         | 22.14                    | 22.07                       | 22.31                     |                        |
| 15              | 64QAM      | 36      | 20        | 22.19                    | 22.41                       | 22.21                     |                        |
| 15              | 64QAM      | 36      | 39        | 22.33                    | 22.25                       | 22.02                     | 21.9                   |
| 15              | 64QAM      | 75      | 0         | 22.04                    | 22.27                       | 22.59                     |                        |
| 15              | 256QAM     | 1       | 0         | 20.70                    | 20.54                       | 20.49                     |                        |
| 15              | 256QAM     | 1       | 37        | 20.16                    | 19.98                       | 20.55                     | 21.9                   |
| 15              | 256QAM     | 1       | 74        | 20.54                    | 20.51                       | 20.54                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.69                    | 20.19                       | 20.57                     |                        |
| 15              | 256QAM     | 36      | 20        | 20.30                    | 20.66                       | 20.58                     | 21.9                   |
| 15              | 256QAM     | 36      | 39        | 20.23                    | 20.40                       | 20.38                     |                        |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 20.51  | 20.39 | 20.74  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 24.32  | 24.26 | 24.39  | 25                     |
| 10              | QPSK   | 1  | 25 | 24.11  | 24.16 | 24.45  |                        |
| 10              | QPSK   | 1  | 49 | 24.23  | 24.04 | 24.37  |                        |
| 10              | QPSK   | 25 | 0  | 24.13  | 24.22 | 24.32  | 25                     |
| 10              | QPSK   | 25 | 12 | 24.09  | 24.12 | 24.14  |                        |
| 10              | QPSK   | 25 | 25 | 24.06  | 24.16 | 24.25  |                        |
| 10              | QPSK   | 50 | 0  | 24.14  | 24.16 | 24.26  | 25                     |
| 10              | 16QAM  | 1  | 0  | 24.45  | 24.24 | 24.39  |                        |
| 10              | 16QAM  | 1  | 25 | 24.10  | 24.06 | 24.42  |                        |
| 10              | 16QAM  | 1  | 49 | 24.29  | 24.24 | 24.36  | 24.9                   |
| 10              | 16QAM  | 25 | 0  | 22.92  | 23.25 | 23.39  |                        |
| 10              | 16QAM  | 25 | 12 | 23.01  | 23.05 | 23.10  |                        |
| 10              | 16QAM  | 25 | 25 | 23.06  | 23.14 | 23.41  | 24.9                   |
| 10              | 16QAM  | 50 | 0  | 23.34  | 23.34 | 23.65  |                        |
| 10              | 64QAM  | 1  | 0  | 22.98  | 23.35 | 23.46  |                        |
| 10              | 64QAM  | 1  | 25 | 22.94  | 23.04 | 23.12  | 24.9                   |
| 10              | 64QAM  | 1  | 49 | 23.08  | 23.21 | 23.03  |                        |
| 10              | 64QAM  | 25 | 0  | 22.19  | 22.11 | 22.30  |                        |
| 10              | 64QAM  | 25 | 12 | 22.16  | 22.16 | 22.15  | 23.9                   |
| 10              | 64QAM  | 25 | 25 | 22.19  | 22.00 | 22.22  |                        |
| 10              | 64QAM  | 50 | 0  | 22.28  | 22.25 | 22.32  |                        |
| 10              | 256QAM | 1  | 0  | 20.46  | 20.48 | 20.51  | 21.9                   |
| 10              | 256QAM | 1  | 25 | 20.22  | 20.09 | 20.32  |                        |
| 10              | 256QAM | 1  | 49 | 20.37  | 20.25 | 20.61  |                        |
| 10              | 256QAM | 25 | 0  | 20.39  | 20.56 | 20.45  | 21.9                   |
| 10              | 256QAM | 25 | 12 | 20.37  | 20.37 | 20.47  |                        |
| 10              | 256QAM | 25 | 25 | 20.23  | 20.38 | 20.72  |                        |
| 10              | 256QAM | 50 | 0  | 20.72  | 20.52 | 20.53  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 24.33  | 24.31 | 24.41  | 25                     |
| 5               | QPSK   | 1  | 12 | 24.00  | 23.99 | 24.43  |                        |
| 5               | QPSK   | 1  | 24 | 24.13  | 24.10 | 24.38  |                        |
| 5               | QPSK   | 12 | 0  | 24.10  | 24.10 | 24.39  | 25                     |
| 5               | QPSK   | 12 | 7  | 24.12  | 24.02 | 24.24  |                        |
| 5               | QPSK   | 12 | 13 | 24.09  | 24.09 | 24.26  |                        |
| 5               | QPSK   | 25 | 0  | 24.19  | 23.96 | 24.23  | 25                     |
| 5               | 16QAM  | 1  | 0  | 24.47  | 24.32 | 24.34  |                        |
| 5               | 16QAM  | 1  | 12 | 24.02  | 24.10 | 24.25  |                        |
| 5               | 16QAM  | 1  | 24 | 24.19  | 24.27 | 24.32  | 24.9                   |
| 5               | 16QAM  | 12 | 0  | 23.23  | 22.95 | 23.36  |                        |
| 5               | 16QAM  | 12 | 7  | 23.11  | 23.14 | 23.38  |                        |
| 5               | 16QAM  | 12 | 13 | 23.03  | 23.21 | 23.20  | 24.9                   |
| 5               | 16QAM  | 25 | 0  | 23.28  | 23.11 | 23.56  |                        |
| 5               | 64QAM  | 1  | 0  | 23.35  | 23.11 | 23.38  |                        |
| 5               | 64QAM  | 1  | 12 | 22.91  | 23.15 | 22.96  | 23.9                   |
| 5               | 64QAM  | 1  | 24 | 23.09  | 22.95 | 23.25  |                        |
| 5               | 64QAM  | 12 | 0  | 22.17  | 21.96 | 22.19  |                        |
| 5               | 64QAM  | 12 | 7  | 21.92  | 22.35 | 22.51  | 21.9                   |
| 5               | 64QAM  | 12 | 13 | 22.12  | 22.16 | 22.38  |                        |
| 5               | 64QAM  | 25 | 0  | 22.43  | 22.04 | 22.68  |                        |
| 5               | 256QAM | 1  | 0  | 20.66  | 20.22 | 20.81  | 21.9                   |
| 5               | 256QAM | 1  | 12 | 20.46  | 20.30 | 20.41  |                        |
| 5               | 256QAM | 1  | 24 | 20.21  | 20.28 | 20.83  |                        |
| 5               | 256QAM | 12 | 0  | 20.15  | 20.35 | 20.60  | 21.9                   |
| 5               | 256QAM | 12 | 7  | 20.49  | 20.24 | 20.53  |                        |
| 5               | 256QAM | 12 | 13 | 20.58  | 20.33 | 20.43  |                        |
| 5               | 256QAM | 25 | 0  | 20.32  | 20.50 | 20.77  |                        |



&lt;LTE Band 38\_HPUE\_Ant 2\_Index 10&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 21.66                    | 21.64                       | 21.63                     |                        |
| 20              | QPSK       | 1       | 49        | 21.64                    | 21.63                       | 21.61                     | 22.6                   |
| 20              | QPSK       | 1       | 99        | 21.65                    | 21.65                       | 21.60                     |                        |
| 20              | QPSK       | 50      | 0         | 21.61                    | 21.60                       | 21.60                     |                        |
| 20              | QPSK       | 50      | 24        | 21.59                    | 21.60                       | 21.58                     | 22.6                   |
| 20              | QPSK       | 50      | 50        | 21.60                    | 21.59                       | 21.59                     |                        |
| 20              | QPSK       | 100     | 0         | 21.60                    | 21.57                       | 21.56                     |                        |
| 20              | 16QAM      | 1       | 0         | 21.58                    | 21.56                       | 21.60                     | 22.6                   |
| 20              | 16QAM      | 1       | 49        | 21.23                    | 21.24                       | 21.21                     |                        |
| 20              | 16QAM      | 1       | 99        | 21.60                    | 21.59                       | 21.57                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.60                    | 21.59                       | 21.61                     | 22.6                   |
| 20              | 16QAM      | 50      | 24        | 21.62                    | 21.60                       | 21.61                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.63                    | 21.62                       | 21.61                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.64                    | 21.62                       | 21.64                     | 22.6                   |
| 20              | 64QAM      | 1       | 0         | 21.49                    | 21.48                       | 21.49                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.61                    | 21.52                       | 21.53                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.58                    | 21.54                       | 21.59                     | 22.6                   |
| 20              | 64QAM      | 50      | 0         | 21.61                    | 21.61                       | 21.60                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.61                    | 21.62                       | 21.61                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.61                    | 21.63                       | 21.61                     | 22.6                   |
| 20              | 64QAM      | 100     | 0         | 21.63                    | 21.63                       | 21.61                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.61                    | 21.61                       | 21.56                     |                        |
| 20              | 256QAM     | 1       | 49        | 21.63                    | 21.61                       | 21.59                     | 21.9                   |
| 20              | 256QAM     | 1       | 99        | 21.49                    | 21.62                       | 21.54                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.37                    | 21.31                       | 21.48                     |                        |
| 20              | 256QAM     | 50      | 24        | 21.27                    | 21.42                       | 21.34                     | 21.9                   |
| 20              | 256QAM     | 50      | 50        | 21.40                    | 21.29                       | 21.37                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.43                    | 21.32                       | 21.44                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 21.61                    | 21.50                       | 21.44                     |                        |
| 15              | QPSK       | 1       | 37        | 21.58                    | 21.46                       | 21.49                     | 22.6                   |
| 15              | QPSK       | 1       | 74        | 21.60                    | 21.53                       | 21.57                     |                        |
| 15              | QPSK       | 36      | 0         | 21.45                    | 21.41                       | 21.43                     |                        |
| 15              | QPSK       | 36      | 20        | 21.56                    | 21.48                       | 21.38                     | 22.6                   |
| 15              | QPSK       | 36      | 39        | 21.47                    | 21.53                       | 21.57                     |                        |
| 15              | QPSK       | 75      | 0         | 21.46                    | 21.41                       | 21.36                     |                        |
| 15              | 16QAM      | 1       | 0         | 21.41                    | 21.46                       | 21.40                     | 22.6                   |
| 15              | 16QAM      | 1       | 37        | 21.03                    | 21.04                       | 21.10                     |                        |
| 15              | 16QAM      | 1       | 74        | 21.50                    | 21.52                       | 21.41                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.48                    | 21.58                       | 21.61                     | 22.6                   |
| 15              | 16QAM      | 36      | 20        | 21.44                    | 21.53                       | 21.60                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.55                    | 21.61                       | 21.50                     |                        |
| 15              | 16QAM      | 75      | 0         | 21.53                    | 21.54                       | 21.46                     | 22.6                   |
| 15              | 64QAM      | 1       | 0         | 21.29                    | 21.39                       | 21.29                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.48                    | 21.44                       | 21.53                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.44                    | 21.43                       | 21.39                     | 22.6                   |
| 15              | 64QAM      | 36      | 0         | 21.46                    | 21.44                       | 21.58                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.47                    | 21.59                       | 21.43                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.43                    | 21.46                       | 21.57                     | 22.6                   |
| 15              | 64QAM      | 75      | 0         | 21.56                    | 21.44                       | 21.53                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.60                    | 21.51                       | 21.41                     |                        |
| 15              | 256QAM     | 1       | 37        | 21.52                    | 21.51                       | 21.49                     | 21.9                   |
| 15              | 256QAM     | 1       | 74        | 21.44                    | 21.53                       | 21.49                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.17                    | 21.17                       | 21.48                     |                        |
| 15              | 256QAM     | 36      | 20        | 21.17                    | 21.28                       | 21.29                     | 21.9                   |
| 15              | 256QAM     | 36      | 39        | 21.25                    | 21.23                       | 21.21                     |                        |



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Report No. : FA3D2001D

|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 21.25  | 21.18 | 21.37  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 21.56  | 21.56 | 21.58  | 22.6                   |
| 10              | QPSK   | 1  | 25 | 21.53  | 21.54 | 21.50  |                        |
| 10              | QPSK   | 1  | 49 | 21.53  | 21.59 | 21.40  |                        |
| 10              | QPSK   | 25 | 0  | 21.59  | 21.40 | 21.50  | 22.6                   |
| 10              | QPSK   | 25 | 12 | 21.40  | 21.47 | 21.54  |                        |
| 10              | QPSK   | 25 | 25 | 21.55  | 21.46 | 21.54  |                        |
| 10              | QPSK   | 50 | 0  | 21.56  | 21.46 | 21.51  |                        |
| 10              | 16QAM  | 1  | 0  | 21.53  | 21.47 | 21.59  | 22.6                   |
| 10              | 16QAM  | 1  | 25 | 21.08  | 21.09 | 21.09  |                        |
| 10              | 16QAM  | 1  | 49 | 21.59  | 21.50 | 21.51  |                        |
| 10              | 16QAM  | 25 | 0  | 21.59  | 21.40 | 21.55  | 22.6                   |
| 10              | 16QAM  | 25 | 12 | 21.61  | 21.45 | 21.49  |                        |
| 10              | 16QAM  | 25 | 25 | 21.45  | 21.62 | 21.43  |                        |
| 10              | 16QAM  | 50 | 0  | 21.48  | 21.49 | 21.58  |                        |
| 10              | 64QAM  | 1  | 0  | 21.48  | 21.32 | 21.41  | 22.6                   |
| 10              | 64QAM  | 1  | 25 | 21.58  | 21.38 | 21.50  |                        |
| 10              | 64QAM  | 1  | 49 | 21.46  | 21.54 | 21.47  |                        |
| 10              | 64QAM  | 25 | 0  | 21.61  | 21.51 | 21.40  | 22.6                   |
| 10              | 64QAM  | 25 | 12 | 21.58  | 21.42 | 21.50  |                        |
| 10              | 64QAM  | 25 | 25 | 21.43  | 21.51 | 21.41  |                        |
| 10              | 64QAM  | 50 | 0  | 21.63  | 21.60 | 21.58  |                        |
| 10              | 256QAM | 1  | 0  | 21.55  | 21.50 | 21.39  | 21.9                   |
| 10              | 256QAM | 1  | 25 | 21.56  | 21.46 | 21.57  |                        |
| 10              | 256QAM | 1  | 49 | 21.44  | 21.44 | 21.36  |                        |
| 10              | 256QAM | 25 | 0  | 21.21  | 21.17 | 21.29  | 21.9                   |
| 10              | 256QAM | 25 | 12 | 21.23  | 21.37 | 21.16  |                        |
| 10              | 256QAM | 25 | 25 | 21.24  | 21.17 | 21.37  |                        |
| 10              | 256QAM | 50 | 0  | 21.24  | 21.28 | 21.32  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 21.61  | 21.55 | 21.49  | 22.6                   |
| 5               | QPSK   | 1  | 12 | 21.48  | 21.58 | 21.58  |                        |
| 5               | QPSK   | 1  | 24 | 21.53  | 21.53 | 21.49  |                        |
| 5               | QPSK   | 12 | 0  | 21.58  | 21.60 | 21.50  | 22.6                   |
| 5               | QPSK   | 12 | 7  | 21.46  | 21.59 | 21.56  |                        |
| 5               | QPSK   | 12 | 13 | 21.53  | 21.58 | 21.56  |                        |
| 5               | QPSK   | 25 | 0  | 21.53  | 21.41 | 21.53  |                        |
| 5               | 16QAM  | 1  | 0  | 21.58  | 21.42 | 21.43  | 22.6                   |
| 5               | 16QAM  | 1  | 12 | 21.07  | 21.20 | 21.20  |                        |
| 5               | 16QAM  | 1  | 24 | 21.41  | 21.57 | 21.57  |                        |
| 5               | 16QAM  | 12 | 0  | 21.55  | 21.40 | 21.56  | 22.6                   |
| 5               | 16QAM  | 12 | 7  | 21.42  | 21.60 | 21.59  |                        |
| 5               | 16QAM  | 12 | 13 | 21.43  | 21.49 | 21.52  |                        |
| 5               | 16QAM  | 25 | 0  | 21.54  | 21.55 | 21.52  |                        |
| 5               | 64QAM  | 1  | 0  | 21.47  | 21.43 | 21.29  | 22.6                   |
| 5               | 64QAM  | 1  | 12 | 21.49  | 21.38 | 21.46  |                        |
| 5               | 64QAM  | 1  | 24 | 21.43  | 21.45 | 21.53  |                        |
| 5               | 64QAM  | 12 | 0  | 21.58  | 21.55 | 21.60  | 22.6                   |
| 5               | 64QAM  | 12 | 7  | 21.44  | 21.55 | 21.52  |                        |
| 5               | 64QAM  | 12 | 13 | 21.54  | 21.44 | 21.43  |                        |
| 5               | 64QAM  | 25 | 0  | 21.58  | 21.47 | 21.46  |                        |
| 5               | 256QAM | 1  | 0  | 21.59  | 21.41 | 21.44  | 21.9                   |
| 5               | 256QAM | 1  | 12 | 21.46  | 21.46 | 21.61  |                        |
| 5               | 256QAM | 1  | 24 | 21.44  | 21.49 | 21.44  |                        |
| 5               | 256QAM | 12 | 0  | 21.31  | 21.14 | 21.41  | 21.9                   |
| 5               | 256QAM | 12 | 7  | 21.09  | 21.26 | 21.25  |                        |
| 5               | 256QAM | 12 | 13 | 21.35  | 21.15 | 21.37  |                        |
| 5               | 256QAM | 25 | 0  | 21.33  | 21.28 | 21.27  |                        |



&lt;LTE Band 38\_HPUE\_Ant 1\_Index 10&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 23.82                    | 23.81                       | 23.76                     |                        |
| 20              | QPSK       | 1       | 49        | 23.76                    | 23.80                       | 23.74                     | 25.1                   |
| 20              | QPSK       | 1       | 99        | 23.69                    | 23.66                       | 23.60                     |                        |
| 20              | QPSK       | 50      | 0         | 23.74                    | 23.65                       | 23.65                     |                        |
| 20              | QPSK       | 50      | 24        | 23.58                    | 23.54                       | 23.56                     | 25.1                   |
| 20              | QPSK       | 50      | 50        | 23.58                    | 23.66                       | 23.57                     |                        |
| 20              | QPSK       | 100     | 0         | 23.57                    | 23.73                       | 23.55                     |                        |
| 20              | 16QAM      | 1       | 0         | 23.78                    | 23.78                       | 23.78                     | 25.1                   |
| 20              | 16QAM      | 1       | 49        | 23.74                    | 23.73                       | 23.74                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.75                    | 23.77                       | 23.75                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.70                    | 23.59                       | 23.54                     | 24.9                   |
| 20              | 16QAM      | 50      | 24        | 23.71                    | 23.70                       | 23.56                     |                        |
| 20              | 16QAM      | 50      | 50        | 23.75                    | 23.71                       | 23.55                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.70                    | 23.74                       | 23.67                     | 24.9                   |
| 20              | 64QAM      | 1       | 0         | 23.72                    | 23.60                       | 23.65                     |                        |
| 20              | 64QAM      | 1       | 49        | 23.65                    | 23.60                       | 23.73                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.65                    | 23.70                       | 23.60                     | 23.9                   |
| 20              | 64QAM      | 50      | 0         | 23.32                    | 23.31                       | 23.10                     |                        |
| 20              | 64QAM      | 50      | 24        | 23.33                    | 23.25                       | 23.18                     |                        |
| 20              | 64QAM      | 50      | 50        | 23.35                    | 23.14                       | 23.18                     | 21.9                   |
| 20              | 64QAM      | 100     | 0         | 23.29                    | 23.25                       | 23.13                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.62                    | 21.64                       | 21.55                     |                        |
| 20              | 256QAM     | 1       | 49        | 21.37                    | 21.62                       | 21.61                     | 21.9                   |
| 20              | 256QAM     | 1       | 99        | 21.43                    | 21.42                       | 21.45                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.43                    | 21.36                       | 21.46                     |                        |
| 20              | 256QAM     | 50      | 24        | 21.47                    | 21.42                       | 21.39                     | 21.9                   |
| 20              | 256QAM     | 50      | 50        | 21.57                    | 21.40                       | 21.44                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.42                    | 21.52                       | 21.54                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 23.76                    | 23.79                       | 23.56                     |                        |
| 15              | QPSK       | 1       | 37        | 23.59                    | 23.63                       | 23.61                     | 25.1                   |
| 15              | QPSK       | 1       | 74        | 23.67                    | 23.60                       | 23.44                     |                        |
| 15              | QPSK       | 36      | 0         | 23.63                    | 23.46                       | 23.54                     |                        |
| 15              | QPSK       | 36      | 20        | 23.65                    | 23.52                       | 23.50                     | 25.1                   |
| 15              | QPSK       | 36      | 39        | 23.55                    | 23.72                       | 23.59                     |                        |
| 15              | QPSK       | 75      | 0         | 23.64                    | 23.53                       | 23.40                     |                        |
| 15              | 16QAM      | 1       | 0         | 23.80                    | 23.73                       | 23.71                     | 25.1                   |
| 15              | 16QAM      | 1       | 37        | 23.74                    | 23.72                       | 23.73                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.81                    | 23.68                       | 23.73                     |                        |
| 15              | 16QAM      | 36      | 0         | 23.47                    | 23.63                       | 23.57                     | 24.9                   |
| 15              | 16QAM      | 36      | 20        | 23.57                    | 23.70                       | 23.38                     |                        |
| 15              | 16QAM      | 36      | 39        | 23.59                    | 23.58                       | 23.54                     |                        |
| 15              | 16QAM      | 75      | 0         | 23.66                    | 23.66                       | 23.34                     | 24.9                   |
| 15              | 64QAM      | 1       | 0         | 23.75                    | 23.58                       | 23.60                     |                        |
| 15              | 64QAM      | 1       | 37        | 23.65                    | 23.70                       | 23.50                     |                        |
| 15              | 64QAM      | 1       | 74        | 23.46                    | 23.57                       | 23.41                     | 23.9                   |
| 15              | 64QAM      | 36      | 0         | 23.15                    | 23.06                       | 23.14                     |                        |
| 15              | 64QAM      | 36      | 20        | 23.09                    | 22.92                       | 23.09                     |                        |
| 15              | 64QAM      | 36      | 39        | 23.17                    | 23.17                       | 23.21                     | 21.9                   |
| 15              | 64QAM      | 75      | 0         | 23.13                    | 23.23                       | 23.00                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.28                    | 21.24                       | 21.53                     |                        |
| 15              | 256QAM     | 1       | 37        | 21.39                    | 21.33                       | 21.50                     | 21.9                   |
| 15              | 256QAM     | 1       | 74        | 21.45                    | 21.49                       | 21.36                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.30                    | 21.47                       | 21.25                     |                        |
| 15              | 256QAM     | 36      | 20        | 21.38                    | 21.22                       | 21.31                     | 21.9                   |
| 15              | 256QAM     | 36      | 39        | 21.38                    | 21.39                       | 21.26                     |                        |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 21.33  | 21.38 | 21.51  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 23.75  | 23.76 | 23.61  | 25.1                   |
| 10              | QPSK   | 1  | 25 | 23.67  | 23.66 | 23.66  |                        |
| 10              | QPSK   | 1  | 49 | 23.58  | 23.62 | 23.55  |                        |
| 10              | QPSK   | 25 | 0  | 23.66  | 23.50 | 23.55  | 25.1                   |
| 10              | QPSK   | 25 | 12 | 23.57  | 23.56 | 23.35  |                        |
| 10              | QPSK   | 25 | 25 | 23.59  | 23.54 | 23.59  |                        |
| 10              | QPSK   | 50 | 0  | 23.50  | 23.41 | 23.53  | 25.1                   |
| 10              | 16QAM  | 1  | 0  | 23.76  | 23.77 | 23.75  |                        |
| 10              | 16QAM  | 1  | 25 | 23.73  | 23.75 | 23.76  |                        |
| 10              | 16QAM  | 1  | 49 | 23.75  | 23.78 | 23.76  | 24.9                   |
| 10              | 16QAM  | 25 | 0  | 23.53  | 23.39 | 23.44  |                        |
| 10              | 16QAM  | 25 | 12 | 23.46  | 23.54 | 23.39  |                        |
| 10              | 16QAM  | 25 | 25 | 23.64  | 23.46 | 23.25  | 24.9                   |
| 10              | 16QAM  | 50 | 0  | 23.64  | 23.45 | 23.65  |                        |
| 10              | 64QAM  | 1  | 0  | 23.70  | 23.68 | 23.65  |                        |
| 10              | 64QAM  | 1  | 25 | 23.73  | 23.56 | 23.67  | 24.9                   |
| 10              | 64QAM  | 1  | 49 | 23.57  | 23.63 | 23.42  |                        |
| 10              | 64QAM  | 25 | 0  | 23.25  | 23.16 | 23.01  |                        |
| 10              | 64QAM  | 25 | 12 | 23.10  | 23.24 | 23.07  | 23.9                   |
| 10              | 64QAM  | 25 | 25 | 23.18  | 23.04 | 23.19  |                        |
| 10              | 64QAM  | 50 | 0  | 23.15  | 23.14 | 23.05  |                        |
| 10              | 256QAM | 1  | 0  | 21.50  | 21.57 | 21.38  | 21.9                   |
| 10              | 256QAM | 1  | 25 | 21.40  | 21.48 | 21.46  |                        |
| 10              | 256QAM | 1  | 49 | 21.41  | 21.38 | 21.26  |                        |
| 10              | 256QAM | 25 | 0  | 21.45  | 21.44 | 21.23  | 21.9                   |
| 10              | 256QAM | 25 | 12 | 21.49  | 21.36 | 21.26  |                        |
| 10              | 256QAM | 25 | 25 | 21.42  | 21.34 | 21.27  |                        |
| 10              | 256QAM | 50 | 0  | 21.52  | 21.31 | 21.32  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 23.75  | 23.71 | 23.60  | 25.1                   |
| 5               | QPSK   | 1  | 12 | 23.71  | 23.72 | 23.58  |                        |
| 5               | QPSK   | 1  | 24 | 23.49  | 23.54 | 23.55  |                        |
| 5               | QPSK   | 12 | 0  | 23.69  | 23.46 | 23.52  | 25.1                   |
| 5               | QPSK   | 12 | 7  | 23.57  | 23.36 | 23.56  |                        |
| 5               | QPSK   | 12 | 13 | 23.49  | 23.53 | 23.58  |                        |
| 5               | QPSK   | 25 | 0  | 23.71  | 23.43 | 23.43  | 25.1                   |
| 5               | 16QAM  | 1  | 0  | 23.75  | 23.77 | 23.78  |                        |
| 5               | 16QAM  | 1  | 12 | 23.74  | 23.78 | 23.77  |                        |
| 5               | 16QAM  | 1  | 24 | 23.72  | 23.72 | 23.66  | 24.9                   |
| 5               | 16QAM  | 12 | 0  | 23.66  | 23.47 | 23.35  |                        |
| 5               | 16QAM  | 12 | 7  | 23.55  | 23.58 | 23.45  |                        |
| 5               | 16QAM  | 12 | 13 | 23.66  | 23.55 | 23.33  | 24.9                   |
| 5               | 16QAM  | 25 | 0  | 23.70  | 23.65 | 23.52  |                        |
| 5               | 64QAM  | 1  | 0  | 23.48  | 23.41 | 23.61  |                        |
| 5               | 64QAM  | 1  | 12 | 23.59  | 23.54 | 23.67  | 24.9                   |
| 5               | 64QAM  | 1  | 24 | 23.66  | 23.48 | 23.52  |                        |
| 5               | 64QAM  | 12 | 0  | 23.17  | 23.13 | 22.92  |                        |
| 5               | 64QAM  | 12 | 7  | 22.98  | 23.26 | 23.12  | 23.9                   |
| 5               | 64QAM  | 12 | 13 | 23.15  | 23.05 | 23.18  |                        |
| 5               | 64QAM  | 25 | 0  | 23.17  | 23.12 | 22.92  |                        |
| 5               | 256QAM | 1  | 0  | 21.29  | 21.34 | 21.26  | 21.9                   |
| 5               | 256QAM | 1  | 12 | 21.52  | 21.43 | 21.60  |                        |
| 5               | 256QAM | 1  | 24 | 21.36  | 21.29 | 21.38  |                        |
| 5               | 256QAM | 12 | 0  | 21.53  | 21.39 | 21.15  | 21.9                   |
| 5               | 256QAM | 12 | 7  | 21.39  | 21.27 | 21.36  |                        |
| 5               | 256QAM | 12 | 13 | 21.52  | 21.24 | 21.33  |                        |
| 5               | 256QAM | 25 | 0  | 21.43  | 21.39 | 21.23  |                        |



&lt;LTE Band 38\_HPUE\_Ant 0\_Index 10&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 23.79                    | 23.99                       | 23.88                     |                        |
| 20              | QPSK       | 1       | 49        | 23.76                    | 23.82                       | 23.84                     | 25.3                   |
| 20              | QPSK       | 1       | 99        | 23.73                    | 23.98                       | 23.85                     |                        |
| 20              | QPSK       | 50      | 0         | 23.75                    | 23.86                       | 23.84                     |                        |
| 20              | QPSK       | 50      | 24        | 23.72                    | 23.80                       | 23.75                     | 25.3                   |
| 20              | QPSK       | 50      | 50        | 23.74                    | 23.76                       | 23.72                     |                        |
| 20              | QPSK       | 100     | 0         | 23.79                    | 23.79                       | 23.66                     |                        |
| 20              | 16QAM      | 1       | 0         | 23.78                    | 23.58                       | 23.52                     | 25.3                   |
| 20              | 16QAM      | 1       | 49        | 23.42                    | 23.31                       | 23.45                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.72                    | 23.65                       | 23.53                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.85                    | 23.84                       | 23.88                     | 24.9                   |
| 20              | 16QAM      | 50      | 24        | 23.97                    | 23.95                       | 23.97                     |                        |
| 20              | 16QAM      | 50      | 50        | 23.86                    | 23.85                       | 23.98                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.94                    | 23.91                       | 23.87                     | 24.9                   |
| 20              | 64QAM      | 1       | 0         | 23.81                    | 23.77                       | 23.73                     |                        |
| 20              | 64QAM      | 1       | 49        | 23.84                    | 23.97                       | 23.75                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.80                    | 23.69                       | 23.84                     | 23.9                   |
| 20              | 64QAM      | 50      | 0         | 22.81                    | 22.95                       | 22.82                     |                        |
| 20              | 64QAM      | 50      | 24        | 22.82                    | 22.91                       | 22.92                     |                        |
| 20              | 64QAM      | 50      | 50        | 22.98                    | 22.83                       | 22.81                     | 21.9                   |
| 20              | 64QAM      | 100     | 0         | 22.94                    | 22.89                       | 22.92                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.28                    | 20.96                       | 20.86                     |                        |
| 20              | 256QAM     | 1       | 49        | 21.04                    | 20.96                       | 21.15                     | 21.9                   |
| 20              | 256QAM     | 1       | 99        | 20.98                    | 20.93                       | 20.85                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.01                    | 21.09                       | 21.14                     |                        |
| 20              | 256QAM     | 50      | 24        | 21.01                    | 21.00                       | 21.13                     | 21.9                   |
| 20              | 256QAM     | 50      | 50        | 20.87                    | 21.11                       | 21.12                     |                        |
| 20              | 256QAM     | 100     | 0         | 20.98                    | 21.00                       | 20.94                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 23.66                    | 23.96                       | 23.61                     |                        |
| 15              | QPSK       | 1       | 37        | 23.84                    | 23.72                       | 23.74                     | 25.3                   |
| 15              | QPSK       | 1       | 74        | 23.81                    | 23.96                       | 23.75                     |                        |
| 15              | QPSK       | 36      | 0         | 23.70                    | 23.79                       | 23.79                     |                        |
| 15              | QPSK       | 36      | 20        | 23.64                    | 23.72                       | 23.63                     | 25.3                   |
| 15              | QPSK       | 36      | 39        | 23.66                    | 23.72                       | 23.61                     |                        |
| 15              | QPSK       | 75      | 0         | 23.61                    | 23.59                       | 23.46                     |                        |
| 15              | 16QAM      | 1       | 0         | 23.53                    | 23.37                       | 23.65                     | 25.3                   |
| 15              | 16QAM      | 1       | 37        | 23.45                    | 23.34                       | 23.47                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.62                    | 23.52                       | 23.41                     |                        |
| 15              | 16QAM      | 36      | 0         | 23.84                    | 23.80                       | 23.72                     | 24.9                   |
| 15              | 16QAM      | 36      | 20        | 23.74                    | 23.91                       | 23.75                     |                        |
| 15              | 16QAM      | 36      | 39        | 23.86                    | 23.73                       | 23.68                     |                        |
| 15              | 16QAM      | 75      | 0         | 23.67                    | 23.91                       | 23.82                     | 24.9                   |
| 15              | 64QAM      | 1       | 0         | 23.64                    | 23.85                       | 23.57                     |                        |
| 15              | 64QAM      | 1       | 37        | 23.84                    | 23.88                       | 23.63                     |                        |
| 15              | 64QAM      | 1       | 74        | 23.74                    | 23.59                       | 23.69                     | 23.9                   |
| 15              | 64QAM      | 36      | 0         | 22.83                    | 22.84                       | 22.74                     |                        |
| 15              | 64QAM      | 36      | 20        | 22.81                    | 22.63                       | 22.69                     |                        |
| 15              | 64QAM      | 36      | 39        | 22.89                    | 22.79                       | 22.76                     | 21.9                   |
| 15              | 64QAM      | 75      | 0         | 22.75                    | 22.67                       | 22.84                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.25                    | 21.01                       | 20.79                     |                        |
| 15              | 256QAM     | 1       | 37        | 20.88                    | 20.80                       | 21.02                     | 21.9                   |
| 15              | 256QAM     | 1       | 74        | 20.79                    | 20.80                       | 20.83                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.98                    | 21.01                       | 21.21                     |                        |
| 15              | 256QAM     | 36      | 20        | 20.95                    | 20.79                       | 20.90                     | 21.9                   |
| 15              | 256QAM     | 36      | 39        | 21.02                    | 21.09                       | 20.95                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 20.93  | 21.09 | 20.87  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 23.63  | 23.84 | 23.77  | 25.3                   |
| 10              | QPSK   | 1  | 25 | 23.76  | 23.74 | 23.70  |                        |
| 10              | QPSK   | 1  | 49 | 23.67  | 23.79 | 23.68  |                        |
| 10              | QPSK   | 25 | 0  | 23.56  | 23.86 | 23.68  | 25.3                   |
| 10              | QPSK   | 25 | 12 | 23.68  | 23.72 | 23.58  |                        |
| 10              | QPSK   | 25 | 25 | 23.64  | 23.70 | 23.56  |                        |
| 10              | QPSK   | 50 | 0  | 23.63  | 23.64 | 23.59  | 25.3                   |
| 10              | 16QAM  | 1  | 0  | 23.70  | 23.61 | 23.56  |                        |
| 10              | 16QAM  | 1  | 25 | 23.36  | 23.38 | 23.48  |                        |
| 10              | 16QAM  | 1  | 49 | 23.70  | 23.51 | 23.43  | 24.9                   |
| 10              | 16QAM  | 25 | 0  | 23.89  | 23.80 | 23.73  |                        |
| 10              | 16QAM  | 25 | 12 | 23.95  | 23.82 | 23.76  |                        |
| 10              | 16QAM  | 25 | 25 | 23.88  | 23.81 | 23.71  | 24.9                   |
| 10              | 16QAM  | 50 | 0  | 23.74  | 23.72 | 23.73  |                        |
| 10              | 64QAM  | 1  | 0  | 23.81  | 23.66 | 23.45  |                        |
| 10              | 64QAM  | 1  | 25 | 23.78  | 23.83 | 23.66  | 24.9                   |
| 10              | 64QAM  | 1  | 49 | 23.67  | 23.63 | 23.62  |                        |
| 10              | 64QAM  | 25 | 0  | 22.71  | 22.71 | 22.74  |                        |
| 10              | 64QAM  | 25 | 12 | 22.77  | 22.80 | 22.60  | 23.9                   |
| 10              | 64QAM  | 25 | 25 | 22.97  | 22.59 | 22.76  |                        |
| 10              | 64QAM  | 50 | 0  | 22.68  | 22.83 | 22.82  |                        |
| 10              | 256QAM | 1  | 0  | 21.17  | 20.83 | 20.92  | 21.9                   |
| 10              | 256QAM | 1  | 25 | 21.10  | 20.72 | 21.14  |                        |
| 10              | 256QAM | 1  | 49 | 20.93  | 20.69 | 20.87  |                        |
| 10              | 256QAM | 25 | 0  | 20.84  | 20.98 | 21.02  | 21.9                   |
| 10              | 256QAM | 25 | 12 | 21.10  | 21.04 | 20.95  |                        |
| 10              | 256QAM | 25 | 25 | 20.77  | 21.01 | 20.98  |                        |
| 10              | 256QAM | 50 | 0  | 21.02  | 20.82 | 20.73  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 23.64  | 23.90 | 23.67  | 25.3                   |
| 5               | QPSK   | 1  | 12 | 23.85  | 23.76 | 23.73  |                        |
| 5               | QPSK   | 1  | 24 | 23.71  | 23.84 | 23.77  |                        |
| 5               | QPSK   | 12 | 0  | 23.60  | 23.82 | 23.64  | 25.3                   |
| 5               | QPSK   | 12 | 7  | 23.62  | 23.65 | 23.71  |                        |
| 5               | QPSK   | 12 | 13 | 23.65  | 23.57 | 23.53  |                        |
| 5               | QPSK   | 25 | 0  | 23.74  | 23.60 | 23.56  | 25.3                   |
| 5               | 16QAM  | 1  | 0  | 23.82  | 23.63 | 23.59  |                        |
| 5               | 16QAM  | 1  | 12 | 23.39  | 23.39 | 23.40  |                        |
| 5               | 16QAM  | 1  | 24 | 23.62  | 23.60 | 23.55  | 24.9                   |
| 5               | 16QAM  | 12 | 0  | 23.74  | 23.77 | 23.80  |                        |
| 5               | 16QAM  | 12 | 7  | 23.82  | 23.82 | 23.82  |                        |
| 5               | 16QAM  | 12 | 13 | 23.83  | 23.87 | 23.83  | 24.9                   |
| 5               | 16QAM  | 25 | 0  | 23.77  | 23.90 | 23.81  |                        |
| 5               | 64QAM  | 1  | 0  | 23.86  | 23.70 | 23.51  |                        |
| 5               | 64QAM  | 1  | 12 | 23.71  | 23.86 | 23.50  | 23.9                   |
| 5               | 64QAM  | 1  | 24 | 23.66  | 23.63 | 23.77  |                        |
| 5               | 64QAM  | 12 | 0  | 22.65  | 22.75 | 22.62  |                        |
| 5               | 64QAM  | 12 | 7  | 22.92  | 22.78 | 22.56  | 21.9                   |
| 5               | 64QAM  | 12 | 13 | 22.93  | 22.80 | 22.82  |                        |
| 5               | 64QAM  | 25 | 0  | 22.82  | 22.76 | 22.77  |                        |
| 5               | 256QAM | 1  | 0  | 21.23  | 20.92 | 20.70  | 21.9                   |
| 5               | 256QAM | 1  | 12 | 20.88  | 20.91 | 21.17  |                        |
| 5               | 256QAM | 1  | 24 | 21.07  | 20.93 | 20.81  |                        |
| 5               | 256QAM | 12 | 0  | 20.80  | 20.97 | 21.04  | 21.9                   |
| 5               | 256QAM | 12 | 7  | 20.96  | 21.03 | 21.02  |                        |
| 5               | 256QAM | 12 | 13 | 21.03  | 21.00 | 21.01  |                        |
| 5               | 256QAM | 25 | 0  | 21.00  | 21.00 | 20.84  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 24.35                    | 24.32                       | 24.53                     |                        |
| 20              | QPSK       | 1       | 49        | 24.21                    | 24.21                       | 24.44                     | 25.8                   |
| 20              | QPSK       | 1       | 99        | 24.25                    | 24.23                       | 24.43                     |                        |
| 20              | QPSK       | 50      | 0         | 24.31                    | 24.24                       | 24.52                     |                        |
| 20              | QPSK       | 50      | 24        | 24.19                    | 24.15                       | 24.32                     | 25.8                   |
| 20              | QPSK       | 50      | 50        | 24.25                    | 24.17                       | 24.42                     |                        |
| 20              | QPSK       | 100     | 0         | 24.28                    | 24.19                       | 24.44                     |                        |
| 20              | 16QAM      | 1       | 0         | 24.44                    | 24.31                       | 24.45                     | 25.8                   |
| 20              | 16QAM      | 1       | 49        | 24.19                    | 24.20                       | 24.40                     |                        |
| 20              | 16QAM      | 1       | 99        | 24.38                    | 24.31                       | 24.44                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.10                    | 23.30                       | 23.73                     | 24.9                   |
| 20              | 16QAM      | 50      | 24        | 23.28                    | 23.12                       | 23.25                     |                        |
| 20              | 16QAM      | 50      | 50        | 23.27                    | 23.38                       | 23.32                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.37                    | 23.19                       | 23.52                     | 24.9                   |
| 20              | 64QAM      | 1       | 0         | 23.22                    | 23.45                       | 23.56                     |                        |
| 20              | 64QAM      | 1       | 49        | 23.06                    | 23.24                       | 23.44                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.25                    | 23.21                       | 23.28                     | 23.9                   |
| 20              | 64QAM      | 50      | 0         | 22.49                    | 22.32                       | 22.69                     |                        |
| 20              | 64QAM      | 50      | 24        | 22.29                    | 22.53                       | 22.51                     |                        |
| 20              | 64QAM      | 50      | 50        | 22.26                    | 22.13                       | 22.51                     | 21.9                   |
| 20              | 64QAM      | 100     | 0         | 22.39                    | 22.12                       | 22.58                     |                        |
| 20              | 256QAM     | 1       | 0         | 20.57                    | 20.47                       | 20.88                     |                        |
| 20              | 256QAM     | 1       | 49        | 20.32                    | 20.36                       | 20.74                     | 21.9                   |
| 20              | 256QAM     | 1       | 99        | 20.55                    | 20.63                       | 20.81                     |                        |
| 20              | 256QAM     | 50      | 0         | 20.57                    | 20.44                       | 20.65                     |                        |
| 20              | 256QAM     | 50      | 24        | 20.49                    | 20.60                       | 20.84                     | 21.9                   |
| 20              | 256QAM     | 50      | 50        | 20.63                    | 20.50                       | 20.55                     |                        |
| 20              | 256QAM     | 100     | 0         | 20.54                    | 20.43                       | 20.86                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 24.34                    | 24.12                       | 24.44                     |                        |
| 15              | QPSK       | 1       | 37        | 23.98                    | 24.01                       | 24.46                     | 25.8                   |
| 15              | QPSK       | 1       | 74        | 24.22                    | 24.04                       | 24.49                     |                        |
| 15              | QPSK       | 36      | 0         | 24.25                    | 24.04                       | 24.44                     |                        |
| 15              | QPSK       | 36      | 20        | 24.14                    | 24.09                       | 24.23                     | 25.8                   |
| 15              | QPSK       | 36      | 39        | 24.24                    | 24.05                       | 24.37                     |                        |
| 15              | QPSK       | 75      | 0         | 24.16                    | 23.96                       | 24.18                     |                        |
| 15              | 16QAM      | 1       | 0         | 24.34                    | 24.33                       | 24.32                     | 25.8                   |
| 15              | 16QAM      | 1       | 37        | 24.07                    | 24.02                       | 24.35                     |                        |
| 15              | 16QAM      | 1       | 74        | 24.18                    | 24.17                       | 24.35                     |                        |
| 15              | 16QAM      | 36      | 0         | 23.43                    | 23.37                       | 23.49                     | 24.9                   |
| 15              | 16QAM      | 36      | 20        | 23.19                    | 23.14                       | 23.25                     |                        |
| 15              | 16QAM      | 36      | 39        | 23.43                    | 23.37                       | 23.28                     |                        |
| 15              | 16QAM      | 75      | 0         | 23.37                    | 23.44                       | 23.34                     | 24.9                   |
| 15              | 64QAM      | 1       | 0         | 23.43                    | 22.99                       | 23.58                     |                        |
| 15              | 64QAM      | 1       | 37        | 23.06                    | 23.06                       | 23.29                     |                        |
| 15              | 64QAM      | 1       | 74        | 23.12                    | 23.01                       | 23.28                     | 23.9                   |
| 15              | 64QAM      | 36      | 0         | 22.14                    | 22.07                       | 22.31                     |                        |
| 15              | 64QAM      | 36      | 20        | 22.19                    | 22.41                       | 22.21                     |                        |
| 15              | 64QAM      | 36      | 39        | 22.33                    | 22.25                       | 22.02                     | 21.9                   |
| 15              | 64QAM      | 75      | 0         | 22.04                    | 22.27                       | 22.59                     |                        |
| 15              | 256QAM     | 1       | 0         | 20.70                    | 20.54                       | 20.49                     |                        |
| 15              | 256QAM     | 1       | 37        | 20.16                    | 19.98                       | 20.55                     | 21.9                   |
| 15              | 256QAM     | 1       | 74        | 20.54                    | 20.51                       | 20.54                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.69                    | 20.19                       | 20.57                     |                        |
| 15              | 256QAM     | 36      | 20        | 20.30                    | 20.66                       | 20.58                     | 21.9                   |
| 15              | 256QAM     | 36      | 39        | 20.23                    | 20.40                       | 20.38                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 20.51  | 20.39 | 20.74  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 24.32  | 24.26 | 24.39  | 25.8                   |
| 10              | QPSK   | 1  | 25 | 24.11  | 24.16 | 24.45  |                        |
| 10              | QPSK   | 1  | 49 | 24.23  | 24.04 | 24.37  |                        |
| 10              | QPSK   | 25 | 0  | 24.13  | 24.22 | 24.32  | 25.8                   |
| 10              | QPSK   | 25 | 12 | 24.09  | 24.12 | 24.14  |                        |
| 10              | QPSK   | 25 | 25 | 24.06  | 24.16 | 24.25  |                        |
| 10              | QPSK   | 50 | 0  | 24.14  | 24.16 | 24.26  |                        |
| 10              | 16QAM  | 1  | 0  | 24.45  | 24.24 | 24.39  | 25.8                   |
| 10              | 16QAM  | 1  | 25 | 24.10  | 24.06 | 24.42  |                        |
| 10              | 16QAM  | 1  | 49 | 24.29  | 24.24 | 24.36  |                        |
| 10              | 16QAM  | 25 | 0  | 22.92  | 23.25 | 23.39  | 24.9                   |
| 10              | 16QAM  | 25 | 12 | 23.01  | 23.05 | 23.10  |                        |
| 10              | 16QAM  | 25 | 25 | 23.06  | 23.14 | 23.41  |                        |
| 10              | 16QAM  | 50 | 0  | 23.34  | 23.34 | 23.65  |                        |
| 10              | 64QAM  | 1  | 0  | 22.98  | 23.35 | 23.46  | 24.9                   |
| 10              | 64QAM  | 1  | 25 | 22.94  | 23.04 | 23.12  |                        |
| 10              | 64QAM  | 1  | 49 | 23.08  | 23.21 | 23.03  |                        |
| 10              | 64QAM  | 25 | 0  | 22.19  | 22.11 | 22.30  | 23.9                   |
| 10              | 64QAM  | 25 | 12 | 22.16  | 22.16 | 22.15  |                        |
| 10              | 64QAM  | 25 | 25 | 22.19  | 22.00 | 22.22  |                        |
| 10              | 64QAM  | 50 | 0  | 22.28  | 22.25 | 22.32  |                        |
| 10              | 256QAM | 1  | 0  | 20.46  | 20.48 | 20.51  | 21.9                   |
| 10              | 256QAM | 1  | 25 | 20.22  | 20.09 | 20.32  |                        |
| 10              | 256QAM | 1  | 49 | 20.37  | 20.25 | 20.61  |                        |
| 10              | 256QAM | 25 | 0  | 20.39  | 20.56 | 20.45  | 21.9                   |
| 10              | 256QAM | 25 | 12 | 20.37  | 20.37 | 20.47  |                        |
| 10              | 256QAM | 25 | 25 | 20.23  | 20.38 | 20.72  |                        |
| 10              | 256QAM | 50 | 0  | 20.72  | 20.52 | 20.53  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 24.33  | 24.31 | 24.41  | 25.8                   |
| 5               | QPSK   | 1  | 12 | 24.00  | 23.99 | 24.43  |                        |
| 5               | QPSK   | 1  | 24 | 24.13  | 24.10 | 24.38  |                        |
| 5               | QPSK   | 12 | 0  | 24.10  | 24.10 | 24.39  | 25.8                   |
| 5               | QPSK   | 12 | 7  | 24.12  | 24.02 | 24.24  |                        |
| 5               | QPSK   | 12 | 13 | 24.09  | 24.09 | 24.26  |                        |
| 5               | QPSK   | 25 | 0  | 24.19  | 23.96 | 24.23  |                        |
| 5               | 16QAM  | 1  | 0  | 24.47  | 24.32 | 24.34  | 25.8                   |
| 5               | 16QAM  | 1  | 12 | 24.02  | 24.10 | 24.25  |                        |
| 5               | 16QAM  | 1  | 24 | 24.19  | 24.27 | 24.32  |                        |
| 5               | 16QAM  | 12 | 0  | 23.23  | 22.95 | 23.36  | 24.9                   |
| 5               | 16QAM  | 12 | 7  | 23.11  | 23.14 | 23.38  |                        |
| 5               | 16QAM  | 12 | 13 | 23.03  | 23.21 | 23.20  |                        |
| 5               | 16QAM  | 25 | 0  | 23.28  | 23.11 | 23.56  |                        |
| 5               | 64QAM  | 1  | 0  | 23.35  | 23.11 | 23.38  | 24.9                   |
| 5               | 64QAM  | 1  | 12 | 22.91  | 23.15 | 22.96  |                        |
| 5               | 64QAM  | 1  | 24 | 23.09  | 22.95 | 23.25  |                        |
| 5               | 64QAM  | 12 | 0  | 22.17  | 21.96 | 22.19  | 23.9                   |
| 5               | 64QAM  | 12 | 7  | 21.92  | 22.35 | 22.51  |                        |
| 5               | 64QAM  | 12 | 13 | 22.12  | 22.16 | 22.38  |                        |
| 5               | 64QAM  | 25 | 0  | 22.43  | 22.04 | 22.68  |                        |
| 5               | 256QAM | 1  | 0  | 20.66  | 20.22 | 20.81  | 21.9                   |
| 5               | 256QAM | 1  | 12 | 20.46  | 20.30 | 20.41  |                        |
| 5               | 256QAM | 1  | 24 | 20.21  | 20.28 | 20.83  |                        |
| 5               | 256QAM | 12 | 0  | 20.15  | 20.35 | 20.60  | 21.9                   |
| 5               | 256QAM | 12 | 7  | 20.49  | 20.24 | 20.53  |                        |
| 5               | 256QAM | 12 | 13 | 20.58  | 20.33 | 20.43  |                        |
| 5               | 256QAM | 25 | 0  | 20.32  | 20.50 | 20.77  |                        |



&lt;LTE Band 38\_HPUE\_Ant 2\_Index 11&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 21.66                    | 21.64                       | 21.63                     |                        |
| 20              | QPSK       | 1       | 49        | 21.64                    | 21.63                       | 21.61                     | 21.8                   |
| 20              | QPSK       | 1       | 99        | 21.65                    | 21.65                       | 21.60                     |                        |
| 20              | QPSK       | 50      | 0         | 21.61                    | 21.60                       | 21.60                     |                        |
| 20              | QPSK       | 50      | 24        | 21.59                    | 21.60                       | 21.58                     | 21.8                   |
| 20              | QPSK       | 50      | 50        | 21.60                    | 21.59                       | 21.59                     |                        |
| 20              | QPSK       | 100     | 0         | 21.60                    | 21.57                       | 21.56                     |                        |
| 20              | 16QAM      | 1       | 0         | 21.58                    | 21.56                       | 21.60                     | 21.8                   |
| 20              | 16QAM      | 1       | 49        | 21.23                    | 21.24                       | 21.21                     |                        |
| 20              | 16QAM      | 1       | 99        | 21.60                    | 21.59                       | 21.57                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.60                    | 21.59                       | 21.61                     | 21.8                   |
| 20              | 16QAM      | 50      | 24        | 21.62                    | 21.60                       | 21.61                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.63                    | 21.62                       | 21.61                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.64                    | 21.62                       | 21.64                     | 21.8                   |
| 20              | 64QAM      | 1       | 0         | 21.49                    | 21.48                       | 21.49                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.61                    | 21.52                       | 21.53                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.58                    | 21.54                       | 21.59                     | 21.8                   |
| 20              | 64QAM      | 50      | 0         | 21.61                    | 21.61                       | 21.60                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.61                    | 21.62                       | 21.61                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.61                    | 21.63                       | 21.61                     | 21.8                   |
| 20              | 64QAM      | 100     | 0         | 21.63                    | 21.63                       | 21.61                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.61                    | 21.61                       | 21.56                     |                        |
| 20              | 256QAM     | 1       | 49        | 21.63                    | 21.61                       | 21.59                     | 21.8                   |
| 20              | 256QAM     | 1       | 99        | 21.49                    | 21.62                       | 21.54                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.37                    | 21.31                       | 21.48                     |                        |
| 20              | 256QAM     | 50      | 24        | 21.27                    | 21.42                       | 21.34                     | 21.8                   |
| 20              | 256QAM     | 50      | 50        | 21.40                    | 21.29                       | 21.37                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.43                    | 21.32                       | 21.44                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 21.61                    | 21.50                       | 21.44                     |                        |
| 15              | QPSK       | 1       | 37        | 21.58                    | 21.46                       | 21.49                     | 21.8                   |
| 15              | QPSK       | 1       | 74        | 21.60                    | 21.53                       | 21.57                     |                        |
| 15              | QPSK       | 36      | 0         | 21.45                    | 21.41                       | 21.43                     |                        |
| 15              | QPSK       | 36      | 20        | 21.56                    | 21.48                       | 21.38                     | 21.8                   |
| 15              | QPSK       | 36      | 39        | 21.47                    | 21.53                       | 21.57                     |                        |
| 15              | QPSK       | 75      | 0         | 21.46                    | 21.41                       | 21.36                     |                        |
| 15              | 16QAM      | 1       | 0         | 21.41                    | 21.46                       | 21.40                     | 21.8                   |
| 15              | 16QAM      | 1       | 37        | 21.03                    | 21.04                       | 21.10                     |                        |
| 15              | 16QAM      | 1       | 74        | 21.50                    | 21.52                       | 21.41                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.48                    | 21.58                       | 21.61                     | 21.8                   |
| 15              | 16QAM      | 36      | 20        | 21.44                    | 21.53                       | 21.60                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.55                    | 21.61                       | 21.50                     |                        |
| 15              | 16QAM      | 75      | 0         | 21.53                    | 21.54                       | 21.46                     | 21.8                   |
| 15              | 64QAM      | 1       | 0         | 21.29                    | 21.39                       | 21.29                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.48                    | 21.44                       | 21.53                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.44                    | 21.43                       | 21.39                     | 21.8                   |
| 15              | 64QAM      | 36      | 0         | 21.46                    | 21.44                       | 21.58                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.47                    | 21.59                       | 21.43                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.43                    | 21.46                       | 21.57                     | 21.8                   |
| 15              | 64QAM      | 75      | 0         | 21.56                    | 21.44                       | 21.53                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.60                    | 21.51                       | 21.41                     |                        |
| 15              | 256QAM     | 1       | 37        | 21.52                    | 21.51                       | 21.49                     | 21.8                   |
| 15              | 256QAM     | 1       | 74        | 21.44                    | 21.53                       | 21.49                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.17                    | 21.17                       | 21.48                     |                        |
| 15              | 256QAM     | 36      | 20        | 21.17                    | 21.28                       | 21.29                     | 21.8                   |
| 15              | 256QAM     | 36      | 39        | 21.25                    | 21.23                       | 21.21                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 21.25  | 21.18 | 21.37  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 21.56  | 21.56 | 21.58  | 21.8                   |
| 10              | QPSK   | 1  | 25 | 21.53  | 21.54 | 21.50  |                        |
| 10              | QPSK   | 1  | 49 | 21.53  | 21.59 | 21.40  |                        |
| 10              | QPSK   | 25 | 0  | 21.59  | 21.40 | 21.50  | 21.8                   |
| 10              | QPSK   | 25 | 12 | 21.40  | 21.47 | 21.54  |                        |
| 10              | QPSK   | 25 | 25 | 21.55  | 21.46 | 21.54  |                        |
| 10              | QPSK   | 50 | 0  | 21.56  | 21.46 | 21.51  |                        |
| 10              | 16QAM  | 1  | 0  | 21.53  | 21.47 | 21.59  | 21.8                   |
| 10              | 16QAM  | 1  | 25 | 21.08  | 21.09 | 21.09  |                        |
| 10              | 16QAM  | 1  | 49 | 21.59  | 21.50 | 21.51  |                        |
| 10              | 16QAM  | 25 | 0  | 21.59  | 21.40 | 21.55  | 21.8                   |
| 10              | 16QAM  | 25 | 12 | 21.61  | 21.45 | 21.49  |                        |
| 10              | 16QAM  | 25 | 25 | 21.45  | 21.62 | 21.43  |                        |
| 10              | 16QAM  | 50 | 0  | 21.48  | 21.49 | 21.58  |                        |
| 10              | 64QAM  | 1  | 0  | 21.48  | 21.32 | 21.41  | 21.8                   |
| 10              | 64QAM  | 1  | 25 | 21.58  | 21.38 | 21.50  |                        |
| 10              | 64QAM  | 1  | 49 | 21.46  | 21.54 | 21.47  |                        |
| 10              | 64QAM  | 25 | 0  | 21.61  | 21.51 | 21.40  | 21.8                   |
| 10              | 64QAM  | 25 | 12 | 21.58  | 21.42 | 21.50  |                        |
| 10              | 64QAM  | 25 | 25 | 21.43  | 21.51 | 21.41  |                        |
| 10              | 64QAM  | 50 | 0  | 21.63  | 21.60 | 21.58  |                        |
| 10              | 256QAM | 1  | 0  | 21.55  | 21.50 | 21.39  | 21.8                   |
| 10              | 256QAM | 1  | 25 | 21.56  | 21.46 | 21.57  |                        |
| 10              | 256QAM | 1  | 49 | 21.44  | 21.44 | 21.36  |                        |
| 10              | 256QAM | 25 | 0  | 21.21  | 21.17 | 21.29  | 21.8                   |
| 10              | 256QAM | 25 | 12 | 21.23  | 21.37 | 21.16  |                        |
| 10              | 256QAM | 25 | 25 | 21.24  | 21.17 | 21.37  |                        |
| 10              | 256QAM | 50 | 0  | 21.24  | 21.28 | 21.32  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 21.61  | 21.55 | 21.49  | 21.8                   |
| 5               | QPSK   | 1  | 12 | 21.48  | 21.58 | 21.58  |                        |
| 5               | QPSK   | 1  | 24 | 21.53  | 21.53 | 21.49  |                        |
| 5               | QPSK   | 12 | 0  | 21.58  | 21.60 | 21.50  | 21.8                   |
| 5               | QPSK   | 12 | 7  | 21.46  | 21.59 | 21.56  |                        |
| 5               | QPSK   | 12 | 13 | 21.53  | 21.58 | 21.56  |                        |
| 5               | QPSK   | 25 | 0  | 21.53  | 21.41 | 21.53  |                        |
| 5               | 16QAM  | 1  | 0  | 21.58  | 21.42 | 21.43  | 21.8                   |
| 5               | 16QAM  | 1  | 12 | 21.07  | 21.20 | 21.20  |                        |
| 5               | 16QAM  | 1  | 24 | 21.41  | 21.57 | 21.57  |                        |
| 5               | 16QAM  | 12 | 0  | 21.55  | 21.40 | 21.56  | 21.8                   |
| 5               | 16QAM  | 12 | 7  | 21.42  | 21.60 | 21.59  |                        |
| 5               | 16QAM  | 12 | 13 | 21.43  | 21.49 | 21.52  |                        |
| 5               | 16QAM  | 25 | 0  | 21.54  | 21.55 | 21.52  |                        |
| 5               | 64QAM  | 1  | 0  | 21.47  | 21.43 | 21.29  | 21.8                   |
| 5               | 64QAM  | 1  | 12 | 21.49  | 21.38 | 21.46  |                        |
| 5               | 64QAM  | 1  | 24 | 21.43  | 21.45 | 21.53  |                        |
| 5               | 64QAM  | 12 | 0  | 21.58  | 21.55 | 21.60  | 21.8                   |
| 5               | 64QAM  | 12 | 7  | 21.44  | 21.55 | 21.52  |                        |
| 5               | 64QAM  | 12 | 13 | 21.54  | 21.44 | 21.43  |                        |
| 5               | 64QAM  | 25 | 0  | 21.58  | 21.47 | 21.46  |                        |
| 5               | 256QAM | 1  | 0  | 21.59  | 21.41 | 21.44  | 21.8                   |
| 5               | 256QAM | 1  | 12 | 21.46  | 21.46 | 21.61  |                        |
| 5               | 256QAM | 1  | 24 | 21.44  | 21.49 | 21.44  |                        |
| 5               | 256QAM | 12 | 0  | 21.31  | 21.14 | 21.41  | 21.8                   |
| 5               | 256QAM | 12 | 7  | 21.09  | 21.26 | 21.25  |                        |
| 5               | 256QAM | 12 | 13 | 21.35  | 21.15 | 21.37  |                        |
| 5               | 256QAM | 25 | 0  | 21.33  | 21.28 | 21.27  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 23.82                    | 23.81                       | 23.76                     |                        |
| 20              | QPSK       | 1       | 49        | 23.76                    | 23.80                       | 23.74                     | 24.3                   |
| 20              | QPSK       | 1       | 99        | 23.69                    | 23.66                       | 23.60                     |                        |
| 20              | QPSK       | 50      | 0         | 23.74                    | 23.65                       | 23.65                     |                        |
| 20              | QPSK       | 50      | 24        | 23.58                    | 23.54                       | 23.56                     | 24.3                   |
| 20              | QPSK       | 50      | 50        | 23.58                    | 23.66                       | 23.57                     |                        |
| 20              | QPSK       | 100     | 0         | 23.57                    | 23.73                       | 23.55                     |                        |
| 20              | 16QAM      | 1       | 0         | 23.78                    | 23.78                       | 23.78                     | 24.3                   |
| 20              | 16QAM      | 1       | 49        | 23.74                    | 23.73                       | 23.74                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.75                    | 23.77                       | 23.75                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.70                    | 23.59                       | 23.54                     | 24.3                   |
| 20              | 16QAM      | 50      | 24        | 23.71                    | 23.70                       | 23.56                     |                        |
| 20              | 16QAM      | 50      | 50        | 23.75                    | 23.71                       | 23.55                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.70                    | 23.74                       | 23.67                     | 24.3                   |
| 20              | 64QAM      | 1       | 0         | 23.72                    | 23.60                       | 23.65                     |                        |
| 20              | 64QAM      | 1       | 49        | 23.65                    | 23.60                       | 23.73                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.65                    | 23.70                       | 23.60                     | 23.9                   |
| 20              | 64QAM      | 50      | 0         | 23.32                    | 23.31                       | 23.10                     |                        |
| 20              | 64QAM      | 50      | 24        | 23.33                    | 23.25                       | 23.18                     |                        |
| 20              | 64QAM      | 50      | 50        | 23.35                    | 23.14                       | 23.18                     | 21.9                   |
| 20              | 64QAM      | 100     | 0         | 23.29                    | 23.25                       | 23.13                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.62                    | 21.64                       | 21.55                     |                        |
| 20              | 256QAM     | 1       | 49        | 21.37                    | 21.62                       | 21.61                     | 21.9                   |
| 20              | 256QAM     | 1       | 99        | 21.43                    | 21.42                       | 21.45                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.43                    | 21.36                       | 21.46                     |                        |
| 20              | 256QAM     | 50      | 24        | 21.47                    | 21.42                       | 21.39                     | 21.9                   |
| 20              | 256QAM     | 50      | 50        | 21.57                    | 21.40                       | 21.44                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.42                    | 21.52                       | 21.54                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 23.76                    | 23.79                       | 23.56                     |                        |
| 15              | QPSK       | 1       | 37        | 23.59                    | 23.63                       | 23.61                     | 24.3                   |
| 15              | QPSK       | 1       | 74        | 23.67                    | 23.60                       | 23.44                     |                        |
| 15              | QPSK       | 36      | 0         | 23.63                    | 23.46                       | 23.54                     |                        |
| 15              | QPSK       | 36      | 20        | 23.65                    | 23.52                       | 23.50                     | 24.3                   |
| 15              | QPSK       | 36      | 39        | 23.55                    | 23.72                       | 23.59                     |                        |
| 15              | QPSK       | 75      | 0         | 23.64                    | 23.53                       | 23.40                     |                        |
| 15              | 16QAM      | 1       | 0         | 23.80                    | 23.73                       | 23.71                     | 24.3                   |
| 15              | 16QAM      | 1       | 37        | 23.74                    | 23.72                       | 23.73                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.81                    | 23.68                       | 23.73                     |                        |
| 15              | 16QAM      | 36      | 0         | 23.47                    | 23.63                       | 23.57                     | 24.3                   |
| 15              | 16QAM      | 36      | 20        | 23.57                    | 23.70                       | 23.38                     |                        |
| 15              | 16QAM      | 36      | 39        | 23.59                    | 23.58                       | 23.54                     |                        |
| 15              | 16QAM      | 75      | 0         | 23.66                    | 23.66                       | 23.34                     | 24.3                   |
| 15              | 64QAM      | 1       | 0         | 23.75                    | 23.58                       | 23.60                     |                        |
| 15              | 64QAM      | 1       | 37        | 23.65                    | 23.70                       | 23.50                     |                        |
| 15              | 64QAM      | 1       | 74        | 23.46                    | 23.57                       | 23.41                     | 23.9                   |
| 15              | 64QAM      | 36      | 0         | 23.15                    | 23.06                       | 23.14                     |                        |
| 15              | 64QAM      | 36      | 20        | 23.09                    | 22.92                       | 23.09                     |                        |
| 15              | 64QAM      | 36      | 39        | 23.17                    | 23.17                       | 23.21                     | 21.9                   |
| 15              | 64QAM      | 75      | 0         | 23.13                    | 23.23                       | 23.00                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.28                    | 21.24                       | 21.53                     |                        |
| 15              | 256QAM     | 1       | 37        | 21.39                    | 21.33                       | 21.50                     | 21.9                   |
| 15              | 256QAM     | 1       | 74        | 21.45                    | 21.49                       | 21.36                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.30                    | 21.47                       | 21.25                     |                        |
| 15              | 256QAM     | 36      | 20        | 21.38                    | 21.22                       | 21.31                     | 21.9                   |
| 15              | 256QAM     | 36      | 39        | 21.38                    | 21.39                       | 21.26                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 21.33  | 21.38 | 21.51  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 23.75  | 23.76 | 23.61  | 24.3                   |
| 10              | QPSK   | 1  | 25 | 23.67  | 23.66 | 23.66  |                        |
| 10              | QPSK   | 1  | 49 | 23.58  | 23.62 | 23.55  |                        |
| 10              | QPSK   | 25 | 0  | 23.66  | 23.50 | 23.55  | 24.3                   |
| 10              | QPSK   | 25 | 12 | 23.57  | 23.56 | 23.35  |                        |
| 10              | QPSK   | 25 | 25 | 23.59  | 23.54 | 23.59  |                        |
| 10              | QPSK   | 50 | 0  | 23.50  | 23.41 | 23.53  | 24.3                   |
| 10              | 16QAM  | 1  | 0  | 23.76  | 23.77 | 23.75  |                        |
| 10              | 16QAM  | 1  | 25 | 23.73  | 23.75 | 23.76  |                        |
| 10              | 16QAM  | 1  | 49 | 23.75  | 23.78 | 23.76  | 24.3                   |
| 10              | 16QAM  | 25 | 0  | 23.53  | 23.39 | 23.44  |                        |
| 10              | 16QAM  | 25 | 12 | 23.46  | 23.54 | 23.39  |                        |
| 10              | 16QAM  | 25 | 25 | 23.64  | 23.46 | 23.25  | 24.3                   |
| 10              | 16QAM  | 50 | 0  | 23.64  | 23.45 | 23.65  |                        |
| 10              | 64QAM  | 1  | 0  | 23.70  | 23.68 | 23.65  |                        |
| 10              | 64QAM  | 1  | 25 | 23.73  | 23.56 | 23.67  | 24.3                   |
| 10              | 64QAM  | 1  | 49 | 23.57  | 23.63 | 23.42  |                        |
| 10              | 64QAM  | 25 | 0  | 23.25  | 23.16 | 23.01  |                        |
| 10              | 64QAM  | 25 | 12 | 23.10  | 23.24 | 23.07  | 23.9                   |
| 10              | 64QAM  | 25 | 25 | 23.18  | 23.04 | 23.19  |                        |
| 10              | 64QAM  | 50 | 0  | 23.15  | 23.14 | 23.05  |                        |
| 10              | 256QAM | 1  | 0  | 21.50  | 21.57 | 21.38  | 21.9                   |
| 10              | 256QAM | 1  | 25 | 21.40  | 21.48 | 21.46  |                        |
| 10              | 256QAM | 1  | 49 | 21.41  | 21.38 | 21.26  |                        |
| 10              | 256QAM | 25 | 0  | 21.45  | 21.44 | 21.23  | 21.9                   |
| 10              | 256QAM | 25 | 12 | 21.49  | 21.36 | 21.26  |                        |
| 10              | 256QAM | 25 | 25 | 21.42  | 21.34 | 21.27  |                        |
| 10              | 256QAM | 50 | 0  | 21.52  | 21.31 | 21.32  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 23.75  | 23.71 | 23.60  | 24.3                   |
| 5               | QPSK   | 1  | 12 | 23.71  | 23.72 | 23.58  |                        |
| 5               | QPSK   | 1  | 24 | 23.49  | 23.54 | 23.55  |                        |
| 5               | QPSK   | 12 | 0  | 23.69  | 23.46 | 23.52  | 24.3                   |
| 5               | QPSK   | 12 | 7  | 23.57  | 23.36 | 23.56  |                        |
| 5               | QPSK   | 12 | 13 | 23.49  | 23.53 | 23.58  |                        |
| 5               | QPSK   | 25 | 0  | 23.71  | 23.43 | 23.43  | 24.3                   |
| 5               | 16QAM  | 1  | 0  | 23.75  | 23.77 | 23.78  |                        |
| 5               | 16QAM  | 1  | 12 | 23.74  | 23.78 | 23.77  |                        |
| 5               | 16QAM  | 1  | 24 | 23.72  | 23.72 | 23.66  | 24.3                   |
| 5               | 16QAM  | 12 | 0  | 23.66  | 23.47 | 23.35  |                        |
| 5               | 16QAM  | 12 | 7  | 23.55  | 23.58 | 23.45  |                        |
| 5               | 16QAM  | 12 | 13 | 23.66  | 23.55 | 23.33  | 24.3                   |
| 5               | 16QAM  | 25 | 0  | 23.70  | 23.65 | 23.52  |                        |
| 5               | 64QAM  | 1  | 0  | 23.48  | 23.41 | 23.61  |                        |
| 5               | 64QAM  | 1  | 12 | 23.59  | 23.54 | 23.67  | 24.3                   |
| 5               | 64QAM  | 1  | 24 | 23.66  | 23.48 | 23.52  |                        |
| 5               | 64QAM  | 12 | 0  | 23.17  | 23.13 | 22.92  |                        |
| 5               | 64QAM  | 12 | 7  | 22.98  | 23.26 | 23.12  | 23.9                   |
| 5               | 64QAM  | 12 | 13 | 23.15  | 23.05 | 23.18  |                        |
| 5               | 64QAM  | 25 | 0  | 23.17  | 23.12 | 22.92  |                        |
| 5               | 256QAM | 1  | 0  | 21.29  | 21.34 | 21.26  | 21.9                   |
| 5               | 256QAM | 1  | 12 | 21.52  | 21.43 | 21.60  |                        |
| 5               | 256QAM | 1  | 24 | 21.36  | 21.29 | 21.38  |                        |
| 5               | 256QAM | 12 | 0  | 21.53  | 21.39 | 21.15  | 21.9                   |
| 5               | 256QAM | 12 | 7  | 21.39  | 21.27 | 21.36  |                        |
| 5               | 256QAM | 12 | 13 | 21.52  | 21.24 | 21.33  |                        |
| 5               | 256QAM | 25 | 0  | 21.43  | 21.39 | 21.23  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 23.79                    | 23.99                       | 23.88                     |                        |
| 20              | QPSK       | 1       | 49        | 23.76                    | 23.82                       | 23.84                     | 24.5                   |
| 20              | QPSK       | 1       | 99        | 23.73                    | 23.98                       | 23.85                     |                        |
| 20              | QPSK       | 50      | 0         | 23.75                    | 23.86                       | 23.84                     |                        |
| 20              | QPSK       | 50      | 24        | 23.72                    | 23.80                       | 23.75                     | 24.5                   |
| 20              | QPSK       | 50      | 50        | 23.74                    | 23.76                       | 23.72                     |                        |
| 20              | QPSK       | 100     | 0         | 23.79                    | 23.79                       | 23.66                     |                        |
| 20              | 16QAM      | 1       | 0         | 23.78                    | 23.58                       | 23.52                     | 24.5                   |
| 20              | 16QAM      | 1       | 49        | 23.42                    | 23.31                       | 23.45                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.72                    | 23.65                       | 23.53                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.85                    | 23.84                       | 23.88                     | 24.5                   |
| 20              | 16QAM      | 50      | 24        | 23.97                    | 23.95                       | 23.97                     |                        |
| 20              | 16QAM      | 50      | 50        | 23.86                    | 23.85                       | 23.98                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.94                    | 23.91                       | 23.87                     | 24.5                   |
| 20              | 64QAM      | 1       | 0         | 23.81                    | 23.77                       | 23.73                     |                        |
| 20              | 64QAM      | 1       | 49        | 23.84                    | 23.97                       | 23.75                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.80                    | 23.69                       | 23.84                     | 23.9                   |
| 20              | 64QAM      | 50      | 0         | 22.81                    | 22.95                       | 22.82                     |                        |
| 20              | 64QAM      | 50      | 24        | 22.82                    | 22.91                       | 22.92                     |                        |
| 20              | 64QAM      | 50      | 50        | 22.98                    | 22.83                       | 22.81                     | 21.9                   |
| 20              | 64QAM      | 100     | 0         | 22.94                    | 22.89                       | 22.92                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.28                    | 20.96                       | 20.86                     |                        |
| 20              | 256QAM     | 1       | 49        | 21.04                    | 20.96                       | 21.15                     | 21.9                   |
| 20              | 256QAM     | 1       | 99        | 20.98                    | 20.93                       | 20.85                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.01                    | 21.09                       | 21.14                     |                        |
| 20              | 256QAM     | 50      | 24        | 21.01                    | 21.00                       | 21.13                     | 21.9                   |
| 20              | 256QAM     | 50      | 50        | 20.87                    | 21.11                       | 21.12                     |                        |
| 20              | 256QAM     | 100     | 0         | 20.98                    | 21.00                       | 20.94                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 23.66                    | 23.96                       | 23.61                     |                        |
| 15              | QPSK       | 1       | 37        | 23.84                    | 23.72                       | 23.74                     | 24.5                   |
| 15              | QPSK       | 1       | 74        | 23.81                    | 23.96                       | 23.75                     |                        |
| 15              | QPSK       | 36      | 0         | 23.70                    | 23.79                       | 23.79                     |                        |
| 15              | QPSK       | 36      | 20        | 23.64                    | 23.72                       | 23.63                     | 24.5                   |
| 15              | QPSK       | 36      | 39        | 23.66                    | 23.72                       | 23.61                     |                        |
| 15              | QPSK       | 75      | 0         | 23.61                    | 23.59                       | 23.46                     |                        |
| 15              | 16QAM      | 1       | 0         | 23.53                    | 23.37                       | 23.65                     | 24.5                   |
| 15              | 16QAM      | 1       | 37        | 23.45                    | 23.34                       | 23.47                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.62                    | 23.52                       | 23.41                     |                        |
| 15              | 16QAM      | 36      | 0         | 23.84                    | 23.80                       | 23.72                     | 24.5                   |
| 15              | 16QAM      | 36      | 20        | 23.74                    | 23.91                       | 23.75                     |                        |
| 15              | 16QAM      | 36      | 39        | 23.86                    | 23.73                       | 23.68                     |                        |
| 15              | 16QAM      | 75      | 0         | 23.67                    | 23.91                       | 23.82                     | 24.5                   |
| 15              | 64QAM      | 1       | 0         | 23.64                    | 23.85                       | 23.57                     |                        |
| 15              | 64QAM      | 1       | 37        | 23.84                    | 23.88                       | 23.63                     |                        |
| 15              | 64QAM      | 1       | 74        | 23.74                    | 23.59                       | 23.69                     | 23.9                   |
| 15              | 64QAM      | 36      | 0         | 22.83                    | 22.84                       | 22.74                     |                        |
| 15              | 64QAM      | 36      | 20        | 22.81                    | 22.63                       | 22.69                     |                        |
| 15              | 64QAM      | 36      | 39        | 22.89                    | 22.79                       | 22.76                     | 21.9                   |
| 15              | 64QAM      | 75      | 0         | 22.75                    | 22.67                       | 22.84                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.25                    | 21.01                       | 20.79                     |                        |
| 15              | 256QAM     | 1       | 37        | 20.88                    | 20.80                       | 21.02                     | 21.9                   |
| 15              | 256QAM     | 1       | 74        | 20.79                    | 20.80                       | 20.83                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.98                    | 21.01                       | 21.21                     |                        |
| 15              | 256QAM     | 36      | 20        | 20.95                    | 20.79                       | 20.90                     | 21.9                   |
| 15              | 256QAM     | 36      | 39        | 21.02                    | 21.09                       | 20.95                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 20.93  | 21.09 | 20.87  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 23.63  | 23.84 | 23.77  | 24.5                   |
| 10              | QPSK   | 1  | 25 | 23.76  | 23.74 | 23.70  |                        |
| 10              | QPSK   | 1  | 49 | 23.67  | 23.79 | 23.68  |                        |
| 10              | QPSK   | 25 | 0  | 23.56  | 23.86 | 23.68  | 24.5                   |
| 10              | QPSK   | 25 | 12 | 23.68  | 23.72 | 23.58  |                        |
| 10              | QPSK   | 25 | 25 | 23.64  | 23.70 | 23.56  |                        |
| 10              | QPSK   | 50 | 0  | 23.63  | 23.64 | 23.59  | 24.5                   |
| 10              | 16QAM  | 1  | 0  | 23.70  | 23.61 | 23.56  |                        |
| 10              | 16QAM  | 1  | 25 | 23.36  | 23.38 | 23.48  |                        |
| 10              | 16QAM  | 1  | 49 | 23.70  | 23.51 | 23.43  | 24.5                   |
| 10              | 16QAM  | 25 | 0  | 23.89  | 23.80 | 23.73  |                        |
| 10              | 16QAM  | 25 | 12 | 23.95  | 23.82 | 23.76  |                        |
| 10              | 16QAM  | 25 | 25 | 23.88  | 23.81 | 23.71  | 24.5                   |
| 10              | 16QAM  | 50 | 0  | 23.74  | 23.72 | 23.73  |                        |
| 10              | 64QAM  | 1  | 0  | 23.81  | 23.66 | 23.45  |                        |
| 10              | 64QAM  | 1  | 25 | 23.78  | 23.83 | 23.66  | 24.5                   |
| 10              | 64QAM  | 1  | 49 | 23.67  | 23.63 | 23.62  |                        |
| 10              | 64QAM  | 25 | 0  | 22.71  | 22.71 | 22.74  |                        |
| 10              | 64QAM  | 25 | 12 | 22.77  | 22.80 | 22.60  | 23.9                   |
| 10              | 64QAM  | 25 | 25 | 22.97  | 22.59 | 22.76  |                        |
| 10              | 64QAM  | 50 | 0  | 22.68  | 22.83 | 22.82  |                        |
| 10              | 256QAM | 1  | 0  | 21.17  | 20.83 | 20.92  | 21.9                   |
| 10              | 256QAM | 1  | 25 | 21.10  | 20.72 | 21.14  |                        |
| 10              | 256QAM | 1  | 49 | 20.93  | 20.69 | 20.87  |                        |
| 10              | 256QAM | 25 | 0  | 20.84  | 20.98 | 21.02  | 21.9                   |
| 10              | 256QAM | 25 | 12 | 21.10  | 21.04 | 20.95  |                        |
| 10              | 256QAM | 25 | 25 | 20.77  | 21.01 | 20.98  |                        |
| 10              | 256QAM | 50 | 0  | 21.02  | 20.82 | 20.73  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37775  | 38000 | 38225  |                        |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 23.64  | 23.90 | 23.67  | 24.5                   |
| 5               | QPSK   | 1  | 12 | 23.85  | 23.76 | 23.73  |                        |
| 5               | QPSK   | 1  | 24 | 23.71  | 23.84 | 23.77  |                        |
| 5               | QPSK   | 12 | 0  | 23.60  | 23.82 | 23.64  | 24.5                   |
| 5               | QPSK   | 12 | 7  | 23.62  | 23.65 | 23.71  |                        |
| 5               | QPSK   | 12 | 13 | 23.65  | 23.57 | 23.53  |                        |
| 5               | QPSK   | 25 | 0  | 23.74  | 23.60 | 23.56  | 24.5                   |
| 5               | 16QAM  | 1  | 0  | 23.82  | 23.63 | 23.59  |                        |
| 5               | 16QAM  | 1  | 12 | 23.39  | 23.39 | 23.40  |                        |
| 5               | 16QAM  | 1  | 24 | 23.62  | 23.60 | 23.55  | 24.5                   |
| 5               | 16QAM  | 12 | 0  | 23.74  | 23.77 | 23.80  |                        |
| 5               | 16QAM  | 12 | 7  | 23.82  | 23.82 | 23.82  |                        |
| 5               | 16QAM  | 12 | 13 | 23.83  | 23.87 | 23.83  | 24.5                   |
| 5               | 16QAM  | 25 | 0  | 23.77  | 23.90 | 23.81  |                        |
| 5               | 64QAM  | 1  | 0  | 23.86  | 23.70 | 23.51  |                        |
| 5               | 64QAM  | 1  | 12 | 23.71  | 23.86 | 23.50  | 24.5                   |
| 5               | 64QAM  | 1  | 24 | 23.66  | 23.63 | 23.77  |                        |
| 5               | 64QAM  | 12 | 0  | 22.65  | 22.75 | 22.62  |                        |
| 5               | 64QAM  | 12 | 7  | 22.92  | 22.78 | 22.56  | 23.9                   |
| 5               | 64QAM  | 12 | 13 | 22.93  | 22.80 | 22.82  |                        |
| 5               | 64QAM  | 25 | 0  | 22.82  | 22.76 | 22.77  |                        |
| 5               | 256QAM | 1  | 0  | 21.23  | 20.92 | 20.70  | 21.9                   |
| 5               | 256QAM | 1  | 12 | 20.88  | 20.91 | 21.17  |                        |
| 5               | 256QAM | 1  | 24 | 21.07  | 20.93 | 20.81  |                        |
| 5               | 256QAM | 12 | 0  | 20.80  | 20.97 | 21.04  | 21.9                   |
| 5               | 256QAM | 12 | 7  | 20.96  | 21.03 | 21.02  |                        |
| 5               | 256QAM | 12 | 13 | 21.03  | 21.00 | 21.01  |                        |
| 5               | 256QAM | 25 | 0  | 21.00  | 21.00 | 20.84  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |                        |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |
| 20              | QPSK       | 1       | 0         | 24.35                    | 24.32                       | 24.53                     |                        |
| 20              | QPSK       | 1       | 49        | 24.21                    | 24.21                       | 24.44                     | 25                     |
| 20              | QPSK       | 1       | 99        | 24.25                    | 24.23                       | 24.43                     |                        |
| 20              | QPSK       | 50      | 0         | 24.31                    | 24.24                       | 24.52                     |                        |
| 20              | QPSK       | 50      | 24        | 24.19                    | 24.15                       | 24.32                     | 25                     |
| 20              | QPSK       | 50      | 50        | 24.25                    | 24.17                       | 24.42                     |                        |
| 20              | QPSK       | 100     | 0         | 24.28                    | 24.19                       | 24.44                     |                        |
| 20              | 16QAM      | 1       | 0         | 24.44                    | 24.31                       | 24.45                     | 25                     |
| 20              | 16QAM      | 1       | 49        | 24.19                    | 24.20                       | 24.40                     |                        |
| 20              | 16QAM      | 1       | 99        | 24.38                    | 24.31                       | 24.44                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.10                    | 23.30                       | 23.73                     | 24.9                   |
| 20              | 16QAM      | 50      | 24        | 23.28                    | 23.12                       | 23.25                     |                        |
| 20              | 16QAM      | 50      | 50        | 23.27                    | 23.38                       | 23.32                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.37                    | 23.19                       | 23.52                     | 24.9                   |
| 20              | 64QAM      | 1       | 0         | 23.22                    | 23.45                       | 23.56                     |                        |
| 20              | 64QAM      | 1       | 49        | 23.06                    | 23.24                       | 23.44                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.25                    | 23.21                       | 23.28                     | 23.9                   |
| 20              | 64QAM      | 50      | 0         | 22.49                    | 22.32                       | 22.69                     |                        |
| 20              | 64QAM      | 50      | 24        | 22.29                    | 22.53                       | 22.51                     |                        |
| 20              | 64QAM      | 50      | 50        | 22.26                    | 22.13                       | 22.51                     | 21.9                   |
| 20              | 64QAM      | 100     | 0         | 22.39                    | 22.12                       | 22.58                     |                        |
| 20              | 256QAM     | 1       | 0         | 20.57                    | 20.47                       | 20.88                     |                        |
| 20              | 256QAM     | 1       | 49        | 20.32                    | 20.36                       | 20.74                     | 21.9                   |
| 20              | 256QAM     | 1       | 99        | 20.55                    | 20.63                       | 20.81                     |                        |
| 20              | 256QAM     | 50      | 0         | 20.57                    | 20.44                       | 20.65                     |                        |
| 20              | 256QAM     | 50      | 24        | 20.49                    | 20.60                       | 20.84                     | 21.9                   |
| 20              | 256QAM     | 50      | 50        | 20.63                    | 20.50                       | 20.55                     |                        |
| 20              | 256QAM     | 100     | 0         | 20.54                    | 20.43                       | 20.86                     |                        |
| Channel         |            |         |           | 37825                    | 38000                       | 38175                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                   | 2595                        | 2612.5                    |                        |
| 15              | QPSK       | 1       | 0         | 24.34                    | 24.12                       | 24.44                     |                        |
| 15              | QPSK       | 1       | 37        | 23.98                    | 24.01                       | 24.46                     | 25                     |
| 15              | QPSK       | 1       | 74        | 24.22                    | 24.04                       | 24.49                     |                        |
| 15              | QPSK       | 36      | 0         | 24.25                    | 24.04                       | 24.44                     |                        |
| 15              | QPSK       | 36      | 20        | 24.14                    | 24.09                       | 24.23                     | 25                     |
| 15              | QPSK       | 36      | 39        | 24.24                    | 24.05                       | 24.37                     |                        |
| 15              | QPSK       | 75      | 0         | 24.16                    | 23.96                       | 24.18                     |                        |
| 15              | 16QAM      | 1       | 0         | 24.34                    | 24.33                       | 24.32                     | 25                     |
| 15              | 16QAM      | 1       | 37        | 24.07                    | 24.02                       | 24.35                     |                        |
| 15              | 16QAM      | 1       | 74        | 24.18                    | 24.17                       | 24.35                     |                        |
| 15              | 16QAM      | 36      | 0         | 23.43                    | 23.37                       | 23.49                     | 24.9                   |
| 15              | 16QAM      | 36      | 20        | 23.19                    | 23.14                       | 23.25                     |                        |
| 15              | 16QAM      | 36      | 39        | 23.43                    | 23.37                       | 23.28                     |                        |
| 15              | 16QAM      | 75      | 0         | 23.37                    | 23.44                       | 23.34                     | 24.9                   |
| 15              | 64QAM      | 1       | 0         | 23.43                    | 22.99                       | 23.58                     |                        |
| 15              | 64QAM      | 1       | 37        | 23.06                    | 23.06                       | 23.29                     |                        |
| 15              | 64QAM      | 1       | 74        | 23.12                    | 23.01                       | 23.28                     | 23.9                   |
| 15              | 64QAM      | 36      | 0         | 22.14                    | 22.07                       | 22.31                     |                        |
| 15              | 64QAM      | 36      | 20        | 22.19                    | 22.41                       | 22.21                     |                        |
| 15              | 64QAM      | 36      | 39        | 22.33                    | 22.25                       | 22.02                     | 21.9                   |
| 15              | 64QAM      | 75      | 0         | 22.04                    | 22.27                       | 22.59                     |                        |
| 15              | 256QAM     | 1       | 0         | 20.70                    | 20.54                       | 20.49                     |                        |
| 15              | 256QAM     | 1       | 37        | 20.16                    | 19.98                       | 20.55                     | 21.9                   |
| 15              | 256QAM     | 1       | 74        | 20.54                    | 20.51                       | 20.54                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.69                    | 20.19                       | 20.57                     |                        |
| 15              | 256QAM     | 36      | 20        | 20.30                    | 20.66                       | 20.58                     | 21.9                   |
| 15              | 256QAM     | 36      | 39        | 20.23                    | 20.40                       | 20.38                     |                        |



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|                 |        |    |    |        |       |        |                        |
|-----------------|--------|----|----|--------|-------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 20.51  | 20.39 | 20.74  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 37800  | 38000 | 38200  |                        |
| Frequency (MHz) |        |    |    | 2575   | 2595  | 2615   |                        |
| 10              | QPSK   | 1  | 0  | 24.32  | 24.26 | 24.39  | 25                     |
| 10              | QPSK   | 1  | 25 | 24.11  | 24.16 | 24.45  |                        |
| 10              | QPSK   | 1  | 49 | 24.23  | 24.04 | 24.37  |                        |
| 10              | QPSK   | 25 | 0  | 24.13  | 24.22 | 24.32  | 25                     |
| 10              | QPSK   | 25 | 12 | 24.09  | 24.12 | 24.14  |                        |
| 10              | QPSK   | 25 | 25 | 24.06  | 24.16 | 24.25  |                        |
| 10              | QPSK   | 50 | 0  | 24.14  | 24.16 | 24.26  | 25                     |
| 10              | 16QAM  | 1  | 0  | 24.45  | 24.24 | 24.39  |                        |
| 10              | 16QAM  | 1  | 25 | 24.10  | 24.06 | 24.42  |                        |
| 10              | 16QAM  | 1  | 49 | 24.29  | 24.24 | 24.36  | 24.9                   |
| 10              | 16QAM  | 25 | 0  | 22.92  | 23.25 | 23.39  |                        |
| 10              | 16QAM  | 25 | 12 | 23.01  | 23.05 | 23.10  |                        |
| 10              | 16QAM  | 25 | 25 | 23.06  | 23.14 | 23.41  | 24.9                   |
| 10              | 16QAM  | 50 | 0  | 23.34  | 23.34 | 23.65  |                        |
| 10              | 64QAM  | 1  | 0  | 22.98  | 23.35 | 23.46  |                        |
| 10              | 64QAM  | 1  | 25 | 22.94  | 23.04 | 23.12  | 24.9                   |
| 10              | 64QAM  | 1  | 49 | 23.08  | 23.21 | 23.03  |                        |
| 10              | 64QAM  | 25 | 0  | 22.19  | 22.11 | 22.30  | 23.9                   |
| 10              | 64QAM  | 25 | 12 | 22.16  | 22.16 | 22.15  |                        |
| 10              | 64QAM  | 25 | 25 | 22.19  | 22.00 | 22.22  |                        |
| 10              | 64QAM  | 50 | 0  | 22.28  | 22.25 | 22.32  | 21.9                   |
| 10              | 256QAM | 1  | 0  | 20.46  | 20.48 | 20.51  |                        |
| 10              | 256QAM | 1  | 25 | 20.22  | 20.09 | 20.32  |                        |
| 10              | 256QAM | 1  | 49 | 20.37  | 20.25 | 20.61  | 21.9                   |
| 10              | 256QAM | 25 | 0  | 20.39  | 20.56 | 20.45  |                        |
| 10              | 256QAM | 25 | 12 | 20.37  | 20.37 | 20.47  |                        |
| 10              | 256QAM | 25 | 25 | 20.23  | 20.38 | 20.72  | 21.9                   |
| 10              | 256QAM | 50 | 0  | 20.72  | 20.52 | 20.53  |                        |
| Channel         |        |    |    | 37775  | 38000 | 38225  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2572.5 | 2595  | 2617.5 |                        |
| 5               | QPSK   | 1  | 0  | 24.33  | 24.31 | 24.41  |                        |
| 5               | QPSK   | 1  | 12 | 24.00  | 23.99 | 24.43  | 25                     |
| 5               | QPSK   | 1  | 24 | 24.13  | 24.10 | 24.38  |                        |
| 5               | QPSK   | 12 | 0  | 24.10  | 24.10 | 24.39  | 25                     |
| 5               | QPSK   | 12 | 7  | 24.12  | 24.02 | 24.24  |                        |
| 5               | QPSK   | 12 | 13 | 24.09  | 24.09 | 24.26  | 25                     |
| 5               | QPSK   | 25 | 0  | 24.19  | 23.96 | 24.23  |                        |
| 5               | 16QAM  | 1  | 0  | 24.47  | 24.32 | 24.34  | 25                     |
| 5               | 16QAM  | 1  | 12 | 24.02  | 24.10 | 24.25  |                        |
| 5               | 16QAM  | 1  | 24 | 24.19  | 24.27 | 24.32  |                        |
| 5               | 16QAM  | 12 | 0  | 23.23  | 22.95 | 23.36  | 24.9                   |
| 5               | 16QAM  | 12 | 7  | 23.11  | 23.14 | 23.38  |                        |
| 5               | 16QAM  | 12 | 13 | 23.03  | 23.21 | 23.20  |                        |
| 5               | 16QAM  | 25 | 0  | 23.28  | 23.11 | 23.56  | 24.9                   |
| 5               | 64QAM  | 1  | 0  | 23.35  | 23.11 | 23.38  |                        |
| 5               | 64QAM  | 1  | 12 | 22.91  | 23.15 | 22.96  |                        |
| 5               | 64QAM  | 1  | 24 | 23.09  | 22.95 | 23.25  | 23.9                   |
| 5               | 64QAM  | 12 | 0  | 22.17  | 21.96 | 22.19  |                        |
| 5               | 64QAM  | 12 | 7  | 21.92  | 22.35 | 22.51  |                        |
| 5               | 64QAM  | 12 | 13 | 22.12  | 22.16 | 22.38  | 21.9                   |
| 5               | 64QAM  | 25 | 0  | 22.43  | 22.04 | 22.68  |                        |
| 5               | 256QAM | 1  | 0  | 20.66  | 20.22 | 20.81  |                        |
| 5               | 256QAM | 1  | 12 | 20.46  | 20.30 | 20.41  | 21.9                   |
| 5               | 256QAM | 1  | 24 | 20.21  | 20.28 | 20.83  |                        |
| 5               | 256QAM | 12 | 0  | 20.15  | 20.35 | 20.60  |                        |
| 5               | 256QAM | 12 | 7  | 20.49  | 20.24 | 20.53  | 21.9                   |
| 5               | 256QAM | 12 | 13 | 20.58  | 20.33 | 20.43  |                        |
| 5               | 256QAM | 25 | 0  | 20.32  | 20.50 | 20.77  |                        |



&lt;LTE Band 41\_Ant 2\_Index 7/8&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 24.20                 | 24.26                        | 24.28                    | 24.26                         | 24.11                  | 25.1                |
| 20              | QPSK       | 1       | 49        | 24.19                 | 24.21                        | 24.23                    | 24.17                         | 24.06                  |                     |
| 20              | QPSK       | 1       | 99        | 24.19                 | 24.25                        | 24.23                    | 24.20                         | 24.02                  |                     |
| 20              | QPSK       | 50      | 0         | 23.23                 | 23.26                        | 23.28                    | 23.23                         | 23.04                  | 24.1                |
| 20              | QPSK       | 50      | 24        | 23.22                 | 23.25                        | 23.26                    | 23.20                         | 23.01                  |                     |
| 20              | QPSK       | 50      | 50        | 23.20                 | 23.24                        | 23.24                    | 23.22                         | 23.00                  |                     |
| 20              | QPSK       | 100     | 0         | 23.20                 | 23.25                        | 23.25                    | 23.21                         | 23.02                  | 24.1                |
| 20              | 16QAM      | 1       | 0         | 22.27                 | 22.33                        | 22.36                    | 22.27                         | 22.14                  |                     |
| 20              | 16QAM      | 1       | 49        | 22.17                 | 22.22                        | 22.22                    | 22.12                         | 22.12                  |                     |
| 20              | 16QAM      | 1       | 99        | 22.20                 | 22.26                        | 22.27                    | 22.23                         | 22.11                  | 23.1                |
| 20              | 16QAM      | 50      | 0         | 22.20                 | 22.23                        | 22.23                    | 22.20                         | 22.03                  |                     |
| 20              | 16QAM      | 50      | 24        | 22.21                 | 22.24                        | 22.22                    | 22.21                         | 22.03                  |                     |
| 20              | 16QAM      | 50      | 50        | 22.20                 | 22.21                        | 22.22                    | 22.19                         | 22.01                  | 23.1                |
| 20              | 16QAM      | 100     | 0         | 22.24                 | 22.25                        | 22.26                    | 22.22                         | 22.09                  |                     |
| 20              | 64QAM      | 1       | 0         | 22.05                 | 22.16                        | 22.02                    | 22.03                         | 22.03                  |                     |
| 20              | 64QAM      | 1       | 49        | 22.00                 | 22.13                        | 21.96                    | 21.96                         | 21.96                  | 22.1                |
| 20              | 64QAM      | 1       | 99        | 22.02                 | 22.15                        | 22.06                    | 21.95                         | 21.90                  |                     |
| 20              | 64QAM      | 50      | 0         | 21.20                 | 21.24                        | 21.22                    | 21.20                         | 21.08                  |                     |
| 20              | 64QAM      | 50      | 24        | 21.19                 | 21.22                        | 21.25                    | 21.26                         | 21.01                  | 20.1                |
| 20              | 64QAM      | 50      | 50        | 21.18                 | 21.24                        | 21.28                    | 21.23                         | 21.03                  |                     |
| 20              | 64QAM      | 100     | 0         | 21.21                 | 21.26                        | 21.28                    | 21.21                         | 21.07                  |                     |
| 20              | 256QAM     | 1       | 0         | 19.45                 | 19.51                        | 19.46                    | 19.38                         | 19.42                  | 20.1                |
| 20              | 256QAM     | 1       | 49        | 19.35                 | 19.49                        | 19.38                    | 19.33                         | 19.37                  |                     |
| 20              | 256QAM     | 1       | 99        | 19.40                 | 19.51                        | 19.44                    | 19.35                         | 19.32                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.15                 | 19.20                        | 19.25                    | 19.24                         | 19.04                  | 20.1                |
| 20              | 256QAM     | 50      | 24        | 19.19                 | 19.20                        | 19.23                    | 19.22                         | 19.02                  |                     |
| 20              | 256QAM     | 50      | 50        | 19.19                 | 19.28                        | 19.30                    | 19.23                         | 19.03                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.25                 | 19.30                        | 19.28                    | 19.21                         | 19.08                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  |                     |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 24.01                 | 24.07                        | 24.16                    | 24.14                         | 23.92                  | 25.10               |
| 15              | QPSK       | 1       | 37        | 24.03                 | 24.04                        | 24.07                    | 23.98                         | 24.01                  |                     |
| 15              | QPSK       | 1       | 74        | 24.13                 | 24.12                        | 24.22                    | 24.03                         | 23.99                  |                     |
| 15              | QPSK       | 36      | 0         | 23.17                 | 23.21                        | 23.28                    | 23.20                         | 22.88                  | 24.1                |
| 15              | QPSK       | 36      | 20        | 23.18                 | 23.24                        | 23.12                    | 23.05                         | 22.83                  |                     |
| 15              | QPSK       | 36      | 39        | 23.15                 | 23.12                        | 23.08                    | 23.18                         | 22.89                  |                     |
| 15              | QPSK       | 75      | 0         | 23.13                 | 23.19                        | 23.13                    | 23.03                         | 23.01                  | 24.1                |
| 15              | 16QAM      | 1       | 0         | 22.17                 | 22.17                        | 22.27                    | 22.17                         | 22.13                  |                     |
| 15              | 16QAM      | 1       | 37        | 22.12                 | 22.21                        | 22.10                    | 22.14                         | 22.11                  |                     |
| 15              | 16QAM      | 1       | 74        | 22.14                 | 22.14                        | 22.13                    | 22.22                         | 22.12                  | 23.1                |
| 15              | 16QAM      | 36      | 0         | 22.01                 | 22.05                        | 22.12                    | 22.15                         | 21.88                  |                     |
| 15              | 16QAM      | 36      | 20        | 22.20                 | 22.19                        | 22.10                    | 22.09                         | 21.98                  |                     |
| 15              | 16QAM      | 36      | 39        | 22.01                 | 22.07                        | 22.11                    | 22.10                         | 21.99                  | 23.1                |
| 15              | 16QAM      | 75      | 0         | 22.13                 | 22.25                        | 22.07                    | 22.12                         | 21.89                  |                     |
| 15              | 64QAM      | 1       | 0         | 22.01                 | 22.08                        | 21.88                    | 21.85                         | 21.86                  |                     |
| 15              | 64QAM      | 1       | 37        | 21.86                 | 21.99                        | 21.95                    | 21.80                         | 21.88                  | 22.1                |
| 15              | 64QAM      | 1       | 74        | 21.84                 | 22.07                        | 21.95                    | 21.89                         | 21.76                  |                     |
| 15              | 64QAM      | 36      | 0         | 21.19                 | 21.14                        | 21.04                    | 21.07                         | 20.99                  |                     |
| 15              | 64QAM      | 36      | 20        | 21.15                 | 21.19                        | 21.20                    | 21.14                         | 21.01                  | 20.1                |
| 15              | 64QAM      | 36      | 39        | 21.17                 | 21.10                        | 21.23                    | 21.09                         | 20.95                  |                     |
| 15              | 64QAM      | 75      | 0         | 21.08                 | 21.26                        | 21.10                    | 21.11                         | 21.06                  |                     |
| 15              | 256QAM     | 1       | 0         | 19.45                 | 19.51                        | 19.34                    | 19.36                         | 19.38                  | 20.1                |
| 15              | 256QAM     | 1       | 37        | 19.32                 | 19.33                        | 19.26                    | 19.21                         | 19.23                  |                     |
| 15              | 256QAM     | 1       | 74        | 19.32                 | 19.38                        | 19.39                    | 19.35                         | 19.24                  |                     |
| 15              | 256QAM     | 36      | 0         | 19.10                 | 19.13                        | 19.14                    | 19.18                         | 19.03                  | 20.1                |
| 15              | 256QAM     | 36      | 20        | 19.13                 | 19.09                        | 19.09                    | 19.14                         | 18.85                  |                     |
| 15              | 256QAM     | 36      | 39        | 19.02                 | 19.10                        | 19.16                    | 19.14                         | 18.95                  |                     |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.05  | 19.21  | 19.27 | 19.19   | 18.88  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 24.10  | 24.13  | 24.14 | 24.19   | 24.04  | 25.10         |
| 10              | QPSK   | 1  | 25 | 24.07  | 24.13  | 24.10 | 24.11   | 24.06  |               |
| 10              | QPSK   | 1  | 49 | 24.08  | 24.06  | 24.09 | 24.10   | 23.85  |               |
| 10              | QPSK   | 25 | 0  | 23.05  | 23.22  | 23.27 | 23.03   | 22.87  | 24.1          |
| 10              | QPSK   | 25 | 12 | 23.16  | 23.14  | 23.18 | 23.20   | 22.86  |               |
| 10              | QPSK   | 25 | 25 | 23.19  | 23.18  | 23.22 | 23.15   | 22.92  |               |
| 10              | QPSK   | 50 | 0  | 23.12  | 23.16  | 23.22 | 23.14   | 22.96  | 24.1          |
| 10              | 16QAM  | 1  | 0  | 22.11  | 22.15  | 22.36 | 22.19   | 22.17  |               |
| 10              | 16QAM  | 1  | 25 | 22.16  | 22.21  | 22.14 | 22.12   | 22.11  |               |
| 10              | 16QAM  | 1  | 49 | 22.20  | 22.12  | 22.10 | 22.13   | 22.12  | 23.1          |
| 10              | 16QAM  | 25 | 0  | 22.16  | 22.13  | 22.05 | 22.01   | 21.86  |               |
| 10              | 16QAM  | 25 | 12 | 22.21  | 22.15  | 22.11 | 22.21   | 21.98  |               |
| 10              | 16QAM  | 25 | 25 | 22.00  | 22.20  | 22.21 | 22.17   | 22.01  | 23.1          |
| 10              | 16QAM  | 50 | 0  | 22.12  | 22.11  | 22.25 | 22.16   | 21.97  |               |
| 10              | 64QAM  | 1  | 0  | 21.98  | 22.11  | 21.93 | 21.90   | 21.88  |               |
| 10              | 64QAM  | 1  | 25 | 21.93  | 21.97  | 21.88 | 21.89   | 21.96  | 23.1          |
| 10              | 64QAM  | 1  | 49 | 21.97  | 22.01  | 21.92 | 21.90   | 21.88  |               |
| 10              | 64QAM  | 25 | 0  | 21.20  | 21.15  | 21.20 | 21.20   | 20.97  |               |
| 10              | 64QAM  | 25 | 12 | 21.06  | 21.14  | 21.09 | 21.19   | 20.82  | 22.1          |
| 10              | 64QAM  | 25 | 25 | 21.00  | 21.10  | 21.15 | 21.19   | 21.03  |               |
| 10              | 64QAM  | 50 | 0  | 21.18  | 21.08  | 21.24 | 21.16   | 20.99  |               |
| 10              | 256QAM | 1  | 0  | 19.32  | 19.35  | 19.45 | 19.23   | 19.35  | 20.1          |
| 10              | 256QAM | 1  | 25 | 19.32  | 19.32  | 19.32 | 19.22   | 19.27  |               |
| 10              | 256QAM | 1  | 49 | 19.33  | 19.37  | 19.28 | 19.25   | 19.13  |               |
| 10              | 256QAM | 25 | 0  | 19.06  | 19.06  | 19.06 | 19.21   | 18.94  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.04  | 19.05  | 19.21 | 19.08   | 18.82  |               |
| 10              | 256QAM | 25 | 25 | 19.00  | 19.21  | 19.10 | 19.18   | 18.87  |               |
| 10              | 256QAM | 50 | 0  | 19.08  | 19.18  | 19.11 | 19.20   | 19.08  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 24.01  | 24.14  | 24.27 | 24.24   | 23.98  | 25.10         |
| 5               | QPSK   | 1  | 12 | 24.19  | 24.15  | 24.18 | 24.15   | 24.00  |               |
| 5               | QPSK   | 1  | 24 | 24.03  | 24.08  | 24.13 | 24.15   | 23.94  |               |
| 5               | QPSK   | 12 | 0  | 23.03  | 23.16  | 23.18 | 23.05   | 22.87  | 24.1          |
| 5               | QPSK   | 12 | 7  | 23.15  | 23.20  | 23.07 | 23.17   | 22.95  |               |
| 5               | QPSK   | 12 | 13 | 23.17  | 23.04  | 23.09 | 23.06   | 22.93  |               |
| 5               | QPSK   | 25 | 0  | 23.18  | 23.18  | 23.12 | 23.13   | 23.00  | 24.1          |
| 5               | 16QAM  | 1  | 0  | 22.19  | 22.15  | 22.25 | 22.26   | 22.13  |               |
| 5               | 16QAM  | 1  | 12 | 22.11  | 22.15  | 22.14 | 22.13   | 22.15  |               |
| 5               | 16QAM  | 1  | 24 | 22.10  | 22.26  | 22.12 | 22.20   | 22.12  | 23.1          |
| 5               | 16QAM  | 12 | 0  | 22.04  | 22.05  | 22.19 | 22.05   | 21.93  |               |
| 5               | 16QAM  | 12 | 7  | 22.14  | 22.22  | 22.04 | 22.10   | 21.94  |               |
| 5               | 16QAM  | 12 | 13 | 22.02  | 22.17  | 22.08 | 22.09   | 21.91  | 23.1          |
| 5               | 16QAM  | 25 | 0  | 22.20  | 22.18  | 22.09 | 22.02   | 21.89  |               |
| 5               | 64QAM  | 1  | 0  | 22.02  | 22.00  | 21.89 | 22.02   | 21.94  |               |
| 5               | 64QAM  | 1  | 12 | 21.83  | 22.06  | 21.86 | 21.93   | 21.91  | 22.1          |
| 5               | 64QAM  | 1  | 24 | 21.85  | 21.98  | 21.90 | 21.90   | 21.75  |               |
| 5               | 64QAM  | 12 | 0  | 21.12  | 21.14  | 21.16 | 21.00   | 20.98  |               |
| 5               | 64QAM  | 12 | 7  | 21.03  | 21.15  | 21.09 | 21.20   | 20.93  | 20.1          |
| 5               | 64QAM  | 12 | 13 | 20.98  | 21.20  | 21.27 | 21.06   | 21.02  |               |
| 5               | 64QAM  | 25 | 0  | 21.05  | 21.08  | 21.23 | 21.16   | 20.96  |               |
| 5               | 256QAM | 1  | 0  | 19.25  | 19.37  | 19.38 | 19.29   | 19.36  | 20.1          |
| 5               | 256QAM | 1  | 12 | 19.26  | 19.37  | 19.27 | 19.33   | 19.20  |               |
| 5               | 256QAM | 1  | 24 | 19.35  | 19.36  | 19.26 | 19.16   | 19.23  |               |
| 5               | 256QAM | 12 | 0  | 19.06  | 19.20  | 19.24 | 19.24   | 18.90  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.01  | 19.05  | 19.23 | 19.17   | 19.00  |               |
| 5               | 256QAM | 12 | 13 | 19.10  | 19.27  | 19.30 | 19.21   | 18.93  |               |
| 5               | 256QAM | 25 | 0  | 19.16  | 19.17  | 19.17 | 19.01   | 19.02  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 20.05                 | 20.06                        | 20.08                    | 19.82                         | 19.74                  | 20.4                |
| 20              | QPSK       | 1       | 49        | 19.92                 | 20.03                        | 19.90                    | 19.68                         | 19.69                  |                     |
| 20              | QPSK       | 1       | 99        | 19.95                 | 20.00                        | 20.01                    | 19.69                         | 19.59                  |                     |
| 20              | QPSK       | 50      | 0         | 20.01                 | 20.03                        | 20.06                    | 19.83                         | 19.72                  | 20.4                |
| 20              | QPSK       | 50      | 24        | 19.95                 | 20.01                        | 19.98                    | 19.82                         | 19.72                  |                     |
| 20              | QPSK       | 50      | 50        | 19.99                 | 19.99                        | 20.04                    | 19.82                         | 19.56                  |                     |
| 20              | QPSK       | 100     | 0         | 19.86                 | 20.00                        | 20.02                    | 19.75                         | 19.61                  |                     |
| 20              | 16QAM      | 1       | 0         | 19.95                 | 19.98                        | 20.02                    | 19.73                         | 19.73                  | 20.4                |
| 20              | 16QAM      | 1       | 49        | 19.88                 | 19.91                        | 19.90                    | 19.73                         | 19.72                  |                     |
| 20              | 16QAM      | 1       | 99        | 20.03                 | 19.85                        | 19.99                    | 19.62                         | 19.59                  |                     |
| 20              | 16QAM      | 50      | 0         | 20.04                 | 19.92                        | 19.90                    | 19.74                         | 19.57                  |                     |
| 20              | 16QAM      | 50      | 24        | 19.90                 | 20.00                        | 19.95                    | 19.74                         | 19.73                  | 20.4                |
| 20              | 16QAM      | 50      | 50        | 19.95                 | 19.88                        | 19.97                    | 19.63                         | 19.63                  |                     |
| 20              | 16QAM      | 100     | 0         | 19.86                 | 19.83                        | 19.95                    | 19.72                         | 19.73                  |                     |
| 20              | 64QAM      | 1       | 0         | 20.03                 | 19.98                        | 20.07                    | 19.65                         | 19.54                  | 20.4                |
| 20              | 64QAM      | 1       | 49        | 20.00                 | 19.97                        | 20.01                    | 19.71                         | 19.59                  |                     |
| 20              | 64QAM      | 1       | 99        | 19.90                 | 20.00                        | 19.97                    | 19.82                         | 19.64                  |                     |
| 20              | 64QAM      | 50      | 0         | 19.86                 | 20.03                        | 19.89                    | 19.70                         | 19.62                  | 20.4                |
| 20              | 64QAM      | 50      | 24        | 19.99                 | 19.95                        | 19.94                    | 19.80                         | 19.59                  |                     |
| 20              | 64QAM      | 50      | 50        | 20.05                 | 19.94                        | 20.07                    | 19.78                         | 19.72                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.90                 | 19.89                        | 19.90                    | 19.71                         | 19.65                  |                     |
| 20              | 256QAM     | 1       | 0         | 19.41                 | 19.53                        | 19.42                    | 19.13                         | 19.18                  | 20.1                |
| 20              | 256QAM     | 1       | 49        | 19.38                 | 19.45                        | 19.39                    | 19.19                         | 19.17                  |                     |
| 20              | 256QAM     | 1       | 99        | 19.47                 | 19.49                        | 19.51                    | 19.29                         | 19.08                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.36                 | 19.51                        | 19.56                    | 19.20                         | 19.06                  | 20.1                |
| 20              | 256QAM     | 50      | 24        | 19.41                 | 19.47                        | 19.51                    | 19.18                         | 19.07                  |                     |
| 20              | 256QAM     | 50      | 50        | 19.41                 | 19.49                        | 19.46                    | 19.16                         | 19.04                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.41                 | 19.49                        | 19.46                    | 19.16                         | 19.04                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 19.99                 | 19.90                        | 19.98                    | 19.81                         | 19.71                  | 20.40               |
| 15              | QPSK       | 1       | 37        | 19.72                 | 19.98                        | 19.73                    | 19.50                         | 19.67                  |                     |
| 15              | QPSK       | 1       | 74        | 19.82                 | 19.80                        | 19.88                    | 19.56                         | 19.43                  |                     |
| 15              | QPSK       | 36      | 0         | 19.98                 | 19.85                        | 20.04                    | 19.81                         | 19.72                  | 20.4                |
| 15              | QPSK       | 36      | 20        | 19.83                 | 19.95                        | 19.88                    | 19.66                         | 19.54                  |                     |
| 15              | QPSK       | 36      | 39        | 19.81                 | 19.90                        | 20.02                    | 19.81                         | 19.47                  |                     |
| 15              | QPSK       | 75      | 0         | 19.73                 | 19.92                        | 19.89                    | 19.63                         | 19.56                  |                     |
| 15              | 16QAM      | 1       | 0         | 19.95                 | 19.87                        | 19.93                    | 19.72                         | 19.72                  | 20.4                |
| 15              | 16QAM      | 1       | 37        | 19.70                 | 19.74                        | 19.85                    | 19.73                         | 19.67                  |                     |
| 15              | 16QAM      | 1       | 74        | 19.97                 | 19.74                        | 19.92                    | 19.61                         | 19.57                  |                     |
| 15              | 16QAM      | 36      | 0         | 19.98                 | 19.89                        | 19.86                    | 19.61                         | 19.41                  | 20.4                |
| 15              | 16QAM      | 36      | 20        | 19.83                 | 19.88                        | 19.90                    | 19.70                         | 19.57                  |                     |
| 15              | 16QAM      | 36      | 39        | 19.84                 | 19.70                        | 19.82                    | 19.59                         | 19.52                  |                     |
| 15              | 16QAM      | 75      | 0         | 19.83                 | 19.67                        | 19.78                    | 19.52                         | 19.71                  |                     |
| 15              | 64QAM      | 1       | 0         | 19.86                 | 19.81                        | 20.03                    | 19.53                         | 19.35                  | 20.4                |
| 15              | 64QAM      | 1       | 37        | 19.88                 | 19.89                        | 19.95                    | 19.67                         | 19.55                  |                     |
| 15              | 64QAM      | 1       | 74        | 19.83                 | 19.96                        | 19.79                    | 19.82                         | 19.45                  |                     |
| 15              | 64QAM      | 36      | 0         | 19.80                 | 20.03                        | 19.80                    | 19.62                         | 19.59                  | 20.4                |
| 15              | 64QAM      | 36      | 20        | 19.96                 | 19.89                        | 19.78                    | 19.73                         | 19.55                  |                     |
| 15              | 64QAM      | 36      | 39        | 19.85                 | 19.74                        | 20.01                    | 19.70                         | 19.70                  |                     |
| 15              | 64QAM      | 75      | 0         | 19.87                 | 19.71                        | 19.89                    | 19.59                         | 19.52                  |                     |
| 15              | 256QAM     | 1       | 0         | 19.38                 | 19.41                        | 19.31                    | 19.07                         | 19.15                  | 20.1                |
| 15              | 256QAM     | 1       | 37        | 19.30                 | 19.41                        | 19.32                    | 19.10                         | 19.05                  |                     |
| 15              | 256QAM     | 1       | 74        | 19.45                 | 19.43                        | 19.31                    | 19.22                         | 18.96                  |                     |
| 15              | 256QAM     | 36      | 0         | 19.29                 | 19.32                        | 19.38                    | 19.18                         | 18.87                  | 20.1                |
| 15              | 256QAM     | 36      | 20        | 19.40                 | 19.46                        | 19.36                    | 19.00                         | 18.88                  |                     |
| 15              | 256QAM     | 36      | 39        | 19.28                 | 19.30                        | 19.42                    | 19.13                         | 19.03                  |                     |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.28  | 19.37  | 19.31 | 19.00   | 19.02  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 19.92  | 19.96  | 20.04 | 19.74   | 19.66  | 20.40         |
| 10              | QPSK   | 1  | 25 | 19.76  | 19.92  | 19.82 | 19.61   | 19.58  |               |
| 10              | QPSK   | 1  | 49 | 19.91  | 19.81  | 19.89 | 19.52   | 19.54  |               |
| 10              | QPSK   | 25 | 0  | 19.97  | 20.01  | 19.90 | 19.64   | 19.63  | 20.4          |
| 10              | QPSK   | 25 | 12 | 19.78  | 19.84  | 19.88 | 19.66   | 19.59  |               |
| 10              | QPSK   | 25 | 25 | 19.96  | 19.91  | 20.01 | 19.77   | 19.37  |               |
| 10              | QPSK   | 50 | 0  | 19.67  | 19.89  | 20.00 | 19.61   | 19.56  |               |
| 10              | 16QAM  | 1  | 0  | 19.79  | 19.92  | 19.85 | 19.61   | 19.71  | 20.4          |
| 10              | 16QAM  | 1  | 25 | 19.83  | 19.81  | 19.83 | 19.65   | 19.55  |               |
| 10              | 16QAM  | 1  | 49 | 19.88  | 19.65  | 19.83 | 19.55   | 19.42  |               |
| 10              | 16QAM  | 25 | 0  | 20.04  | 19.78  | 19.83 | 19.54   | 19.47  | 20.4          |
| 10              | 16QAM  | 25 | 12 | 19.78  | 19.88  | 19.83 | 19.67   | 19.71  |               |
| 10              | 16QAM  | 25 | 25 | 19.90  | 19.79  | 19.80 | 19.45   | 19.54  |               |
| 10              | 16QAM  | 50 | 0  | 19.81  | 19.80  | 19.84 | 19.57   | 19.72  |               |
| 10              | 64QAM  | 1  | 0  | 19.83  | 19.85  | 19.98 | 19.46   | 19.41  | 20.4          |
| 10              | 64QAM  | 1  | 25 | 19.86  | 19.77  | 19.99 | 19.66   | 19.47  |               |
| 10              | 64QAM  | 1  | 49 | 19.85  | 19.83  | 19.82 | 19.64   | 19.47  |               |
| 10              | 64QAM  | 25 | 0  | 19.66  | 20.01  | 19.72 | 19.52   | 19.51  | 20.4          |
| 10              | 64QAM  | 25 | 12 | 19.97  | 19.81  | 19.94 | 19.65   | 19.52  |               |
| 10              | 64QAM  | 25 | 25 | 19.89  | 19.77  | 20.00 | 19.65   | 19.60  |               |
| 10              | 64QAM  | 50 | 0  | 19.79  | 19.77  | 19.72 | 19.70   | 19.60  |               |
| 10              | 256QAM | 1  | 0  | 19.41  | 19.42  | 19.25 | 18.98   | 19.06  | 20.1          |
| 10              | 256QAM | 1  | 25 | 19.25  | 19.30  | 19.36 | 19.15   | 19.07  |               |
| 10              | 256QAM | 1  | 49 | 19.37  | 19.46  | 19.46 | 19.13   | 19.08  |               |
| 10              | 256QAM | 25 | 0  | 19.19  | 19.42  | 19.43 | 19.07   | 19.06  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.25  | 19.43  | 19.43 | 19.08   | 18.91  |               |
| 10              | 256QAM | 25 | 25 | 19.39  | 19.49  | 19.28 | 18.98   | 18.95  |               |
| 10              | 256QAM | 50 | 0  | 19.32  | 19.45  | 19.33 | 19.14   | 18.92  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 19.93  | 20.03  | 19.92 | 19.69   | 19.62  | 20.40         |
| 5               | QPSK   | 1  | 12 | 19.79  | 19.86  | 19.79 | 19.53   | 19.60  |               |
| 5               | QPSK   | 1  | 24 | 19.88  | 19.88  | 19.95 | 19.56   | 19.47  |               |
| 5               | QPSK   | 12 | 0  | 19.85  | 19.85  | 19.99 | 19.72   | 19.53  | 20.4          |
| 5               | QPSK   | 12 | 7  | 19.77  | 19.83  | 19.96 | 19.65   | 19.64  |               |
| 5               | QPSK   | 12 | 13 | 19.85  | 19.85  | 19.84 | 19.71   | 19.39  |               |
| 5               | QPSK   | 25 | 0  | 19.80  | 19.97  | 19.87 | 19.75   | 19.54  |               |
| 5               | 16QAM  | 1  | 0  | 19.79  | 19.84  | 20.01 | 19.66   | 19.58  | 20.4          |
| 5               | 16QAM  | 1  | 12 | 19.88  | 19.73  | 19.74 | 19.61   | 19.55  |               |
| 5               | 16QAM  | 1  | 24 | 19.86  | 19.67  | 19.91 | 19.58   | 19.41  |               |
| 5               | 16QAM  | 12 | 0  | 19.85  | 19.81  | 19.79 | 19.61   | 19.42  | 20.4          |
| 5               | 16QAM  | 12 | 7  | 19.83  | 19.99  | 19.81 | 19.70   | 19.68  |               |
| 5               | 16QAM  | 12 | 13 | 19.77  | 19.76  | 19.96 | 19.63   | 19.53  |               |
| 5               | 16QAM  | 25 | 0  | 19.83  | 19.64  | 19.81 | 19.62   | 19.59  |               |
| 5               | 64QAM  | 1  | 0  | 20.03  | 19.81  | 20.00 | 19.57   | 19.37  | 20.4          |
| 5               | 64QAM  | 1  | 12 | 19.93  | 19.77  | 19.82 | 19.67   | 19.57  |               |
| 5               | 64QAM  | 1  | 24 | 19.73  | 19.95  | 19.92 | 19.63   | 19.51  |               |
| 5               | 64QAM  | 12 | 0  | 19.85  | 19.84  | 19.72 | 19.56   | 19.59  | 20.4          |
| 5               | 64QAM  | 12 | 7  | 19.94  | 19.78  | 19.74 | 19.73   | 19.50  |               |
| 5               | 64QAM  | 12 | 13 | 20.04  | 19.77  | 19.99 | 19.74   | 19.68  |               |
| 5               | 64QAM  | 25 | 0  | 19.86  | 19.88  | 19.75 | 19.68   | 19.51  |               |
| 5               | 256QAM | 1  | 0  | 19.35  | 19.36  | 19.31 | 18.97   | 19.00  | 20.1          |
| 5               | 256QAM | 1  | 12 | 19.34  | 19.28  | 19.21 | 19.03   | 19.00  |               |
| 5               | 256QAM | 1  | 24 | 19.36  | 19.39  | 19.34 | 19.13   | 18.99  |               |
| 5               | 256QAM | 12 | 0  | 19.28  | 19.47  | 19.54 | 19.08   | 18.87  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.34  | 19.36  | 19.38 | 19.03   | 19.02  |               |
| 5               | 256QAM | 12 | 13 | 19.36  | 19.32  | 19.33 | 19.06   | 18.93  |               |
| 5               | 256QAM | 25 | 0  | 19.26  | 19.48  | 19.29 | 19.15   | 18.97  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 24.30                 | 24.32                        | 24.30                    | 24.24                         | 24.25                  | 25.1                |
| 20              | QPSK       | 1       | 49        | 24.29                 | 24.29                        | 24.28                    | 24.23                         | 24.24                  |                     |
| 20              | QPSK       | 1       | 99        | 24.29                 | 24.28                        | 24.29                    | 24.21                         | 23.91                  |                     |
| 20              | QPSK       | 50      | 0         | 23.30                 | 23.35                        | 23.25                    | 23.21                         | 23.19                  | 24.1                |
| 20              | QPSK       | 50      | 24        | 23.29                 | 23.29                        | 23.22                    | 23.20                         | 23.18                  |                     |
| 20              | QPSK       | 50      | 50        | 23.28                 | 23.30                        | 23.23                    | 23.20                         | 23.17                  |                     |
| 20              | QPSK       | 100     | 0         | 23.29                 | 23.33                        | 23.26                    | 23.20                         | 23.18                  |                     |
| 20              | 16QAM      | 1       | 0         | 22.38                 | 22.35                        | 22.33                    | 22.30                         | 22.24                  | 24.1                |
| 20              | 16QAM      | 1       | 49        | 22.30                 | 22.32                        | 22.30                    | 22.33                         | 22.23                  |                     |
| 20              | 16QAM      | 1       | 99        | 22.29                 | 22.32                        | 22.36                    | 22.30                         | 22.22                  |                     |
| 20              | 16QAM      | 50      | 0         | 22.32                 | 22.29                        | 22.22                    | 22.22                         | 22.18                  | 23.1                |
| 20              | 16QAM      | 50      | 24        | 22.28                 | 22.27                        | 22.21                    | 22.20                         | 22.18                  |                     |
| 20              | 16QAM      | 50      | 50        | 22.29                 | 22.26                        | 22.22                    | 22.20                         | 22.17                  |                     |
| 20              | 16QAM      | 100     | 0         | 22.32                 | 22.31                        | 22.25                    | 22.22                         | 22.22                  |                     |
| 20              | 64QAM      | 1       | 0         | 22.23                 | 22.07                        | 22.05                    | 22.05                         | 22.06                  | 23.1                |
| 20              | 64QAM      | 1       | 49        | 22.18                 | 22.00                        | 21.96                    | 22.04                         | 21.95                  |                     |
| 20              | 64QAM      | 1       | 99        | 22.24                 | 22.10                        | 22.05                    | 22.07                         | 21.81                  |                     |
| 20              | 64QAM      | 50      | 0         | 21.27                 | 21.24                        | 21.21                    | 21.16                         | 21.16                  | 22.1                |
| 20              | 64QAM      | 50      | 24        | 21.26                 | 21.22                        | 21.19                    | 21.19                         | 21.13                  |                     |
| 20              | 64QAM      | 50      | 50        | 21.24                 | 21.23                        | 21.19                    | 21.16                         | 21.12                  |                     |
| 20              | 64QAM      | 100     | 0         | 21.29                 | 21.25                        | 21.21                    | 21.19                         | 21.18                  |                     |
| 20              | 256QAM     | 1       | 0         | 19.44                 | 19.27                        | 19.31                    | 19.33                         | 19.29                  | 20.1                |
| 20              | 256QAM     | 1       | 49        | 19.47                 | 19.30                        | 19.25                    | 19.29                         | 19.17                  |                     |
| 20              | 256QAM     | 1       | 99        | 19.47                 | 19.40                        | 19.26                    | 19.31                         | 19.04                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.57                 | 19.52                        | 19.45                    | 19.38                         | 19.40                  | 20.1                |
| 20              | 256QAM     | 50      | 24        | 19.51                 | 19.47                        | 19.41                    | 19.41                         | 19.39                  |                     |
| 20              | 256QAM     | 50      | 50        | 19.51                 | 19.51                        | 19.42                    | 19.43                         | 19.34                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.50                 | 19.53                        | 19.51                    | 19.48                         | 19.46                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 24.10                 | 24.29                        | 24.15                    | 24.19                         | 24.15                  | 25.10               |
| 15              | QPSK       | 1       | 37        | 24.15                 | 24.12                        | 24.18                    | 24.15                         | 24.09                  |                     |
| 15              | QPSK       | 1       | 74        | 24.12                 | 24.20                        | 24.19                    | 24.16                         | 23.79                  |                     |
| 15              | QPSK       | 36      | 0         | 23.23                 | 23.21                        | 23.05                    | 23.16                         | 23.04                  | 24.1                |
| 15              | QPSK       | 36      | 20        | 23.23                 | 23.20                        | 23.20                    | 23.01                         | 22.98                  |                     |
| 15              | QPSK       | 36      | 39        | 23.21                 | 23.27                        | 23.08                    | 23.17                         | 23.17                  |                     |
| 15              | QPSK       | 75      | 0         | 23.19                 | 23.21                        | 23.07                    | 23.13                         | 23.05                  | 24.1                |
| 15              | 16QAM      | 1       | 0         | 22.36                 | 22.28                        | 22.22                    | 22.30                         | 22.19                  |                     |
| 15              | 16QAM      | 1       | 37        | 22.25                 | 22.23                        | 22.25                    | 22.25                         | 22.15                  |                     |
| 15              | 16QAM      | 1       | 74        | 22.28                 | 22.14                        | 22.21                    | 22.14                         | 22.16                  | 23.1                |
| 15              | 16QAM      | 36      | 0         | 22.30                 | 22.21                        | 22.09                    | 22.05                         | 21.98                  |                     |
| 15              | 16QAM      | 36      | 20        | 22.21                 | 22.24                        | 22.08                    | 22.14                         | 22.14                  |                     |
| 15              | 16QAM      | 36      | 39        | 22.18                 | 22.12                        | 22.22                    | 22.04                         | 22.08                  |                     |
| 15              | 16QAM      | 75      | 0         | 22.30                 | 22.27                        | 22.24                    | 22.06                         | 22.22                  | 23.1                |
| 15              | 64QAM      | 1       | 0         | 22.16                 | 22.05                        | 22.01                    | 22.03                         | 22.03                  |                     |
| 15              | 64QAM      | 1       | 37        | 22.09                 | 21.99                        | 21.80                    | 21.88                         | 21.81                  |                     |
| 15              | 64QAM      | 1       | 74        | 22.06                 | 21.98                        | 21.96                    | 21.90                         | 21.78                  | 22.1                |
| 15              | 64QAM      | 36      | 0         | 21.14                 | 21.11                        | 21.14                    | 21.09                         | 21.08                  |                     |
| 15              | 64QAM      | 36      | 20        | 21.18                 | 21.12                        | 21.13                    | 21.18                         | 21.04                  |                     |
| 15              | 64QAM      | 36      | 39        | 21.24                 | 21.12                        | 21.13                    | 20.96                         | 20.92                  |                     |
| 15              | 64QAM      | 75      | 0         | 21.29                 | 21.23                        | 21.19                    | 21.08                         | 21.13                  | 20.1                |
| 15              | 256QAM     | 1       | 0         | 19.38                 | 19.08                        | 19.19                    | 19.32                         | 19.21                  |                     |
| 15              | 256QAM     | 1       | 37        | 19.27                 | 19.18                        | 19.20                    | 19.17                         | 19.10                  |                     |
| 15              | 256QAM     | 1       | 74        | 19.47                 | 19.38                        | 19.16                    | 19.15                         | 18.86                  | 20.1                |
| 15              | 256QAM     | 36      | 0         | 19.39                 | 19.44                        | 19.28                    | 19.29                         | 19.32                  |                     |
| 15              | 256QAM     | 36      | 20        | 19.42                 | 19.41                        | 19.26                    | 19.39                         | 19.39                  |                     |
| 15              | 256QAM     | 36      | 39        | 19.45                 | 19.37                        | 19.35                    | 19.32                         | 19.25                  |                     |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.36  | 19.53  | 19.33 | 19.42   | 19.35  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 24.28  | 24.19  | 24.30 | 24.17   | 24.20  | 25.10         |
| 10              | QPSK   | 1  | 25 | 24.13  | 24.20  | 24.20 | 24.17   | 24.18  |               |
| 10              | QPSK   | 1  | 49 | 24.18  | 24.09  | 24.28 | 24.20   | 23.91  |               |
| 10              | QPSK   | 25 | 0  | 23.22  | 23.18  | 23.11 | 23.15   | 23.13  | 24.1          |
| 10              | QPSK   | 25 | 12 | 23.27  | 23.20  | 23.10 | 23.06   | 23.17  |               |
| 10              | QPSK   | 25 | 25 | 23.11  | 23.30  | 23.14 | 23.07   | 23.06  |               |
| 10              | QPSK   | 50 | 0  | 23.22  | 23.29  | 23.15 | 23.03   | 23.10  |               |
| 10              | 16QAM  | 1  | 0  | 22.34  | 22.21  | 22.20 | 22.26   | 22.28  | 24.1          |
| 10              | 16QAM  | 1  | 25 | 22.15  | 22.12  | 22.19 | 22.24   | 22.10  |               |
| 10              | 16QAM  | 1  | 49 | 22.12  | 22.24  | 22.16 | 22.30   | 22.16  |               |
| 10              | 16QAM  | 25 | 0  | 22.18  | 22.23  | 22.05 | 22.04   | 22.01  | 23.1          |
| 10              | 16QAM  | 25 | 12 | 22.11  | 22.17  | 22.21 | 22.20   | 22.10  |               |
| 10              | 16QAM  | 25 | 25 | 22.29  | 22.16  | 22.10 | 22.10   | 22.03  |               |
| 10              | 16QAM  | 50 | 0  | 22.28  | 22.25  | 22.20 | 22.07   | 22.06  |               |
| 10              | 64QAM  | 1  | 0  | 22.10  | 21.91  | 21.87 | 21.87   | 21.93  | 23.1          |
| 10              | 64QAM  | 1  | 25 | 22.05  | 21.81  | 21.84 | 21.87   | 21.83  |               |
| 10              | 64QAM  | 1  | 49 | 22.22  | 22.02  | 22.02 | 21.95   | 21.61  |               |
| 10              | 64QAM  | 25 | 0  | 21.25  | 21.14  | 21.11 | 21.10   | 21.12  | 22.1          |
| 10              | 64QAM  | 25 | 12 | 21.09  | 21.03  | 21.00 | 21.01   | 21.01  |               |
| 10              | 64QAM  | 25 | 25 | 21.18  | 21.06  | 21.00 | 21.07   | 21.01  |               |
| 10              | 64QAM  | 50 | 0  | 21.26  | 21.18  | 21.15 | 21.08   | 21.04  |               |
| 10              | 256QAM | 1  | 0  | 19.40  | 19.07  | 19.24 | 19.31   | 19.26  | 20.1          |
| 10              | 256QAM | 1  | 25 | 19.31  | 19.15  | 19.22 | 19.12   | 19.05  |               |
| 10              | 256QAM | 1  | 49 | 19.29  | 19.21  | 19.07 | 19.16   | 19.02  |               |
| 10              | 256QAM | 25 | 0  | 19.44  | 19.48  | 19.45 | 19.33   | 19.36  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.34  | 19.35  | 19.39 | 19.23   | 19.19  |               |
| 10              | 256QAM | 25 | 25 | 19.33  | 19.44  | 19.32 | 19.43   | 19.31  |               |
| 10              | 256QAM | 50 | 0  | 19.44  | 19.49  | 19.44 | 19.37   | 19.26  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 24.16  | 24.21  | 24.12 | 24.12   | 24.17  | 25.10         |
| 5               | QPSK   | 1  | 12 | 24.13  | 24.21  | 24.19 | 24.21   | 24.04  |               |
| 5               | QPSK   | 1  | 24 | 24.23  | 24.21  | 24.12 | 24.18   | 23.83  |               |
| 5               | QPSK   | 12 | 0  | 23.15  | 23.33  | 23.07 | 23.15   | 23.06  | 24.1          |
| 5               | QPSK   | 12 | 7  | 23.15  | 23.10  | 23.10 | 23.12   | 23.07  |               |
| 5               | QPSK   | 12 | 13 | 23.18  | 23.20  | 23.18 | 23.03   | 23.06  |               |
| 5               | QPSK   | 25 | 0  | 23.23  | 23.21  | 23.17 | 23.10   | 23.18  |               |
| 5               | 16QAM  | 1  | 0  | 22.21  | 22.22  | 22.24 | 22.13   | 22.21  | 24.1          |
| 5               | 16QAM  | 1  | 12 | 22.11  | 22.29  | 22.25 | 22.23   | 22.26  |               |
| 5               | 16QAM  | 1  | 24 | 22.19  | 22.28  | 22.20 | 22.24   | 22.18  |               |
| 5               | 16QAM  | 12 | 0  | 22.17  | 22.25  | 22.02 | 22.16   | 22.04  | 23.1          |
| 5               | 16QAM  | 12 | 7  | 22.08  | 22.11  | 22.08 | 22.05   | 22.15  |               |
| 5               | 16QAM  | 12 | 13 | 22.13  | 22.15  | 22.09 | 22.18   | 22.04  |               |
| 5               | 16QAM  | 25 | 0  | 22.25  | 22.17  | 22.13 | 22.09   | 22.13  |               |
| 5               | 64QAM  | 1  | 0  | 22.10  | 22.02  | 21.86 | 22.01   | 22.02  | 23.1          |
| 5               | 64QAM  | 1  | 12 | 22.13  | 22.00  | 21.96 | 21.96   | 21.79  |               |
| 5               | 64QAM  | 1  | 24 | 22.05  | 21.95  | 22.03 | 21.94   | 21.71  |               |
| 5               | 64QAM  | 12 | 0  | 21.10  | 21.14  | 21.15 | 21.07   | 21.15  | 22.1          |
| 5               | 64QAM  | 12 | 7  | 21.10  | 21.16  | 21.14 | 21.04   | 21.03  |               |
| 5               | 64QAM  | 12 | 13 | 21.24  | 21.08  | 21.01 | 21.15   | 20.99  |               |
| 5               | 64QAM  | 25 | 0  | 21.26  | 21.19  | 21.12 | 21.17   | 21.08  |               |
| 5               | 256QAM | 1  | 0  | 19.36  | 19.18  | 19.29 | 19.25   | 19.28  | 20.1          |
| 5               | 256QAM | 1  | 12 | 19.28  | 19.22  | 19.13 | 19.10   | 19.12  |               |
| 5               | 256QAM | 1  | 24 | 19.42  | 19.30  | 19.06 | 19.30   | 18.90  |               |
| 5               | 256QAM | 12 | 0  | 19.47  | 19.50  | 19.28 | 19.34   | 19.23  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.38  | 19.39  | 19.34 | 19.36   | 19.21  |               |
| 5               | 256QAM | 12 | 13 | 19.40  | 19.44  | 19.42 | 19.34   | 19.22  |               |
| 5               | 256QAM | 25 | 0  | 19.36  | 19.43  | 19.47 | 19.34   | 19.46  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 23.93                 | 23.73                        | 24.02                    | 23.83                         | 23.78                  | 25.1                |
| 20              | QPSK       | 1       | 49        | 23.83                 | 23.69                        | 24.01                    | 23.78                         | 23.79                  |                     |
| 20              | QPSK       | 1       | 99        | 23.77                 | 23.73                        | 23.86                    | 23.83                         | 23.77                  |                     |
| 20              | QPSK       | 50      | 0         | 22.85                 | 22.77                        | 22.95                    | 22.80                         | 22.74                  | 24.1                |
| 20              | QPSK       | 50      | 24        | 22.85                 | 22.76                        | 22.91                    | 22.78                         | 22.71                  |                     |
| 20              | QPSK       | 50      | 50        | 22.80                 | 22.67                        | 22.80                    | 22.72                         | 22.72                  |                     |
| 20              | QPSK       | 100     | 0         | 22.79                 | 22.70                        | 22.91                    | 22.73                         | 22.66                  |                     |
| 20              | 16QAM      | 1       | 0         | 22.35                 | 22.22                        | 22.45                    | 22.27                         | 22.23                  | 24.1                |
| 20              | 16QAM      | 1       | 49        | 22.28                 | 22.23                        | 22.35                    | 22.26                         | 22.22                  |                     |
| 20              | 16QAM      | 1       | 99        | 22.31                 | 22.21                        | 22.35                    | 22.21                         | 22.20                  |                     |
| 20              | 16QAM      | 50      | 0         | 21.82                 | 21.68                        | 21.90                    | 21.75                         | 21.68                  | 23.1                |
| 20              | 16QAM      | 50      | 24        | 21.79                 | 21.65                        | 21.78                    | 21.74                         | 21.73                  |                     |
| 20              | 16QAM      | 50      | 50        | 21.72                 | 21.68                        | 21.89                    | 21.74                         | 21.68                  |                     |
| 20              | 16QAM      | 100     | 0         | 21.79                 | 21.78                        | 21.74                    | 21.71                         | 21.68                  |                     |
| 20              | 64QAM      | 1       | 0         | 21.83                 | 21.64                        | 21.96                    | 21.74                         | 21.69                  | 23.1                |
| 20              | 64QAM      | 1       | 49        | 21.75                 | 21.61                        | 21.83                    | 21.65                         | 21.70                  |                     |
| 20              | 64QAM      | 1       | 99        | 21.71                 | 21.68                        | 21.79                    | 21.65                         | 21.61                  |                     |
| 20              | 64QAM      | 50      | 0         | 20.84                 | 20.71                        | 20.98                    | 20.55                         | 20.52                  | 22.1                |
| 20              | 64QAM      | 50      | 24        | 20.81                 | 20.69                        | 20.84                    | 20.58                         | 20.50                  |                     |
| 20              | 64QAM      | 50      | 50        | 20.71                 | 20.64                        | 20.91                    | 20.57                         | 20.49                  |                     |
| 20              | 64QAM      | 100     | 0         | 20.79                 | 20.68                        | 20.80                    | 20.55                         | 20.49                  |                     |
| 20              | 256QAM     | 1       | 0         | 19.04                 | 18.88                        | 19.16                    | 18.94                         | 18.99                  | 20.1                |
| 20              | 256QAM     | 1       | 49        | 18.98                 | 18.83                        | 19.10                    | 18.88                         | 18.98                  |                     |
| 20              | 256QAM     | 1       | 99        | 18.99                 | 18.91                        | 19.07                    | 18.86                         | 18.86                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.14                 | 19.00                        | 19.25                    | 18.80                         | 18.73                  | 20.1                |
| 20              | 256QAM     | 50      | 24        | 19.10                 | 18.91                        | 19.08                    | 18.80                         | 18.77                  |                     |
| 20              | 256QAM     | 50      | 50        | 18.91                 | 18.85                        | 19.20                    | 18.79                         | 18.78                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.03                 | 18.96                        | 19.07                    | 18.75                         | 18.75                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 23.90                 | 23.66                        | 23.89                    | 23.69                         | 23.70                  | 25.10               |
| 15              | QPSK       | 1       | 37        | 23.80                 | 23.51                        | 24.00                    | 23.63                         | 23.67                  |                     |
| 15              | QPSK       | 1       | 74        | 23.72                 | 23.73                        | 23.73                    | 23.65                         | 23.64                  |                     |
| 15              | QPSK       | 36      | 0         | 22.67                 | 22.70                        | 22.85                    | 22.74                         | 22.56                  | 24.1                |
| 15              | QPSK       | 36      | 20        | 22.81                 | 22.60                        | 22.82                    | 22.63                         | 22.66                  |                     |
| 15              | QPSK       | 36      | 39        | 22.74                 | 22.67                        | 22.62                    | 22.67                         | 22.58                  |                     |
| 15              | QPSK       | 75      | 0         | 22.59                 | 22.55                        | 22.73                    | 22.72                         | 22.64                  |                     |
| 15              | 16QAM      | 1       | 0         | 22.26                 | 22.31                        | 22.42                    | 22.34                         | 22.34                  | 24.1                |
| 15              | 16QAM      | 1       | 37        | 22.23                 | 22.33                        | 22.24                    | 22.25                         | 22.29                  |                     |
| 15              | 16QAM      | 1       | 74        | 22.39                 | 22.35                        | 22.21                    | 22.24                         | 22.24                  |                     |
| 15              | 16QAM      | 36      | 0         | 21.81                 | 21.68                        | 21.77                    | 21.63                         | 21.65                  | 23.1                |
| 15              | 16QAM      | 36      | 20        | 21.61                 | 21.60                        | 21.71                    | 21.56                         | 21.70                  |                     |
| 15              | 16QAM      | 36      | 39        | 21.57                 | 21.58                        | 21.82                    | 21.59                         | 21.57                  |                     |
| 15              | 16QAM      | 75      | 0         | 21.77                 | 21.69                        | 21.70                    | 21.59                         | 21.50                  |                     |
| 15              | 64QAM      | 1       | 0         | 21.66                 | 21.55                        | 21.94                    | 21.73                         | 21.64                  | 23.1                |
| 15              | 64QAM      | 1       | 37        | 21.62                 | 21.48                        | 21.80                    | 21.48                         | 21.63                  |                     |
| 15              | 64QAM      | 1       | 74        | 21.52                 | 21.51                        | 21.62                    | 21.64                         | 21.58                  |                     |
| 15              | 64QAM      | 36      | 0         | 20.68                 | 20.63                        | 20.79                    | 20.47                         | 20.34                  | 22.1                |
| 15              | 64QAM      | 36      | 20        | 20.67                 | 20.56                        | 20.66                    | 20.41                         | 20.37                  |                     |
| 15              | 64QAM      | 36      | 39        | 20.58                 | 20.59                        | 20.77                    | 20.49                         | 20.29                  |                     |
| 15              | 64QAM      | 75      | 0         | 20.75                 | 20.51                        | 20.79                    | 20.44                         | 20.42                  |                     |
| 15              | 256QAM     | 1       | 0         | 18.98                 | 18.72                        | 19.01                    | 18.94                         | 18.95                  | 20.1                |
| 15              | 256QAM     | 1       | 37        | 18.95                 | 18.69                        | 19.01                    | 18.78                         | 18.98                  |                     |
| 15              | 256QAM     | 1       | 74        | 18.80                 | 18.87                        | 19.00                    | 18.81                         | 18.86                  |                     |
| 15              | 256QAM     | 36      | 0         | 18.99                 | 19.00                        | 19.12                    | 18.74                         | 18.58                  | 20.1                |
| 15              | 256QAM     | 36      | 20        | 19.09                 | 18.82                        | 18.91                    | 18.65                         | 18.74                  |                     |
| 15              | 256QAM     | 36      | 39        | 18.91                 | 18.69                        | 19.10                    | 18.78                         | 18.58                  |                     |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.02  | 18.89  | 19.02 | 18.61   | 18.58  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 23.92  | 23.72  | 23.89 | 23.76   | 23.73  | 25.10         |
| 10              | QPSK   | 1  | 25 | 23.83  | 23.68  | 24.00 | 23.76   | 23.71  |               |
| 10              | QPSK   | 1  | 49 | 23.74  | 23.58  | 23.70 | 23.72   | 23.58  |               |
| 10              | QPSK   | 25 | 0  | 22.65  | 22.70  | 22.93 | 22.64   | 22.63  | 24.1          |
| 10              | QPSK   | 25 | 12 | 22.85  | 22.57  | 22.90 | 22.66   | 22.60  |               |
| 10              | QPSK   | 25 | 25 | 22.67  | 22.64  | 22.79 | 22.54   | 22.58  |               |
| 10              | QPSK   | 50 | 0  | 22.77  | 22.55  | 22.71 | 22.55   | 22.51  |               |
| 10              | 16QAM  | 1  | 0  | 22.31  | 22.22  | 22.35 | 22.24   | 22.35  | 24.1          |
| 10              | 16QAM  | 1  | 25 | 22.21  | 22.33  | 22.30 | 22.22   | 22.37  |               |
| 10              | 16QAM  | 1  | 49 | 22.26  | 22.38  | 22.28 | 22.38   | 22.32  |               |
| 10              | 16QAM  | 25 | 0  | 21.75  | 21.66  | 21.84 | 21.64   | 21.50  | 23.1          |
| 10              | 16QAM  | 25 | 12 | 21.60  | 21.53  | 21.69 | 21.65   | 21.60  |               |
| 10              | 16QAM  | 25 | 25 | 21.65  | 21.48  | 21.86 | 21.55   | 21.60  |               |
| 10              | 16QAM  | 50 | 0  | 21.62  | 21.67  | 21.63 | 21.65   | 21.52  |               |
| 10              | 64QAM  | 1  | 0  | 21.64  | 21.61  | 21.78 | 21.56   | 21.67  | 23.1          |
| 10              | 64QAM  | 1  | 25 | 21.66  | 21.42  | 21.65 | 21.54   | 21.57  |               |
| 10              | 64QAM  | 1  | 49 | 21.58  | 21.63  | 21.63 | 21.48   | 21.58  |               |
| 10              | 64QAM  | 25 | 0  | 20.64  | 20.56  | 20.87 | 20.43   | 20.37  | 22.1          |
| 10              | 64QAM  | 25 | 12 | 20.71  | 20.52  | 20.81 | 20.42   | 20.33  |               |
| 10              | 64QAM  | 25 | 25 | 20.61  | 20.47  | 20.86 | 20.54   | 20.44  |               |
| 10              | 64QAM  | 50 | 0  | 20.66  | 20.50  | 20.61 | 20.44   | 20.33  |               |
| 10              | 256QAM | 1  | 0  | 19.03  | 18.74  | 18.98 | 18.92   | 18.87  | 20.1          |
| 10              | 256QAM | 1  | 25 | 18.90  | 18.68  | 19.01 | 18.75   | 18.93  |               |
| 10              | 256QAM | 1  | 49 | 18.96  | 18.89  | 19.00 | 18.66   | 18.71  |               |
| 10              | 256QAM | 25 | 0  | 19.02  | 18.95  | 19.08 | 18.62   | 18.53  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.03  | 18.72  | 18.90 | 18.62   | 18.67  |               |
| 10              | 256QAM | 25 | 25 | 18.72  | 18.70  | 19.11 | 18.60   | 18.66  |               |
| 10              | 256QAM | 50 | 0  | 19.02  | 18.92  | 18.97 | 18.65   | 18.64  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 23.84  | 23.54  | 24.00 | 23.77   | 23.75  | 25.10         |
| 5               | QPSK   | 1  | 12 | 23.80  | 23.63  | 23.94 | 23.63   | 23.74  |               |
| 5               | QPSK   | 1  | 24 | 23.74  | 23.62  | 23.73 | 23.67   | 23.62  |               |
| 5               | QPSK   | 12 | 0  | 22.79  | 22.62  | 22.76 | 22.72   | 22.69  | 24.1          |
| 5               | QPSK   | 12 | 7  | 22.85  | 22.60  | 22.85 | 22.60   | 22.52  |               |
| 5               | QPSK   | 12 | 13 | 22.77  | 22.59  | 22.66 | 22.68   | 22.58  |               |
| 5               | QPSK   | 25 | 0  | 22.75  | 22.50  | 22.87 | 22.55   | 22.65  |               |
| 5               | 16QAM  | 1  | 0  | 22.35  | 22.23  | 22.32 | 22.21   | 22.26  | 24.1          |
| 5               | 16QAM  | 1  | 12 | 22.27  | 22.24  | 22.27 | 22.26   | 22.29  |               |
| 5               | 16QAM  | 1  | 24 | 22.27  | 22.22  | 22.34 | 22.23   | 22.35  |               |
| 5               | 16QAM  | 12 | 0  | 21.74  | 21.48  | 21.81 | 21.57   | 21.61  | 23.1          |
| 5               | 16QAM  | 12 | 7  | 21.72  | 21.57  | 21.66 | 21.58   | 21.63  |               |
| 5               | 16QAM  | 12 | 13 | 21.71  | 21.63  | 21.74 | 21.66   | 21.54  |               |
| 5               | 16QAM  | 25 | 0  | 21.77  | 21.72  | 21.63 | 21.69   | 21.68  |               |
| 5               | 64QAM  | 1  | 0  | 21.70  | 21.50  | 21.84 | 21.54   | 21.54  | 23.1          |
| 5               | 64QAM  | 1  | 12 | 21.60  | 21.45  | 21.77 | 21.45   | 21.70  |               |
| 5               | 64QAM  | 1  | 24 | 21.62  | 21.48  | 21.67 | 21.59   | 21.51  |               |
| 5               | 64QAM  | 12 | 0  | 20.78  | 20.70  | 20.95 | 20.46   | 20.33  | 22.1          |
| 5               | 64QAM  | 12 | 7  | 20.65  | 20.54  | 20.76 | 20.47   | 20.40  |               |
| 5               | 64QAM  | 12 | 13 | 20.65  | 20.54  | 20.84 | 20.37   | 20.31  |               |
| 5               | 64QAM  | 25 | 0  | 20.67  | 20.61  | 20.67 | 20.44   | 20.37  |               |
| 5               | 256QAM | 1  | 0  | 18.92  | 18.88  | 18.96 | 18.82   | 18.80  | 20.1          |
| 5               | 256QAM | 1  | 12 | 18.82  | 18.80  | 18.90 | 18.68   | 18.80  |               |
| 5               | 256QAM | 1  | 24 | 18.86  | 18.88  | 19.03 | 18.67   | 18.76  |               |
| 5               | 256QAM | 12 | 0  | 19.00  | 18.93  | 19.20 | 18.68   | 18.71  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.09  | 18.85  | 18.98 | 18.74   | 18.76  |               |
| 5               | 256QAM | 12 | 13 | 18.79  | 18.74  | 19.00 | 18.64   | 18.66  |               |
| 5               | 256QAM | 25 | 0  | 19.02  | 18.76  | 18.88 | 18.74   | 18.57  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 20.13                    | 20.14                           | 20.17                       | 20.13                            | 20.02                     | 20.3                   |
| 20              | QPSK       | 1       | 49        | 20.12                    | 20.13                           | 20.11                       | 20.10                            | 19.97                     |                        |
| 20              | QPSK       | 1       | 99        | 20.12                    | 20.11                           | 20.13                       | 20.09                            | 19.92                     |                        |
| 20              | QPSK       | 50      | 0         | 20.09                    | 20.13                           | 20.15                       | 20.13                            | 19.97                     | 20.3                   |
| 20              | QPSK       | 50      | 24        | 20.09                    | 20.13                           | 20.12                       | 20.09                            | 19.94                     |                        |
| 20              | QPSK       | 50      | 50        | 20.06                    | 20.12                           | 20.13                       | 20.09                            | 19.89                     |                        |
| 20              | QPSK       | 100     | 0         | 20.12                    | 20.13                           | 20.14                       | 20.08                            | 19.95                     |                        |
| 20              | 16QAM      | 1       | 0         | 19.92                    | 20.00                           | 19.93                       | 20.10                            | 19.76                     | 20.3                   |
| 20              | 16QAM      | 1       | 49        | 19.86                    | 19.99                           | 19.93                       | 20.05                            | 19.70                     |                        |
| 20              | 16QAM      | 1       | 99        | 19.87                    | 19.93                           | 19.97                       | 20.05                            | 19.70                     |                        |
| 20              | 16QAM      | 50      | 0         | 20.05                    | 20.14                           | 20.16                       | 20.09                            | 19.96                     |                        |
| 20              | 16QAM      | 50      | 24        | 20.08                    | 20.16                           | 20.15                       | 20.12                            | 19.90                     | 20.3                   |
| 20              | 16QAM      | 50      | 50        | 20.09                    | 20.16                           | 20.10                       | 20.16                            | 19.89                     |                        |
| 20              | 16QAM      | 100     | 0         | 20.11                    | 20.11                           | 20.10                       | 20.14                            | 19.97                     |                        |
| 20              | 64QAM      | 1       | 0         | 19.96                    | 19.88                           | 19.96                       | 20.13                            | 19.94                     | 20.3                   |
| 20              | 64QAM      | 1       | 49        | 19.82                    | 19.92                           | 20.03                       | 20.02                            | 19.87                     |                        |
| 20              | 64QAM      | 1       | 99        | 19.90                    | 19.85                           | 20.04                       | 20.06                            | 19.78                     |                        |
| 20              | 64QAM      | 50      | 0         | 20.09                    | 20.13                           | 20.11                       | 20.11                            | 19.94                     | 20.3                   |
| 20              | 64QAM      | 50      | 24        | 20.08                    | 20.14                           | 20.15                       | 20.16                            | 19.94                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.07                    | 20.14                           | 20.11                       | 20.16                            | 19.90                     |                        |
| 20              | 64QAM      | 100     | 0         | 20.10                    | 20.14                           | 20.09                       | 20.14                            | 19.99                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.82                    | 20.08                           | 20.01                       | 20.07                            | 19.84                     | 20.1                   |
| 20              | 256QAM     | 1       | 49        | 19.79                    | 20.00                           | 20.08                       | 20.08                            | 19.68                     |                        |
| 20              | 256QAM     | 1       | 99        | 19.90                    | 19.87                           | 20.02                       | 19.95                            | 19.88                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.99                    | 20.01                           | 20.00                       | 19.97                            | 19.83                     | 20.1                   |
| 20              | 256QAM     | 50      | 24        | 20.01                    | 20.05                           | 20.01                       | 20.04                            | 19.70                     |                        |
| 20              | 256QAM     | 50      | 50        | 20.00                    | 20.10                           | 20.05                       | 19.94                            | 19.95                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.95                    | 20.02                           | 19.92                       | 19.94                            | 19.84                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 19.96                    | 20.03                           | 20.00                       | 19.94                            | 19.82                     | 20.30                  |
| 15              | QPSK       | 1       | 37        | 20.10                    | 19.97                           | 19.98                       | 20.06                            | 19.93                     |                        |
| 15              | QPSK       | 1       | 74        | 20.06                    | 20.08                           | 19.97                       | 20.06                            | 19.80                     |                        |
| 15              | QPSK       | 36      | 0         | 19.96                    | 20.10                           | 20.07                       | 20.13                            | 19.92                     | 20.3                   |
| 15              | QPSK       | 36      | 20        | 20.04                    | 19.96                           | 20.08                       | 19.92                            | 19.82                     |                        |
| 15              | QPSK       | 36      | 39        | 20.02                    | 20.06                           | 19.95                       | 19.99                            | 19.80                     |                        |
| 15              | QPSK       | 75      | 0         | 20.04                    | 20.10                           | 20.11                       | 20.07                            | 19.83                     |                        |
| 15              | 16QAM      | 1       | 0         | 19.73                    | 19.98                           | 19.75                       | 20.05                            | 19.72                     | 20.3                   |
| 15              | 16QAM      | 1       | 37        | 19.83                    | 19.90                           | 19.78                       | 19.93                            | 19.53                     |                        |
| 15              | 16QAM      | 1       | 74        | 19.74                    | 19.89                           | 19.95                       | 19.98                            | 19.50                     |                        |
| 15              | 16QAM      | 36      | 0         | 19.99                    | 20.11                           | 20.03                       | 19.94                            | 19.80                     | 20.3                   |
| 15              | 16QAM      | 36      | 20        | 20.03                    | 20.16                           | 20.00                       | 20.12                            | 19.78                     |                        |
| 15              | 16QAM      | 36      | 39        | 19.92                    | 20.15                           | 20.10                       | 20.01                            | 19.88                     |                        |
| 15              | 16QAM      | 75      | 0         | 20.06                    | 20.00                           | 19.94                       | 20.11                            | 19.84                     |                        |
| 15              | 64QAM      | 1       | 0         | 19.91                    | 19.69                           | 19.89                       | 20.12                            | 19.94                     | 20.3                   |
| 15              | 64QAM      | 1       | 37        | 19.71                    | 19.83                           | 19.83                       | 20.02                            | 19.69                     |                        |
| 15              | 64QAM      | 1       | 74        | 19.76                    | 19.77                           | 19.91                       | 20.03                            | 19.58                     |                        |
| 15              | 64QAM      | 36      | 0         | 19.95                    | 20.07                           | 19.97                       | 20.08                            | 19.88                     |                        |
| 15              | 64QAM      | 36      | 20        | 19.98                    | 20.11                           | 20.05                       | 20.10                            | 19.75                     | 20.3                   |
| 15              | 64QAM      | 36      | 39        | 19.88                    | 20.10                           | 19.95                       | 20.15                            | 19.70                     |                        |
| 15              | 64QAM      | 75      | 0         | 20.08                    | 19.99                           | 19.94                       | 20.13                            | 19.87                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.73                    | 20.08                           | 19.93                       | 20.06                            | 19.78                     | 20.1                   |
| 15              | 256QAM     | 1       | 37        | 19.74                    | 19.83                           | 20.01                       | 19.95                            | 19.60                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.72                    | 19.74                           | 20.02                       | 19.84                            | 19.79                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.84                    | 19.94                           | 19.99                       | 19.80                            | 19.68                     | 20.1                   |
| 15              | 256QAM     | 36      | 20        | 19.97                    | 20.03                           | 19.95                       | 19.94                            | 19.59                     |                        |
| 15              | 256QAM     | 36      | 39        | 20.00                    | 20.06                           | 19.90                       | 19.78                            | 19.95                     |                        |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.85  | 19.90  | 19.75 | 19.84   | 19.75  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 20.04  | 19.95  | 20.16 | 20.05   | 20.02  | 20.30         |
| 10              | QPSK   | 1  | 25 | 19.96  | 20.13  | 20.03 | 20.09   | 19.79  |               |
| 10              | QPSK   | 1  | 49 | 20.04  | 20.07  | 20.10 | 20.06   | 19.76  |               |
| 10              | QPSK   | 25 | 0  | 20.06  | 19.98  | 20.00 | 20.07   | 19.85  | 20.3          |
| 10              | QPSK   | 25 | 12 | 20.04  | 20.00  | 20.01 | 19.89   | 19.94  |               |
| 10              | QPSK   | 25 | 25 | 20.06  | 19.92  | 20.03 | 19.97   | 19.76  |               |
| 10              | QPSK   | 50 | 0  | 20.08  | 19.96  | 20.04 | 20.01   | 19.90  |               |
| 10              | 16QAM  | 1  | 0  | 19.74  | 19.98  | 19.89 | 19.93   | 19.74  | 20.3          |
| 10              | 16QAM  | 1  | 25 | 19.67  | 19.81  | 19.79 | 19.93   | 19.58  |               |
| 10              | 16QAM  | 1  | 49 | 19.87  | 19.93  | 19.90 | 19.97   | 19.64  |               |
| 10              | 16QAM  | 25 | 0  | 20.02  | 20.10  | 20.00 | 20.06   | 19.86  | 20.3          |
| 10              | 16QAM  | 25 | 12 | 19.88  | 20.15  | 20.14 | 20.02   | 19.87  |               |
| 10              | 16QAM  | 25 | 25 | 19.93  | 19.99  | 20.02 | 20.02   | 19.87  |               |
| 10              | 16QAM  | 50 | 0  | 20.06  | 20.03  | 20.01 | 20.00   | 19.81  |               |
| 10              | 64QAM  | 1  | 0  | 19.91  | 19.82  | 19.82 | 20.03   | 19.74  | 20.3          |
| 10              | 64QAM  | 1  | 25 | 19.73  | 19.78  | 19.90 | 20.02   | 19.79  |               |
| 10              | 64QAM  | 1  | 49 | 19.73  | 19.69  | 20.04 | 20.01   | 19.67  |               |
| 10              | 64QAM  | 25 | 0  | 19.98  | 20.04  | 19.98 | 20.11   | 19.90  | 20.3          |
| 10              | 64QAM  | 25 | 12 | 20.07  | 20.11  | 19.96 | 20.02   | 19.92  |               |
| 10              | 64QAM  | 25 | 25 | 20.07  | 19.99  | 20.08 | 20.08   | 19.73  |               |
| 10              | 64QAM  | 50 | 0  | 19.95  | 19.98  | 20.07 | 20.01   | 19.82  |               |
| 10              | 256QAM | 1  | 0  | 19.62  | 20.03  | 19.96 | 19.95   | 19.71  | 20.1          |
| 10              | 256QAM | 1  | 25 | 19.70  | 19.89  | 20.06 | 19.94   | 19.53  |               |
| 10              | 256QAM | 1  | 49 | 19.89  | 19.75  | 19.97 | 19.87   | 19.88  |               |
| 10              | 256QAM | 25 | 0  | 19.98  | 19.98  | 19.82 | 19.79   | 19.68  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.95  | 19.85  | 19.93 | 20.02   | 19.57  |               |
| 10              | 256QAM | 25 | 25 | 19.99  | 20.00  | 19.92 | 19.90   | 19.82  |               |
| 10              | 256QAM | 50 | 0  | 19.92  | 19.91  | 19.82 | 19.88   | 19.67  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 19.98  | 19.95  | 19.98 | 20.08   | 19.98  | 20.30         |
| 5               | QPSK   | 1  | 12 | 19.99  | 20.01  | 20.10 | 20.03   | 19.78  |               |
| 5               | QPSK   | 1  | 24 | 19.97  | 20.03  | 19.94 | 19.95   | 19.88  |               |
| 5               | QPSK   | 12 | 0  | 20.03  | 20.00  | 19.98 | 20.01   | 19.79  | 20.3          |
| 5               | QPSK   | 12 | 7  | 20.04  | 20.09  | 20.01 | 20.06   | 19.87  |               |
| 5               | QPSK   | 12 | 13 | 20.02  | 19.99  | 20.00 | 20.09   | 19.70  |               |
| 5               | QPSK   | 25 | 0  | 20.06  | 20.04  | 19.95 | 19.93   | 19.79  |               |
| 5               | 16QAM  | 1  | 0  | 19.77  | 19.86  | 19.74 | 19.95   | 19.63  | 20.3          |
| 5               | 16QAM  | 1  | 12 | 19.67  | 19.88  | 19.75 | 19.99   | 19.50  |               |
| 5               | 16QAM  | 1  | 24 | 19.83  | 19.90  | 19.77 | 20.03   | 19.58  |               |
| 5               | 16QAM  | 12 | 0  | 19.87  | 20.11  | 20.05 | 20.09   | 19.81  | 20.3          |
| 5               | 16QAM  | 12 | 7  | 19.92  | 20.09  | 20.15 | 19.93   | 19.76  |               |
| 5               | 16QAM  | 12 | 13 | 20.09  | 19.99  | 20.06 | 20.00   | 19.88  |               |
| 5               | 16QAM  | 25 | 0  | 19.94  | 20.01  | 19.96 | 19.95   | 19.90  |               |
| 5               | 64QAM  | 1  | 0  | 19.96  | 19.79  | 19.93 | 19.97   | 19.83  | 20.3          |
| 5               | 64QAM  | 1  | 12 | 19.81  | 19.84  | 19.84 | 19.94   | 19.76  |               |
| 5               | 64QAM  | 1  | 24 | 19.89  | 19.80  | 20.02 | 20.03   | 19.70  |               |
| 5               | 64QAM  | 12 | 0  | 19.93  | 20.01  | 20.06 | 19.98   | 19.92  | 20.3          |
| 5               | 64QAM  | 12 | 7  | 20.03  | 20.04  | 20.09 | 20.08   | 19.83  |               |
| 5               | 64QAM  | 12 | 13 | 19.87  | 19.99  | 19.99 | 20.10   | 19.76  |               |
| 5               | 64QAM  | 25 | 0  | 20.06  | 20.02  | 19.95 | 20.09   | 19.93  |               |
| 5               | 256QAM | 1  | 0  | 19.63  | 20.03  | 19.86 | 19.90   | 19.74  | 20.1          |
| 5               | 256QAM | 1  | 12 | 19.69  | 19.83  | 20.06 | 20.07   | 19.57  |               |
| 5               | 256QAM | 1  | 24 | 19.73  | 19.81  | 19.95 | 19.94   | 19.80  |               |
| 5               | 256QAM | 12 | 0  | 19.82  | 19.98  | 19.97 | 19.81   | 19.72  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.99  | 19.90  | 19.86 | 19.94   | 19.62  |               |
| 5               | 256QAM | 12 | 13 | 19.95  | 19.91  | 19.91 | 19.87   | 19.78  |               |
| 5               | 256QAM | 25 | 0  | 19.77  | 19.92  | 19.86 | 19.77   | 19.79  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 20.05                 | 20.06                        | 20.08                    | 19.82                         | 19.74                  | 20.8                |
| 20              | QPSK       | 1       | 49        | 19.92                 | 20.03                        | 19.90                    | 19.68                         | 19.69                  |                     |
| 20              | QPSK       | 1       | 99        | 19.95                 | 20.00                        | 20.01                    | 19.69                         | 19.59                  |                     |
| 20              | QPSK       | 50      | 0         | 20.01                 | 20.03                        | 20.06                    | 19.83                         | 19.72                  | 20.8                |
| 20              | QPSK       | 50      | 24        | 19.95                 | 20.01                        | 19.98                    | 19.82                         | 19.72                  |                     |
| 20              | QPSK       | 50      | 50        | 19.99                 | 19.99                        | 20.04                    | 19.82                         | 19.56                  |                     |
| 20              | QPSK       | 100     | 0         | 19.86                 | 20.00                        | 20.02                    | 19.75                         | 19.61                  |                     |
| 20              | 16QAM      | 1       | 0         | 19.95                 | 19.98                        | 20.02                    | 19.73                         | 19.73                  | 20.8                |
| 20              | 16QAM      | 1       | 49        | 19.88                 | 19.91                        | 19.90                    | 19.73                         | 19.72                  |                     |
| 20              | 16QAM      | 1       | 99        | 20.03                 | 19.85                        | 19.99                    | 19.62                         | 19.59                  |                     |
| 20              | 16QAM      | 50      | 0         | 20.04                 | 19.92                        | 19.90                    | 19.74                         | 19.57                  |                     |
| 20              | 16QAM      | 50      | 24        | 19.90                 | 20.00                        | 19.95                    | 19.74                         | 19.73                  | 20.8                |
| 20              | 16QAM      | 50      | 50        | 19.95                 | 19.88                        | 19.97                    | 19.63                         | 19.63                  |                     |
| 20              | 16QAM      | 100     | 0         | 19.86                 | 19.83                        | 19.95                    | 19.72                         | 19.73                  |                     |
| 20              | 64QAM      | 1       | 0         | 20.03                 | 19.98                        | 20.07                    | 19.65                         | 19.54                  | 20.8                |
| 20              | 64QAM      | 1       | 49        | 20.00                 | 19.97                        | 20.01                    | 19.71                         | 19.59                  |                     |
| 20              | 64QAM      | 1       | 99        | 19.90                 | 20.00                        | 19.97                    | 19.82                         | 19.64                  |                     |
| 20              | 64QAM      | 50      | 0         | 19.86                 | 20.03                        | 19.89                    | 19.70                         | 19.62                  | 20.8                |
| 20              | 64QAM      | 50      | 24        | 19.99                 | 19.95                        | 19.94                    | 19.80                         | 19.59                  |                     |
| 20              | 64QAM      | 50      | 50        | 20.05                 | 19.94                        | 20.07                    | 19.78                         | 19.72                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.90                 | 19.89                        | 19.90                    | 19.71                         | 19.65                  |                     |
| 20              | 256QAM     | 1       | 0         | 19.41                 | 19.53                        | 19.42                    | 19.13                         | 19.18                  | 20.1                |
| 20              | 256QAM     | 1       | 49        | 19.38                 | 19.45                        | 19.39                    | 19.19                         | 19.17                  |                     |
| 20              | 256QAM     | 1       | 99        | 19.47                 | 19.49                        | 19.51                    | 19.29                         | 19.08                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.36                 | 19.51                        | 19.56                    | 19.20                         | 19.06                  | 20.1                |
| 20              | 256QAM     | 50      | 24        | 19.41                 | 19.47                        | 19.51                    | 19.18                         | 19.07                  |                     |
| 20              | 256QAM     | 50      | 50        | 19.41                 | 19.49                        | 19.46                    | 19.16                         | 19.04                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.41                 | 19.49                        | 19.46                    | 19.16                         | 19.04                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit       |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 | (dBm)               |
| 15              | QPSK       | 1       | 0         | 19.99                 | 19.90                        | 19.98                    | 19.81                         | 19.71                  | 20.80               |
| 15              | QPSK       | 1       | 37        | 19.72                 | 19.98                        | 19.73                    | 19.50                         | 19.67                  |                     |
| 15              | QPSK       | 1       | 74        | 19.82                 | 19.80                        | 19.88                    | 19.56                         | 19.43                  |                     |
| 15              | QPSK       | 36      | 0         | 19.98                 | 19.85                        | 20.04                    | 19.81                         | 19.72                  | 20.8                |
| 15              | QPSK       | 36      | 20        | 19.83                 | 19.95                        | 19.88                    | 19.66                         | 19.54                  |                     |
| 15              | QPSK       | 36      | 39        | 19.81                 | 19.90                        | 20.02                    | 19.81                         | 19.47                  |                     |
| 15              | QPSK       | 75      | 0         | 19.73                 | 19.92                        | 19.89                    | 19.63                         | 19.56                  | 20.8                |
| 15              | 16QAM      | 1       | 0         | 19.95                 | 19.87                        | 19.93                    | 19.72                         | 19.72                  |                     |
| 15              | 16QAM      | 1       | 37        | 19.70                 | 19.74                        | 19.85                    | 19.73                         | 19.67                  |                     |
| 15              | 16QAM      | 1       | 74        | 19.97                 | 19.74                        | 19.92                    | 19.61                         | 19.57                  | 20.8                |
| 15              | 16QAM      | 36      | 0         | 19.98                 | 19.89                        | 19.86                    | 19.61                         | 19.41                  |                     |
| 15              | 16QAM      | 36      | 20        | 19.83                 | 19.88                        | 19.90                    | 19.70                         | 19.57                  |                     |
| 15              | 16QAM      | 36      | 39        | 19.84                 | 19.70                        | 19.82                    | 19.59                         | 19.52                  |                     |
| 15              | 16QAM      | 75      | 0         | 19.83                 | 19.67                        | 19.78                    | 19.52                         | 19.71                  | 20.8                |
| 15              | 64QAM      | 1       | 0         | 19.86                 | 19.81                        | 20.03                    | 19.53                         | 19.35                  |                     |
| 15              | 64QAM      | 1       | 37        | 19.88                 | 19.89                        | 19.95                    | 19.67                         | 19.55                  |                     |
| 15              | 64QAM      | 1       | 74        | 19.83                 | 19.96                        | 19.79                    | 19.82                         | 19.45                  | 20.8                |
| 15              | 64QAM      | 36      | 0         | 19.80                 | 20.03                        | 19.80                    | 19.62                         | 19.59                  |                     |
| 15              | 64QAM      | 36      | 20        | 19.96                 | 19.89                        | 19.78                    | 19.73                         | 19.55                  |                     |
| 15              | 64QAM      | 36      | 39        | 19.85                 | 19.74                        | 20.01                    | 19.70                         | 19.70                  |                     |
| 15              | 64QAM      | 75      | 0         | 19.87                 | 19.71                        | 19.89                    | 19.59                         | 19.52                  | 20.1                |
| 15              | 256QAM     | 1       | 0         | 19.38                 | 19.41                        | 19.31                    | 19.07                         | 19.15                  |                     |
| 15              | 256QAM     | 1       | 37        | 19.30                 | 19.41                        | 19.32                    | 19.10                         | 19.05                  |                     |
| 15              | 256QAM     | 1       | 74        | 19.45                 | 19.43                        | 19.31                    | 19.22                         | 18.96                  | 20.1                |
| 15              | 256QAM     | 36      | 0         | 19.29                 | 19.32                        | 19.38                    | 19.18                         | 18.87                  |                     |
| 15              | 256QAM     | 36      | 20        | 19.40                 | 19.46                        | 19.36                    | 19.00                         | 18.88                  |                     |
| 15              | 256QAM     | 36      | 39        | 19.28                 | 19.30                        | 19.42                    | 19.13                         | 19.03                  |                     |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.28  | 19.37  | 19.31 | 19.00   | 19.02  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 19.92  | 19.96  | 20.04 | 19.74   | 19.66  | 20.80         |
| 10              | QPSK   | 1  | 25 | 19.76  | 19.92  | 19.82 | 19.61   | 19.58  |               |
| 10              | QPSK   | 1  | 49 | 19.91  | 19.81  | 19.89 | 19.52   | 19.54  |               |
| 10              | QPSK   | 25 | 0  | 19.97  | 20.01  | 19.90 | 19.64   | 19.63  | 20.8          |
| 10              | QPSK   | 25 | 12 | 19.78  | 19.84  | 19.88 | 19.66   | 19.59  |               |
| 10              | QPSK   | 25 | 25 | 19.96  | 19.91  | 20.01 | 19.77   | 19.37  |               |
| 10              | QPSK   | 50 | 0  | 19.67  | 19.89  | 20.00 | 19.61   | 19.56  |               |
| 10              | 16QAM  | 1  | 0  | 19.79  | 19.92  | 19.85 | 19.61   | 19.71  | 20.8          |
| 10              | 16QAM  | 1  | 25 | 19.83  | 19.81  | 19.83 | 19.65   | 19.55  |               |
| 10              | 16QAM  | 1  | 49 | 19.88  | 19.65  | 19.83 | 19.55   | 19.42  |               |
| 10              | 16QAM  | 25 | 0  | 20.04  | 19.78  | 19.83 | 19.54   | 19.47  | 20.8          |
| 10              | 16QAM  | 25 | 12 | 19.78  | 19.88  | 19.83 | 19.67   | 19.71  |               |
| 10              | 16QAM  | 25 | 25 | 19.90  | 19.79  | 19.80 | 19.45   | 19.54  |               |
| 10              | 16QAM  | 50 | 0  | 19.81  | 19.80  | 19.84 | 19.57   | 19.72  |               |
| 10              | 64QAM  | 1  | 0  | 19.83  | 19.85  | 19.98 | 19.46   | 19.41  | 20.8          |
| 10              | 64QAM  | 1  | 25 | 19.86  | 19.77  | 19.99 | 19.66   | 19.47  |               |
| 10              | 64QAM  | 1  | 49 | 19.85  | 19.83  | 19.82 | 19.64   | 19.47  |               |
| 10              | 64QAM  | 25 | 0  | 19.66  | 20.01  | 19.72 | 19.52   | 19.51  | 20.8          |
| 10              | 64QAM  | 25 | 12 | 19.97  | 19.81  | 19.94 | 19.65   | 19.52  |               |
| 10              | 64QAM  | 25 | 25 | 19.89  | 19.77  | 20.00 | 19.65   | 19.60  |               |
| 10              | 64QAM  | 50 | 0  | 19.79  | 19.77  | 19.72 | 19.70   | 19.60  |               |
| 10              | 256QAM | 1  | 0  | 19.41  | 19.42  | 19.25 | 18.98   | 19.06  | 20.1          |
| 10              | 256QAM | 1  | 25 | 19.25  | 19.30  | 19.36 | 19.15   | 19.07  |               |
| 10              | 256QAM | 1  | 49 | 19.37  | 19.46  | 19.46 | 19.13   | 19.08  |               |
| 10              | 256QAM | 25 | 0  | 19.19  | 19.42  | 19.43 | 19.07   | 19.06  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.25  | 19.43  | 19.43 | 19.08   | 18.91  |               |
| 10              | 256QAM | 25 | 25 | 19.39  | 19.49  | 19.28 | 18.98   | 18.95  |               |
| 10              | 256QAM | 50 | 0  | 19.32  | 19.45  | 19.33 | 19.14   | 18.92  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 19.93  | 20.03  | 19.92 | 19.69   | 19.62  | 20.80         |
| 5               | QPSK   | 1  | 12 | 19.79  | 19.86  | 19.79 | 19.53   | 19.60  |               |
| 5               | QPSK   | 1  | 24 | 19.88  | 19.88  | 19.95 | 19.56   | 19.47  |               |
| 5               | QPSK   | 12 | 0  | 19.85  | 19.85  | 19.99 | 19.72   | 19.53  | 20.8          |
| 5               | QPSK   | 12 | 7  | 19.77  | 19.83  | 19.96 | 19.65   | 19.64  |               |
| 5               | QPSK   | 12 | 13 | 19.85  | 19.85  | 19.84 | 19.71   | 19.39  |               |
| 5               | QPSK   | 25 | 0  | 19.80  | 19.97  | 19.87 | 19.75   | 19.54  |               |
| 5               | 16QAM  | 1  | 0  | 19.79  | 19.84  | 20.01 | 19.66   | 19.58  | 20.8          |
| 5               | 16QAM  | 1  | 12 | 19.88  | 19.73  | 19.74 | 19.61   | 19.55  |               |
| 5               | 16QAM  | 1  | 24 | 19.86  | 19.67  | 19.91 | 19.58   | 19.41  |               |
| 5               | 16QAM  | 12 | 0  | 19.85  | 19.81  | 19.79 | 19.61   | 19.42  | 20.8          |
| 5               | 16QAM  | 12 | 7  | 19.83  | 19.99  | 19.81 | 19.70   | 19.68  |               |
| 5               | 16QAM  | 12 | 13 | 19.77  | 19.76  | 19.96 | 19.63   | 19.53  |               |
| 5               | 16QAM  | 25 | 0  | 19.83  | 19.64  | 19.81 | 19.62   | 19.59  |               |
| 5               | 64QAM  | 1  | 0  | 20.03  | 19.81  | 20.00 | 19.57   | 19.37  | 20.8          |
| 5               | 64QAM  | 1  | 12 | 19.93  | 19.77  | 19.82 | 19.67   | 19.57  |               |
| 5               | 64QAM  | 1  | 24 | 19.73  | 19.95  | 19.92 | 19.63   | 19.51  |               |
| 5               | 64QAM  | 12 | 0  | 19.85  | 19.84  | 19.72 | 19.56   | 19.59  | 20.8          |
| 5               | 64QAM  | 12 | 7  | 19.94  | 19.78  | 19.74 | 19.73   | 19.50  |               |
| 5               | 64QAM  | 12 | 13 | 20.04  | 19.77  | 19.99 | 19.74   | 19.68  |               |
| 5               | 64QAM  | 25 | 0  | 19.86  | 19.88  | 19.75 | 19.68   | 19.51  |               |
| 5               | 256QAM | 1  | 0  | 19.35  | 19.36  | 19.31 | 18.97   | 19.00  | 20.1          |
| 5               | 256QAM | 1  | 12 | 19.34  | 19.28  | 19.21 | 19.03   | 19.00  |               |
| 5               | 256QAM | 1  | 24 | 19.36  | 19.39  | 19.34 | 19.13   | 18.99  |               |
| 5               | 256QAM | 12 | 0  | 19.28  | 19.47  | 19.54 | 19.08   | 18.87  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.34  | 19.36  | 19.38 | 19.03   | 19.02  |               |
| 5               | 256QAM | 12 | 13 | 19.36  | 19.32  | 19.33 | 19.06   | 18.93  |               |
| 5               | 256QAM | 25 | 0  | 19.26  | 19.48  | 19.29 | 19.15   | 18.97  |               |



## &lt;LTE Band 41\_Ant 0\_Index 9&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 22.68                 | 22.71                        | 22.65                    | 22.60                         | 22.60                  | 23                  |
| 20              | QPSK       | 1       | 49        | 22.63                 | 22.64                        | 22.59                    | 22.53                         | 22.55                  |                     |
| 20              | QPSK       | 1       | 99        | 22.65                 | 22.69                        | 22.64                    | 22.59                         | 22.58                  |                     |
| 20              | QPSK       | 50      | 0         | 22.67                 | 22.68                        | 22.65                    | 22.61                         | 22.59                  | 23                  |
| 20              | QPSK       | 50      | 24        | 22.64                 | 22.66                        | 22.63                    | 22.60                         | 22.57                  |                     |
| 20              | QPSK       | 50      | 50        | 22.65                 | 22.65                        | 22.64                    | 22.61                         | 22.56                  |                     |
| 20              | QPSK       | 100     | 0         | 22.63                 | 22.65                        | 22.58                    | 22.55                         | 22.53                  | 23                  |
| 20              | 16QAM      | 1       | 0         | 22.29                 | 22.34                        | 22.31                    | 22.28                         | 22.23                  |                     |
| 20              | 16QAM      | 1       | 49        | 22.22                 | 22.27                        | 22.21                    | 22.20                         | 22.15                  |                     |
| 20              | 16QAM      | 1       | 99        | 22.22                 | 22.32                        | 22.32                    | 22.23                         | 22.14                  | 23                  |
| 20              | 16QAM      | 50      | 0         | 22.28                 | 22.28                        | 22.19                    | 22.16                         | 22.15                  |                     |
| 20              | 16QAM      | 50      | 24        | 22.29                 | 22.27                        | 22.18                    | 22.19                         | 22.16                  |                     |
| 20              | 16QAM      | 50      | 50        | 22.26                 | 22.28                        | 22.19                    | 22.16                         | 22.13                  | 23                  |
| 20              | 16QAM      | 100     | 0         | 22.29                 | 22.28                        | 22.26                    | 22.20                         | 22.17                  |                     |
| 20              | 64QAM      | 1       | 0         | 22.10                 | 22.07                        | 22.12                    | 22.10                         | 22.01                  |                     |
| 20              | 64QAM      | 1       | 49        | 22.14                 | 22.04                        | 22.05                    | 21.98                         | 21.97                  | 23                  |
| 20              | 64QAM      | 1       | 99        | 22.10                 | 22.07                        | 22.08                    | 22.00                         | 21.95                  |                     |
| 20              | 64QAM      | 50      | 0         | 21.24                 | 21.25                        | 21.20                    | 21.17                         | 21.11                  |                     |
| 20              | 64QAM      | 50      | 24        | 21.24                 | 21.26                        | 21.20                    | 21.18                         | 21.13                  | 22.1                |
| 20              | 64QAM      | 50      | 50        | 21.24                 | 21.25                        | 21.19                    | 21.13                         | 21.10                  |                     |
| 20              | 64QAM      | 100     | 0         | 21.25                 | 21.26                        | 21.20                    | 21.16                         | 21.14                  |                     |
| 20              | 256QAM     | 1       | 0         | 19.44                 | 19.27                        | 19.31                    | 19.33                         | 19.29                  | 20.1                |
| 20              | 256QAM     | 1       | 49        | 19.47                 | 19.30                        | 19.25                    | 19.29                         | 19.17                  |                     |
| 20              | 256QAM     | 1       | 99        | 19.47                 | 19.40                        | 19.26                    | 19.31                         | 19.04                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.57                 | 19.52                        | 19.45                    | 19.38                         | 19.40                  | 20.1                |
| 20              | 256QAM     | 50      | 24        | 19.51                 | 19.47                        | 19.41                    | 19.41                         | 19.39                  |                     |
| 20              | 256QAM     | 50      | 50        | 19.51                 | 19.51                        | 19.42                    | 19.43                         | 19.34                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.50                 | 19.53                        | 19.51                    | 19.48                         | 19.46                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 22.55                 | 22.53                        | 22.48                    | 22.47                         | 22.53                  | 23.00               |
| 15              | QPSK       | 1       | 37        | 22.47                 | 22.59                        | 22.44                    | 22.42                         | 22.53                  |                     |
| 15              | QPSK       | 1       | 74        | 22.52                 | 22.49                        | 22.49                    | 22.49                         | 22.47                  |                     |
| 15              | QPSK       | 36      | 0         | 22.61                 | 22.49                        | 22.62                    | 22.52                         | 22.49                  | 23                  |
| 15              | QPSK       | 36      | 20        | 22.61                 | 22.47                        | 22.52                    | 22.40                         | 22.41                  |                     |
| 15              | QPSK       | 36      | 39        | 22.49                 | 22.54                        | 22.62                    | 22.58                         | 22.54                  |                     |
| 15              | QPSK       | 75      | 0         | 22.55                 | 22.57                        | 22.49                    | 22.42                         | 22.40                  | 23                  |
| 15              | 16QAM      | 1       | 0         | 22.11                 | 22.14                        | 22.17                    | 22.17                         | 22.17                  |                     |
| 15              | 16QAM      | 1       | 37        | 22.06                 | 22.20                        | 22.01                    | 22.14                         | 22.06                  |                     |
| 15              | 16QAM      | 1       | 74        | 22.15                 | 22.13                        | 22.24                    | 22.23                         | 22.12                  | 23                  |
| 15              | 16QAM      | 36      | 0         | 22.28                 | 22.25                        | 22.19                    | 21.97                         | 22.10                  |                     |
| 15              | 16QAM      | 36      | 20        | 22.16                 | 22.27                        | 22.05                    | 22.16                         | 22.15                  |                     |
| 15              | 16QAM      | 36      | 39        | 22.24                 | 22.26                        | 22.14                    | 22.07                         | 22.05                  | 23                  |
| 15              | 16QAM      | 75      | 0         | 22.09                 | 22.19                        | 22.17                    | 22.08                         | 22.02                  |                     |
| 15              | 64QAM      | 1       | 0         | 21.97                 | 22.03                        | 21.96                    | 22.07                         | 21.93                  | 23                  |
| 15              | 64QAM      | 1       | 37        | 22.04                 | 21.89                        | 21.94                    | 21.80                         | 21.88                  |                     |
| 15              | 64QAM      | 1       | 74        | 22.03                 | 22.05                        | 21.88                    | 21.93                         | 21.80                  |                     |
| 15              | 64QAM      | 36      | 0         | 21.06                 | 21.14                        | 21.02                    | 21.01                         | 20.98                  | 22.1                |
| 15              | 64QAM      | 36      | 20        | 21.09                 | 21.09                        | 21.20                    | 21.04                         | 20.94                  |                     |
| 15              | 64QAM      | 36      | 39        | 21.12                 | 21.23                        | 21.01                    | 21.12                         | 21.02                  |                     |
| 15              | 64QAM      | 75      | 0         | 21.18                 | 21.16                        | 21.20                    | 21.10                         | 20.96                  | 20.1                |
| 15              | 256QAM     | 1       | 0         | 19.43                 | 19.24                        | 19.21                    | 19.15                         | 19.27                  |                     |
| 15              | 256QAM     | 1       | 37        | 19.44                 | 19.26                        | 19.18                    | 19.15                         | 19.06                  |                     |
| 15              | 256QAM     | 1       | 74        | 19.36                 | 19.24                        | 19.15                    | 19.24                         | 18.96                  | 20.1                |
| 15              | 256QAM     | 36      | 0         | 19.55                 | 19.49                        | 19.37                    | 19.30                         | 19.27                  |                     |
| 15              | 256QAM     | 36      | 20        | 19.36                 | 19.44                        | 19.38                    | 19.32                         | 19.26                  |                     |
| 15              | 256QAM     | 36      | 39        | 19.44                 | 19.38                        | 19.36                    | 19.37                         | 19.14                  |                     |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.44  | 19.37  | 19.45 | 19.37   | 19.33  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 22.52  | 22.51  | 22.65 | 22.40   | 22.54  | 23.00         |
| 10              | QPSK   | 1  | 25 | 22.49  | 22.61  | 22.39 | 22.46   | 22.48  |               |
| 10              | QPSK   | 1  | 49 | 22.46  | 22.66  | 22.52 | 22.42   | 22.53  |               |
| 10              | QPSK   | 25 | 0  | 22.49  | 22.60  | 22.65 | 22.42   | 22.49  | 23            |
| 10              | QPSK   | 25 | 12 | 22.49  | 22.46  | 22.61 | 22.40   | 22.55  |               |
| 10              | QPSK   | 25 | 25 | 22.51  | 22.57  | 22.60 | 22.56   | 22.37  |               |
| 10              | QPSK   | 50 | 0  | 22.63  | 22.65  | 22.46 | 22.42   | 22.40  |               |
| 10              | 16QAM  | 1  | 0  | 22.24  | 22.20  | 22.14 | 22.10   | 22.06  | 23            |
| 10              | 16QAM  | 1  | 25 | 22.08  | 22.16  | 22.07 | 22.08   | 22.08  |               |
| 10              | 16QAM  | 1  | 49 | 22.04  | 22.23  | 22.23 | 22.06   | 22.13  |               |
| 10              | 16QAM  | 25 | 0  | 22.22  | 22.16  | 22.18 | 22.14   | 21.96  | 23            |
| 10              | 16QAM  | 25 | 12 | 22.25  | 22.20  | 22.07 | 22.03   | 22.09  |               |
| 10              | 16QAM  | 25 | 25 | 22.22  | 22.08  | 22.19 | 22.02   | 22.01  |               |
| 10              | 16QAM  | 50 | 0  | 22.20  | 22.21  | 22.21 | 22.08   | 22.14  |               |
| 10              | 64QAM  | 1  | 0  | 22.00  | 21.91  | 21.92 | 22.01   | 21.89  | 23            |
| 10              | 64QAM  | 1  | 25 | 21.94  | 21.94  | 21.96 | 21.98   | 21.77  |               |
| 10              | 64QAM  | 1  | 49 | 22.01  | 22.06  | 21.92 | 21.83   | 21.86  |               |
| 10              | 64QAM  | 25 | 0  | 21.22  | 21.09  | 21.06 | 21.14   | 21.05  | 22.1          |
| 10              | 64QAM  | 25 | 12 | 21.19  | 21.25  | 21.04 | 21.11   | 20.97  |               |
| 10              | 64QAM  | 25 | 25 | 21.20  | 21.19  | 21.17 | 21.10   | 21.06  |               |
| 10              | 64QAM  | 50 | 0  | 21.19  | 21.15  | 21.09 | 21.15   | 20.98  |               |
| 10              | 256QAM | 1  | 0  | 19.30  | 19.08  | 19.27 | 19.17   | 19.27  | 20.1          |
| 10              | 256QAM | 1  | 25 | 19.27  | 19.10  | 19.22 | 19.16   | 19.10  |               |
| 10              | 256QAM | 1  | 49 | 19.32  | 19.38  | 19.26 | 19.17   | 19.01  |               |
| 10              | 256QAM | 25 | 0  | 19.47  | 19.43  | 19.39 | 19.28   | 19.23  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.49  | 19.28  | 19.29 | 19.25   | 19.37  |               |
| 10              | 256QAM | 25 | 25 | 19.42  | 19.49  | 19.42 | 19.24   | 19.18  |               |
| 10              | 256QAM | 50 | 0  | 19.50  | 19.44  | 19.37 | 19.33   | 19.45  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 22.62  | 22.56  | 22.48 | 22.56   | 22.59  | 23.00         |
| 5               | QPSK   | 1  | 12 | 22.60  | 22.64  | 22.53 | 22.36   | 22.38  |               |
| 5               | QPSK   | 1  | 24 | 22.52  | 22.61  | 22.53 | 22.52   | 22.41  |               |
| 5               | QPSK   | 12 | 0  | 22.62  | 22.62  | 22.51 | 22.41   | 22.47  | 23            |
| 5               | QPSK   | 12 | 7  | 22.49  | 22.52  | 22.57 | 22.54   | 22.39  |               |
| 5               | QPSK   | 12 | 13 | 22.51  | 22.46  | 22.46 | 22.54   | 22.48  |               |
| 5               | QPSK   | 25 | 0  | 22.61  | 22.53  | 22.44 | 22.42   | 22.49  |               |
| 5               | 16QAM  | 1  | 0  | 22.24  | 22.18  | 22.24 | 22.10   | 22.12  | 23            |
| 5               | 16QAM  | 1  | 12 | 22.14  | 22.07  | 22.14 | 22.01   | 21.95  |               |
| 5               | 16QAM  | 1  | 24 | 22.03  | 22.21  | 22.19 | 22.03   | 22.08  |               |
| 5               | 16QAM  | 12 | 0  | 22.20  | 22.15  | 22.12 | 22.13   | 21.98  | 23            |
| 5               | 16QAM  | 12 | 7  | 22.19  | 22.21  | 21.98 | 22.19   | 22.09  |               |
| 5               | 16QAM  | 12 | 13 | 22.19  | 22.08  | 22.17 | 22.16   | 21.93  |               |
| 5               | 16QAM  | 25 | 0  | 22.22  | 22.11  | 22.25 | 22.15   | 22.04  |               |
| 5               | 64QAM  | 1  | 0  | 22.01  | 21.92  | 21.96 | 21.91   | 21.83  | 23            |
| 5               | 64QAM  | 1  | 12 | 22.10  | 21.86  | 21.96 | 21.95   | 21.77  |               |
| 5               | 64QAM  | 1  | 24 | 21.99  | 22.06  | 22.01 | 21.82   | 21.86  |               |
| 5               | 64QAM  | 12 | 0  | 21.15  | 21.06  | 21.15 | 21.10   | 20.91  | 22.1          |
| 5               | 64QAM  | 12 | 7  | 21.15  | 21.18  | 21.00 | 21.14   | 21.09  |               |
| 5               | 64QAM  | 12 | 13 | 21.15  | 21.12  | 21.18 | 21.04   | 21.01  |               |
| 5               | 64QAM  | 25 | 0  | 21.12  | 21.24  | 21.20 | 21.05   | 21.07  |               |
| 5               | 256QAM | 1  | 0  | 19.37  | 19.09  | 19.30 | 19.14   | 19.25  | 20.1          |
| 5               | 256QAM | 1  | 12 | 19.27  | 19.19  | 19.14 | 19.28   | 19.17  |               |
| 5               | 256QAM | 1  | 24 | 19.32  | 19.29  | 19.18 | 19.20   | 19.02  |               |
| 5               | 256QAM | 12 | 0  | 19.38  | 19.39  | 19.38 | 19.34   | 19.30  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.33  | 19.45  | 19.30 | 19.30   | 19.22  |               |
| 5               | 256QAM | 12 | 13 | 19.48  | 19.46  | 19.42 | 19.23   | 19.18  |               |
| 5               | 256QAM | 25 | 0  | 19.34  | 19.50  | 19.39 | 19.41   | 19.37  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 22.81                    | 22.63                           | 22.88                       | 22.68                            | 22.64                     | 23.5                   |
| 20              | QPSK       | 1       | 49        | 22.67                    | 22.51                           | 22.87                       | 22.65                            | 22.58                     |                        |
| 20              | QPSK       | 1       | 99        | 22.66                    | 22.62                           | 22.76                       | 22.64                            | 22.59                     |                        |
| 20              | QPSK       | 50      | 0         | 22.66                    | 22.61                           | 22.83                       | 22.61                            | 22.64                     | 23.5                   |
| 20              | QPSK       | 50      | 24        | 22.60                    | 22.56                           | 22.81                       | 22.60                            | 22.52                     |                        |
| 20              | QPSK       | 50      | 50        | 22.61                    | 22.50                           | 22.65                       | 22.61                            | 22.61                     |                        |
| 20              | QPSK       | 100     | 0         | 22.63                    | 22.57                           | 22.72                       | 22.54                            | 22.53                     |                        |
| 20              | 16QAM      | 1       | 0         | 22.18                    | 22.27                           | 22.34                       | 22.28                            | 22.23                     | 23.5                   |
| 20              | 16QAM      | 1       | 49        | 22.28                    | 22.29                           | 22.22                       | 22.10                            | 22.28                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.16                    | 22.26                           | 22.20                       | 22.28                            | 22.20                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.80                    | 21.72                           | 21.99                       | 21.88                            | 21.84                     | 23.1                   |
| 20              | 16QAM      | 50      | 24        | 21.63                    | 21.65                           | 21.65                       | 21.61                            | 21.68                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.72                    | 21.57                           | 21.74                       | 21.63                            | 21.80                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.71                    | 21.85                           | 21.82                       | 21.87                            | 21.81                     |                        |
| 20              | 64QAM      | 1       | 0         | 21.73                    | 21.75                           | 22.15                       | 21.61                            | 21.58                     | 23.1                   |
| 20              | 64QAM      | 1       | 49        | 21.75                    | 21.61                           | 22.01                       | 21.83                            | 21.71                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.88                    | 21.49                           | 21.65                       | 21.68                            | 21.79                     |                        |
| 20              | 64QAM      | 50      | 0         | 20.81                    | 20.52                           | 20.85                       | 20.49                            | 20.58                     | 22.1                   |
| 20              | 64QAM      | 50      | 24        | 20.87                    | 20.62                           | 21.00                       | 20.58                            | 20.62                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.88                    | 20.57                           | 20.91                       | 20.47                            | 20.35                     |                        |
| 20              | 64QAM      | 100     | 0         | 20.76                    | 20.82                           | 20.75                       | 20.62                            | 20.50                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.01                    | 19.04                           | 19.01                       | 19.14                            | 18.81                     | 20.1                   |
| 20              | 256QAM     | 1       | 49        | 18.79                    | 18.71                           | 19.14                       | 19.05                            | 19.02                     |                        |
| 20              | 256QAM     | 1       | 99        | 19.18                    | 18.83                           | 18.97                       | 18.81                            | 18.74                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.04                    | 18.89                           | 19.44                       | 18.81                            | 18.75                     | 20.1                   |
| 20              | 256QAM     | 50      | 24        | 18.96                    | 19.10                           | 19.20                       | 19.00                            | 18.86                     |                        |
| 20              | 256QAM     | 50      | 50        | 18.78                    | 18.75                           | 19.19                       | 18.93                            | 18.77                     |                        |
| 20              | 256QAM     | 100     | 0         | 18.87                    | 18.94                           | 19.27                       | 18.61                            | 18.70                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 22.76                    | 22.51                           | 22.69                       | 22.51                            | 22.51                     | 23.50                  |
| 15              | QPSK       | 1       | 37        | 22.65                    | 22.35                           | 22.86                       | 22.50                            | 22.55                     |                        |
| 15              | QPSK       | 1       | 74        | 22.56                    | 22.62                           | 22.56                       | 22.54                            | 22.46                     |                        |
| 15              | QPSK       | 36      | 0         | 22.50                    | 22.51                           | 22.69                       | 22.62                            | 22.45                     | 23.5                   |
| 15              | QPSK       | 36      | 20        | 22.70                    | 22.48                           | 22.71                       | 22.44                            | 22.46                     |                        |
| 15              | QPSK       | 36      | 39        | 22.59                    | 22.50                           | 22.52                       | 22.55                            | 22.41                     |                        |
| 15              | QPSK       | 75      | 0         | 22.47                    | 22.39                           | 22.61                       | 22.60                            | 22.47                     | 23.5                   |
| 15              | 16QAM      | 1       | 0         | 22.14                    | 22.20                           | 22.22                       | 22.20                            | 22.16                     |                        |
| 15              | 16QAM      | 1       | 37        | 22.12                    | 22.23                           | 22.27                       | 22.14                            | 22.13                     |                        |
| 15              | 16QAM      | 1       | 74        | 22.23                    | 22.24                           | 22.25                       | 22.12                            | 22.27                     | 23.1                   |
| 15              | 16QAM      | 36      | 0         | 21.65                    | 21.58                           | 21.97                       | 21.56                            | 21.69                     |                        |
| 15              | 16QAM      | 36      | 20        | 21.66                    | 21.42                           | 21.89                       | 21.55                            | 21.51                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.54                    | 21.65                           | 21.70                       | 21.70                            | 21.46                     |                        |
| 15              | 16QAM      | 75      | 0         | 21.85                    | 21.71                           | 21.71                       | 21.58                            | 21.63                     | 23.1                   |
| 15              | 64QAM      | 1       | 0         | 21.85                    | 21.62                           | 21.77                       | 21.60                            | 21.79                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.68                    | 21.30                           | 21.82                       | 21.55                            | 21.51                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.53                    | 21.37                           | 21.54                       | 21.58                            | 21.72                     | 22.1                   |
| 15              | 64QAM      | 36      | 0         | 20.83                    | 20.81                           | 20.79                       | 20.50                            | 20.45                     |                        |
| 15              | 64QAM      | 36      | 20        | 20.49                    | 20.47                           | 20.49                       | 20.43                            | 20.38                     |                        |
| 15              | 64QAM      | 36      | 39        | 20.67                    | 20.49                           | 20.59                       | 20.40                            | 20.32                     |                        |
| 15              | 64QAM      | 75      | 0         | 20.84                    | 20.47                           | 20.95                       | 20.63                            | 20.31                     | 20.1                   |
| 15              | 256QAM     | 1       | 0         | 18.98                    | 18.85                           | 19.08                       | 19.01                            | 18.92                     |                        |
| 15              | 256QAM     | 1       | 37        | 19.03                    | 18.75                           | 19.04                       | 18.64                            | 18.94                     |                        |
| 15              | 256QAM     | 1       | 74        | 18.98                    | 18.72                           | 19.03                       | 18.84                            | 19.02                     | 20.1                   |
| 15              | 256QAM     | 36      | 0         | 19.19                    | 19.07                           | 19.05                       | 18.76                            | 18.49                     |                        |
| 15              | 256QAM     | 36      | 20        | 18.91                    | 18.74                           | 18.76                       | 18.66                            | 18.88                     |                        |
| 15              | 256QAM     | 36      | 39        | 18.88                    | 18.69                           | 18.98                       | 18.64                            | 18.57                     |                        |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.08  | 18.89  | 18.90 | 18.70   | 18.42  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 22.78  | 22.62  | 22.73 | 22.66   | 22.57  | 23.50         |
| 10              | QPSK   | 1  | 25 | 22.67  | 22.56  | 22.80 | 22.58   | 22.55  |               |
| 10              | QPSK   | 1  | 49 | 22.62  | 22.42  | 22.60 | 22.57   | 22.38  |               |
| 10              | QPSK   | 25 | 0  | 22.54  | 22.56  | 22.74 | 22.51   | 22.51  | 23.5          |
| 10              | QPSK   | 25 | 12 | 22.68  | 22.40  | 22.78 | 22.52   | 22.42  |               |
| 10              | QPSK   | 25 | 25 | 22.47  | 22.51  | 22.62 | 22.35   | 22.47  |               |
| 10              | QPSK   | 50 | 0  | 22.65  | 22.45  | 22.61 | 22.39   | 22.41  | 23.5          |
| 10              | 16QAM  | 1  | 0  | 22.15  | 22.11  | 22.20 | 22.25   | 22.25  |               |
| 10              | 16QAM  | 1  | 25 | 22.22  | 22.14  | 22.16 | 22.25   | 22.17  |               |
| 10              | 16QAM  | 1  | 49 | 22.28  | 22.22  | 22.10 | 22.20   | 22.19  | 23.1          |
| 10              | 16QAM  | 25 | 0  | 21.70  | 21.53  | 22.00 | 21.73   | 21.54  |               |
| 10              | 16QAM  | 25 | 12 | 21.73  | 21.53  | 21.84 | 21.49   | 21.41  |               |
| 10              | 16QAM  | 25 | 25 | 21.64  | 21.30  | 21.81 | 21.38   | 21.66  | 23.1          |
| 10              | 16QAM  | 50 | 0  | 21.76  | 21.75  | 21.51 | 21.55   | 21.39  |               |
| 10              | 64QAM  | 1  | 0  | 21.68  | 21.49  | 21.91 | 21.43   | 21.51  |               |
| 10              | 64QAM  | 1  | 25 | 21.50  | 21.54  | 21.49 | 21.56   | 21.62  | 23.1          |
| 10              | 64QAM  | 1  | 49 | 21.67  | 21.67  | 21.53 | 21.35   | 21.69  |               |
| 10              | 64QAM  | 25 | 0  | 20.75  | 20.42  | 21.07 | 20.47   | 20.53  |               |
| 10              | 64QAM  | 25 | 12 | 20.57  | 20.71  | 20.76 | 20.22   | 20.35  | 22.1          |
| 10              | 64QAM  | 25 | 25 | 20.50  | 20.60  | 20.97 | 20.44   | 20.34  |               |
| 10              | 64QAM  | 50 | 0  | 20.83  | 20.56  | 20.71 | 20.50   | 20.15  |               |
| 10              | 256QAM | 1  | 0  | 18.99  | 18.71  | 18.97 | 19.06   | 18.74  | 20.1          |
| 10              | 256QAM | 1  | 25 | 18.88  | 18.81  | 19.01 | 18.63   | 18.74  |               |
| 10              | 256QAM | 1  | 49 | 19.03  | 19.03  | 18.93 | 18.64   | 18.54  |               |
| 10              | 256QAM | 25 | 0  | 19.06  | 19.01  | 19.03 | 18.58   | 18.56  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.18  | 18.62  | 19.05 | 18.53   | 18.50  |               |
| 10              | 256QAM | 25 | 25 | 18.83  | 18.86  | 19.01 | 18.77   | 18.46  |               |
| 10              | 256QAM | 50 | 0  | 18.87  | 18.93  | 19.07 | 18.76   | 18.49  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 22.67  | 22.34  | 22.79 | 22.65   | 22.64  | 23.50         |
| 5               | QPSK   | 1  | 12 | 22.60  | 22.44  | 22.81 | 22.43   | 22.56  |               |
| 5               | QPSK   | 1  | 24 | 22.55  | 22.45  | 22.63 | 22.54   | 22.49  |               |
| 5               | QPSK   | 12 | 0  | 22.65  | 22.49  | 22.62 | 22.58   | 22.54  | 23.5          |
| 5               | QPSK   | 12 | 7  | 22.74  | 22.44  | 22.72 | 22.47   | 22.36  |               |
| 5               | QPSK   | 12 | 13 | 22.58  | 22.39  | 22.52 | 22.52   | 22.42  |               |
| 5               | QPSK   | 25 | 0  | 22.57  | 22.38  | 22.68 | 22.42   | 22.53  | 23.5          |
| 5               | 16QAM  | 1  | 0  | 22.18  | 22.13  | 22.12 | 22.29   | 22.11  |               |
| 5               | 16QAM  | 1  | 12 | 22.15  | 22.12  | 22.28 | 22.29   | 22.11  |               |
| 5               | 16QAM  | 1  | 24 | 22.12  | 22.24  | 22.23 | 22.28   | 22.23  | 23.1          |
| 5               | 16QAM  | 12 | 0  | 21.66  | 21.37  | 21.69 | 21.61   | 21.79  |               |
| 5               | 16QAM  | 12 | 7  | 21.61  | 21.63  | 21.74 | 21.44   | 21.71  |               |
| 5               | 16QAM  | 12 | 13 | 21.67  | 21.75  | 21.72 | 21.62   | 21.43  | 23.1          |
| 5               | 16QAM  | 25 | 0  | 21.96  | 21.85  | 21.45 | 21.72   | 21.61  |               |
| 5               | 64QAM  | 1  | 0  | 21.86  | 21.50  | 21.76 | 21.70   | 21.67  |               |
| 5               | 64QAM  | 1  | 12 | 21.42  | 21.50  | 21.59 | 21.57   | 21.56  | 23.1          |
| 5               | 64QAM  | 1  | 24 | 21.43  | 21.49  | 21.56 | 21.43   | 21.53  |               |
| 5               | 64QAM  | 12 | 0  | 20.95  | 20.67  | 21.00 | 20.50   | 20.53  |               |
| 5               | 64QAM  | 12 | 7  | 20.85  | 20.50  | 20.94 | 20.39   | 20.21  | 22.1          |
| 5               | 64QAM  | 12 | 13 | 20.71  | 20.64  | 20.65 | 20.57   | 20.14  |               |
| 5               | 64QAM  | 25 | 0  | 20.58  | 20.76  | 20.87 | 20.26   | 20.36  |               |
| 5               | 256QAM | 1  | 0  | 18.95  | 19.05  | 18.98 | 18.84   | 18.91  | 20.1          |
| 5               | 256QAM | 1  | 12 | 18.79  | 18.64  | 19.10 | 18.71   | 18.70  |               |
| 5               | 256QAM | 1  | 24 | 18.72  | 18.83  | 19.09 | 18.50   | 18.95  |               |
| 5               | 256QAM | 12 | 0  | 18.83  | 18.92  | 19.20 | 18.86   | 18.86  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.08  | 18.67  | 19.16 | 18.74   | 18.96  |               |
| 5               | 256QAM | 12 | 13 | 18.67  | 18.64  | 18.95 | 18.79   | 18.49  |               |
| 5               | 256QAM | 25 | 0  | 19.16  | 18.81  | 19.06 | 18.71   | 18.37  |               |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 20.13                    | 20.14                           | 20.17                       | 20.13                            | 20.02                     | 21.1                   |
| 20              | QPSK       | 1       | 49        | 20.12                    | 20.13                           | 20.11                       | 20.10                            | 19.97                     |                        |
| 20              | QPSK       | 1       | 99        | 20.12                    | 20.11                           | 20.13                       | 20.09                            | 19.92                     |                        |
| 20              | QPSK       | 50      | 0         | 20.09                    | 20.13                           | 20.15                       | 20.13                            | 19.97                     | 21.1                   |
| 20              | QPSK       | 50      | 24        | 20.09                    | 20.13                           | 20.12                       | 20.09                            | 19.94                     |                        |
| 20              | QPSK       | 50      | 50        | 20.06                    | 20.12                           | 20.13                       | 20.09                            | 19.89                     |                        |
| 20              | QPSK       | 100     | 0         | 20.12                    | 20.13                           | 20.14                       | 20.08                            | 19.95                     |                        |
| 20              | 16QAM      | 1       | 0         | 19.92                    | 20.00                           | 19.93                       | 20.10                            | 19.76                     | 21.1                   |
| 20              | 16QAM      | 1       | 49        | 19.86                    | 19.99                           | 19.93                       | 20.05                            | 19.70                     |                        |
| 20              | 16QAM      | 1       | 99        | 19.87                    | 19.93                           | 19.97                       | 20.05                            | 19.70                     |                        |
| 20              | 16QAM      | 50      | 0         | 20.05                    | 20.14                           | 20.16                       | 20.09                            | 19.96                     |                        |
| 20              | 16QAM      | 50      | 24        | 20.08                    | 20.16                           | 20.15                       | 20.12                            | 19.90                     | 21.1                   |
| 20              | 16QAM      | 50      | 50        | 20.09                    | 20.16                           | 20.10                       | 20.16                            | 19.89                     |                        |
| 20              | 16QAM      | 100     | 0         | 20.11                    | 20.11                           | 20.10                       | 20.14                            | 19.97                     |                        |
| 20              | 64QAM      | 1       | 0         | 19.96                    | 19.88                           | 19.96                       | 20.13                            | 19.94                     | 21.1                   |
| 20              | 64QAM      | 1       | 49        | 19.82                    | 19.92                           | 20.03                       | 20.02                            | 19.87                     |                        |
| 20              | 64QAM      | 1       | 99        | 19.90                    | 19.85                           | 20.04                       | 20.06                            | 19.78                     |                        |
| 20              | 64QAM      | 50      | 0         | 20.09                    | 20.13                           | 20.11                       | 20.11                            | 19.94                     | 21.1                   |
| 20              | 64QAM      | 50      | 24        | 20.08                    | 20.14                           | 20.15                       | 20.16                            | 19.94                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.07                    | 20.14                           | 20.11                       | 20.16                            | 19.90                     |                        |
| 20              | 64QAM      | 100     | 0         | 20.10                    | 20.14                           | 20.09                       | 20.14                            | 19.99                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.82                    | 20.08                           | 20.01                       | 20.07                            | 19.84                     | 20.1                   |
| 20              | 256QAM     | 1       | 49        | 19.79                    | 20.00                           | 20.08                       | 20.08                            | 19.68                     |                        |
| 20              | 256QAM     | 1       | 99        | 19.90                    | 19.87                           | 20.02                       | 19.95                            | 19.88                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.99                    | 20.01                           | 20.00                       | 19.97                            | 19.83                     | 20.1                   |
| 20              | 256QAM     | 50      | 24        | 20.01                    | 20.05                           | 20.01                       | 20.04                            | 19.70                     |                        |
| 20              | 256QAM     | 50      | 50        | 20.00                    | 20.10                           | 20.05                       | 19.94                            | 19.95                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.95                    | 20.02                           | 19.92                       | 19.94                            | 19.84                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 19.96                    | 20.03                           | 20.00                       | 19.94                            | 19.82                     | 21.10                  |
| 15              | QPSK       | 1       | 37        | 20.10                    | 19.97                           | 19.98                       | 20.06                            | 19.93                     |                        |
| 15              | QPSK       | 1       | 74        | 20.06                    | 20.08                           | 19.97                       | 20.06                            | 19.80                     |                        |
| 15              | QPSK       | 36      | 0         | 19.96                    | 20.10                           | 20.07                       | 20.13                            | 19.92                     | 21.1                   |
| 15              | QPSK       | 36      | 20        | 20.04                    | 19.96                           | 20.08                       | 19.92                            | 19.82                     |                        |
| 15              | QPSK       | 36      | 39        | 20.02                    | 20.06                           | 19.95                       | 19.99                            | 19.80                     |                        |
| 15              | QPSK       | 75      | 0         | 20.04                    | 20.10                           | 20.11                       | 20.07                            | 19.83                     |                        |
| 15              | 16QAM      | 1       | 0         | 19.73                    | 19.98                           | 19.75                       | 20.05                            | 19.72                     | 21.1                   |
| 15              | 16QAM      | 1       | 37        | 19.83                    | 19.90                           | 19.78                       | 19.93                            | 19.53                     |                        |
| 15              | 16QAM      | 1       | 74        | 19.74                    | 19.89                           | 19.95                       | 19.98                            | 19.50                     |                        |
| 15              | 16QAM      | 36      | 0         | 19.99                    | 20.11                           | 20.03                       | 19.94                            | 19.80                     | 21.1                   |
| 15              | 16QAM      | 36      | 20        | 20.03                    | 20.16                           | 20.00                       | 20.12                            | 19.78                     |                        |
| 15              | 16QAM      | 36      | 39        | 19.92                    | 20.15                           | 20.10                       | 20.01                            | 19.88                     |                        |
| 15              | 16QAM      | 75      | 0         | 20.06                    | 20.00                           | 19.94                       | 20.11                            | 19.84                     |                        |
| 15              | 64QAM      | 1       | 0         | 19.91                    | 19.69                           | 19.89                       | 20.12                            | 19.94                     | 21.1                   |
| 15              | 64QAM      | 1       | 37        | 19.71                    | 19.83                           | 19.83                       | 20.02                            | 19.69                     |                        |
| 15              | 64QAM      | 1       | 74        | 19.76                    | 19.77                           | 19.91                       | 20.03                            | 19.58                     |                        |
| 15              | 64QAM      | 36      | 0         | 19.95                    | 20.07                           | 19.97                       | 20.08                            | 19.88                     | 21.1                   |
| 15              | 64QAM      | 36      | 20        | 19.98                    | 20.11                           | 20.05                       | 20.10                            | 19.75                     |                        |
| 15              | 64QAM      | 36      | 39        | 19.88                    | 20.10                           | 19.95                       | 20.15                            | 19.70                     |                        |
| 15              | 64QAM      | 75      | 0         | 20.08                    | 19.99                           | 19.94                       | 20.13                            | 19.87                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.73                    | 20.08                           | 19.93                       | 20.06                            | 19.78                     | 20.1                   |
| 15              | 256QAM     | 1       | 37        | 19.74                    | 19.83                           | 20.01                       | 19.95                            | 19.60                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.72                    | 19.74                           | 20.02                       | 19.84                            | 19.79                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.84                    | 19.94                           | 19.99                       | 19.80                            | 19.68                     | 20.1                   |
| 15              | 256QAM     | 36      | 20        | 19.97                    | 20.03                           | 19.95                       | 19.94                            | 19.59                     |                        |
| 15              | 256QAM     | 36      | 39        | 20.00                    | 20.06                           | 19.90                       | 19.78                            | 19.95                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.85  | 19.90  | 19.75 | 19.84   | 19.75  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 20.04  | 19.95  | 20.16 | 20.05   | 20.02  | 21.10         |
| 10              | QPSK   | 1  | 25 | 19.96  | 20.13  | 20.03 | 20.09   | 19.79  |               |
| 10              | QPSK   | 1  | 49 | 20.04  | 20.07  | 20.10 | 20.06   | 19.76  |               |
| 10              | QPSK   | 25 | 0  | 20.06  | 19.98  | 20.00 | 20.07   | 19.85  | 21.1          |
| 10              | QPSK   | 25 | 12 | 20.04  | 20.00  | 20.01 | 19.89   | 19.94  |               |
| 10              | QPSK   | 25 | 25 | 20.06  | 19.92  | 20.03 | 19.97   | 19.76  |               |
| 10              | QPSK   | 50 | 0  | 20.08  | 19.96  | 20.04 | 20.01   | 19.90  |               |
| 10              | 16QAM  | 1  | 0  | 19.74  | 19.98  | 19.89 | 19.93   | 19.74  | 21.1          |
| 10              | 16QAM  | 1  | 25 | 19.67  | 19.81  | 19.79 | 19.93   | 19.58  |               |
| 10              | 16QAM  | 1  | 49 | 19.87  | 19.93  | 19.90 | 19.97   | 19.64  |               |
| 10              | 16QAM  | 25 | 0  | 20.02  | 20.10  | 20.00 | 20.06   | 19.86  | 21.1          |
| 10              | 16QAM  | 25 | 12 | 19.88  | 20.15  | 20.14 | 20.02   | 19.87  |               |
| 10              | 16QAM  | 25 | 25 | 19.93  | 19.99  | 20.02 | 20.02   | 19.87  |               |
| 10              | 16QAM  | 50 | 0  | 20.06  | 20.03  | 20.01 | 20.00   | 19.81  |               |
| 10              | 64QAM  | 1  | 0  | 19.91  | 19.82  | 19.82 | 20.03   | 19.74  | 21.1          |
| 10              | 64QAM  | 1  | 25 | 19.73  | 19.78  | 19.90 | 20.02   | 19.79  |               |
| 10              | 64QAM  | 1  | 49 | 19.73  | 19.69  | 20.04 | 20.01   | 19.67  |               |
| 10              | 64QAM  | 25 | 0  | 19.98  | 20.04  | 19.98 | 20.11   | 19.90  | 21.1          |
| 10              | 64QAM  | 25 | 12 | 20.07  | 20.11  | 19.96 | 20.02   | 19.92  |               |
| 10              | 64QAM  | 25 | 25 | 20.07  | 19.99  | 20.08 | 20.08   | 19.73  |               |
| 10              | 64QAM  | 50 | 0  | 19.95  | 19.98  | 20.07 | 20.01   | 19.82  |               |
| 10              | 256QAM | 1  | 0  | 19.62  | 20.03  | 19.96 | 19.95   | 19.71  | 20.1          |
| 10              | 256QAM | 1  | 25 | 19.70  | 19.89  | 20.06 | 19.94   | 19.53  |               |
| 10              | 256QAM | 1  | 49 | 19.89  | 19.75  | 19.97 | 19.87   | 19.88  |               |
| 10              | 256QAM | 25 | 0  | 19.98  | 19.98  | 19.82 | 19.79   | 19.68  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.95  | 19.85  | 19.93 | 20.02   | 19.57  |               |
| 10              | 256QAM | 25 | 25 | 19.99  | 20.00  | 19.92 | 19.90   | 19.82  |               |
| 10              | 256QAM | 50 | 0  | 19.92  | 19.91  | 19.82 | 19.88   | 19.67  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 19.98  | 19.95  | 19.98 | 20.08   | 19.98  | 21.10         |
| 5               | QPSK   | 1  | 12 | 19.99  | 20.01  | 20.10 | 20.03   | 19.78  |               |
| 5               | QPSK   | 1  | 24 | 19.97  | 20.03  | 19.94 | 19.95   | 19.88  |               |
| 5               | QPSK   | 12 | 0  | 20.03  | 20.00  | 19.98 | 20.01   | 19.79  | 21.1          |
| 5               | QPSK   | 12 | 7  | 20.04  | 20.09  | 20.01 | 20.06   | 19.87  |               |
| 5               | QPSK   | 12 | 13 | 20.02  | 19.99  | 20.00 | 20.09   | 19.70  |               |
| 5               | QPSK   | 25 | 0  | 20.06  | 20.04  | 19.95 | 19.93   | 19.79  |               |
| 5               | 16QAM  | 1  | 0  | 19.77  | 19.86  | 19.74 | 19.95   | 19.63  | 21.1          |
| 5               | 16QAM  | 1  | 12 | 19.67  | 19.88  | 19.75 | 19.99   | 19.50  |               |
| 5               | 16QAM  | 1  | 24 | 19.83  | 19.90  | 19.77 | 20.03   | 19.58  |               |
| 5               | 16QAM  | 12 | 0  | 19.87  | 20.11  | 20.05 | 20.09   | 19.81  | 21.1          |
| 5               | 16QAM  | 12 | 7  | 19.92  | 20.09  | 20.15 | 19.93   | 19.76  |               |
| 5               | 16QAM  | 12 | 13 | 20.09  | 19.99  | 20.06 | 20.00   | 19.88  |               |
| 5               | 16QAM  | 25 | 0  | 19.94  | 20.01  | 19.96 | 19.95   | 19.90  |               |
| 5               | 64QAM  | 1  | 0  | 19.96  | 19.79  | 19.93 | 19.97   | 19.83  | 21.1          |
| 5               | 64QAM  | 1  | 12 | 19.81  | 19.84  | 19.84 | 19.94   | 19.76  |               |
| 5               | 64QAM  | 1  | 24 | 19.89  | 19.80  | 20.02 | 20.03   | 19.70  |               |
| 5               | 64QAM  | 12 | 0  | 19.93  | 20.01  | 20.06 | 19.98   | 19.92  | 21.1          |
| 5               | 64QAM  | 12 | 7  | 20.03  | 20.04  | 20.09 | 20.08   | 19.83  |               |
| 5               | 64QAM  | 12 | 13 | 19.87  | 19.99  | 19.99 | 20.10   | 19.76  |               |
| 5               | 64QAM  | 25 | 0  | 20.06  | 20.02  | 19.95 | 20.09   | 19.93  |               |
| 5               | 256QAM | 1  | 0  | 19.63  | 20.03  | 19.86 | 19.90   | 19.74  | 20.1          |
| 5               | 256QAM | 1  | 12 | 19.69  | 19.83  | 20.06 | 20.07   | 19.57  |               |
| 5               | 256QAM | 1  | 24 | 19.73  | 19.81  | 19.95 | 19.94   | 19.80  |               |
| 5               | 256QAM | 12 | 0  | 19.82  | 19.98  | 19.97 | 19.81   | 19.72  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.99  | 19.90  | 19.86 | 19.94   | 19.62  |               |
| 5               | 256QAM | 12 | 13 | 19.95  | 19.91  | 19.91 | 19.87   | 19.78  |               |
| 5               | 256QAM | 25 | 0  | 19.77  | 19.92  | 19.86 | 19.77   | 19.79  |               |



## &lt;LTE Band 41\_Ant 1\_Index 10&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 22.26                    | 22.31                           | 22.30                       | 22.14                            | 21.89                     | 23.6                   |
| 20              | QPSK       | 1       | 49        | 22.19                    | 22.21                           | 22.19                       | 22.02                            | 21.81                     |                        |
| 20              | QPSK       | 1       | 99        | 22.22                    | 22.28                           | 22.26                       | 22.03                            | 21.85                     |                        |
| 20              | QPSK       | 50      | 0         | 22.23                    | 22.30                           | 22.29                       | 22.05                            | 21.83                     | 23.6                   |
| 20              | QPSK       | 50      | 24        | 22.21                    | 22.19                           | 22.25                       | 22.03                            | 21.80                     |                        |
| 20              | QPSK       | 50      | 50        | 22.22                    | 22.20                           | 22.25                       | 22.02                            | 21.81                     |                        |
| 20              | QPSK       | 100     | 0         | 22.22                    | 22.29                           | 22.28                       | 22.04                            | 21.80                     |                        |
| 20              | 16QAM      | 1       | 0         | 22.05                    | 21.92                           | 22.00                       | 21.94                            | 21.92                     | 23.6                   |
| 20              | 16QAM      | 1       | 49        | 21.98                    | 21.79                           | 21.88                       | 21.77                            | 21.85                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.00                    | 21.88                           | 21.94                       | 21.75                            | 21.89                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.91                    | 21.89                           | 21.95                       | 21.79                            | 21.52                     |                        |
| 20              | 16QAM      | 50      | 24        | 21.95                    | 21.91                           | 21.91                       | 21.75                            | 21.53                     | 23.1                   |
| 20              | 16QAM      | 50      | 50        | 21.93                    | 21.93                           | 21.94                       | 21.73                            | 21.51                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.96                    | 22.01                           | 21.99                       | 21.76                            | 21.58                     |                        |
| 20              | 64QAM      | 1       | 0         | 21.89                    | 21.84                           | 21.83                       | 21.65                            | 21.38                     | 23.1                   |
| 20              | 64QAM      | 1       | 49        | 21.78                    | 21.73                           | 21.74                       | 21.52                            | 21.30                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.80                    | 21.75                           | 21.71                       | 21.56                            | 21.34                     |                        |
| 20              | 64QAM      | 50      | 0         | 21.30                    | 21.36                           | 21.40                       | 21.18                            | 20.83                     | 22.1                   |
| 20              | 64QAM      | 50      | 24        | 21.35                    | 21.27                           | 21.46                       | 21.18                            | 20.95                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.28                    | 21.25                           | 21.31                       | 21.17                            | 20.89                     |                        |
| 20              | 64QAM      | 100     | 0         | 21.37                    | 21.33                           | 21.33                       | 21.27                            | 20.95                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.47                    | 19.43                           | 19.57                       | 19.23                            | 19.02                     | 20.1                   |
| 20              | 256QAM     | 1       | 49        | 19.39                    | 19.37                           | 19.38                       | 19.12                            | 18.86                     |                        |
| 20              | 256QAM     | 1       | 99        | 19.54                    | 19.50                           | 19.44                       | 19.11                            | 18.89                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.58                    | 19.47                           | 19.64                       | 19.39                            | 19.04                     | 20.1                   |
| 20              | 256QAM     | 50      | 24        | 19.54                    | 19.57                           | 19.61                       | 19.48                            | 19.30                     |                        |
| 20              | 256QAM     | 50      | 50        | 19.63                    | 19.62                           | 19.61                       | 19.36                            | 19.26                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.68                    | 19.62                           | 19.54                       | 19.44                            | 19.17                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 22.24                    | 22.19                           | 22.22                       | 22.02                            | 21.74                     | 23.60                  |
| 15              | QPSK       | 1       | 37        | 22.13                    | 22.06                           | 22.00                       | 22.00                            | 21.63                     |                        |
| 15              | QPSK       | 1       | 74        | 22.04                    | 22.19                           | 22.06                       | 21.88                            | 21.67                     |                        |
| 15              | QPSK       | 36      | 0         | 22.15                    | 22.17                           | 22.26                       | 21.89                            | 21.77                     | 23.6                   |
| 15              | QPSK       | 36      | 20        | 22.07                    | 22.14                           | 22.12                       | 21.88                            | 21.73                     |                        |
| 15              | QPSK       | 36      | 39        | 22.21                    | 22.17                           | 22.23                       | 22.00                            | 21.73                     |                        |
| 15              | QPSK       | 75      | 0         | 22.22                    | 22.06                           | 22.26                       | 21.86                            | 21.65                     |                        |
| 15              | 16QAM      | 1       | 0         | 21.99                    | 21.80                           | 21.94                       | 21.75                            | 21.83                     | 23.6                   |
| 15              | 16QAM      | 1       | 37        | 21.96                    | 21.80                           | 21.80                       | 21.78                            | 21.65                     |                        |
| 15              | 16QAM      | 1       | 74        | 21.81                    | 21.81                           | 21.93                       | 21.71                            | 21.73                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.87                    | 21.88                           | 21.76                       | 21.59                            | 21.50                     | 23.1                   |
| 15              | 16QAM      | 36      | 20        | 21.77                    | 21.91                           | 21.90                       | 21.75                            | 21.53                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.89                    | 21.88                           | 21.92                       | 21.60                            | 21.51                     |                        |
| 15              | 16QAM      | 75      | 0         | 21.78                    | 21.81                           | 21.92                       | 21.64                            | 21.42                     |                        |
| 15              | 64QAM      | 1       | 0         | 21.75                    | 21.72                           | 21.68                       | 21.55                            | 21.27                     | 23.1                   |
| 15              | 64QAM      | 1       | 37        | 21.65                    | 21.71                           | 21.66                       | 21.45                            | 21.13                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.76                    | 21.71                           | 21.57                       | 21.38                            | 21.20                     |                        |
| 15              | 64QAM      | 36      | 0         | 21.28                    | 21.20                           | 21.20                       | 21.09                            | 20.83                     | 22.1                   |
| 15              | 64QAM      | 36      | 20        | 21.22                    | 21.22                           | 21.23                       | 21.24                            | 20.76                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.14                    | 21.16                           | 21.19                       | 21.15                            | 20.93                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.34                    | 21.34                           | 21.38                       | 21.05                            | 20.75                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.32                    | 19.35                           | 19.31                       | 19.31                            | 18.88                     | 20.1                   |
| 15              | 256QAM     | 1       | 37        | 19.27                    | 19.22                           | 19.24                       | 19.14                            | 18.88                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.47                    | 19.38                           | 19.24                       | 18.87                            | 18.84                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.53                    | 19.25                           | 19.49                       | 19.20                            | 18.89                     | 20.1                   |
| 15              | 256QAM     | 36      | 20        | 19.33                    | 19.64                           | 19.48                       | 19.26                            | 19.06                     |                        |
| 15              | 256QAM     | 36      | 39        | 19.55                    | 19.35                           | 19.31                       | 19.23                            | 19.15                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.64  | 19.41  | 19.61 | 19.36   | 19.23  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 22.25  | 22.12  | 22.22 | 22.01   | 21.83  | 23.60         |
| 10              | QPSK   | 1  | 25 | 21.99  | 22.06  | 21.99 | 21.91   | 21.75  |               |
| 10              | QPSK   | 1  | 49 | 22.08  | 22.11  | 22.19 | 22.00   | 21.65  |               |
| 10              | QPSK   | 25 | 0  | 22.21  | 22.15  | 22.25 | 22.03   | 21.63  | 23.6          |
| 10              | QPSK   | 25 | 12 | 22.20  | 22.04  | 22.05 | 21.89   | 21.79  |               |
| 10              | QPSK   | 25 | 25 | 22.12  | 22.14  | 22.07 | 21.93   | 21.73  |               |
| 10              | QPSK   | 50 | 0  | 22.13  | 22.09  | 22.13 | 21.98   | 21.67  |               |
| 10              | 16QAM  | 1  | 0  | 22.01  | 21.74  | 21.81 | 21.80   | 21.82  | 23.6          |
| 10              | 16QAM  | 1  | 25 | 21.78  | 21.74  | 21.76 | 21.72   | 21.85  |               |
| 10              | 16QAM  | 1  | 49 | 21.89  | 21.78  | 21.79 | 21.70   | 21.74  |               |
| 10              | 16QAM  | 25 | 0  | 21.75  | 21.86  | 21.86 | 21.59   | 21.46  | 23.1          |
| 10              | 16QAM  | 25 | 12 | 21.77  | 21.89  | 21.86 | 21.62   | 21.46  |               |
| 10              | 16QAM  | 25 | 25 | 21.80  | 21.73  | 21.82 | 21.56   | 21.33  |               |
| 10              | 16QAM  | 50 | 0  | 21.86  | 22.01  | 21.97 | 21.56   | 21.49  |               |
| 10              | 64QAM  | 1  | 0  | 21.76  | 21.70  | 21.81 | 21.48   | 21.32  | 23.1          |
| 10              | 64QAM  | 1  | 25 | 21.77  | 21.66  | 21.71 | 21.45   | 21.26  |               |
| 10              | 64QAM  | 1  | 49 | 21.69  | 21.58  | 21.61 | 21.40   | 21.20  |               |
| 10              | 64QAM  | 25 | 0  | 21.31  | 21.24  | 21.22 | 21.08   | 20.73  | 22.1          |
| 10              | 64QAM  | 25 | 12 | 21.10  | 21.28  | 21.24 | 21.11   | 20.76  |               |
| 10              | 64QAM  | 25 | 25 | 21.25  | 21.32  | 21.20 | 21.08   | 20.82  |               |
| 10              | 64QAM  | 50 | 0  | 21.12  | 21.25  | 21.24 | 21.02   | 20.87  |               |
| 10              | 256QAM | 1  | 0  | 19.26  | 19.51  | 19.34 | 19.30   | 19.00  | 20.1          |
| 10              | 256QAM | 1  | 25 | 19.24  | 19.46  | 19.36 | 18.98   | 18.98  |               |
| 10              | 256QAM | 1  | 49 | 19.46  | 19.34  | 19.15 | 19.01   | 18.92  |               |
| 10              | 256QAM | 25 | 0  | 19.57  | 19.39  | 19.44 | 19.30   | 18.93  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.46  | 19.62  | 19.44 | 19.30   | 19.18  |               |
| 10              | 256QAM | 25 | 25 | 19.42  | 19.31  | 19.43 | 19.27   | 19.05  |               |
| 10              | 256QAM | 50 | 0  | 19.35  | 19.43  | 19.45 | 19.25   | 19.06  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 22.22  | 22.14  | 22.28 | 22.13   | 21.83  | 23.60         |
| 5               | QPSK   | 1  | 12 | 22.15  | 22.05  | 22.03 | 22.01   | 21.73  |               |
| 5               | QPSK   | 1  | 24 | 22.08  | 22.23  | 22.23 | 21.91   | 21.77  |               |
| 5               | QPSK   | 12 | 0  | 22.08  | 22.24  | 22.19 | 21.89   | 21.70  | 23.6          |
| 5               | QPSK   | 12 | 7  | 22.21  | 22.16  | 22.22 | 21.97   | 21.67  |               |
| 5               | QPSK   | 12 | 13 | 22.15  | 22.16  | 22.06 | 21.93   | 21.80  |               |
| 5               | QPSK   | 25 | 0  | 22.15  | 22.16  | 22.10 | 21.96   | 21.77  |               |
| 5               | 16QAM  | 1  | 0  | 21.93  | 21.75  | 21.98 | 21.86   | 21.87  | 23.6          |
| 5               | 16QAM  | 1  | 12 | 21.81  | 21.77  | 21.86 | 21.83   | 21.85  |               |
| 5               | 16QAM  | 1  | 24 | 21.87  | 21.73  | 21.81 | 21.80   | 21.85  |               |
| 5               | 16QAM  | 12 | 0  | 21.76  | 21.73  | 21.75 | 21.63   | 21.40  | 23.1          |
| 5               | 16QAM  | 12 | 7  | 21.80  | 21.74  | 21.80 | 21.66   | 21.43  |               |
| 5               | 16QAM  | 12 | 13 | 21.78  | 21.88  | 21.85 | 21.65   | 21.44  |               |
| 5               | 16QAM  | 25 | 0  | 21.86  | 21.94  | 21.98 | 21.57   | 21.55  |               |
| 5               | 64QAM  | 1  | 0  | 21.87  | 21.74  | 21.66 | 21.48   | 21.24  | 23.1          |
| 5               | 64QAM  | 1  | 12 | 21.71  | 21.64  | 21.70 | 21.42   | 21.14  |               |
| 5               | 64QAM  | 1  | 24 | 21.77  | 21.63  | 21.64 | 21.37   | 21.34  |               |
| 5               | 64QAM  | 12 | 0  | 21.32  | 21.32  | 21.11 | 21.10   | 20.82  | 22.1          |
| 5               | 64QAM  | 12 | 7  | 21.26  | 21.16  | 21.46 | 21.15   | 20.88  |               |
| 5               | 64QAM  | 12 | 13 | 21.26  | 21.26  | 21.34 | 21.09   | 20.92  |               |
| 5               | 64QAM  | 25 | 0  | 21.20  | 21.24  | 21.36 | 21.09   | 20.86  |               |
| 5               | 256QAM | 1  | 0  | 19.44  | 19.30  | 19.41 | 19.11   | 18.89  | 20.1          |
| 5               | 256QAM | 1  | 12 | 19.41  | 19.38  | 19.30 | 18.97   | 18.99  |               |
| 5               | 256QAM | 1  | 24 | 19.27  | 19.14  | 19.26 | 19.04   | 18.85  |               |
| 5               | 256QAM | 12 | 0  | 19.53  | 19.33  | 19.63 | 19.38   | 19.05  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.38  | 19.61  | 19.60 | 19.30   | 19.10  |               |
| 5               | 256QAM | 12 | 13 | 19.61  | 19.43  | 19.44 | 19.32   | 19.06  |               |
| 5               | 256QAM | 25 | 0  | 19.40  | 19.55  | 19.66 | 19.29   | 18.98  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 22.68                 | 22.71                        | 22.65                    | 22.60                         | 22.60                  | 23.8                |
| 20              | QPSK       | 1       | 49        | 22.63                 | 22.64                        | 22.59                    | 22.53                         | 22.55                  |                     |
| 20              | QPSK       | 1       | 99        | 22.65                 | 22.69                        | 22.64                    | 22.59                         | 22.58                  |                     |
| 20              | QPSK       | 50      | 0         | 22.67                 | 22.68                        | 22.65                    | 22.61                         | 22.59                  | 23.8                |
| 20              | QPSK       | 50      | 24        | 22.64                 | 22.66                        | 22.63                    | 22.60                         | 22.57                  |                     |
| 20              | QPSK       | 50      | 50        | 22.65                 | 22.65                        | 22.64                    | 22.61                         | 22.56                  |                     |
| 20              | QPSK       | 100     | 0         | 22.63                 | 22.65                        | 22.58                    | 22.55                         | 22.53                  |                     |
| 20              | 16QAM      | 1       | 0         | 22.29                 | 22.34                        | 22.31                    | 22.28                         | 22.23                  | 23.8                |
| 20              | 16QAM      | 1       | 49        | 22.22                 | 22.27                        | 22.21                    | 22.20                         | 22.15                  |                     |
| 20              | 16QAM      | 1       | 99        | 22.22                 | 22.32                        | 22.32                    | 22.23                         | 22.14                  |                     |
| 20              | 16QAM      | 50      | 0         | 22.28                 | 22.28                        | 22.19                    | 22.16                         | 22.15                  | 23.1                |
| 20              | 16QAM      | 50      | 24        | 22.29                 | 22.27                        | 22.18                    | 22.19                         | 22.16                  |                     |
| 20              | 16QAM      | 50      | 50        | 22.26                 | 22.28                        | 22.19                    | 22.16                         | 22.13                  |                     |
| 20              | 16QAM      | 100     | 0         | 22.29                 | 22.28                        | 22.26                    | 22.20                         | 22.17                  |                     |
| 20              | 64QAM      | 1       | 0         | 22.10                 | 22.07                        | 22.12                    | 22.10                         | 22.01                  | 23.1                |
| 20              | 64QAM      | 1       | 49        | 22.14                 | 22.04                        | 22.05                    | 21.98                         | 21.97                  |                     |
| 20              | 64QAM      | 1       | 99        | 22.10                 | 22.07                        | 22.08                    | 22.00                         | 21.95                  |                     |
| 20              | 64QAM      | 50      | 0         | 21.24                 | 21.25                        | 21.20                    | 21.17                         | 21.11                  | 22.1                |
| 20              | 64QAM      | 50      | 24        | 21.24                 | 21.26                        | 21.20                    | 21.18                         | 21.13                  |                     |
| 20              | 64QAM      | 50      | 50        | 21.24                 | 21.25                        | 21.19                    | 21.13                         | 21.10                  |                     |
| 20              | 64QAM      | 100     | 0         | 21.25                 | 21.26                        | 21.20                    | 21.16                         | 21.14                  |                     |
| 20              | 256QAM     | 1       | 0         | 19.44                 | 19.27                        | 19.31                    | 19.33                         | 19.29                  | 20.1                |
| 20              | 256QAM     | 1       | 49        | 19.47                 | 19.30                        | 19.25                    | 19.29                         | 19.17                  |                     |
| 20              | 256QAM     | 1       | 99        | 19.47                 | 19.40                        | 19.26                    | 19.31                         | 19.04                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.57                 | 19.52                        | 19.45                    | 19.38                         | 19.40                  | 20.1                |
| 20              | 256QAM     | 50      | 24        | 19.51                 | 19.47                        | 19.41                    | 19.41                         | 19.39                  |                     |
| 20              | 256QAM     | 50      | 50        | 19.51                 | 19.51                        | 19.42                    | 19.43                         | 19.34                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.50                 | 19.53                        | 19.51                    | 19.48                         | 19.46                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 22.55                 | 22.53                        | 22.48                    | 22.47                         | 22.53                  | 23.80               |
| 15              | QPSK       | 1       | 37        | 22.47                 | 22.59                        | 22.44                    | 22.42                         | 22.53                  |                     |
| 15              | QPSK       | 1       | 74        | 22.52                 | 22.49                        | 22.49                    | 22.49                         | 22.47                  |                     |
| 15              | QPSK       | 36      | 0         | 22.61                 | 22.49                        | 22.62                    | 22.52                         | 22.49                  | 23.8                |
| 15              | QPSK       | 36      | 20        | 22.61                 | 22.47                        | 22.52                    | 22.40                         | 22.41                  |                     |
| 15              | QPSK       | 36      | 39        | 22.49                 | 22.54                        | 22.62                    | 22.58                         | 22.54                  |                     |
| 15              | QPSK       | 75      | 0         | 22.55                 | 22.57                        | 22.49                    | 22.42                         | 22.40                  |                     |
| 15              | 16QAM      | 1       | 0         | 22.11                 | 22.14                        | 22.17                    | 22.17                         | 22.17                  | 23.8                |
| 15              | 16QAM      | 1       | 37        | 22.06                 | 22.20                        | 22.01                    | 22.14                         | 22.06                  |                     |
| 15              | 16QAM      | 1       | 74        | 22.15                 | 22.13                        | 22.24                    | 22.23                         | 22.12                  |                     |
| 15              | 16QAM      | 36      | 0         | 22.28                 | 22.25                        | 22.19                    | 21.97                         | 22.10                  | 23.1                |
| 15              | 16QAM      | 36      | 20        | 22.16                 | 22.27                        | 22.05                    | 22.16                         | 22.15                  |                     |
| 15              | 16QAM      | 36      | 39        | 22.24                 | 22.26                        | 22.14                    | 22.07                         | 22.05                  |                     |
| 15              | 16QAM      | 75      | 0         | 22.09                 | 22.19                        | 22.17                    | 22.08                         | 22.02                  |                     |
| 15              | 64QAM      | 1       | 0         | 21.97                 | 22.03                        | 21.96                    | 22.07                         | 21.93                  | 23.1                |
| 15              | 64QAM      | 1       | 37        | 22.04                 | 21.89                        | 21.94                    | 21.80                         | 21.88                  |                     |
| 15              | 64QAM      | 1       | 74        | 22.03                 | 22.05                        | 21.88                    | 21.93                         | 21.80                  |                     |
| 15              | 64QAM      | 36      | 0         | 21.06                 | 21.14                        | 21.02                    | 21.01                         | 20.98                  | 22.1                |
| 15              | 64QAM      | 36      | 20        | 21.09                 | 21.09                        | 21.20                    | 21.04                         | 20.94                  |                     |
| 15              | 64QAM      | 36      | 39        | 21.12                 | 21.23                        | 21.01                    | 21.12                         | 21.02                  |                     |
| 15              | 64QAM      | 75      | 0         | 21.18                 | 21.16                        | 21.20                    | 21.10                         | 20.96                  |                     |
| 15              | 256QAM     | 1       | 0         | 19.43                 | 19.24                        | 19.21                    | 19.15                         | 19.27                  | 20.1                |
| 15              | 256QAM     | 1       | 37        | 19.44                 | 19.26                        | 19.18                    | 19.15                         | 19.06                  |                     |
| 15              | 256QAM     | 1       | 74        | 19.36                 | 19.24                        | 19.15                    | 19.24                         | 18.96                  |                     |
| 15              | 256QAM     | 36      | 0         | 19.55                 | 19.49                        | 19.37                    | 19.30                         | 19.27                  | 20.1                |
| 15              | 256QAM     | 36      | 20        | 19.36                 | 19.44                        | 19.38                    | 19.32                         | 19.26                  |                     |
| 15              | 256QAM     | 36      | 39        | 19.44                 | 19.38                        | 19.36                    | 19.37                         | 19.14                  |                     |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.44  | 19.37  | 19.45 | 19.37   | 19.33  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 22.52  | 22.51  | 22.65 | 22.40   | 22.54  | 23.80         |
| 10              | QPSK   | 1  | 25 | 22.49  | 22.61  | 22.39 | 22.46   | 22.48  |               |
| 10              | QPSK   | 1  | 49 | 22.46  | 22.66  | 22.52 | 22.42   | 22.53  |               |
| 10              | QPSK   | 25 | 0  | 22.49  | 22.60  | 22.65 | 22.42   | 22.49  | 23.8          |
| 10              | QPSK   | 25 | 12 | 22.49  | 22.46  | 22.61 | 22.40   | 22.55  |               |
| 10              | QPSK   | 25 | 25 | 22.51  | 22.57  | 22.60 | 22.56   | 22.37  |               |
| 10              | QPSK   | 50 | 0  | 22.63  | 22.65  | 22.46 | 22.42   | 22.40  |               |
| 10              | 16QAM  | 1  | 0  | 22.24  | 22.20  | 22.14 | 22.10   | 22.06  | 23.8          |
| 10              | 16QAM  | 1  | 25 | 22.08  | 22.16  | 22.07 | 22.08   | 22.08  |               |
| 10              | 16QAM  | 1  | 49 | 22.04  | 22.23  | 22.23 | 22.06   | 22.13  |               |
| 10              | 16QAM  | 25 | 0  | 22.22  | 22.16  | 22.18 | 22.14   | 21.96  | 23.1          |
| 10              | 16QAM  | 25 | 12 | 22.25  | 22.20  | 22.07 | 22.03   | 22.09  |               |
| 10              | 16QAM  | 25 | 25 | 22.22  | 22.08  | 22.19 | 22.02   | 22.01  |               |
| 10              | 16QAM  | 50 | 0  | 22.20  | 22.21  | 22.21 | 22.08   | 22.14  |               |
| 10              | 64QAM  | 1  | 0  | 22.00  | 21.91  | 21.92 | 22.01   | 21.89  | 23.1          |
| 10              | 64QAM  | 1  | 25 | 21.94  | 21.94  | 21.96 | 21.98   | 21.77  |               |
| 10              | 64QAM  | 1  | 49 | 22.01  | 22.06  | 21.92 | 21.83   | 21.86  |               |
| 10              | 64QAM  | 25 | 0  | 21.22  | 21.09  | 21.06 | 21.14   | 21.05  | 22.1          |
| 10              | 64QAM  | 25 | 12 | 21.19  | 21.25  | 21.04 | 21.11   | 20.97  |               |
| 10              | 64QAM  | 25 | 25 | 21.20  | 21.19  | 21.17 | 21.10   | 21.06  |               |
| 10              | 64QAM  | 50 | 0  | 21.19  | 21.15  | 21.09 | 21.15   | 20.98  |               |
| 10              | 256QAM | 1  | 0  | 19.30  | 19.08  | 19.27 | 19.17   | 19.27  | 20.1          |
| 10              | 256QAM | 1  | 25 | 19.27  | 19.10  | 19.22 | 19.16   | 19.10  |               |
| 10              | 256QAM | 1  | 49 | 19.32  | 19.38  | 19.26 | 19.17   | 19.01  |               |
| 10              | 256QAM | 25 | 0  | 19.47  | 19.43  | 19.39 | 19.28   | 19.23  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.49  | 19.28  | 19.29 | 19.25   | 19.37  |               |
| 10              | 256QAM | 25 | 25 | 19.42  | 19.49  | 19.42 | 19.24   | 19.18  |               |
| 10              | 256QAM | 50 | 0  | 19.50  | 19.44  | 19.37 | 19.33   | 19.45  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 22.62  | 22.56  | 22.48 | 22.56   | 22.59  | 23.80         |
| 5               | QPSK   | 1  | 12 | 22.60  | 22.64  | 22.53 | 22.36   | 22.38  |               |
| 5               | QPSK   | 1  | 24 | 22.52  | 22.61  | 22.53 | 22.52   | 22.41  |               |
| 5               | QPSK   | 12 | 0  | 22.62  | 22.62  | 22.51 | 22.41   | 22.47  | 23.8          |
| 5               | QPSK   | 12 | 7  | 22.49  | 22.52  | 22.57 | 22.54   | 22.39  |               |
| 5               | QPSK   | 12 | 13 | 22.51  | 22.46  | 22.46 | 22.54   | 22.48  |               |
| 5               | QPSK   | 25 | 0  | 22.61  | 22.53  | 22.44 | 22.42   | 22.49  |               |
| 5               | 16QAM  | 1  | 0  | 22.24  | 22.18  | 22.24 | 22.10   | 22.12  | 23.8          |
| 5               | 16QAM  | 1  | 12 | 22.14  | 22.07  | 22.14 | 22.01   | 21.95  |               |
| 5               | 16QAM  | 1  | 24 | 22.03  | 22.21  | 22.19 | 22.03   | 22.08  |               |
| 5               | 16QAM  | 12 | 0  | 22.20  | 22.15  | 22.12 | 22.13   | 21.98  | 23.1          |
| 5               | 16QAM  | 12 | 7  | 22.19  | 22.21  | 21.98 | 22.19   | 22.09  |               |
| 5               | 16QAM  | 12 | 13 | 22.19  | 22.08  | 22.17 | 22.16   | 21.93  |               |
| 5               | 16QAM  | 25 | 0  | 22.22  | 22.11  | 22.25 | 22.15   | 22.04  |               |
| 5               | 64QAM  | 1  | 0  | 22.01  | 21.92  | 21.96 | 21.91   | 21.83  | 23.1          |
| 5               | 64QAM  | 1  | 12 | 22.10  | 21.86  | 21.96 | 21.95   | 21.77  |               |
| 5               | 64QAM  | 1  | 24 | 21.99  | 22.06  | 22.01 | 21.82   | 21.86  |               |
| 5               | 64QAM  | 12 | 0  | 21.15  | 21.06  | 21.15 | 21.10   | 20.91  | 22.1          |
| 5               | 64QAM  | 12 | 7  | 21.15  | 21.18  | 21.00 | 21.14   | 21.09  |               |
| 5               | 64QAM  | 12 | 13 | 21.15  | 21.12  | 21.18 | 21.04   | 21.01  |               |
| 5               | 64QAM  | 25 | 0  | 21.12  | 21.24  | 21.20 | 21.05   | 21.07  |               |
| 5               | 256QAM | 1  | 0  | 19.37  | 19.09  | 19.30 | 19.14   | 19.25  | 20.1          |
| 5               | 256QAM | 1  | 12 | 19.27  | 19.19  | 19.14 | 19.28   | 19.17  |               |
| 5               | 256QAM | 1  | 24 | 19.32  | 19.29  | 19.18 | 19.20   | 19.02  |               |
| 5               | 256QAM | 12 | 0  | 19.38  | 19.39  | 19.38 | 19.34   | 19.30  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.33  | 19.45  | 19.30 | 19.30   | 19.22  |               |
| 5               | 256QAM | 12 | 13 | 19.48  | 19.46  | 19.42 | 19.23   | 19.18  |               |
| 5               | 256QAM | 25 | 0  | 19.34  | 19.50  | 19.39 | 19.41   | 19.37  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 22.81                 | 22.63                        | 22.88                    | 22.68                         | 22.64                  | 24.3                |
| 20              | QPSK       | 1       | 49        | 22.67                 | 22.51                        | 22.87                    | 22.65                         | 22.58                  |                     |
| 20              | QPSK       | 1       | 99        | 22.66                 | 22.62                        | 22.76                    | 22.64                         | 22.59                  |                     |
| 20              | QPSK       | 50      | 0         | 22.66                 | 22.61                        | 22.83                    | 22.61                         | 22.64                  | 24.1                |
| 20              | QPSK       | 50      | 24        | 22.60                 | 22.56                        | 22.81                    | 22.60                         | 22.52                  |                     |
| 20              | QPSK       | 50      | 50        | 22.61                 | 22.50                        | 22.65                    | 22.61                         | 22.61                  |                     |
| 20              | QPSK       | 100     | 0         | 22.63                 | 22.57                        | 22.72                    | 22.54                         | 22.53                  |                     |
| 20              | 16QAM      | 1       | 0         | 22.18                 | 22.27                        | 22.34                    | 22.28                         | 22.23                  | 24.1                |
| 20              | 16QAM      | 1       | 49        | 22.28                 | 22.29                        | 22.22                    | 22.10                         | 22.28                  |                     |
| 20              | 16QAM      | 1       | 99        | 22.16                 | 22.26                        | 22.20                    | 22.28                         | 22.20                  |                     |
| 20              | 16QAM      | 50      | 0         | 21.80                 | 21.72                        | 21.99                    | 21.88                         | 21.84                  | 23.1                |
| 20              | 16QAM      | 50      | 24        | 21.63                 | 21.65                        | 21.65                    | 21.61                         | 21.68                  |                     |
| 20              | 16QAM      | 50      | 50        | 21.72                 | 21.57                        | 21.74                    | 21.63                         | 21.80                  |                     |
| 20              | 16QAM      | 100     | 0         | 21.71                 | 21.85                        | 21.82                    | 21.87                         | 21.81                  |                     |
| 20              | 64QAM      | 1       | 0         | 21.73                 | 21.75                        | 22.15                    | 21.61                         | 21.58                  | 23.1                |
| 20              | 64QAM      | 1       | 49        | 21.75                 | 21.61                        | 22.01                    | 21.83                         | 21.71                  |                     |
| 20              | 64QAM      | 1       | 99        | 21.88                 | 21.49                        | 21.65                    | 21.68                         | 21.79                  |                     |
| 20              | 64QAM      | 50      | 0         | 20.81                 | 20.52                        | 20.85                    | 20.49                         | 20.58                  | 22.1                |
| 20              | 64QAM      | 50      | 24        | 20.87                 | 20.62                        | 21.00                    | 20.58                         | 20.62                  |                     |
| 20              | 64QAM      | 50      | 50        | 20.88                 | 20.57                        | 20.91                    | 20.47                         | 20.35                  |                     |
| 20              | 64QAM      | 100     | 0         | 20.76                 | 20.82                        | 20.75                    | 20.62                         | 20.50                  |                     |
| 20              | 256QAM     | 1       | 0         | 19.01                 | 19.04                        | 19.01                    | 19.14                         | 18.81                  | 20.1                |
| 20              | 256QAM     | 1       | 49        | 18.79                 | 18.71                        | 19.14                    | 19.05                         | 19.02                  |                     |
| 20              | 256QAM     | 1       | 99        | 19.18                 | 18.83                        | 18.97                    | 18.81                         | 18.74                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.04                 | 18.89                        | 19.44                    | 18.81                         | 18.75                  | 20.1                |
| 20              | 256QAM     | 50      | 24        | 18.96                 | 19.10                        | 19.20                    | 19.00                         | 18.86                  |                     |
| 20              | 256QAM     | 50      | 50        | 18.78                 | 18.75                        | 19.19                    | 18.93                         | 18.77                  |                     |
| 20              | 256QAM     | 100     | 0         | 18.87                 | 18.94                        | 19.27                    | 18.61                         | 18.70                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 22.76                 | 22.51                        | 22.69                    | 22.51                         | 22.51                  | 24.30               |
| 15              | QPSK       | 1       | 37        | 22.65                 | 22.35                        | 22.86                    | 22.50                         | 22.55                  |                     |
| 15              | QPSK       | 1       | 74        | 22.56                 | 22.62                        | 22.56                    | 22.54                         | 22.46                  |                     |
| 15              | QPSK       | 36      | 0         | 22.50                 | 22.51                        | 22.69                    | 22.62                         | 22.45                  | 24.1                |
| 15              | QPSK       | 36      | 20        | 22.70                 | 22.48                        | 22.71                    | 22.44                         | 22.46                  |                     |
| 15              | QPSK       | 36      | 39        | 22.59                 | 22.50                        | 22.52                    | 22.55                         | 22.41                  |                     |
| 15              | QPSK       | 75      | 0         | 22.47                 | 22.39                        | 22.61                    | 22.60                         | 22.47                  | 24.1                |
| 15              | 16QAM      | 1       | 0         | 22.14                 | 22.20                        | 22.22                    | 22.20                         | 22.16                  |                     |
| 15              | 16QAM      | 1       | 37        | 22.12                 | 22.23                        | 22.27                    | 22.14                         | 22.13                  |                     |
| 15              | 16QAM      | 1       | 74        | 22.23                 | 22.24                        | 22.25                    | 22.12                         | 22.27                  | 23.1                |
| 15              | 16QAM      | 36      | 0         | 21.65                 | 21.58                        | 21.97                    | 21.56                         | 21.69                  |                     |
| 15              | 16QAM      | 36      | 20        | 21.66                 | 21.42                        | 21.89                    | 21.55                         | 21.51                  |                     |
| 15              | 16QAM      | 36      | 39        | 21.54                 | 21.65                        | 21.70                    | 21.70                         | 21.46                  | 23.1                |
| 15              | 16QAM      | 75      | 0         | 21.85                 | 21.71                        | 21.71                    | 21.58                         | 21.63                  |                     |
| 15              | 64QAM      | 1       | 0         | 21.85                 | 21.62                        | 21.77                    | 21.60                         | 21.79                  | 23.1                |
| 15              | 64QAM      | 1       | 37        | 21.68                 | 21.30                        | 21.82                    | 21.55                         | 21.51                  |                     |
| 15              | 64QAM      | 1       | 74        | 21.53                 | 21.37                        | 21.54                    | 21.58                         | 21.72                  |                     |
| 15              | 64QAM      | 36      | 0         | 20.83                 | 20.81                        | 20.79                    | 20.50                         | 20.45                  | 22.1                |
| 15              | 64QAM      | 36      | 20        | 20.49                 | 20.47                        | 20.49                    | 20.43                         | 20.38                  |                     |
| 15              | 64QAM      | 36      | 39        | 20.67                 | 20.49                        | 20.59                    | 20.40                         | 20.32                  |                     |
| 15              | 64QAM      | 75      | 0         | 20.84                 | 20.47                        | 20.95                    | 20.63                         | 20.31                  | 20.1                |
| 15              | 256QAM     | 1       | 0         | 18.98                 | 18.85                        | 19.08                    | 19.01                         | 18.92                  |                     |
| 15              | 256QAM     | 1       | 37        | 19.03                 | 18.75                        | 19.04                    | 18.64                         | 18.94                  |                     |
| 15              | 256QAM     | 1       | 74        | 18.98                 | 18.72                        | 19.03                    | 18.84                         | 19.02                  | 20.1                |
| 15              | 256QAM     | 36      | 0         | 19.19                 | 19.07                        | 19.05                    | 18.76                         | 18.49                  |                     |
| 15              | 256QAM     | 36      | 20        | 18.91                 | 18.74                        | 18.76                    | 18.66                         | 18.88                  |                     |
| 15              | 256QAM     | 36      | 39        | 18.88                 | 18.69                        | 18.98                    | 18.64                         | 18.57                  |                     |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.08  | 18.89  | 18.90 | 18.70   | 18.42  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 22.78  | 22.62  | 22.73 | 22.66   | 22.57  | 24.30         |
| 10              | QPSK   | 1  | 25 | 22.67  | 22.56  | 22.80 | 22.58   | 22.55  |               |
| 10              | QPSK   | 1  | 49 | 22.62  | 22.42  | 22.60 | 22.57   | 22.38  |               |
| 10              | QPSK   | 25 | 0  | 22.54  | 22.56  | 22.74 | 22.51   | 22.51  | 24.1          |
| 10              | QPSK   | 25 | 12 | 22.68  | 22.40  | 22.78 | 22.52   | 22.42  |               |
| 10              | QPSK   | 25 | 25 | 22.47  | 22.51  | 22.62 | 22.35   | 22.47  |               |
| 10              | QPSK   | 50 | 0  | 22.65  | 22.45  | 22.61 | 22.39   | 22.41  | 24.1          |
| 10              | 16QAM  | 1  | 0  | 22.15  | 22.11  | 22.20 | 22.25   | 22.25  |               |
| 10              | 16QAM  | 1  | 25 | 22.22  | 22.14  | 22.16 | 22.25   | 22.17  |               |
| 10              | 16QAM  | 1  | 49 | 22.28  | 22.22  | 22.10 | 22.20   | 22.19  | 23.1          |
| 10              | 16QAM  | 25 | 0  | 21.70  | 21.53  | 22.00 | 21.73   | 21.54  |               |
| 10              | 16QAM  | 25 | 12 | 21.73  | 21.53  | 21.84 | 21.49   | 21.41  |               |
| 10              | 16QAM  | 25 | 25 | 21.64  | 21.30  | 21.81 | 21.38   | 21.66  | 23.1          |
| 10              | 16QAM  | 50 | 0  | 21.76  | 21.75  | 21.51 | 21.55   | 21.39  |               |
| 10              | 64QAM  | 1  | 0  | 21.68  | 21.49  | 21.91 | 21.43   | 21.51  |               |
| 10              | 64QAM  | 1  | 25 | 21.50  | 21.54  | 21.49 | 21.56   | 21.62  | 22.1          |
| 10              | 64QAM  | 1  | 49 | 21.67  | 21.67  | 21.53 | 21.35   | 21.69  |               |
| 10              | 64QAM  | 25 | 0  | 20.75  | 20.42  | 21.07 | 20.47   | 20.53  |               |
| 10              | 64QAM  | 25 | 12 | 20.57  | 20.71  | 20.76 | 20.22   | 20.35  | 20.1          |
| 10              | 64QAM  | 25 | 25 | 20.50  | 20.60  | 20.97 | 20.44   | 20.34  |               |
| 10              | 64QAM  | 50 | 0  | 20.83  | 20.56  | 20.71 | 20.50   | 20.15  |               |
| 10              | 256QAM | 1  | 0  | 18.99  | 18.71  | 18.97 | 19.06   | 18.74  | 20.1          |
| 10              | 256QAM | 1  | 25 | 18.88  | 18.81  | 19.01 | 18.63   | 18.74  |               |
| 10              | 256QAM | 1  | 49 | 19.03  | 19.03  | 18.93 | 18.64   | 18.54  |               |
| 10              | 256QAM | 25 | 0  | 19.06  | 19.01  | 19.03 | 18.58   | 18.56  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.18  | 18.62  | 19.05 | 18.53   | 18.50  |               |
| 10              | 256QAM | 25 | 25 | 18.83  | 18.86  | 19.01 | 18.77   | 18.46  |               |
| 10              | 256QAM | 50 | 0  | 18.87  | 18.93  | 19.07 | 18.76   | 18.49  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 22.67  | 22.34  | 22.79 | 22.65   | 22.64  | 24.30         |
| 5               | QPSK   | 1  | 12 | 22.60  | 22.44  | 22.81 | 22.43   | 22.56  |               |
| 5               | QPSK   | 1  | 24 | 22.55  | 22.45  | 22.63 | 22.54   | 22.49  |               |
| 5               | QPSK   | 12 | 0  | 22.65  | 22.49  | 22.62 | 22.58   | 22.54  | 24.1          |
| 5               | QPSK   | 12 | 7  | 22.74  | 22.44  | 22.72 | 22.47   | 22.36  |               |
| 5               | QPSK   | 12 | 13 | 22.58  | 22.39  | 22.52 | 22.52   | 22.42  |               |
| 5               | QPSK   | 25 | 0  | 22.57  | 22.38  | 22.68 | 22.42   | 22.53  | 24.1          |
| 5               | 16QAM  | 1  | 0  | 22.18  | 22.13  | 22.12 | 22.29   | 22.11  |               |
| 5               | 16QAM  | 1  | 12 | 22.15  | 22.12  | 22.28 | 22.29   | 22.11  |               |
| 5               | 16QAM  | 1  | 24 | 22.12  | 22.24  | 22.23 | 22.28   | 22.23  | 23.1          |
| 5               | 16QAM  | 12 | 0  | 21.66  | 21.37  | 21.69 | 21.61   | 21.79  |               |
| 5               | 16QAM  | 12 | 7  | 21.61  | 21.63  | 21.74 | 21.44   | 21.71  |               |
| 5               | 16QAM  | 12 | 13 | 21.67  | 21.75  | 21.72 | 21.62   | 21.43  | 23.1          |
| 5               | 16QAM  | 25 | 0  | 21.96  | 21.85  | 21.45 | 21.72   | 21.61  |               |
| 5               | 64QAM  | 1  | 0  | 21.86  | 21.50  | 21.76 | 21.70   | 21.67  |               |
| 5               | 64QAM  | 1  | 12 | 21.42  | 21.50  | 21.59 | 21.57   | 21.56  | 22.1          |
| 5               | 64QAM  | 1  | 24 | 21.43  | 21.49  | 21.56 | 21.43   | 21.53  |               |
| 5               | 64QAM  | 12 | 0  | 20.95  | 20.67  | 21.00 | 20.50   | 20.53  |               |
| 5               | 64QAM  | 12 | 7  | 20.85  | 20.50  | 20.94 | 20.39   | 20.21  | 20.1          |
| 5               | 64QAM  | 12 | 13 | 20.71  | 20.64  | 20.65 | 20.57   | 20.14  |               |
| 5               | 64QAM  | 25 | 0  | 20.58  | 20.76  | 20.87 | 20.26   | 20.36  |               |
| 5               | 256QAM | 1  | 0  | 18.95  | 19.05  | 18.98 | 18.84   | 18.91  | 20.1          |
| 5               | 256QAM | 1  | 12 | 18.79  | 18.64  | 19.10 | 18.71   | 18.70  |               |
| 5               | 256QAM | 1  | 24 | 18.72  | 18.83  | 19.09 | 18.50   | 18.95  |               |
| 5               | 256QAM | 12 | 0  | 18.83  | 18.92  | 19.20 | 18.86   | 18.86  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.08  | 18.67  | 19.16 | 18.74   | 18.96  |               |
| 5               | 256QAM | 12 | 13 | 18.67  | 18.64  | 18.95 | 18.79   | 18.49  |               |
| 5               | 256QAM | 25 | 0  | 19.16  | 18.81  | 19.06 | 18.71   | 18.37  |               |



## &lt;LTE Band 41\_Ant 2\_Index 11&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 20.13                    | 20.14                           | 20.17                       | 20.13                            | 20.02                     | 20.3                   |
| 20              | QPSK       | 1       | 49        | 20.12                    | 20.13                           | 20.11                       | 20.10                            | 19.97                     |                        |
| 20              | QPSK       | 1       | 99        | 20.12                    | 20.11                           | 20.13                       | 20.09                            | 19.92                     |                        |
| 20              | QPSK       | 50      | 0         | 20.09                    | 20.13                           | 20.15                       | 20.13                            | 19.97                     | 20.3                   |
| 20              | QPSK       | 50      | 24        | 20.09                    | 20.13                           | 20.12                       | 20.09                            | 19.94                     |                        |
| 20              | QPSK       | 50      | 50        | 20.06                    | 20.12                           | 20.13                       | 20.09                            | 19.89                     |                        |
| 20              | QPSK       | 100     | 0         | 20.12                    | 20.13                           | 20.14                       | 20.08                            | 19.95                     |                        |
| 20              | 16QAM      | 1       | 0         | 19.92                    | 20.00                           | 19.93                       | 20.10                            | 19.76                     | 20.3                   |
| 20              | 16QAM      | 1       | 49        | 19.86                    | 19.99                           | 19.93                       | 20.05                            | 19.70                     |                        |
| 20              | 16QAM      | 1       | 99        | 19.87                    | 19.93                           | 19.97                       | 20.05                            | 19.70                     |                        |
| 20              | 16QAM      | 50      | 0         | 20.05                    | 20.14                           | 20.16                       | 20.09                            | 19.96                     |                        |
| 20              | 16QAM      | 50      | 24        | 20.08                    | 20.16                           | 20.15                       | 20.12                            | 19.90                     | 20.3                   |
| 20              | 16QAM      | 50      | 50        | 20.09                    | 20.16                           | 20.10                       | 20.16                            | 19.89                     |                        |
| 20              | 16QAM      | 100     | 0         | 20.11                    | 20.11                           | 20.10                       | 20.14                            | 19.97                     |                        |
| 20              | 64QAM      | 1       | 0         | 19.96                    | 19.88                           | 19.96                       | 20.13                            | 19.94                     | 20.3                   |
| 20              | 64QAM      | 1       | 49        | 19.82                    | 19.92                           | 20.03                       | 20.02                            | 19.87                     |                        |
| 20              | 64QAM      | 1       | 99        | 19.90                    | 19.85                           | 20.04                       | 20.06                            | 19.78                     |                        |
| 20              | 64QAM      | 50      | 0         | 20.09                    | 20.13                           | 20.11                       | 20.11                            | 19.94                     | 20.3                   |
| 20              | 64QAM      | 50      | 24        | 20.08                    | 20.14                           | 20.15                       | 20.16                            | 19.94                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.07                    | 20.14                           | 20.11                       | 20.16                            | 19.90                     |                        |
| 20              | 64QAM      | 100     | 0         | 20.10                    | 20.14                           | 20.09                       | 20.14                            | 19.99                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.82                    | 20.08                           | 20.01                       | 20.07                            | 19.84                     | 20.1                   |
| 20              | 256QAM     | 1       | 49        | 19.79                    | 20.00                           | 20.08                       | 20.08                            | 19.68                     |                        |
| 20              | 256QAM     | 1       | 99        | 19.90                    | 19.87                           | 20.02                       | 19.95                            | 19.88                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.99                    | 20.01                           | 20.00                       | 19.97                            | 19.83                     | 20.1                   |
| 20              | 256QAM     | 50      | 24        | 20.01                    | 20.05                           | 20.01                       | 20.04                            | 19.70                     |                        |
| 20              | 256QAM     | 50      | 50        | 20.00                    | 20.10                           | 20.05                       | 19.94                            | 19.95                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.95                    | 20.02                           | 19.92                       | 19.94                            | 19.84                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 19.96                    | 20.03                           | 20.00                       | 19.94                            | 19.82                     | 20.30                  |
| 15              | QPSK       | 1       | 37        | 20.10                    | 19.97                           | 19.98                       | 20.06                            | 19.93                     |                        |
| 15              | QPSK       | 1       | 74        | 20.06                    | 20.08                           | 19.97                       | 20.06                            | 19.80                     |                        |
| 15              | QPSK       | 36      | 0         | 19.96                    | 20.10                           | 20.07                       | 20.13                            | 19.92                     | 20.3                   |
| 15              | QPSK       | 36      | 20        | 20.04                    | 19.96                           | 20.08                       | 19.92                            | 19.82                     |                        |
| 15              | QPSK       | 36      | 39        | 20.02                    | 20.06                           | 19.95                       | 19.99                            | 19.80                     |                        |
| 15              | QPSK       | 75      | 0         | 20.04                    | 20.10                           | 20.11                       | 20.07                            | 19.83                     |                        |
| 15              | 16QAM      | 1       | 0         | 19.73                    | 19.98                           | 19.75                       | 20.05                            | 19.72                     | 20.3                   |
| 15              | 16QAM      | 1       | 37        | 19.83                    | 19.90                           | 19.78                       | 19.93                            | 19.53                     |                        |
| 15              | 16QAM      | 1       | 74        | 19.74                    | 19.89                           | 19.95                       | 19.98                            | 19.50                     |                        |
| 15              | 16QAM      | 36      | 0         | 19.99                    | 20.11                           | 20.03                       | 19.94                            | 19.80                     | 20.3                   |
| 15              | 16QAM      | 36      | 20        | 20.03                    | 20.16                           | 20.00                       | 20.12                            | 19.78                     |                        |
| 15              | 16QAM      | 36      | 39        | 19.92                    | 20.15                           | 20.10                       | 20.01                            | 19.88                     |                        |
| 15              | 16QAM      | 75      | 0         | 20.06                    | 20.00                           | 19.94                       | 20.11                            | 19.84                     |                        |
| 15              | 64QAM      | 1       | 0         | 19.91                    | 19.69                           | 19.89                       | 20.12                            | 19.94                     | 20.3                   |
| 15              | 64QAM      | 1       | 37        | 19.71                    | 19.83                           | 19.83                       | 20.02                            | 19.69                     |                        |
| 15              | 64QAM      | 1       | 74        | 19.76                    | 19.77                           | 19.91                       | 20.03                            | 19.58                     |                        |
| 15              | 64QAM      | 36      | 0         | 19.95                    | 20.07                           | 19.97                       | 20.08                            | 19.88                     | 20.3                   |
| 15              | 64QAM      | 36      | 20        | 19.98                    | 20.11                           | 20.05                       | 20.10                            | 19.75                     |                        |
| 15              | 64QAM      | 36      | 39        | 19.88                    | 20.10                           | 19.95                       | 20.15                            | 19.70                     |                        |
| 15              | 64QAM      | 75      | 0         | 20.08                    | 19.99                           | 19.94                       | 20.13                            | 19.87                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.73                    | 20.08                           | 19.93                       | 20.06                            | 19.78                     | 20.1                   |
| 15              | 256QAM     | 1       | 37        | 19.74                    | 19.83                           | 20.01                       | 19.95                            | 19.60                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.72                    | 19.74                           | 20.02                       | 19.84                            | 19.79                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.84                    | 19.94                           | 19.99                       | 19.80                            | 19.68                     | 20.1                   |
| 15              | 256QAM     | 36      | 20        | 19.97                    | 20.03                           | 19.95                       | 19.94                            | 19.59                     |                        |
| 15              | 256QAM     | 36      | 39        | 20.00                    | 20.06                           | 19.90                       | 19.78                            | 19.95                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.85  | 19.90  | 19.75 | 19.84   | 19.75  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 20.04  | 19.95  | 20.16 | 20.05   | 20.02  | 20.30         |
| 10              | QPSK   | 1  | 25 | 19.96  | 20.13  | 20.03 | 20.09   | 19.79  |               |
| 10              | QPSK   | 1  | 49 | 20.04  | 20.07  | 20.10 | 20.06   | 19.76  |               |
| 10              | QPSK   | 25 | 0  | 20.06  | 19.98  | 20.00 | 20.07   | 19.85  | 20.3          |
| 10              | QPSK   | 25 | 12 | 20.04  | 20.00  | 20.01 | 19.89   | 19.94  |               |
| 10              | QPSK   | 25 | 25 | 20.06  | 19.92  | 20.03 | 19.97   | 19.76  |               |
| 10              | QPSK   | 50 | 0  | 20.08  | 19.96  | 20.04 | 20.01   | 19.90  |               |
| 10              | 16QAM  | 1  | 0  | 19.74  | 19.98  | 19.89 | 19.93   | 19.74  | 20.3          |
| 10              | 16QAM  | 1  | 25 | 19.67  | 19.81  | 19.79 | 19.93   | 19.58  |               |
| 10              | 16QAM  | 1  | 49 | 19.87  | 19.93  | 19.90 | 19.97   | 19.64  |               |
| 10              | 16QAM  | 25 | 0  | 20.02  | 20.10  | 20.00 | 20.06   | 19.86  | 20.3          |
| 10              | 16QAM  | 25 | 12 | 19.88  | 20.15  | 20.14 | 20.02   | 19.87  |               |
| 10              | 16QAM  | 25 | 25 | 19.93  | 19.99  | 20.02 | 20.02   | 19.87  |               |
| 10              | 16QAM  | 50 | 0  | 20.06  | 20.03  | 20.01 | 20.00   | 19.81  |               |
| 10              | 64QAM  | 1  | 0  | 19.91  | 19.82  | 19.82 | 20.03   | 19.74  | 20.3          |
| 10              | 64QAM  | 1  | 25 | 19.73  | 19.78  | 19.90 | 20.02   | 19.79  |               |
| 10              | 64QAM  | 1  | 49 | 19.73  | 19.69  | 20.04 | 20.01   | 19.67  |               |
| 10              | 64QAM  | 25 | 0  | 19.98  | 20.04  | 19.98 | 20.11   | 19.90  | 20.3          |
| 10              | 64QAM  | 25 | 12 | 20.07  | 20.11  | 19.96 | 20.02   | 19.92  |               |
| 10              | 64QAM  | 25 | 25 | 20.07  | 19.99  | 20.08 | 20.08   | 19.73  |               |
| 10              | 64QAM  | 50 | 0  | 19.95  | 19.98  | 20.07 | 20.01   | 19.82  |               |
| 10              | 256QAM | 1  | 0  | 19.62  | 20.03  | 19.96 | 19.95   | 19.71  | 20.1          |
| 10              | 256QAM | 1  | 25 | 19.70  | 19.89  | 20.06 | 19.94   | 19.53  |               |
| 10              | 256QAM | 1  | 49 | 19.89  | 19.75  | 19.97 | 19.87   | 19.88  |               |
| 10              | 256QAM | 25 | 0  | 19.98  | 19.98  | 19.82 | 19.79   | 19.68  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.95  | 19.85  | 19.93 | 20.02   | 19.57  |               |
| 10              | 256QAM | 25 | 25 | 19.99  | 20.00  | 19.92 | 19.90   | 19.82  |               |
| 10              | 256QAM | 50 | 0  | 19.92  | 19.91  | 19.82 | 19.88   | 19.67  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 19.98  | 19.95  | 19.98 | 20.08   | 19.98  | 20.30         |
| 5               | QPSK   | 1  | 12 | 19.99  | 20.01  | 20.10 | 20.03   | 19.78  |               |
| 5               | QPSK   | 1  | 24 | 19.97  | 20.03  | 19.94 | 19.95   | 19.88  |               |
| 5               | QPSK   | 12 | 0  | 20.03  | 20.00  | 19.98 | 20.01   | 19.79  | 20.3          |
| 5               | QPSK   | 12 | 7  | 20.04  | 20.09  | 20.01 | 20.06   | 19.87  |               |
| 5               | QPSK   | 12 | 13 | 20.02  | 19.99  | 20.00 | 20.09   | 19.70  |               |
| 5               | QPSK   | 25 | 0  | 20.06  | 20.04  | 19.95 | 19.93   | 19.79  |               |
| 5               | 16QAM  | 1  | 0  | 19.77  | 19.86  | 19.74 | 19.95   | 19.63  | 20.3          |
| 5               | 16QAM  | 1  | 12 | 19.67  | 19.88  | 19.75 | 19.99   | 19.50  |               |
| 5               | 16QAM  | 1  | 24 | 19.83  | 19.90  | 19.77 | 20.03   | 19.58  |               |
| 5               | 16QAM  | 12 | 0  | 19.87  | 20.11  | 20.05 | 20.09   | 19.81  | 20.3          |
| 5               | 16QAM  | 12 | 7  | 19.92  | 20.09  | 20.15 | 19.93   | 19.76  |               |
| 5               | 16QAM  | 12 | 13 | 20.09  | 19.99  | 20.06 | 20.00   | 19.88  |               |
| 5               | 16QAM  | 25 | 0  | 19.94  | 20.01  | 19.96 | 19.95   | 19.90  |               |
| 5               | 64QAM  | 1  | 0  | 19.96  | 19.79  | 19.93 | 19.97   | 19.83  | 20.3          |
| 5               | 64QAM  | 1  | 12 | 19.81  | 19.84  | 19.84 | 19.94   | 19.76  |               |
| 5               | 64QAM  | 1  | 24 | 19.89  | 19.80  | 20.02 | 20.03   | 19.70  |               |
| 5               | 64QAM  | 12 | 0  | 19.93  | 20.01  | 20.06 | 19.98   | 19.92  | 20.3          |
| 5               | 64QAM  | 12 | 7  | 20.03  | 20.04  | 20.09 | 20.08   | 19.83  |               |
| 5               | 64QAM  | 12 | 13 | 19.87  | 19.99  | 19.99 | 20.10   | 19.76  |               |
| 5               | 64QAM  | 25 | 0  | 20.06  | 20.02  | 19.95 | 20.09   | 19.93  |               |
| 5               | 256QAM | 1  | 0  | 19.63  | 20.03  | 19.86 | 19.90   | 19.74  | 20.1          |
| 5               | 256QAM | 1  | 12 | 19.69  | 19.83  | 20.06 | 20.07   | 19.57  |               |
| 5               | 256QAM | 1  | 24 | 19.73  | 19.81  | 19.95 | 19.94   | 19.80  |               |
| 5               | 256QAM | 12 | 0  | 19.82  | 19.98  | 19.97 | 19.81   | 19.72  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.99  | 19.90  | 19.86 | 19.94   | 19.62  |               |
| 5               | 256QAM | 12 | 13 | 19.95  | 19.91  | 19.91 | 19.87   | 19.78  |               |
| 5               | 256QAM | 25 | 0  | 19.77  | 19.92  | 19.86 | 19.77   | 19.79  |               |

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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 22.26                    | 22.31                           | 22.30                       | 22.14                            | 21.89                     | 22.8                   |
| 20              | QPSK       | 1       | 49        | 22.19                    | 22.21                           | 22.19                       | 22.02                            | 21.81                     |                        |
| 20              | QPSK       | 1       | 99        | 22.22                    | 22.28                           | 22.26                       | 22.03                            | 21.85                     |                        |
| 20              | QPSK       | 50      | 0         | 22.23                    | 22.30                           | 22.29                       | 22.05                            | 21.83                     | 22.8                   |
| 20              | QPSK       | 50      | 24        | 22.21                    | 22.19                           | 22.25                       | 22.03                            | 21.80                     |                        |
| 20              | QPSK       | 50      | 50        | 22.22                    | 22.20                           | 22.25                       | 22.02                            | 21.81                     |                        |
| 20              | QPSK       | 100     | 0         | 22.22                    | 22.29                           | 22.28                       | 22.04                            | 21.80                     |                        |
| 20              | 16QAM      | 1       | 0         | 22.05                    | 21.92                           | 22.00                       | 21.94                            | 21.92                     | 22.8                   |
| 20              | 16QAM      | 1       | 49        | 21.98                    | 21.79                           | 21.88                       | 21.77                            | 21.85                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.00                    | 21.88                           | 21.94                       | 21.75                            | 21.89                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.91                    | 21.89                           | 21.95                       | 21.79                            | 21.52                     |                        |
| 20              | 16QAM      | 50      | 24        | 21.95                    | 21.91                           | 21.91                       | 21.75                            | 21.53                     | 22.8                   |
| 20              | 16QAM      | 50      | 50        | 21.93                    | 21.93                           | 21.94                       | 21.73                            | 21.51                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.96                    | 22.01                           | 21.99                       | 21.76                            | 21.58                     |                        |
| 20              | 64QAM      | 1       | 0         | 21.89                    | 21.84                           | 21.83                       | 21.65                            | 21.38                     | 22.8                   |
| 20              | 64QAM      | 1       | 49        | 21.78                    | 21.73                           | 21.74                       | 21.52                            | 21.30                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.80                    | 21.75                           | 21.71                       | 21.56                            | 21.34                     |                        |
| 20              | 64QAM      | 50      | 0         | 21.30                    | 21.36                           | 21.40                       | 21.18                            | 20.83                     | 22.1                   |
| 20              | 64QAM      | 50      | 24        | 21.35                    | 21.27                           | 21.46                       | 21.18                            | 20.95                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.28                    | 21.25                           | 21.31                       | 21.17                            | 20.89                     |                        |
| 20              | 64QAM      | 100     | 0         | 21.37                    | 21.33                           | 21.33                       | 21.27                            | 20.95                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.47                    | 19.43                           | 19.57                       | 19.23                            | 19.02                     | 20.1                   |
| 20              | 256QAM     | 1       | 49        | 19.39                    | 19.37                           | 19.38                       | 19.12                            | 18.86                     |                        |
| 20              | 256QAM     | 1       | 99        | 19.54                    | 19.50                           | 19.44                       | 19.11                            | 18.89                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.58                    | 19.47                           | 19.64                       | 19.39                            | 19.04                     | 20.1                   |
| 20              | 256QAM     | 50      | 24        | 19.54                    | 19.57                           | 19.61                       | 19.48                            | 19.30                     |                        |
| 20              | 256QAM     | 50      | 50        | 19.63                    | 19.62                           | 19.61                       | 19.36                            | 19.26                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.68                    | 19.62                           | 19.54                       | 19.44                            | 19.17                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 22.24                    | 22.19                           | 22.22                       | 22.02                            | 21.74                     | 22.80                  |
| 15              | QPSK       | 1       | 37        | 22.13                    | 22.06                           | 22.00                       | 22.00                            | 21.63                     |                        |
| 15              | QPSK       | 1       | 74        | 22.04                    | 22.19                           | 22.06                       | 21.88                            | 21.67                     |                        |
| 15              | QPSK       | 36      | 0         | 22.15                    | 22.17                           | 22.26                       | 21.89                            | 21.77                     | 22.8                   |
| 15              | QPSK       | 36      | 20        | 22.07                    | 22.14                           | 22.12                       | 21.88                            | 21.73                     |                        |
| 15              | QPSK       | 36      | 39        | 22.21                    | 22.17                           | 22.23                       | 22.00                            | 21.73                     |                        |
| 15              | QPSK       | 75      | 0         | 22.22                    | 22.06                           | 22.26                       | 21.86                            | 21.65                     |                        |
| 15              | 16QAM      | 1       | 0         | 21.99                    | 21.80                           | 21.94                       | 21.75                            | 21.83                     | 22.8                   |
| 15              | 16QAM      | 1       | 37        | 21.96                    | 21.80                           | 21.80                       | 21.78                            | 21.65                     |                        |
| 15              | 16QAM      | 1       | 74        | 21.81                    | 21.81                           | 21.93                       | 21.71                            | 21.73                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.87                    | 21.88                           | 21.76                       | 21.59                            | 21.50                     | 22.8                   |
| 15              | 16QAM      | 36      | 20        | 21.77                    | 21.91                           | 21.90                       | 21.75                            | 21.53                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.89                    | 21.88                           | 21.92                       | 21.60                            | 21.51                     |                        |
| 15              | 16QAM      | 75      | 0         | 21.78                    | 21.81                           | 21.92                       | 21.64                            | 21.42                     |                        |
| 15              | 64QAM      | 1       | 0         | 21.75                    | 21.72                           | 21.68                       | 21.55                            | 21.27                     | 22.8                   |
| 15              | 64QAM      | 1       | 37        | 21.65                    | 21.71                           | 21.66                       | 21.45                            | 21.13                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.76                    | 21.71                           | 21.57                       | 21.38                            | 21.20                     |                        |
| 15              | 64QAM      | 36      | 0         | 21.28                    | 21.20                           | 21.20                       | 21.09                            | 20.83                     | 22.1                   |
| 15              | 64QAM      | 36      | 20        | 21.22                    | 21.22                           | 21.23                       | 21.24                            | 20.76                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.14                    | 21.16                           | 21.19                       | 21.15                            | 20.93                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.34                    | 21.34                           | 21.38                       | 21.05                            | 20.75                     |                        |
| 15              | 256QAM     | 1       | 0         | 19.32                    | 19.35                           | 19.31                       | 19.31                            | 18.88                     | 20.1                   |
| 15              | 256QAM     | 1       | 37        | 19.27                    | 19.22                           | 19.24                       | 19.14                            | 18.88                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.47                    | 19.38                           | 19.24                       | 18.87                            | 18.84                     |                        |
| 15              | 256QAM     | 36      | 0         | 19.53                    | 19.25                           | 19.49                       | 19.20                            | 18.89                     | 20.1                   |
| 15              | 256QAM     | 36      | 20        | 19.33                    | 19.64                           | 19.48                       | 19.26                            | 19.06                     |                        |
| 15              | 256QAM     | 36      | 39        | 19.55                    | 19.35                           | 19.31                       | 19.23                            | 19.15                     |                        |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.64  | 19.41  | 19.61 | 19.36   | 19.23  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 22.25  | 22.12  | 22.22 | 22.01   | 21.83  | 22.80         |
| 10              | QPSK   | 1  | 25 | 21.99  | 22.06  | 21.99 | 21.91   | 21.75  |               |
| 10              | QPSK   | 1  | 49 | 22.08  | 22.11  | 22.19 | 22.00   | 21.65  |               |
| 10              | QPSK   | 25 | 0  | 22.21  | 22.15  | 22.25 | 22.03   | 21.63  | 22.8          |
| 10              | QPSK   | 25 | 12 | 22.20  | 22.04  | 22.05 | 21.89   | 21.79  |               |
| 10              | QPSK   | 25 | 25 | 22.12  | 22.14  | 22.07 | 21.93   | 21.73  |               |
| 10              | QPSK   | 50 | 0  | 22.13  | 22.09  | 22.13 | 21.98   | 21.67  |               |
| 10              | 16QAM  | 1  | 0  | 22.01  | 21.74  | 21.81 | 21.80   | 21.82  | 22.8          |
| 10              | 16QAM  | 1  | 25 | 21.78  | 21.74  | 21.76 | 21.72   | 21.85  |               |
| 10              | 16QAM  | 1  | 49 | 21.89  | 21.78  | 21.79 | 21.70   | 21.74  |               |
| 10              | 16QAM  | 25 | 0  | 21.75  | 21.86  | 21.86 | 21.59   | 21.46  | 22.8          |
| 10              | 16QAM  | 25 | 12 | 21.77  | 21.89  | 21.86 | 21.62   | 21.46  |               |
| 10              | 16QAM  | 25 | 25 | 21.80  | 21.73  | 21.82 | 21.56   | 21.33  |               |
| 10              | 16QAM  | 50 | 0  | 21.86  | 22.01  | 21.97 | 21.56   | 21.49  |               |
| 10              | 64QAM  | 1  | 0  | 21.76  | 21.70  | 21.81 | 21.48   | 21.32  | 22.8          |
| 10              | 64QAM  | 1  | 25 | 21.77  | 21.66  | 21.71 | 21.45   | 21.26  |               |
| 10              | 64QAM  | 1  | 49 | 21.69  | 21.58  | 21.61 | 21.40   | 21.20  |               |
| 10              | 64QAM  | 25 | 0  | 21.31  | 21.24  | 21.22 | 21.08   | 20.73  | 22.1          |
| 10              | 64QAM  | 25 | 12 | 21.10  | 21.28  | 21.24 | 21.11   | 20.76  |               |
| 10              | 64QAM  | 25 | 25 | 21.25  | 21.32  | 21.20 | 21.08   | 20.82  |               |
| 10              | 64QAM  | 50 | 0  | 21.12  | 21.25  | 21.24 | 21.02   | 20.87  |               |
| 10              | 256QAM | 1  | 0  | 19.26  | 19.51  | 19.34 | 19.30   | 19.00  | 20.1          |
| 10              | 256QAM | 1  | 25 | 19.24  | 19.46  | 19.36 | 18.98   | 18.98  |               |
| 10              | 256QAM | 1  | 49 | 19.46  | 19.34  | 19.15 | 19.01   | 18.92  |               |
| 10              | 256QAM | 25 | 0  | 19.57  | 19.39  | 19.44 | 19.30   | 18.93  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.46  | 19.62  | 19.44 | 19.30   | 19.18  |               |
| 10              | 256QAM | 25 | 25 | 19.42  | 19.31  | 19.43 | 19.27   | 19.05  |               |
| 10              | 256QAM | 50 | 0  | 19.35  | 19.43  | 19.45 | 19.25   | 19.06  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 22.22  | 22.14  | 22.28 | 22.13   | 21.83  | 22.80         |
| 5               | QPSK   | 1  | 12 | 22.15  | 22.05  | 22.03 | 22.01   | 21.73  |               |
| 5               | QPSK   | 1  | 24 | 22.08  | 22.23  | 22.23 | 21.91   | 21.77  |               |
| 5               | QPSK   | 12 | 0  | 22.08  | 22.24  | 22.19 | 21.89   | 21.70  | 22.8          |
| 5               | QPSK   | 12 | 7  | 22.21  | 22.16  | 22.22 | 21.97   | 21.67  |               |
| 5               | QPSK   | 12 | 13 | 22.15  | 22.16  | 22.06 | 21.93   | 21.80  |               |
| 5               | QPSK   | 25 | 0  | 22.15  | 22.16  | 22.10 | 21.96   | 21.77  |               |
| 5               | 16QAM  | 1  | 0  | 21.93  | 21.75  | 21.98 | 21.86   | 21.87  | 22.8          |
| 5               | 16QAM  | 1  | 12 | 21.81  | 21.77  | 21.86 | 21.83   | 21.85  |               |
| 5               | 16QAM  | 1  | 24 | 21.87  | 21.73  | 21.81 | 21.80   | 21.85  |               |
| 5               | 16QAM  | 12 | 0  | 21.76  | 21.73  | 21.75 | 21.63   | 21.40  | 22.8          |
| 5               | 16QAM  | 12 | 7  | 21.80  | 21.74  | 21.80 | 21.66   | 21.43  |               |
| 5               | 16QAM  | 12 | 13 | 21.78  | 21.88  | 21.85 | 21.65   | 21.44  |               |
| 5               | 16QAM  | 25 | 0  | 21.86  | 21.94  | 21.98 | 21.57   | 21.55  |               |
| 5               | 64QAM  | 1  | 0  | 21.87  | 21.74  | 21.66 | 21.48   | 21.24  | 22.8          |
| 5               | 64QAM  | 1  | 12 | 21.71  | 21.64  | 21.70 | 21.42   | 21.14  |               |
| 5               | 64QAM  | 1  | 24 | 21.77  | 21.63  | 21.64 | 21.37   | 21.34  |               |
| 5               | 64QAM  | 12 | 0  | 21.32  | 21.32  | 21.11 | 21.10   | 20.82  | 22.1          |
| 5               | 64QAM  | 12 | 7  | 21.26  | 21.16  | 21.46 | 21.15   | 20.88  |               |
| 5               | 64QAM  | 12 | 13 | 21.26  | 21.26  | 21.34 | 21.09   | 20.92  |               |
| 5               | 64QAM  | 25 | 0  | 21.20  | 21.24  | 21.36 | 21.09   | 20.86  |               |
| 5               | 256QAM | 1  | 0  | 19.44  | 19.30  | 19.41 | 19.11   | 18.89  | 20.1          |
| 5               | 256QAM | 1  | 12 | 19.41  | 19.38  | 19.30 | 18.97   | 18.99  |               |
| 5               | 256QAM | 1  | 24 | 19.27  | 19.14  | 19.26 | 19.04   | 18.85  |               |
| 5               | 256QAM | 12 | 0  | 19.53  | 19.33  | 19.63 | 19.38   | 19.05  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.38  | 19.61  | 19.60 | 19.30   | 19.10  |               |
| 5               | 256QAM | 12 | 13 | 19.61  | 19.43  | 19.44 | 19.32   | 19.06  |               |
| 5               | 256QAM | 25 | 0  | 19.40  | 19.55  | 19.66 | 19.29   | 18.98  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 22.68                    | 22.71                           | 22.65                       | 22.60                            | 22.60                     | 23                     |
| 20              | QPSK       | 1       | 49        | 22.63                    | 22.64                           | 22.59                       | 22.53                            | 22.55                     |                        |
| 20              | QPSK       | 1       | 99        | 22.65                    | 22.69                           | 22.64                       | 22.59                            | 22.58                     |                        |
| 20              | QPSK       | 50      | 0         | 22.67                    | 22.68                           | 22.65                       | 22.61                            | 22.59                     | 23                     |
| 20              | QPSK       | 50      | 24        | 22.64                    | 22.66                           | 22.63                       | 22.60                            | 22.57                     |                        |
| 20              | QPSK       | 50      | 50        | 22.65                    | 22.65                           | 22.64                       | 22.61                            | 22.56                     |                        |
| 20              | QPSK       | 100     | 0         | 22.63                    | 22.65                           | 22.58                       | 22.55                            | 22.53                     | 23                     |
| 20              | 16QAM      | 1       | 0         | 22.29                    | 22.34                           | 22.31                       | 22.28                            | 22.23                     |                        |
| 20              | 16QAM      | 1       | 49        | 22.22                    | 22.27                           | 22.21                       | 22.20                            | 22.15                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.22                    | 22.32                           | 22.32                       | 22.23                            | 22.14                     | 23                     |
| 20              | 16QAM      | 50      | 0         | 22.28                    | 22.28                           | 22.19                       | 22.16                            | 22.15                     |                        |
| 20              | 16QAM      | 50      | 24        | 22.29                    | 22.27                           | 22.18                       | 22.19                            | 22.16                     |                        |
| 20              | 16QAM      | 50      | 50        | 22.26                    | 22.28                           | 22.19                       | 22.16                            | 22.13                     | 23                     |
| 20              | 16QAM      | 100     | 0         | 22.29                    | 22.28                           | 22.26                       | 22.20                            | 22.17                     |                        |
| 20              | 64QAM      | 1       | 0         | 22.10                    | 22.07                           | 22.12                       | 22.10                            | 22.01                     |                        |
| 20              | 64QAM      | 1       | 49        | 22.14                    | 22.04                           | 22.05                       | 21.98                            | 21.97                     | 23                     |
| 20              | 64QAM      | 1       | 99        | 22.10                    | 22.07                           | 22.08                       | 22.00                            | 21.95                     |                        |
| 20              | 64QAM      | 50      | 0         | 21.24                    | 21.25                           | 21.20                       | 21.17                            | 21.11                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.24                    | 21.26                           | 21.20                       | 21.18                            | 21.13                     | 22.1                   |
| 20              | 64QAM      | 50      | 50        | 21.24                    | 21.25                           | 21.19                       | 21.13                            | 21.10                     |                        |
| 20              | 64QAM      | 100     | 0         | 21.25                    | 21.26                           | 21.20                       | 21.16                            | 21.14                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.44                    | 19.27                           | 19.31                       | 19.33                            | 19.29                     | 20.1                   |
| 20              | 256QAM     | 1       | 49        | 19.47                    | 19.30                           | 19.25                       | 19.29                            | 19.17                     |                        |
| 20              | 256QAM     | 1       | 99        | 19.47                    | 19.40                           | 19.26                       | 19.31                            | 19.04                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.57                    | 19.52                           | 19.45                       | 19.38                            | 19.40                     | 20.1                   |
| 20              | 256QAM     | 50      | 24        | 19.51                    | 19.47                           | 19.41                       | 19.41                            | 19.39                     |                        |
| 20              | 256QAM     | 50      | 50        | 19.51                    | 19.51                           | 19.42                       | 19.43                            | 19.34                     |                        |
| 20              | 256QAM     | 100     | 0         | 19.50                    | 19.53                           | 19.51                       | 19.48                            | 19.46                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit          |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    | (dBm)                  |
| 15              | QPSK       | 1       | 0         | 22.55                    | 22.53                           | 22.48                       | 22.47                            | 22.53                     | 23.00                  |
| 15              | QPSK       | 1       | 37        | 22.47                    | 22.59                           | 22.44                       | 22.42                            | 22.53                     |                        |
| 15              | QPSK       | 1       | 74        | 22.52                    | 22.49                           | 22.49                       | 22.49                            | 22.47                     |                        |
| 15              | QPSK       | 36      | 0         | 22.61                    | 22.49                           | 22.62                       | 22.52                            | 22.49                     | 23                     |
| 15              | QPSK       | 36      | 20        | 22.61                    | 22.47                           | 22.52                       | 22.40                            | 22.41                     |                        |
| 15              | QPSK       | 36      | 39        | 22.49                    | 22.54                           | 22.62                       | 22.58                            | 22.54                     |                        |
| 15              | QPSK       | 75      | 0         | 22.55                    | 22.57                           | 22.49                       | 22.42                            | 22.40                     | 23                     |
| 15              | 16QAM      | 1       | 0         | 22.11                    | 22.14                           | 22.17                       | 22.17                            | 22.17                     |                        |
| 15              | 16QAM      | 1       | 37        | 22.06                    | 22.20                           | 22.01                       | 22.14                            | 22.06                     |                        |
| 15              | 16QAM      | 1       | 74        | 22.15                    | 22.13                           | 22.24                       | 22.23                            | 22.12                     | 23                     |
| 15              | 16QAM      | 36      | 0         | 22.28                    | 22.25                           | 22.19                       | 21.97                            | 22.10                     |                        |
| 15              | 16QAM      | 36      | 20        | 22.16                    | 22.27                           | 22.05                       | 22.16                            | 22.15                     |                        |
| 15              | 16QAM      | 36      | 39        | 22.24                    | 22.26                           | 22.14                       | 22.07                            | 22.05                     | 23                     |
| 15              | 16QAM      | 75      | 0         | 22.09                    | 22.19                           | 22.17                       | 22.08                            | 22.02                     |                        |
| 15              | 64QAM      | 1       | 0         | 21.97                    | 22.03                           | 21.96                       | 22.07                            | 21.93                     | 23                     |
| 15              | 64QAM      | 1       | 37        | 22.04                    | 21.89                           | 21.94                       | 21.80                            | 21.88                     |                        |
| 15              | 64QAM      | 1       | 74        | 22.03                    | 22.05                           | 21.88                       | 21.93                            | 21.80                     |                        |
| 15              | 64QAM      | 36      | 0         | 21.06                    | 21.14                           | 21.02                       | 21.01                            | 20.98                     | 22.1                   |
| 15              | 64QAM      | 36      | 20        | 21.09                    | 21.09                           | 21.20                       | 21.04                            | 20.94                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.12                    | 21.23                           | 21.01                       | 21.12                            | 21.02                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.18                    | 21.16                           | 21.20                       | 21.10                            | 20.96                     | 20.1                   |
| 15              | 256QAM     | 1       | 0         | 19.43                    | 19.24                           | 19.21                       | 19.15                            | 19.27                     |                        |
| 15              | 256QAM     | 1       | 37        | 19.44                    | 19.26                           | 19.18                       | 19.15                            | 19.06                     |                        |
| 15              | 256QAM     | 1       | 74        | 19.36                    | 19.24                           | 19.15                       | 19.24                            | 18.96                     | 20.1                   |
| 15              | 256QAM     | 36      | 0         | 19.55                    | 19.49                           | 19.37                       | 19.30                            | 19.27                     |                        |
| 15              | 256QAM     | 36      | 20        | 19.36                    | 19.44                           | 19.38                       | 19.32                            | 19.26                     |                        |
| 15              | 256QAM     | 36      | 39        | 19.44                    | 19.38                           | 19.36                       | 19.37                            | 19.14                     |                        |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.44  | 19.37  | 19.45 | 19.37   | 19.33  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 22.52  | 22.51  | 22.65 | 22.40   | 22.54  | 23.00         |
| 10              | QPSK   | 1  | 25 | 22.49  | 22.61  | 22.39 | 22.46   | 22.48  |               |
| 10              | QPSK   | 1  | 49 | 22.46  | 22.66  | 22.52 | 22.42   | 22.53  |               |
| 10              | QPSK   | 25 | 0  | 22.49  | 22.60  | 22.65 | 22.42   | 22.49  | 23            |
| 10              | QPSK   | 25 | 12 | 22.49  | 22.46  | 22.61 | 22.40   | 22.55  |               |
| 10              | QPSK   | 25 | 25 | 22.51  | 22.57  | 22.60 | 22.56   | 22.37  |               |
| 10              | QPSK   | 50 | 0  | 22.63  | 22.65  | 22.46 | 22.42   | 22.40  |               |
| 10              | 16QAM  | 1  | 0  | 22.24  | 22.20  | 22.14 | 22.10   | 22.06  | 23            |
| 10              | 16QAM  | 1  | 25 | 22.08  | 22.16  | 22.07 | 22.08   | 22.08  |               |
| 10              | 16QAM  | 1  | 49 | 22.04  | 22.23  | 22.23 | 22.06   | 22.13  |               |
| 10              | 16QAM  | 25 | 0  | 22.22  | 22.16  | 22.18 | 22.14   | 21.96  | 23            |
| 10              | 16QAM  | 25 | 12 | 22.25  | 22.20  | 22.07 | 22.03   | 22.09  |               |
| 10              | 16QAM  | 25 | 25 | 22.22  | 22.08  | 22.19 | 22.02   | 22.01  |               |
| 10              | 16QAM  | 50 | 0  | 22.20  | 22.21  | 22.21 | 22.08   | 22.14  |               |
| 10              | 64QAM  | 1  | 0  | 22.00  | 21.91  | 21.92 | 22.01   | 21.89  | 23            |
| 10              | 64QAM  | 1  | 25 | 21.94  | 21.94  | 21.96 | 21.98   | 21.77  |               |
| 10              | 64QAM  | 1  | 49 | 22.01  | 22.06  | 21.92 | 21.83   | 21.86  |               |
| 10              | 64QAM  | 25 | 0  | 21.22  | 21.09  | 21.06 | 21.14   | 21.05  | 22.1          |
| 10              | 64QAM  | 25 | 12 | 21.19  | 21.25  | 21.04 | 21.11   | 20.97  |               |
| 10              | 64QAM  | 25 | 25 | 21.20  | 21.19  | 21.17 | 21.10   | 21.06  |               |
| 10              | 64QAM  | 50 | 0  | 21.19  | 21.15  | 21.09 | 21.15   | 20.98  |               |
| 10              | 256QAM | 1  | 0  | 19.30  | 19.08  | 19.27 | 19.17   | 19.27  | 20.1          |
| 10              | 256QAM | 1  | 25 | 19.27  | 19.10  | 19.22 | 19.16   | 19.10  |               |
| 10              | 256QAM | 1  | 49 | 19.32  | 19.38  | 19.26 | 19.17   | 19.01  |               |
| 10              | 256QAM | 25 | 0  | 19.47  | 19.43  | 19.39 | 19.28   | 19.23  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.49  | 19.28  | 19.29 | 19.25   | 19.37  |               |
| 10              | 256QAM | 25 | 25 | 19.42  | 19.49  | 19.42 | 19.24   | 19.18  |               |
| 10              | 256QAM | 50 | 0  | 19.50  | 19.44  | 19.37 | 19.33   | 19.45  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 22.62  | 22.56  | 22.48 | 22.56   | 22.59  | 23.00         |
| 5               | QPSK   | 1  | 12 | 22.60  | 22.64  | 22.53 | 22.36   | 22.38  |               |
| 5               | QPSK   | 1  | 24 | 22.52  | 22.61  | 22.53 | 22.52   | 22.41  |               |
| 5               | QPSK   | 12 | 0  | 22.62  | 22.62  | 22.51 | 22.41   | 22.47  | 23            |
| 5               | QPSK   | 12 | 7  | 22.49  | 22.52  | 22.57 | 22.54   | 22.39  |               |
| 5               | QPSK   | 12 | 13 | 22.51  | 22.46  | 22.46 | 22.54   | 22.48  |               |
| 5               | QPSK   | 25 | 0  | 22.61  | 22.53  | 22.44 | 22.42   | 22.49  |               |
| 5               | 16QAM  | 1  | 0  | 22.24  | 22.18  | 22.24 | 22.10   | 22.12  | 23            |
| 5               | 16QAM  | 1  | 12 | 22.14  | 22.07  | 22.14 | 22.01   | 21.95  |               |
| 5               | 16QAM  | 1  | 24 | 22.03  | 22.21  | 22.19 | 22.03   | 22.08  |               |
| 5               | 16QAM  | 12 | 0  | 22.20  | 22.15  | 22.12 | 22.13   | 21.98  | 23            |
| 5               | 16QAM  | 12 | 7  | 22.19  | 22.21  | 21.98 | 22.19   | 22.09  |               |
| 5               | 16QAM  | 12 | 13 | 22.19  | 22.08  | 22.17 | 22.16   | 21.93  |               |
| 5               | 16QAM  | 25 | 0  | 22.22  | 22.11  | 22.25 | 22.15   | 22.04  |               |
| 5               | 64QAM  | 1  | 0  | 22.01  | 21.92  | 21.96 | 21.91   | 21.83  | 23            |
| 5               | 64QAM  | 1  | 12 | 22.10  | 21.86  | 21.96 | 21.95   | 21.77  |               |
| 5               | 64QAM  | 1  | 24 | 21.99  | 22.06  | 22.01 | 21.82   | 21.86  |               |
| 5               | 64QAM  | 12 | 0  | 21.15  | 21.06  | 21.15 | 21.10   | 20.91  | 22.1          |
| 5               | 64QAM  | 12 | 7  | 21.15  | 21.18  | 21.00 | 21.14   | 21.09  |               |
| 5               | 64QAM  | 12 | 13 | 21.15  | 21.12  | 21.18 | 21.04   | 21.01  |               |
| 5               | 64QAM  | 25 | 0  | 21.12  | 21.24  | 21.20 | 21.05   | 21.07  |               |
| 5               | 256QAM | 1  | 0  | 19.37  | 19.09  | 19.30 | 19.14   | 19.25  | 20.1          |
| 5               | 256QAM | 1  | 12 | 19.27  | 19.19  | 19.14 | 19.28   | 19.17  |               |
| 5               | 256QAM | 1  | 24 | 19.32  | 19.29  | 19.18 | 19.20   | 19.02  |               |
| 5               | 256QAM | 12 | 0  | 19.38  | 19.39  | 19.38 | 19.34   | 19.30  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.33  | 19.45  | 19.30 | 19.30   | 19.22  |               |
| 5               | 256QAM | 12 | 13 | 19.48  | 19.46  | 19.42 | 19.23   | 19.18  |               |
| 5               | 256QAM | 25 | 0  | 19.34  | 19.50  | 19.39 | 19.41   | 19.37  |               |



## &lt;LTE Band 41\_Ant 5\_Index 11&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 22.81                    | 22.63                           | 22.88                       | 22.68                            | 22.64                     | 23.5                   |
| 20              | QPSK       | 1       | 49        | 22.67                    | 22.51                           | 22.87                       | 22.65                            | 22.58                     |                        |
| 20              | QPSK       | 1       | 99        | 22.66                    | 22.62                           | 22.76                       | 22.64                            | 22.59                     |                        |
| 20              | QPSK       | 50      | 0         | 22.66                    | 22.61                           | 22.83                       | 22.61                            | 22.64                     | 23.5                   |
| 20              | QPSK       | 50      | 24        | 22.60                    | 22.56                           | 22.81                       | 22.60                            | 22.52                     |                        |
| 20              | QPSK       | 50      | 50        | 22.61                    | 22.50                           | 22.65                       | 22.61                            | 22.61                     |                        |
| 20              | QPSK       | 100     | 0         | 22.63                    | 22.57                           | 22.72                       | 22.54                            | 22.53                     |                        |
| 20              | 16QAM      | 1       | 0         | 22.18                    | 22.27                           | 22.34                       | 22.28                            | 22.23                     | 23.5                   |
| 20              | 16QAM      | 1       | 49        | 22.28                    | 22.29                           | 22.22                       | 22.10                            | 22.28                     |                        |
| 20              | 16QAM      | 1       | 99        | 22.16                    | 22.26                           | 22.20                       | 22.28                            | 22.20                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.80                    | 21.72                           | 21.99                       | 21.88                            | 21.84                     | 23.1                   |
| 20              | 16QAM      | 50      | 24        | 21.63                    | 21.65                           | 21.65                       | 21.61                            | 21.68                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.72                    | 21.57                           | 21.74                       | 21.63                            | 21.80                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.71                    | 21.85                           | 21.82                       | 21.87                            | 21.81                     |                        |
| 20              | 64QAM      | 1       | 0         | 21.73                    | 21.75                           | 22.15                       | 21.61                            | 21.58                     | 23.1                   |
| 20              | 64QAM      | 1       | 49        | 21.75                    | 21.61                           | 22.01                       | 21.83                            | 21.71                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.88                    | 21.49                           | 21.65                       | 21.68                            | 21.79                     |                        |
| 20              | 64QAM      | 50      | 0         | 20.81                    | 20.52                           | 20.85                       | 20.49                            | 20.58                     | 22.1                   |
| 20              | 64QAM      | 50      | 24        | 20.87                    | 20.62                           | 21.00                       | 20.58                            | 20.62                     |                        |
| 20              | 64QAM      | 50      | 50        | 20.88                    | 20.57                           | 20.91                       | 20.47                            | 20.35                     |                        |
| 20              | 64QAM      | 100     | 0         | 20.76                    | 20.82                           | 20.75                       | 20.62                            | 20.50                     |                        |
| 20              | 256QAM     | 1       | 0         | 19.01                    | 19.04                           | 19.01                       | 19.14                            | 18.81                     | 20.1                   |
| 20              | 256QAM     | 1       | 49        | 18.79                    | 18.71                           | 19.14                       | 19.05                            | 19.02                     |                        |
| 20              | 256QAM     | 1       | 99        | 19.18                    | 18.83                           | 18.97                       | 18.81                            | 18.74                     |                        |
| 20              | 256QAM     | 50      | 0         | 19.04                    | 18.89                           | 19.44                       | 18.81                            | 18.75                     | 20.1                   |
| 20              | 256QAM     | 50      | 24        | 18.96                    | 19.10                           | 19.20                       | 19.00                            | 18.86                     |                        |
| 20              | 256QAM     | 50      | 50        | 18.78                    | 18.75                           | 19.19                       | 18.93                            | 18.77                     |                        |
| 20              | 256QAM     | 100     | 0         | 18.87                    | 18.94                           | 19.27                       | 18.61                            | 18.70                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 22.76                    | 22.51                           | 22.69                       | 22.51                            | 22.51                     | 23.50                  |
| 15              | QPSK       | 1       | 37        | 22.65                    | 22.35                           | 22.86                       | 22.50                            | 22.55                     |                        |
| 15              | QPSK       | 1       | 74        | 22.56                    | 22.62                           | 22.56                       | 22.54                            | 22.46                     |                        |
| 15              | QPSK       | 36      | 0         | 22.50                    | 22.51                           | 22.69                       | 22.62                            | 22.45                     | 23.5                   |
| 15              | QPSK       | 36      | 20        | 22.70                    | 22.48                           | 22.71                       | 22.44                            | 22.46                     |                        |
| 15              | QPSK       | 36      | 39        | 22.59                    | 22.50                           | 22.52                       | 22.55                            | 22.41                     |                        |
| 15              | QPSK       | 75      | 0         | 22.47                    | 22.39                           | 22.61                       | 22.60                            | 22.47                     | 23.5                   |
| 15              | 16QAM      | 1       | 0         | 22.14                    | 22.20                           | 22.22                       | 22.20                            | 22.16                     |                        |
| 15              | 16QAM      | 1       | 37        | 22.12                    | 22.23                           | 22.27                       | 22.14                            | 22.13                     |                        |
| 15              | 16QAM      | 1       | 74        | 22.23                    | 22.24                           | 22.25                       | 22.12                            | 22.27                     | 23.1                   |
| 15              | 16QAM      | 36      | 0         | 21.65                    | 21.58                           | 21.97                       | 21.56                            | 21.69                     |                        |
| 15              | 16QAM      | 36      | 20        | 21.66                    | 21.42                           | 21.89                       | 21.55                            | 21.51                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.54                    | 21.65                           | 21.70                       | 21.70                            | 21.46                     |                        |
| 15              | 16QAM      | 75      | 0         | 21.85                    | 21.71                           | 21.71                       | 21.58                            | 21.63                     | 23.1                   |
| 15              | 64QAM      | 1       | 0         | 21.85                    | 21.62                           | 21.77                       | 21.60                            | 21.79                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.68                    | 21.30                           | 21.82                       | 21.55                            | 21.51                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.53                    | 21.37                           | 21.54                       | 21.58                            | 21.72                     | 22.1                   |
| 15              | 64QAM      | 36      | 0         | 20.83                    | 20.81                           | 20.79                       | 20.50                            | 20.45                     |                        |
| 15              | 64QAM      | 36      | 20        | 20.49                    | 20.47                           | 20.49                       | 20.43                            | 20.38                     |                        |
| 15              | 64QAM      | 36      | 39        | 20.67                    | 20.49                           | 20.59                       | 20.40                            | 20.32                     |                        |
| 15              | 64QAM      | 75      | 0         | 20.84                    | 20.47                           | 20.95                       | 20.63                            | 20.31                     | 20.1                   |
| 15              | 256QAM     | 1       | 0         | 18.98                    | 18.85                           | 19.08                       | 19.01                            | 18.92                     |                        |
| 15              | 256QAM     | 1       | 37        | 19.03                    | 18.75                           | 19.04                       | 18.64                            | 18.94                     |                        |
| 15              | 256QAM     | 1       | 74        | 18.98                    | 18.72                           | 19.03                       | 18.84                            | 19.02                     | 20.1                   |
| 15              | 256QAM     | 36      | 0         | 19.19                    | 19.07                           | 19.05                       | 18.76                            | 18.49                     |                        |
| 15              | 256QAM     | 36      | 20        | 18.91                    | 18.74                           | 18.76                       | 18.66                            | 18.88                     |                        |
| 15              | 256QAM     | 36      | 39        | 18.88                    | 18.69                           | 18.98                       | 18.64                            | 18.57                     |                        |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 19.08  | 18.89  | 18.90 | 18.70   | 18.42  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 22.78  | 22.62  | 22.73 | 22.66   | 22.57  | 23.50         |
| 10              | QPSK   | 1  | 25 | 22.67  | 22.56  | 22.80 | 22.58   | 22.55  |               |
| 10              | QPSK   | 1  | 49 | 22.62  | 22.42  | 22.60 | 22.57   | 22.38  |               |
| 10              | QPSK   | 25 | 0  | 22.54  | 22.56  | 22.74 | 22.51   | 22.51  | 23.5          |
| 10              | QPSK   | 25 | 12 | 22.68  | 22.40  | 22.78 | 22.52   | 22.42  |               |
| 10              | QPSK   | 25 | 25 | 22.47  | 22.51  | 22.62 | 22.35   | 22.47  |               |
| 10              | QPSK   | 50 | 0  | 22.65  | 22.45  | 22.61 | 22.39   | 22.41  | 23.5          |
| 10              | 16QAM  | 1  | 0  | 22.15  | 22.11  | 22.20 | 22.25   | 22.25  |               |
| 10              | 16QAM  | 1  | 25 | 22.22  | 22.14  | 22.16 | 22.25   | 22.17  |               |
| 10              | 16QAM  | 1  | 49 | 22.28  | 22.22  | 22.10 | 22.20   | 22.19  | 23.1          |
| 10              | 16QAM  | 25 | 0  | 21.70  | 21.53  | 22.00 | 21.73   | 21.54  |               |
| 10              | 16QAM  | 25 | 12 | 21.73  | 21.53  | 21.84 | 21.49   | 21.41  |               |
| 10              | 16QAM  | 25 | 25 | 21.64  | 21.30  | 21.81 | 21.38   | 21.66  | 23.1          |
| 10              | 16QAM  | 50 | 0  | 21.76  | 21.75  | 21.51 | 21.55   | 21.39  |               |
| 10              | 64QAM  | 1  | 0  | 21.68  | 21.49  | 21.91 | 21.43   | 21.51  |               |
| 10              | 64QAM  | 1  | 25 | 21.50  | 21.54  | 21.49 | 21.56   | 21.62  | 23.1          |
| 10              | 64QAM  | 1  | 49 | 21.67  | 21.67  | 21.53 | 21.35   | 21.69  |               |
| 10              | 64QAM  | 25 | 0  | 20.75  | 20.42  | 21.07 | 20.47   | 20.53  |               |
| 10              | 64QAM  | 25 | 12 | 20.57  | 20.71  | 20.76 | 20.22   | 20.35  | 22.1          |
| 10              | 64QAM  | 25 | 25 | 20.50  | 20.60  | 20.97 | 20.44   | 20.34  |               |
| 10              | 64QAM  | 50 | 0  | 20.83  | 20.56  | 20.71 | 20.50   | 20.15  |               |
| 10              | 256QAM | 1  | 0  | 18.99  | 18.71  | 18.97 | 19.06   | 18.74  | 20.1          |
| 10              | 256QAM | 1  | 25 | 18.88  | 18.81  | 19.01 | 18.63   | 18.74  |               |
| 10              | 256QAM | 1  | 49 | 19.03  | 19.03  | 18.93 | 18.64   | 18.54  |               |
| 10              | 256QAM | 25 | 0  | 19.06  | 19.01  | 19.03 | 18.58   | 18.56  | 20.1          |
| 10              | 256QAM | 25 | 12 | 19.18  | 18.62  | 19.05 | 18.53   | 18.50  |               |
| 10              | 256QAM | 25 | 25 | 18.83  | 18.86  | 19.01 | 18.77   | 18.46  |               |
| 10              | 256QAM | 50 | 0  | 18.87  | 18.93  | 19.07 | 18.76   | 18.49  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 22.67  | 22.34  | 22.79 | 22.65   | 22.64  | 23.50         |
| 5               | QPSK   | 1  | 12 | 22.60  | 22.44  | 22.81 | 22.43   | 22.56  |               |
| 5               | QPSK   | 1  | 24 | 22.55  | 22.45  | 22.63 | 22.54   | 22.49  |               |
| 5               | QPSK   | 12 | 0  | 22.65  | 22.49  | 22.62 | 22.58   | 22.54  | 23.5          |
| 5               | QPSK   | 12 | 7  | 22.74  | 22.44  | 22.72 | 22.47   | 22.36  |               |
| 5               | QPSK   | 12 | 13 | 22.58  | 22.39  | 22.52 | 22.52   | 22.42  |               |
| 5               | QPSK   | 25 | 0  | 22.57  | 22.38  | 22.68 | 22.42   | 22.53  | 23.5          |
| 5               | 16QAM  | 1  | 0  | 22.18  | 22.13  | 22.12 | 22.29   | 22.11  |               |
| 5               | 16QAM  | 1  | 12 | 22.15  | 22.12  | 22.28 | 22.29   | 22.11  |               |
| 5               | 16QAM  | 1  | 24 | 22.12  | 22.24  | 22.23 | 22.28   | 22.23  | 23.1          |
| 5               | 16QAM  | 12 | 0  | 21.66  | 21.37  | 21.69 | 21.61   | 21.79  |               |
| 5               | 16QAM  | 12 | 7  | 21.61  | 21.63  | 21.74 | 21.44   | 21.71  |               |
| 5               | 16QAM  | 12 | 13 | 21.67  | 21.75  | 21.72 | 21.62   | 21.43  | 23.1          |
| 5               | 16QAM  | 25 | 0  | 21.96  | 21.85  | 21.45 | 21.72   | 21.61  |               |
| 5               | 64QAM  | 1  | 0  | 21.86  | 21.50  | 21.76 | 21.70   | 21.67  |               |
| 5               | 64QAM  | 1  | 12 | 21.42  | 21.50  | 21.59 | 21.57   | 21.56  | 23.1          |
| 5               | 64QAM  | 1  | 24 | 21.43  | 21.49  | 21.56 | 21.43   | 21.53  |               |
| 5               | 64QAM  | 12 | 0  | 20.95  | 20.67  | 21.00 | 20.50   | 20.53  |               |
| 5               | 64QAM  | 12 | 7  | 20.85  | 20.50  | 20.94 | 20.39   | 20.21  | 22.1          |
| 5               | 64QAM  | 12 | 13 | 20.71  | 20.64  | 20.65 | 20.57   | 20.14  |               |
| 5               | 64QAM  | 25 | 0  | 20.58  | 20.76  | 20.87 | 20.26   | 20.36  |               |
| 5               | 256QAM | 1  | 0  | 18.95  | 19.05  | 18.98 | 18.84   | 18.91  | 20.1          |
| 5               | 256QAM | 1  | 12 | 18.79  | 18.64  | 19.10 | 18.71   | 18.70  |               |
| 5               | 256QAM | 1  | 24 | 18.72  | 18.83  | 19.09 | 18.50   | 18.95  |               |
| 5               | 256QAM | 12 | 0  | 18.83  | 18.92  | 19.20 | 18.86   | 18.86  | 20.1          |
| 5               | 256QAM | 12 | 7  | 19.08  | 18.67  | 19.16 | 18.74   | 18.96  |               |
| 5               | 256QAM | 12 | 13 | 18.67  | 18.64  | 18.95 | 18.79   | 18.49  |               |
| 5               | 256QAM | 25 | 0  | 19.16  | 18.81  | 19.06 | 18.71   | 18.37  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 26.10                    | 26.11                           | 26.14                       | 26.13                            | 26.02                     | 27                     |
| 20              | QPSK       | 1       | 49        | 26.06                    | 26.07                           | 26.12                       | 26.07                            | 26.01                     |                        |
| 20              | QPSK       | 1       | 99        | 26.08                    | 26.11                           | 26.07                       | 26.07                            | 25.86                     |                        |
| 20              | QPSK       | 50      | 0         | 25.18                    | 25.17                           | 25.19                       | 25.13                            | 24.95                     | 26                     |
| 20              | QPSK       | 50      | 24        | 25.16                    | 25.13                           | 25.16                       | 25.12                            | 24.94                     |                        |
| 20              | QPSK       | 50      | 50        | 25.16                    | 25.09                           | 25.16                       | 25.10                            | 24.90                     |                        |
| 20              | QPSK       | 100     | 0         | 25.16                    | 25.16                           | 25.17                       | 25.11                            | 24.92                     |                        |
| 20              | 16QAM      | 1       | 0         | 24.36                    | 24.70                           | 24.46                       | 24.67                            | 24.53                     | 26                     |
| 20              | 16QAM      | 1       | 49        | 24.20                    | 24.26                           | 24.29                       | 24.25                            | 24.13                     |                        |
| 20              | 16QAM      | 1       | 99        | 24.39                    | 24.43                           | 24.50                       | 24.36                            | 24.28                     |                        |
| 20              | 16QAM      | 50      | 0         | 24.18                    | 24.20                           | 24.22                       | 24.16                            | 24.03                     | 25                     |
| 20              | 16QAM      | 50      | 24        | 24.18                    | 24.15                           | 24.22                       | 24.18                            | 24.02                     |                        |
| 20              | 16QAM      | 50      | 50        | 24.18                    | 24.19                           | 24.23                       | 24.19                            | 24.01                     |                        |
| 20              | 16QAM      | 100     | 0         | 24.15                    | 24.20                           | 24.18                       | 24.16                            | 23.99                     |                        |
| 20              | 64QAM      | 1       | 0         | 24.47                    | 24.63                           | 24.55                       | 24.62                            | 24.46                     | 25                     |
| 20              | 64QAM      | 1       | 49        | 24.40                    | 24.44                           | 24.47                       | 24.42                            | 24.52                     |                        |
| 20              | 64QAM      | 1       | 99        | 24.29                    | 24.33                           | 24.39                       | 24.28                            | 24.17                     |                        |
| 20              | 64QAM      | 50      | 0         | 23.12                    | 23.17                           | 23.17                       | 23.13                            | 23.02                     | 24                     |
| 20              | 64QAM      | 50      | 24        | 23.11                    | 23.16                           | 23.17                       | 23.13                            | 22.97                     |                        |
| 20              | 64QAM      | 50      | 50        | 23.15                    | 23.17                           | 23.20                       | 23.13                            | 22.98                     |                        |
| 20              | 64QAM      | 100     | 0         | 23.15                    | 23.17                           | 23.16                       | 23.14                            | 22.96                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.69                    | 21.92                           | 21.76                       | 21.88                            | 21.75                     | 22                     |
| 20              | 256QAM     | 1       | 49        | 21.60                    | 21.69                           | 21.70                       | 21.64                            | 21.80                     |                        |
| 20              | 256QAM     | 1       | 99        | 21.51                    | 21.58                           | 21.59                       | 21.58                            | 21.39                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.33                    | 21.43                           | 21.37                       | 21.43                            | 21.27                     | 22                     |
| 20              | 256QAM     | 50      | 24        | 21.38                    | 21.40                           | 21.40                       | 21.36                            | 21.26                     |                        |
| 20              | 256QAM     | 50      | 50        | 21.43                    | 21.45                           | 21.48                       | 21.37                            | 21.25                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.44                    | 21.37                           | 21.42                       | 21.34                            | 21.19                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 26.03                    | 26.03                           | 26.13                       | 26.05                            | 25.94                     | 27.00                  |
| 15              | QPSK       | 1       | 37        | 25.88                    | 26.05                           | 25.97                       | 25.97                            | 25.91                     |                        |
| 15              | QPSK       | 1       | 74        | 25.97                    | 26.04                           | 25.97                       | 25.97                            | 25.81                     |                        |
| 15              | QPSK       | 36      | 0         | 25.12                    | 25.13                           | 24.99                       | 25.02                            | 24.77                     | 26                     |
| 15              | QPSK       | 36      | 20        | 25.10                    | 24.93                           | 25.07                       | 25.10                            | 24.89                     |                        |
| 15              | QPSK       | 36      | 39        | 24.96                    | 25.05                           | 25.02                       | 25.10                            | 24.86                     |                        |
| 15              | QPSK       | 75      | 0         | 25.10                    | 25.01                           | 25.07                       | 25.07                            | 24.88                     |                        |
| 15              | 16QAM      | 1       | 0         | 24.33                    | 24.56                           | 24.44                       | 24.61                            | 24.44                     | 26                     |
| 15              | 16QAM      | 1       | 37        | 24.06                    | 24.17                           | 24.18                       | 24.06                            | 24.06                     |                        |
| 15              | 16QAM      | 1       | 74        | 24.37                    | 24.30                           | 24.44                       | 24.24                            | 24.22                     |                        |
| 15              | 16QAM      | 36      | 0         | 24.07                    | 24.15                           | 24.19                       | 24.01                            | 23.86                     | 25                     |
| 15              | 16QAM      | 36      | 20        | 24.01                    | 24.15                           | 24.07                       | 24.18                            | 23.94                     |                        |
| 15              | 16QAM      | 36      | 39        | 24.03                    | 24.06                           | 24.12                       | 24.16                            | 23.93                     |                        |
| 15              | 16QAM      | 75      | 0         | 24.07                    | 24.12                           | 24.03                       | 24.16                            | 23.87                     |                        |
| 15              | 64QAM      | 1       | 0         | 24.47                    | 24.53                           | 24.35                       | 24.60                            | 24.45                     | 25                     |
| 15              | 64QAM      | 1       | 37        | 24.38                    | 24.34                           | 24.46                       | 24.22                            | 24.33                     |                        |
| 15              | 64QAM      | 1       | 74        | 24.24                    | 24.32                           | 24.34                       | 24.28                            | 24.01                     |                        |
| 15              | 64QAM      | 36      | 0         | 22.99                    | 23.04                           | 23.09                       | 23.02                            | 22.86                     | 24                     |
| 15              | 64QAM      | 36      | 20        | 23.10                    | 23.12                           | 23.00                       | 22.97                            | 22.80                     |                        |
| 15              | 64QAM      | 36      | 39        | 23.03                    | 23.06                           | 23.11                       | 23.00                            | 22.96                     |                        |
| 15              | 64QAM      | 75      | 0         | 23.15                    | 23.05                           | 23.02                       | 22.95                            | 22.83                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.63                    | 21.83                           | 21.63                       | 21.86                            | 21.63                     | 22                     |
| 15              | 256QAM     | 1       | 37        | 21.51                    | 21.68                           | 21.69                       | 21.55                            | 21.74                     |                        |
| 15              | 256QAM     | 1       | 74        | 21.31                    | 21.47                           | 21.48                       | 21.56                            | 21.35                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.16                    | 21.35                           | 21.24                       | 21.32                            | 21.15                     | 22                     |
| 15              | 256QAM     | 36      | 20        | 21.29                    | 21.32                           | 21.31                       | 21.32                            | 21.07                     |                        |
| 15              | 256QAM     | 36      | 39        | 21.25                    | 21.41                           | 21.32                       | 21.35                            | 21.12                     |                        |



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|                 |        |    |    |        |        |       |         |        |                        |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 21.36  | 21.33  | 21.38 | 21.31   | 21.16  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  |                        |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   |                        |
| 10              | QPSK   | 1  | 0  | 26.05  | 25.95  | 25.97 | 25.97   | 26.00  | 27.00                  |
| 10              | QPSK   | 1  | 25 | 25.94  | 26.06  | 25.98 | 26.06   | 25.97  |                        |
| 10              | QPSK   | 1  | 49 | 25.98  | 25.93  | 26.03 | 26.07   | 25.81  |                        |
| 10              | QPSK   | 25 | 0  | 25.05  | 25.17  | 25.07 | 25.07   | 24.87  | 26                     |
| 10              | QPSK   | 25 | 12 | 24.99  | 24.94  | 25.10 | 25.12   | 24.74  |                        |
| 10              | QPSK   | 25 | 25 | 24.99  | 24.91  | 25.06 | 24.90   | 24.71  |                        |
| 10              | QPSK   | 50 | 0  | 24.99  | 25.06  | 25.10 | 25.10   | 24.77  |                        |
| 10              | 16QAM  | 1  | 0  | 24.21  | 24.63  | 24.30 | 24.67   | 24.51  | 26                     |
| 10              | 16QAM  | 1  | 25 | 24.12  | 24.13  | 24.11 | 24.16   | 24.08  |                        |
| 10              | 16QAM  | 1  | 49 | 24.36  | 24.30  | 24.38 | 24.25   | 24.10  |                        |
| 10              | 16QAM  | 25 | 0  | 24.18  | 24.09  | 24.04 | 23.99   | 23.95  | 25                     |
| 10              | 16QAM  | 25 | 12 | 23.98  | 24.00  | 24.19 | 24.14   | 23.85  |                        |
| 10              | 16QAM  | 25 | 25 | 24.16  | 24.00  | 24.16 | 24.17   | 23.96  |                        |
| 10              | 16QAM  | 50 | 0  | 23.99  | 24.04  | 24.05 | 23.96   | 23.96  |                        |
| 10              | 64QAM  | 1  | 0  | 24.28  | 24.43  | 24.36 | 24.50   | 24.37  | 25                     |
| 10              | 64QAM  | 1  | 25 | 24.40  | 24.25  | 24.39 | 24.40   | 24.49  |                        |
| 10              | 64QAM  | 1  | 49 | 24.27  | 24.26  | 24.35 | 24.08   | 24.12  |                        |
| 10              | 64QAM  | 25 | 0  | 23.08  | 23.02  | 22.97 | 23.12   | 23.01  | 24                     |
| 10              | 64QAM  | 25 | 12 | 22.97  | 23.07  | 23.04 | 23.07   | 22.89  |                        |
| 10              | 64QAM  | 25 | 25 | 23.08  | 22.99  | 23.15 | 22.95   | 22.98  |                        |
| 10              | 64QAM  | 50 | 0  | 23.03  | 23.01  | 23.14 | 23.08   | 22.95  |                        |
| 10              | 256QAM | 1  | 0  | 21.68  | 21.78  | 21.67 | 21.80   | 21.64  | 22                     |
| 10              | 256QAM | 1  | 25 | 21.45  | 21.50  | 21.53 | 21.50   | 21.68  |                        |
| 10              | 256QAM | 1  | 49 | 21.38  | 21.48  | 21.49 | 21.51   | 21.33  |                        |
| 10              | 256QAM | 25 | 0  | 21.22  | 21.24  | 21.22 | 21.24   | 21.19  | 22                     |
| 10              | 256QAM | 25 | 12 | 21.25  | 21.20  | 21.22 | 21.20   | 21.12  |                        |
| 10              | 256QAM | 25 | 25 | 21.33  | 21.39  | 21.30 | 21.36   | 21.11  |                        |
| 10              | 256QAM | 50 | 0  | 21.40  | 21.29  | 21.22 | 21.15   | 21.04  |                        |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                        |
| 5               | QPSK   | 1  | 0  | 25.99  | 26.05  | 26.07 | 25.93   | 25.84  | 27.00                  |
| 5               | QPSK   | 1  | 12 | 25.94  | 26.03  | 26.08 | 25.96   | 25.96  |                        |
| 5               | QPSK   | 1  | 24 | 26.01  | 26.01  | 25.95 | 25.97   | 25.71  |                        |
| 5               | QPSK   | 12 | 0  | 25.08  | 25.06  | 25.05 | 25.08   | 24.75  | 26                     |
| 5               | QPSK   | 12 | 7  | 25.12  | 25.08  | 25.06 | 25.05   | 24.76  |                        |
| 5               | QPSK   | 12 | 13 | 25.16  | 24.92  | 25.07 | 25.04   | 24.81  |                        |
| 5               | QPSK   | 25 | 0  | 25.10  | 25.00  | 25.00 | 24.96   | 24.88  |                        |
| 5               | 16QAM  | 1  | 0  | 24.25  | 24.70  | 24.41 | 24.48   | 24.46  | 26                     |
| 5               | 16QAM  | 1  | 12 | 24.12  | 24.09  | 24.29 | 24.23   | 24.06  |                        |
| 5               | 16QAM  | 1  | 24 | 24.38  | 24.38  | 24.47 | 24.22   | 24.12  |                        |
| 5               | 16QAM  | 12 | 0  | 24.10  | 24.09  | 24.09 | 24.09   | 23.84  | 25                     |
| 5               | 16QAM  | 12 | 7  | 24.17  | 24.00  | 24.22 | 24.04   | 24.02  |                        |
| 5               | 16QAM  | 12 | 13 | 24.14  | 23.99  | 24.10 | 24.18   | 23.89  |                        |
| 5               | 16QAM  | 25 | 0  | 24.10  | 24.08  | 24.16 | 24.15   | 23.80  |                        |
| 5               | 64QAM  | 1  | 0  | 24.30  | 24.45  | 24.44 | 24.48   | 24.43  | 25                     |
| 5               | 64QAM  | 1  | 12 | 24.21  | 24.29  | 24.34 | 24.28   | 24.48  |                        |
| 5               | 64QAM  | 1  | 24 | 24.16  | 24.17  | 24.23 | 24.28   | 24.08  |                        |
| 5               | 64QAM  | 12 | 0  | 22.96  | 23.12  | 23.04 | 23.09   | 22.94  | 24                     |
| 5               | 64QAM  | 12 | 7  | 22.93  | 23.12  | 23.04 | 23.13   | 22.82  |                        |
| 5               | 64QAM  | 12 | 13 | 23.10  | 22.98  | 23.13 | 23.07   | 22.79  |                        |
| 5               | 64QAM  | 25 | 0  | 23.07  | 23.13  | 22.99 | 23.11   | 22.78  |                        |
| 5               | 256QAM | 1  | 0  | 21.53  | 21.81  | 21.73 | 21.69   | 21.74  | 22                     |
| 5               | 256QAM | 1  | 12 | 21.46  | 21.52  | 21.56 | 21.53   | 21.77  |                        |
| 5               | 256QAM | 1  | 24 | 21.34  | 21.57  | 21.58 | 21.40   | 21.32  |                        |
| 5               | 256QAM | 12 | 0  | 21.24  | 21.28  | 21.20 | 21.43   | 21.13  | 22                     |
| 5               | 256QAM | 12 | 7  | 21.20  | 21.33  | 21.29 | 21.33   | 21.15  |                        |
| 5               | 256QAM | 12 | 13 | 21.41  | 21.43  | 21.46 | 21.29   | 21.08  |                        |
| 5               | 256QAM | 25 | 0  | 21.32  | 21.21  | 21.22 | 21.20   | 21.10  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 21.54                 | 21.59                        | 21.46                    | 21.35                         | 21.19                  | 22                  |
| 20              | QPSK       | 1       | 49        | 21.39                 | 21.44                        | 21.35                    | 21.35                         | 21.13                  |                     |
| 20              | QPSK       | 1       | 99        | 21.41                 | 21.57                        | 21.44                    | 21.34                         | 21.14                  |                     |
| 20              | QPSK       | 50      | 0         | 21.45                 | 21.49                        | 21.45                    | 21.26                         | 21.13                  | 22                  |
| 20              | QPSK       | 50      | 24        | 21.41                 | 21.48                        | 21.38                    | 21.15                         | 21.18                  |                     |
| 20              | QPSK       | 50      | 50        | 21.36                 | 21.42                        | 21.31                    | 21.16                         | 21.13                  |                     |
| 20              | QPSK       | 100     | 0         | 21.42                 | 21.45                        | 21.44                    | 21.23                         | 21.07                  |                     |
| 20              | 16QAM      | 1       | 0         | 21.39                 | 21.46                        | 21.41                    | 21.18                         | 21.01                  | 22                  |
| 20              | 16QAM      | 1       | 49        | 21.41                 | 21.55                        | 21.28                    | 21.22                         | 20.99                  |                     |
| 20              | 16QAM      | 1       | 99        | 21.36                 | 21.40                        | 21.39                    | 21.29                         | 21.00                  |                     |
| 20              | 16QAM      | 50      | 0         | 21.51                 | 21.48                        | 21.35                    | 21.17                         | 21.02                  | 22                  |
| 20              | 16QAM      | 50      | 24        | 21.45                 | 21.53                        | 21.31                    | 21.15                         | 21.06                  |                     |
| 20              | 16QAM      | 50      | 50        | 21.45                 | 21.50                        | 21.43                    | 21.28                         | 21.13                  |                     |
| 20              | 16QAM      | 100     | 0         | 21.35                 | 21.56                        | 21.33                    | 21.21                         | 21.07                  |                     |
| 20              | 64QAM      | 1       | 0         | 21.45                 | 21.56                        | 21.29                    | 21.20                         | 21.03                  | 22                  |
| 20              | 64QAM      | 1       | 49        | 21.38                 | 21.54                        | 21.32                    | 21.34                         | 21.06                  |                     |
| 20              | 64QAM      | 1       | 99        | 21.45                 | 21.52                        | 21.26                    | 21.34                         | 21.11                  |                     |
| 20              | 64QAM      | 50      | 0         | 21.38                 | 21.46                        | 21.26                    | 21.23                         | 20.99                  | 22                  |
| 20              | 64QAM      | 50      | 24        | 21.53                 | 21.58                        | 21.30                    | 21.26                         | 21.18                  |                     |
| 20              | 64QAM      | 50      | 50        | 21.49                 | 21.44                        | 21.41                    | 21.32                         | 21.17                  |                     |
| 20              | 64QAM      | 100     | 0         | 21.46                 | 21.50                        | 21.45                    | 21.23                         | 21.02                  |                     |
| 20              | 256QAM     | 1       | 0         | 21.37                 | 21.58                        | 21.46                    | 21.15                         | 21.17                  | 22                  |
| 20              | 256QAM     | 1       | 49        | 21.39                 | 21.46                        | 21.31                    | 21.28                         | 21.14                  |                     |
| 20              | 256QAM     | 1       | 99        | 21.34                 | 21.57                        | 21.45                    | 21.24                         | 21.10                  |                     |
| 20              | 256QAM     | 50      | 0         | 21.48                 | 21.50                        | 21.37                    | 21.32                         | 21.01                  | 22                  |
| 20              | 256QAM     | 50      | 24        | 21.54                 | 21.50                        | 21.37                    | 21.27                         | 21.06                  |                     |
| 20              | 256QAM     | 50      | 50        | 21.53                 | 21.45                        | 21.40                    | 21.22                         | 21.06                  |                     |
| 20              | 256QAM     | 100     | 0         | 21.50                 | 21.41                        | 21.45                    | 21.28                         | 21.05                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 21.40                 | 21.56                        | 21.33                    | 21.25                         | 21.12                  | 22.00               |
| 15              | QPSK       | 1       | 37        | 21.19                 | 21.28                        | 21.20                    | 21.22                         | 20.95                  |                     |
| 15              | QPSK       | 1       | 74        | 21.39                 | 21.37                        | 21.30                    | 21.23                         | 21.11                  |                     |
| 15              | QPSK       | 36      | 0         | 21.27                 | 21.34                        | 21.45                    | 21.18                         | 21.01                  | 22                  |
| 15              | QPSK       | 36      | 20        | 21.28                 | 21.37                        | 21.28                    | 21.06                         | 21.15                  |                     |
| 15              | QPSK       | 36      | 39        | 21.35                 | 21.25                        | 21.31                    | 21.03                         | 21.10                  |                     |
| 15              | QPSK       | 75      | 0         | 21.26                 | 21.44                        | 21.34                    | 21.12                         | 20.92                  |                     |
| 15              | 16QAM      | 1       | 0         | 21.39                 | 21.31                        | 21.23                    | 21.15                         | 21.01                  | 22                  |
| 15              | 16QAM      | 1       | 37        | 21.29                 | 21.54                        | 21.18                    | 21.14                         | 20.82                  |                     |
| 15              | 16QAM      | 1       | 74        | 21.36                 | 21.20                        | 21.22                    | 21.19                         | 21.00                  |                     |
| 15              | 16QAM      | 36      | 0         | 21.50                 | 21.29                        | 21.22                    | 21.01                         | 20.85                  | 22                  |
| 15              | 16QAM      | 36      | 20        | 21.33                 | 21.41                        | 21.24                    | 21.10                         | 20.87                  |                     |
| 15              | 16QAM      | 36      | 39        | 21.36                 | 21.31                        | 21.37                    | 21.14                         | 21.07                  |                     |
| 15              | 16QAM      | 75      | 0         | 21.27                 | 21.54                        | 21.29                    | 21.20                         | 21.02                  |                     |
| 15              | 64QAM      | 1       | 0         | 21.26                 | 21.40                        | 21.23                    | 21.13                         | 20.93                  | 22                  |
| 15              | 64QAM      | 1       | 37        | 21.37                 | 21.46                        | 21.14                    | 21.17                         | 20.90                  |                     |
| 15              | 64QAM      | 1       | 74        | 21.40                 | 21.32                        | 21.08                    | 21.21                         | 20.92                  |                     |
| 15              | 64QAM      | 36      | 0         | 21.24                 | 21.40                        | 21.24                    | 21.15                         | 20.99                  | 22                  |
| 15              | 64QAM      | 36      | 20        | 21.38                 | 21.58                        | 21.11                    | 21.06                         | 20.99                  |                     |
| 15              | 64QAM      | 36      | 39        | 21.36                 | 21.37                        | 21.21                    | 21.26                         | 21.07                  |                     |
| 15              | 64QAM      | 75      | 0         | 21.34                 | 21.37                        | 21.32                    | 21.20                         | 20.88                  |                     |
| 15              | 256QAM     | 1       | 0         | 21.29                 | 21.51                        | 21.35                    | 21.03                         | 21.00                  | 22                  |
| 15              | 256QAM     | 1       | 37        | 21.30                 | 21.43                        | 21.16                    | 21.17                         | 20.99                  |                     |
| 15              | 256QAM     | 1       | 74        | 21.29                 | 21.46                        | 21.32                    | 21.13                         | 21.03                  |                     |
| 15              | 256QAM     | 36      | 0         | 21.48                 | 21.33                        | 21.20                    | 21.30                         | 20.87                  | 22                  |
| 15              | 256QAM     | 36      | 20        | 21.48                 | 21.36                        | 21.25                    | 21.16                         | 20.90                  |                     |
| 15              | 256QAM     | 36      | 39        | 21.45                 | 21.44                        | 21.39                    | 21.07                         | 21.05                  |                     |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 21.42  | 21.30  | 21.42 | 21.08   | 20.89  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 21.43  | 21.43  | 21.40 | 21.22   | 21.08  | 22.00         |
| 10              | QPSK   | 1  | 25 | 21.33  | 21.27  | 21.30 | 21.27   | 21.10  |               |
| 10              | QPSK   | 1  | 49 | 21.26  | 21.43  | 21.44 | 21.24   | 21.04  |               |
| 10              | QPSK   | 25 | 0  | 21.43  | 21.46  | 21.42 | 21.20   | 20.99  | 22            |
| 10              | QPSK   | 25 | 12 | 21.21  | 21.32  | 21.22 | 21.00   | 21.06  |               |
| 10              | QPSK   | 25 | 25 | 21.32  | 21.37  | 21.25 | 21.03   | 21.08  |               |
| 10              | QPSK   | 50 | 0  | 21.31  | 21.30  | 21.25 | 21.12   | 20.88  |               |
| 10              | 16QAM  | 1  | 0  | 21.31  | 21.40  | 21.24 | 21.18   | 20.99  | 22            |
| 10              | 16QAM  | 1  | 25 | 21.29  | 21.49  | 21.15 | 21.11   | 20.85  |               |
| 10              | 16QAM  | 1  | 49 | 21.24  | 21.20  | 21.38 | 21.27   | 20.93  |               |
| 10              | 16QAM  | 25 | 0  | 21.35  | 21.32  | 21.15 | 21.17   | 20.95  | 22            |
| 10              | 16QAM  | 25 | 12 | 21.39  | 21.52  | 21.12 | 20.99   | 20.95  |               |
| 10              | 16QAM  | 25 | 25 | 21.27  | 21.32  | 21.41 | 21.09   | 21.12  |               |
| 10              | 16QAM  | 50 | 0  | 21.25  | 21.40  | 21.32 | 21.21   | 21.07  |               |
| 10              | 64QAM  | 1  | 0  | 21.28  | 21.46  | 21.29 | 21.02   | 20.92  | 22            |
| 10              | 64QAM  | 1  | 25 | 21.19  | 21.39  | 21.29 | 21.17   | 20.93  |               |
| 10              | 64QAM  | 1  | 49 | 21.45  | 21.44  | 21.07 | 21.33   | 20.91  |               |
| 10              | 64QAM  | 25 | 0  | 21.35  | 21.30  | 21.22 | 21.15   | 20.97  | 22            |
| 10              | 64QAM  | 25 | 12 | 21.49  | 21.47  | 21.11 | 21.25   | 21.15  |               |
| 10              | 64QAM  | 25 | 25 | 21.39  | 21.39  | 21.27 | 21.18   | 20.98  |               |
| 10              | 64QAM  | 50 | 0  | 21.34  | 21.43  | 21.41 | 21.17   | 20.96  |               |
| 10              | 256QAM | 1  | 0  | 21.25  | 21.58  | 21.28 | 21.11   | 21.04  | 22            |
| 10              | 256QAM | 1  | 25 | 21.39  | 21.30  | 21.15 | 21.21   | 21.00  |               |
| 10              | 256QAM | 1  | 49 | 21.24  | 21.43  | 21.36 | 21.16   | 21.10  |               |
| 10              | 256QAM | 25 | 0  | 21.40  | 21.31  | 21.22 | 21.28   | 20.82  | 22            |
| 10              | 256QAM | 25 | 12 | 21.36  | 21.49  | 21.28 | 21.16   | 21.04  |               |
| 10              | 256QAM | 25 | 25 | 21.51  | 21.43  | 21.20 | 21.09   | 20.87  |               |
| 10              | 256QAM | 50 | 0  | 21.32  | 21.30  | 21.35 | 21.09   | 20.97  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 21.38  | 21.49  | 21.30 | 21.21   | 21.01  | 22.00         |
| 5               | QPSK   | 1  | 12 | 21.20  | 21.25  | 21.16 | 21.25   | 20.93  |               |
| 5               | QPSK   | 1  | 24 | 21.23  | 21.56  | 21.27 | 21.24   | 21.09  |               |
| 5               | QPSK   | 12 | 0  | 21.31  | 21.33  | 21.25 | 21.12   | 21.04  | 22            |
| 5               | QPSK   | 12 | 7  | 21.36  | 21.36  | 21.19 | 20.98   | 21.04  |               |
| 5               | QPSK   | 12 | 13 | 21.21  | 21.33  | 21.21 | 21.02   | 21.07  |               |
| 5               | QPSK   | 25 | 0  | 21.41  | 21.25  | 21.35 | 21.13   | 20.87  |               |
| 5               | 16QAM  | 1  | 0  | 21.22  | 21.34  | 21.34 | 21.15   | 20.91  | 22            |
| 5               | 16QAM  | 1  | 12 | 21.38  | 21.44  | 21.10 | 21.10   | 20.91  |               |
| 5               | 16QAM  | 1  | 24 | 21.34  | 21.36  | 21.30 | 21.17   | 20.82  |               |
| 5               | 16QAM  | 12 | 0  | 21.36  | 21.40  | 21.35 | 20.99   | 21.01  | 22            |
| 5               | 16QAM  | 12 | 7  | 21.40  | 21.50  | 21.22 | 21.11   | 20.87  |               |
| 5               | 16QAM  | 12 | 13 | 21.25  | 21.49  | 21.30 | 21.25   | 20.96  |               |
| 5               | 16QAM  | 25 | 0  | 21.17  | 21.52  | 21.24 | 21.08   | 21.00  |               |
| 5               | 64QAM  | 1  | 0  | 21.45  | 21.50  | 21.21 | 21.05   | 20.91  | 22            |
| 5               | 64QAM  | 1  | 12 | 21.32  | 21.38  | 21.27 | 21.23   | 21.03  |               |
| 5               | 64QAM  | 1  | 24 | 21.38  | 21.36  | 21.15 | 21.28   | 20.99  |               |
| 5               | 64QAM  | 12 | 0  | 21.29  | 21.27  | 21.06 | 21.15   | 20.85  | 22            |
| 5               | 64QAM  | 12 | 7  | 21.49  | 21.55  | 21.14 | 21.23   | 21.17  |               |
| 5               | 64QAM  | 12 | 13 | 21.29  | 21.43  | 21.37 | 21.28   | 21.07  |               |
| 5               | 64QAM  | 25 | 0  | 21.36  | 21.36  | 21.33 | 21.20   | 21.01  |               |
| 5               | 256QAM | 1  | 0  | 21.23  | 21.47  | 21.34 | 20.95   | 21.04  | 22            |
| 5               | 256QAM | 1  | 12 | 21.36  | 21.32  | 21.12 | 21.14   | 21.14  |               |
| 5               | 256QAM | 1  | 24 | 21.20  | 21.47  | 21.29 | 21.09   | 20.98  |               |
| 5               | 256QAM | 12 | 0  | 21.31  | 21.31  | 21.23 | 21.30   | 20.92  | 22            |
| 5               | 256QAM | 12 | 7  | 21.51  | 21.45  | 21.36 | 21.22   | 20.98  |               |
| 5               | 256QAM | 12 | 13 | 21.45  | 21.37  | 21.20 | 21.03   | 20.92  |               |
| 5               | 256QAM | 25 | 0  | 21.30  | 21.27  | 21.45 | 21.23   | 20.95  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 26.27                    | 26.34                           | 26.31                       | 26.23                            | 26.29                     | 27                     |
| 20              | QPSK       | 1       | 49        | 26.25                    | 26.25                           | 26.27                       | 26.14                            | 26.22                     |                        |
| 20              | QPSK       | 1       | 99        | 26.22                    | 26.22                           | 26.22                       | 26.11                            | 25.91                     |                        |
| 20              | QPSK       | 50      | 0         | 25.24                    | 25.30                           | 25.26                       | 25.23                            | 25.18                     | 26                     |
| 20              | QPSK       | 50      | 24        | 25.24                    | 25.19                           | 25.15                       | 25.20                            | 25.17                     |                        |
| 20              | QPSK       | 50      | 50        | 25.22                    | 25.26                           | 25.22                       | 25.17                            | 25.13                     |                        |
| 20              | QPSK       | 100     | 0         | 25.19                    | 25.28                           | 25.24                       | 25.16                            | 25.16                     |                        |
| 20              | 16QAM      | 1       | 0         | 24.37                    | 24.30                           | 24.32                       | 24.30                            | 24.16                     | 26                     |
| 20              | 16QAM      | 1       | 49        | 24.22                    | 24.26                           | 24.27                       | 24.27                            | 24.14                     |                        |
| 20              | 16QAM      | 1       | 99        | 24.28                    | 24.26                           | 24.26                       | 24.20                            | 24.21                     |                        |
| 20              | 16QAM      | 50      | 0         | 24.28                    | 24.24                           | 24.14                       | 24.20                            | 24.08                     | 25                     |
| 20              | 16QAM      | 50      | 24        | 24.20                    | 24.23                           | 24.20                       | 24.10                            | 24.11                     |                        |
| 20              | 16QAM      | 50      | 50        | 24.25                    | 24.17                           | 24.16                       | 24.13                            | 24.13                     |                        |
| 20              | 16QAM      | 100     | 0         | 24.24                    | 24.21                           | 24.20                       | 24.14                            | 24.20                     |                        |
| 20              | 64QAM      | 1       | 0         | 24.23                    | 23.97                           | 24.03                       | 23.99                            | 24.05                     | 25                     |
| 20              | 64QAM      | 1       | 49        | 24.09                    | 23.92                           | 23.92                       | 23.98                            | 23.85                     |                        |
| 20              | 64QAM      | 1       | 99        | 24.23                    | 24.05                           | 24.03                       | 24.01                            | 23.81                     |                        |
| 20              | 64QAM      | 50      | 0         | 23.26                    | 23.19                           | 23.17                       | 23.12                            | 23.07                     | 24                     |
| 20              | 64QAM      | 50      | 24        | 23.19                    | 23.12                           | 23.18                       | 23.16                            | 23.13                     |                        |
| 20              | 64QAM      | 50      | 50        | 23.16                    | 23.14                           | 23.19                       | 23.13                            | 23.09                     |                        |
| 20              | 64QAM      | 100     | 0         | 23.19                    | 23.19                           | 23.20                       | 23.09                            | 23.17                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.53                    | 21.21                           | 21.24                       | 21.25                            | 21.34                     | 22                     |
| 20              | 256QAM     | 1       | 49        | 21.36                    | 21.17                           | 21.16                       | 21.25                            | 21.08                     |                        |
| 20              | 256QAM     | 1       | 99        | 21.53                    | 21.28                           | 21.32                       | 21.31                            | 21.08                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.50                    | 21.40                           | 21.38                       | 21.33                            | 21.37                     | 22                     |
| 20              | 256QAM     | 50      | 24        | 21.47                    | 21.35                           | 21.45                       | 21.41                            | 21.38                     |                        |
| 20              | 256QAM     | 50      | 50        | 21.36                    | 21.36                           | 21.45                       | 21.42                            | 21.36                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.49                    | 21.41                           | 21.48                       | 21.36                            | 21.45                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 26.27                    | 26.14                           | 26.24                       | 26.11                            | 26.25                     | 27.00                  |
| 15              | QPSK       | 1       | 37        | 26.17                    | 26.10                           | 26.09                       | 26.10                            | 26.21                     |                        |
| 15              | QPSK       | 1       | 74        | 26.11                    | 26.13                           | 26.15                       | 25.98                            | 25.79                     |                        |
| 15              | QPSK       | 36      | 0         | 25.04                    | 25.21                           | 25.18                       | 25.20                            | 25.05                     | 26                     |
| 15              | QPSK       | 36      | 20        | 25.05                    | 25.14                           | 25.08                       | 25.15                            | 25.04                     |                        |
| 15              | QPSK       | 36      | 39        | 25.03                    | 25.09                           | 25.19                       | 25.17                            | 24.97                     |                        |
| 15              | QPSK       | 75      | 0         | 25.07                    | 25.18                           | 25.07                       | 25.12                            | 25.00                     |                        |
| 15              | 16QAM      | 1       | 0         | 24.26                    | 24.27                           | 24.27                       | 24.20                            | 24.06                     | 26                     |
| 15              | 16QAM      | 1       | 37        | 24.19                    | 24.07                           | 24.07                       | 24.13                            | 24.07                     |                        |
| 15              | 16QAM      | 1       | 74        | 24.25                    | 24.06                           | 24.21                       | 24.15                            | 24.17                     |                        |
| 15              | 16QAM      | 36      | 0         | 24.20                    | 24.18                           | 23.99                       | 24.12                            | 23.93                     | 25                     |
| 15              | 16QAM      | 36      | 20        | 24.16                    | 24.16                           | 24.04                       | 23.90                            | 23.96                     |                        |
| 15              | 16QAM      | 36      | 39        | 24.12                    | 24.12                           | 23.99                       | 24.04                            | 23.93                     |                        |
| 15              | 16QAM      | 75      | 0         | 24.21                    | 24.13                           | 24.13                       | 24.08                            | 24.20                     |                        |
| 15              | 64QAM      | 1       | 0         | 24.19                    | 23.97                           | 23.92                       | 23.86                            | 24.02                     | 25                     |
| 15              | 64QAM      | 1       | 37        | 23.91                    | 23.81                           | 23.85                       | 23.84                            | 23.65                     |                        |
| 15              | 64QAM      | 1       | 74        | 24.10                    | 23.89                           | 23.98                       | 23.86                            | 23.62                     |                        |
| 15              | 64QAM      | 36      | 0         | 23.20                    | 23.07                           | 23.09                       | 23.05                            | 22.91                     | 24                     |
| 15              | 64QAM      | 36      | 20        | 23.15                    | 23.01                           | 23.13                       | 23.05                            | 22.94                     |                        |
| 15              | 64QAM      | 36      | 39        | 23.03                    | 23.00                           | 23.06                       | 23.10                            | 23.01                     |                        |
| 15              | 64QAM      | 75      | 0         | 22.99                    | 23.08                           | 23.19                       | 22.96                            | 23.12                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.53                    | 21.06                           | 21.15                       | 21.12                            | 21.34                     | 22                     |
| 15              | 256QAM     | 1       | 37        | 21.33                    | 21.13                           | 21.07                       | 21.08                            | 21.01                     |                        |
| 15              | 256QAM     | 1       | 74        | 21.41                    | 21.11                           | 21.32                       | 21.30                            | 20.88                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.38                    | 21.24                           | 21.29                       | 21.21                            | 21.21                     | 22                     |
| 15              | 256QAM     | 36      | 20        | 21.40                    | 21.27                           | 21.33                       | 21.28                            | 21.27                     |                        |
| 15              | 256QAM     | 36      | 39        | 21.23                    | 21.27                           | 21.37                       | 21.36                            | 21.22                     |                        |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 21.37  | 21.36  | 21.33 | 21.34   | 21.27  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 26.22  | 26.15  | 26.19 | 26.03   | 26.21  | 27.00         |
| 10              | QPSK   | 1  | 25 | 26.18  | 26.13  | 26.15 | 26.08   | 26.14  |               |
| 10              | QPSK   | 1  | 49 | 26.09  | 26.15  | 26.04 | 26.06   | 25.85  |               |
| 10              | QPSK   | 25 | 0  | 25.06  | 25.22  | 25.23 | 25.15   | 25.16  | 26            |
| 10              | QPSK   | 25 | 12 | 25.11  | 25.08  | 25.11 | 25.00   | 25.11  |               |
| 10              | QPSK   | 25 | 25 | 25.15  | 25.26  | 25.06 | 25.00   | 24.94  |               |
| 10              | QPSK   | 50 | 0  | 25.11  | 25.16  | 25.15 | 25.08   | 25.01  | 26            |
| 10              | 16QAM  | 1  | 0  | 24.18  | 24.11  | 24.31 | 24.11   | 24.06  |               |
| 10              | 16QAM  | 1  | 25 | 24.14  | 24.19  | 24.11 | 24.14   | 24.00  |               |
| 10              | 16QAM  | 1  | 49 | 24.11  | 24.21  | 24.26 | 24.14   | 24.15  | 25            |
| 10              | 16QAM  | 25 | 0  | 24.27  | 24.24  | 23.98 | 24.06   | 24.02  |               |
| 10              | 16QAM  | 25 | 12 | 24.20  | 24.18  | 24.03 | 24.00   | 23.91  |               |
| 10              | 16QAM  | 25 | 25 | 24.21  | 24.14  | 23.97 | 24.00   | 24.12  | 25            |
| 10              | 16QAM  | 50 | 0  | 24.10  | 24.10  | 24.07 | 24.07   | 24.06  |               |
| 10              | 64QAM  | 1  | 0  | 24.06  | 23.92  | 23.84 | 23.90   | 24.02  |               |
| 10              | 64QAM  | 1  | 25 | 24.04  | 23.78  | 23.92 | 23.95   | 23.83  | 25            |
| 10              | 64QAM  | 1  | 49 | 24.18  | 23.90  | 23.96 | 23.96   | 23.63  |               |
| 10              | 64QAM  | 25 | 0  | 23.18  | 23.10  | 23.11 | 23.10   | 23.07  |               |
| 10              | 64QAM  | 25 | 12 | 23.07  | 23.01  | 23.18 | 23.01   | 23.03  | 24            |
| 10              | 64QAM  | 25 | 25 | 23.04  | 23.12  | 23.14 | 23.10   | 23.07  |               |
| 10              | 64QAM  | 50 | 0  | 22.99  | 23.00  | 23.16 | 22.96   | 23.16  |               |
| 10              | 256QAM | 1  | 0  | 21.49  | 21.02  | 21.17 | 21.20   | 21.16  | 22            |
| 10              | 256QAM | 1  | 25 | 21.28  | 21.05  | 21.12 | 21.10   | 20.92  |               |
| 10              | 256QAM | 1  | 49 | 21.50  | 21.16  | 21.30 | 21.13   | 21.05  |               |
| 10              | 256QAM | 25 | 0  | 21.48  | 21.23  | 21.31 | 21.16   | 21.31  | 22            |
| 10              | 256QAM | 25 | 12 | 21.29  | 21.17  | 21.27 | 21.23   | 21.23  |               |
| 10              | 256QAM | 25 | 25 | 21.29  | 21.26  | 21.30 | 21.32   | 21.22  |               |
| 10              | 256QAM | 50 | 0  | 21.49  | 21.21  | 21.30 | 21.33   | 21.30  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 26.24  | 26.14  | 26.19 | 26.09   | 26.15  | 27.00         |
| 5               | QPSK   | 1  | 12 | 26.12  | 26.23  | 26.07 | 26.04   | 26.20  |               |
| 5               | QPSK   | 1  | 24 | 26.02  | 26.19  | 26.04 | 26.08   | 25.86  |               |
| 5               | QPSK   | 12 | 0  | 25.24  | 25.23  | 25.20 | 25.22   | 25.02  | 26            |
| 5               | QPSK   | 12 | 7  | 25.08  | 25.16  | 25.02 | 25.06   | 24.97  |               |
| 5               | QPSK   | 12 | 13 | 25.10  | 25.15  | 25.08 | 25.05   | 25.10  |               |
| 5               | QPSK   | 25 | 0  | 25.14  | 25.24  | 25.11 | 24.98   | 24.99  | 26            |
| 5               | 16QAM  | 1  | 0  | 24.30  | 24.27  | 24.12 | 24.18   | 24.02  |               |
| 5               | 16QAM  | 1  | 12 | 24.08  | 24.17  | 24.13 | 24.11   | 24.01  |               |
| 5               | 16QAM  | 1  | 24 | 24.22  | 24.13  | 24.20 | 24.08   | 24.09  | 25            |
| 5               | 16QAM  | 12 | 0  | 24.10  | 24.24  | 24.07 | 24.12   | 24.06  |               |
| 5               | 16QAM  | 12 | 7  | 24.13  | 24.17  | 24.15 | 23.91   | 24.02  |               |
| 5               | 16QAM  | 12 | 13 | 24.07  | 24.04  | 24.08 | 24.09   | 24.10  | 25            |
| 5               | 16QAM  | 25 | 0  | 24.18  | 24.02  | 24.16 | 24.03   | 24.04  |               |
| 5               | 64QAM  | 1  | 0  | 24.09  | 23.97  | 23.86 | 23.95   | 23.92  |               |
| 5               | 64QAM  | 1  | 12 | 24.07  | 23.88  | 23.76 | 23.85   | 23.85  | 25            |
| 5               | 64QAM  | 1  | 24 | 24.19  | 24.01  | 23.86 | 23.91   | 23.64  |               |
| 5               | 64QAM  | 12 | 0  | 23.14  | 23.07  | 22.97 | 23.07   | 22.96  |               |
| 5               | 64QAM  | 12 | 7  | 23.10  | 23.08  | 22.99 | 23.05   | 23.13  | 24            |
| 5               | 64QAM  | 12 | 13 | 22.99  | 23.12  | 23.17 | 23.01   | 23.06  |               |
| 5               | 64QAM  | 25 | 0  | 23.00  | 23.01  | 23.09 | 22.91   | 23.05  |               |
| 5               | 256QAM | 1  | 0  | 21.36  | 21.02  | 21.15 | 21.09   | 21.19  | 22            |
| 5               | 256QAM | 1  | 12 | 21.19  | 21.14  | 21.08 | 21.05   | 21.02  |               |
| 5               | 256QAM | 1  | 24 | 21.52  | 21.25  | 21.21 | 21.19   | 20.92  |               |
| 5               | 256QAM | 12 | 0  | 21.45  | 21.27  | 21.32 | 21.25   | 21.28  | 22            |
| 5               | 256QAM | 12 | 7  | 21.29  | 21.21  | 21.40 | 21.25   | 21.26  |               |
| 5               | 256QAM | 12 | 13 | 21.29  | 21.25  | 21.25 | 21.42   | 21.33  |               |
| 5               | 256QAM | 25 | 0  | 21.48  | 21.22  | 21.45 | 21.18   | 21.44  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 25.87                    | 25.73                           | 26.08                       | 25.82                            | 25.86                     | 27                     |
| 20              | QPSK       | 1       | 49        | 25.81                    | 25.66                           | 25.92                       | 25.78                            | 25.75                     |                        |
| 20              | QPSK       | 1       | 99        | 25.76                    | 25.64                           | 25.77                       | 25.83                            | 25.76                     |                        |
| 20              | QPSK       | 50      | 0         | 24.82                    | 24.72                           | 24.95                       | 24.72                            | 24.74                     | 26                     |
| 20              | QPSK       | 50      | 24        | 24.84                    | 24.73                           | 24.91                       | 24.71                            | 24.66                     |                        |
| 20              | QPSK       | 50      | 50        | 24.75                    | 24.62                           | 24.72                       | 24.72                            | 24.63                     |                        |
| 20              | QPSK       | 100     | 0         | 24.71                    | 24.70                           | 24.82                       | 24.69                            | 24.62                     |                        |
| 20              | 16QAM      | 1       | 0         | 24.17                    | 24.08                           | 24.30                       | 24.09                            | 24.04                     | 26                     |
| 20              | 16QAM      | 1       | 49        | 24.10                    | 24.12                           | 24.18                       | 24.08                            | 24.09                     |                        |
| 20              | 16QAM      | 1       | 99        | 24.18                    | 24.01                           | 24.18                       | 24.03                            | 24.00                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.81                    | 23.66                           | 23.87                       | 23.75                            | 23.63                     | 25                     |
| 20              | 16QAM      | 50      | 24        | 23.70                    | 23.61                           | 23.68                       | 23.67                            | 23.66                     |                        |
| 20              | 16QAM      | 50      | 50        | 23.71                    | 23.66                           | 23.88                       | 23.66                            | 23.61                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.71                    | 23.76                           | 23.72                       | 23.64                            | 23.63                     |                        |
| 20              | 64QAM      | 1       | 0         | 23.76                    | 23.63                           | 23.86                       | 23.68                            | 23.59                     | 25                     |
| 20              | 64QAM      | 1       | 49        | 23.65                    | 23.56                           | 23.74                       | 23.62                            | 23.70                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.66                    | 23.66                           | 23.75                       | 23.58                            | 23.61                     |                        |
| 20              | 64QAM      | 50      | 0         | 22.82                    | 22.70                           | 22.96                       | 22.50                            | 22.48                     | 24                     |
| 20              | 64QAM      | 50      | 24        | 22.77                    | 22.62                           | 22.75                       | 22.49                            | 22.49                     |                        |
| 20              | 64QAM      | 50      | 50        | 22.66                    | 22.57                           | 22.91                       | 22.54                            | 22.42                     |                        |
| 20              | 64QAM      | 100     | 0         | 22.78                    | 22.59                           | 22.75                       | 22.48                            | 22.42                     |                        |
| 20              | 256QAM     | 1       | 0         | 20.96                    | 20.86                           | 21.12                       | 20.88                            | 20.83                     | 22                     |
| 20              | 256QAM     | 1       | 49        | 20.87                    | 20.76                           | 20.96                       | 20.89                            | 20.95                     |                        |
| 20              | 256QAM     | 1       | 99        | 20.92                    | 20.86                           | 21.01                       | 20.87                            | 20.86                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.08                    | 20.96                           | 21.26                       | 20.77                            | 20.68                     | 22                     |
| 20              | 256QAM     | 50      | 24        | 21.07                    | 20.88                           | 21.02                       | 20.78                            | 20.74                     |                        |
| 20              | 256QAM     | 50      | 50        | 20.96                    | 20.80                           | 21.14                       | 20.82                            | 20.72                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.08                    | 20.89                           | 21.01                       | 20.73                            | 20.68                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 25.85                    | 25.68                           | 25.91                       | 25.66                            | 25.86                     | 27.00                  |
| 15              | QPSK       | 1       | 37        | 25.71                    | 25.50                           | 25.72                       | 25.78                            | 25.68                     |                        |
| 15              | QPSK       | 1       | 74        | 25.75                    | 25.44                           | 25.68                       | 25.74                            | 25.69                     |                        |
| 15              | QPSK       | 36      | 0         | 24.70                    | 24.52                           | 24.94                       | 24.64                            | 24.64                     | 26                     |
| 15              | QPSK       | 36      | 20        | 24.74                    | 24.71                           | 24.89                       | 24.60                            | 24.46                     |                        |
| 15              | QPSK       | 36      | 39        | 24.70                    | 24.60                           | 24.71                       | 24.64                            | 24.62                     |                        |
| 15              | QPSK       | 75      | 0         | 24.69                    | 24.55                           | 24.76                       | 24.59                            | 24.51                     |                        |
| 15              | 16QAM      | 1       | 0         | 24.09                    | 24.02                           | 24.24                       | 24.18                            | 24.00                     | 26                     |
| 15              | 16QAM      | 1       | 37        | 24.15                    | 24.09                           | 24.00                       | 24.10                            | 24.09                     |                        |
| 15              | 16QAM      | 1       | 74        | 24.07                    | 24.01                           | 24.08                       | 24.19                            | 24.15                     |                        |
| 15              | 16QAM      | 36      | 0         | 23.80                    | 23.59                           | 23.74                       | 23.61                            | 23.61                     | 25                     |
| 15              | 16QAM      | 36      | 20        | 23.66                    | 23.49                           | 23.51                       | 23.60                            | 23.62                     |                        |
| 15              | 16QAM      | 36      | 39        | 23.70                    | 23.52                           | 23.84                       | 23.59                            | 23.42                     |                        |
| 15              | 16QAM      | 75      | 0         | 23.55                    | 23.58                           | 23.71                       | 23.51                            | 23.50                     |                        |
| 15              | 64QAM      | 1       | 0         | 23.69                    | 23.60                           | 23.66                       | 23.68                            | 23.59                     | 25                     |
| 15              | 64QAM      | 1       | 37        | 23.59                    | 23.46                           | 23.56                       | 23.59                            | 23.62                     |                        |
| 15              | 64QAM      | 1       | 74        | 23.62                    | 23.65                           | 23.65                       | 23.39                            | 23.51                     |                        |
| 15              | 64QAM      | 36      | 0         | 22.65                    | 22.50                           | 22.91                       | 22.31                            | 22.38                     | 24                     |
| 15              | 64QAM      | 36      | 20        | 22.73                    | 22.50                           | 22.66                       | 22.48                            | 22.47                     |                        |
| 15              | 64QAM      | 36      | 39        | 22.66                    | 22.54                           | 22.91                       | 22.42                            | 22.36                     |                        |
| 15              | 64QAM      | 75      | 0         | 22.58                    | 22.52                           | 22.73                       | 22.33                            | 22.22                     |                        |
| 15              | 256QAM     | 1       | 0         | 20.76                    | 20.82                           | 20.92                       | 20.77                            | 20.66                     | 22                     |
| 15              | 256QAM     | 1       | 37        | 20.78                    | 20.64                           | 20.93                       | 20.73                            | 20.89                     |                        |
| 15              | 256QAM     | 1       | 74        | 20.84                    | 20.74                           | 20.90                       | 20.87                            | 20.81                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.00                    | 20.81                           | 21.11                       | 20.59                            | 20.60                     | 22                     |
| 15              | 256QAM     | 36      | 20        | 20.88                    | 20.79                           | 21.01                       | 20.61                            | 20.62                     |                        |
| 15              | 256QAM     | 36      | 39        | 20.77                    | 20.67                           | 20.98                       | 20.82                            | 20.60                     |                        |



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|                 |        |    |    |        |        |       |         |        |                        |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 21.03  | 20.70  | 20.96 | 20.56   | 20.64  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  |                        |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   |                        |
| 10              | QPSK   | 1  | 0  | 25.67  | 25.57  | 26.06 | 25.72   | 25.75  | 27.00                  |
| 10              | QPSK   | 1  | 25 | 25.65  | 25.58  | 25.73 | 25.72   | 25.62  |                        |
| 10              | QPSK   | 1  | 49 | 25.71  | 25.47  | 25.69 | 25.72   | 25.64  |                        |
| 10              | QPSK   | 25 | 0  | 24.71  | 24.70  | 24.79 | 24.64   | 24.74  | 26                     |
| 10              | QPSK   | 25 | 12 | 24.83  | 24.60  | 24.90 | 24.62   | 24.62  |                        |
| 10              | QPSK   | 25 | 25 | 24.67  | 24.49  | 24.68 | 24.56   | 24.55  |                        |
| 10              | QPSK   | 50 | 0  | 24.71  | 24.57  | 24.66 | 24.51   | 24.59  |                        |
| 10              | 16QAM  | 1  | 0  | 24.00  | 24.18  | 24.27 | 24.00   | 24.13  | 26                     |
| 10              | 16QAM  | 1  | 25 | 24.16  | 24.16  | 24.02 | 24.11   | 24.11  |                        |
| 10              | 16QAM  | 1  | 49 | 24.06  | 24.13  | 24.02 | 24.03   | 24.14  |                        |
| 10              | 16QAM  | 25 | 0  | 23.74  | 23.54  | 23.76 | 23.70   | 23.44  | 25                     |
| 10              | 16QAM  | 25 | 12 | 23.64  | 23.56  | 23.62 | 23.64   | 23.55  |                        |
| 10              | 16QAM  | 25 | 25 | 23.64  | 23.65  | 23.80 | 23.52   | 23.56  |                        |
| 10              | 16QAM  | 50 | 0  | 23.61  | 23.61  | 23.54 | 23.52   | 23.47  |                        |
| 10              | 64QAM  | 1  | 0  | 23.68  | 23.51  | 23.71 | 23.61   | 23.43  | 25                     |
| 10              | 64QAM  | 1  | 25 | 23.52  | 23.44  | 23.60 | 23.56   | 23.67  |                        |
| 10              | 64QAM  | 1  | 49 | 23.50  | 23.61  | 23.74 | 23.57   | 23.56  |                        |
| 10              | 64QAM  | 25 | 0  | 22.70  | 22.59  | 22.86 | 22.41   | 22.47  | 24                     |
| 10              | 64QAM  | 25 | 12 | 22.70  | 22.49  | 22.59 | 22.31   | 22.45  |                        |
| 10              | 64QAM  | 25 | 25 | 22.51  | 22.38  | 22.77 | 22.50   | 22.29  |                        |
| 10              | 64QAM  | 50 | 0  | 22.75  | 22.57  | 22.63 | 22.32   | 22.38  |                        |
| 10              | 256QAM | 1  | 0  | 20.82  | 20.82  | 21.05 | 20.69   | 20.82  | 22                     |
| 10              | 256QAM | 1  | 25 | 20.79  | 20.76  | 20.83 | 20.71   | 20.78  |                        |
| 10              | 256QAM | 1  | 49 | 20.84  | 20.79  | 20.92 | 20.82   | 20.67  |                        |
| 10              | 256QAM | 25 | 0  | 21.06  | 20.95  | 21.21 | 20.61   | 20.53  | 22                     |
| 10              | 256QAM | 25 | 12 | 20.97  | 20.68  | 20.86 | 20.70   | 20.63  |                        |
| 10              | 256QAM | 25 | 25 | 20.81  | 20.74  | 20.97 | 20.68   | 20.72  |                        |
| 10              | 256QAM | 50 | 0  | 20.90  | 20.81  | 20.93 | 20.66   | 20.64  |                        |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                        |
| 5               | QPSK   | 1  | 0  | 25.80  | 25.68  | 25.95 | 25.66   | 25.86  | 27.00                  |
| 5               | QPSK   | 1  | 12 | 25.70  | 25.58  | 25.75 | 25.73   | 25.75  |                        |
| 5               | QPSK   | 1  | 24 | 25.60  | 25.44  | 25.64 | 25.73   | 25.62  |                        |
| 5               | QPSK   | 12 | 0  | 24.69  | 24.72  | 24.85 | 24.60   | 24.54  | 26                     |
| 5               | QPSK   | 12 | 7  | 24.81  | 24.70  | 24.77 | 24.60   | 24.60  |                        |
| 5               | QPSK   | 12 | 13 | 24.56  | 24.48  | 24.60 | 24.56   | 24.45  |                        |
| 5               | QPSK   | 25 | 0  | 24.62  | 24.64  | 24.66 | 24.62   | 24.62  |                        |
| 5               | 16QAM  | 1  | 0  | 24.10  | 24.19  | 24.26 | 24.13   | 24.13  | 26                     |
| 5               | 16QAM  | 1  | 12 | 24.12  | 24.08  | 24.06 | 24.19   | 24.10  |                        |
| 5               | 16QAM  | 1  | 24 | 24.16  | 24.15  | 24.10 | 24.17   | 24.14  |                        |
| 5               | 16QAM  | 12 | 0  | 23.63  | 23.53  | 23.80 | 23.63   | 23.51  | 25                     |
| 5               | 16QAM  | 12 | 7  | 23.69  | 23.51  | 23.52 | 23.67   | 23.57  |                        |
| 5               | 16QAM  | 12 | 13 | 23.52  | 23.63  | 23.82 | 23.60   | 23.50  |                        |
| 5               | 16QAM  | 25 | 0  | 23.70  | 23.66  | 23.55 | 23.46   | 23.50  |                        |
| 5               | 64QAM  | 1  | 0  | 23.67  | 23.49  | 23.71 | 23.62   | 23.55  | 25                     |
| 5               | 64QAM  | 1  | 12 | 23.60  | 23.44  | 23.57 | 23.42   | 23.51  |                        |
| 5               | 64QAM  | 1  | 24 | 23.56  | 23.57  | 23.72 | 23.43   | 23.46  |                        |
| 5               | 64QAM  | 12 | 0  | 22.78  | 22.57  | 22.78 | 22.33   | 22.35  | 24                     |
| 5               | 64QAM  | 12 | 7  | 22.66  | 22.48  | 22.59 | 22.40   | 22.42  |                        |
| 5               | 64QAM  | 12 | 13 | 22.58  | 22.38  | 22.75 | 22.49   | 22.25  |                        |
| 5               | 64QAM  | 25 | 0  | 22.69  | 22.42  | 22.60 | 22.34   | 22.40  |                        |
| 5               | 256QAM | 1  | 0  | 20.88  | 20.66  | 21.00 | 20.68   | 20.72  | 22                     |
| 5               | 256QAM | 1  | 12 | 20.68  | 20.74  | 20.94 | 20.71   | 20.79  |                        |
| 5               | 256QAM | 1  | 24 | 20.76  | 20.73  | 20.95 | 20.74   | 20.81  |                        |
| 5               | 256QAM | 12 | 0  | 21.03  | 20.78  | 21.23 | 20.59   | 20.67  | 22                     |
| 5               | 256QAM | 12 | 7  | 20.87  | 20.83  | 20.88 | 20.62   | 20.69  |                        |
| 5               | 256QAM | 12 | 13 | 20.92  | 20.75  | 21.06 | 20.79   | 20.72  |                        |
| 5               | 256QAM | 25 | 0  | 21.03  | 20.70  | 20.91 | 20.67   | 20.61  |                        |



## &lt;LTE Band 41\_HPUE\_Ant 2\_Index 9&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 21.56                    | 21.64                           | 21.67                       | 21.66                            | 21.48                     | 21.9                   |
| 20              | QPSK       | 1       | 49        | 21.58                    | 21.62                           | 21.63                       | 21.63                            | 21.44                     |                        |
| 20              | QPSK       | 1       | 99        | 21.56                    | 21.63                           | 21.65                       | 21.59                            | 21.41                     |                        |
| 20              | QPSK       | 50      | 0         | 21.56                    | 21.57                           | 21.62                       | 21.53                            | 21.38                     | 21.9                   |
| 20              | QPSK       | 50      | 24        | 21.55                    | 21.54                           | 21.60                       | 21.52                            | 21.37                     |                        |
| 20              | QPSK       | 50      | 50        | 21.55                    | 21.57                           | 21.58                       | 21.51                            | 21.33                     |                        |
| 20              | QPSK       | 100     | 0         | 21.53                    | 21.54                           | 21.60                       | 21.55                            | 21.33                     |                        |
| 20              | 16QAM      | 1       | 0         | 21.38                    | 21.46                           | 21.45                       | 21.52                            | 21.35                     | 21.9                   |
| 20              | 16QAM      | 1       | 49        | 21.11                    | 21.16                           | 21.19                       | 21.14                            | 20.97                     |                        |
| 20              | 16QAM      | 1       | 99        | 21.35                    | 21.45                           | 21.51                       | 21.44                            | 21.25                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.58                    | 21.61                           | 21.64                       | 21.57                            | 21.43                     | 21.9                   |
| 20              | 16QAM      | 50      | 24        | 21.56                    | 21.58                           | 21.63                       | 21.57                            | 21.39                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.56                    | 21.60                           | 21.63                       | 21.57                            | 21.40                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.59                    | 21.63                           | 21.65                       | 21.61                            | 21.42                     |                        |
| 20              | 64QAM      | 1       | 0         | 21.37                    | 21.15                           | 21.59                       | 21.54                            | 21.44                     | 21.9                   |
| 20              | 64QAM      | 1       | 49        | 21.53                    | 21.54                           | 21.49                       | 21.43                            | 21.26                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.38                    | 21.46                           | 21.22                       | 21.17                            | 21.03                     |                        |
| 20              | 64QAM      | 50      | 0         | 21.55                    | 21.60                           | 21.62                       | 21.57                            | 21.43                     | 21.9                   |
| 20              | 64QAM      | 50      | 24        | 21.55                    | 21.60                           | 21.63                       | 21.56                            | 21.42                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.55                    | 21.61                           | 21.63                       | 21.58                            | 21.38                     |                        |
| 20              | 64QAM      | 100     | 0         | 21.56                    | 21.61                           | 21.63                       | 21.60                            | 21.39                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.31                    | 21.51                           | 21.39                       | 21.58                            | 21.36                     | 21.9                   |
| 20              | 256QAM     | 1       | 49        | 21.10                    | 21.19                           | 21.33                       | 21.19                            | 21.34                     |                        |
| 20              | 256QAM     | 1       | 99        | 21.20                    | 21.11                           | 21.28                       | 21.26                            | 20.95                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.03                    | 20.99                           | 21.05                       | 20.95                            | 20.81                     | 21.9                   |
| 20              | 256QAM     | 50      | 24        | 20.93                    | 20.92                           | 21.01                       | 20.93                            | 20.96                     |                        |
| 20              | 256QAM     | 50      | 50        | 20.97                    | 21.15                           | 21.01                       | 20.90                            | 20.81                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.14                    | 21.06                           | 21.08                       | 20.90                            | 20.89                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 21.44                    | 21.57                           | 21.61                       | 21.50                            | 21.44                     | 21.90                  |
| 15              | QPSK       | 1       | 37        | 21.46                    | 21.47                           | 21.50                       | 21.61                            | 21.35                     |                        |
| 15              | QPSK       | 1       | 74        | 21.38                    | 21.48                           | 21.45                       | 21.58                            | 21.28                     |                        |
| 15              | QPSK       | 36      | 0         | 21.43                    | 21.55                           | 21.46                       | 21.43                            | 21.24                     | 21.9                   |
| 15              | QPSK       | 36      | 20        | 21.42                    | 21.43                           | 21.52                       | 21.39                            | 21.22                     |                        |
| 15              | QPSK       | 36      | 39        | 21.48                    | 21.52                           | 21.42                       | 21.44                            | 21.18                     |                        |
| 15              | QPSK       | 75      | 0         | 21.43                    | 21.50                           | 21.53                       | 21.50                            | 21.18                     |                        |
| 15              | 16QAM      | 1       | 0         | 21.35                    | 21.29                           | 21.35                       | 21.39                            | 21.28                     | 21.9                   |
| 15              | 16QAM      | 1       | 37        | 21.01                    | 21.07                           | 21.10                       | 21.07                            | 21.03                     |                        |
| 15              | 16QAM      | 1       | 74        | 21.18                    | 21.41                           | 21.34                       | 21.42                            | 21.09                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.55                    | 21.55                           | 21.55                       | 21.40                            | 21.23                     | 21.9                   |
| 15              | 16QAM      | 36      | 20        | 21.54                    | 21.45                           | 21.61                       | 21.56                            | 21.22                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.41                    | 21.59                           | 21.54                       | 21.47                            | 21.38                     |                        |
| 15              | 16QAM      | 75      | 0         | 21.45                    | 21.58                           | 21.65                       | 21.49                            | 21.22                     |                        |
| 15              | 64QAM      | 1       | 0         | 21.22                    | 21.04                           | 21.45                       | 21.37                            | 21.24                     | 21.9                   |
| 15              | 64QAM      | 1       | 37        | 21.48                    | 21.45                           | 21.35                       | 21.42                            | 21.21                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.28                    | 21.31                           | 21.06                       | 21.07                            | 20.92                     |                        |
| 15              | 64QAM      | 36      | 0         | 21.40                    | 21.56                           | 21.62                       | 21.44                            | 21.31                     | 21.9                   |
| 15              | 64QAM      | 36      | 20        | 21.44                    | 21.50                           | 21.59                       | 21.42                            | 21.28                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.40                    | 21.43                           | 21.51                       | 21.41                            | 21.38                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.38                    | 21.43                           | 21.60                       | 21.54                            | 21.27                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.30                    | 21.34                           | 21.28                       | 21.49                            | 21.16                     | 21.9                   |
| 15              | 256QAM     | 1       | 37        | 21.05                    | 21.01                           | 21.16                       | 21.14                            | 21.34                     |                        |
| 15              | 256QAM     | 1       | 74        | 21.06                    | 20.94                           | 21.22                       | 21.17                            | 20.75                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.89                    | 20.85                           | 21.02                       | 20.80                            | 20.76                     | 21.9                   |
| 15              | 256QAM     | 36      | 20        | 20.79                    | 20.92                           | 20.88                       | 20.93                            | 20.77                     |                        |
| 15              | 256QAM     | 36      | 39        | 20.89                    | 20.99                           | 20.91                       | 20.81                            | 20.75                     |                        |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 21.01  | 20.98  | 21.08 | 20.88   | 20.79  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 21.49  | 21.51  | 21.49 | 21.60   | 21.38  | 21.90         |
| 10              | QPSK   | 1  | 25 | 21.57  | 21.57  | 21.54 | 21.61   | 21.38  |               |
| 10              | QPSK   | 1  | 49 | 21.37  | 21.60  | 21.59 | 21.54   | 21.31  |               |
| 10              | QPSK   | 25 | 0  | 21.45  | 21.46  | 21.49 | 21.48   | 21.20  | 21.9          |
| 10              | QPSK   | 25 | 12 | 21.47  | 21.38  | 21.43 | 21.47   | 21.36  |               |
| 10              | QPSK   | 25 | 25 | 21.50  | 21.39  | 21.45 | 21.43   | 21.21  |               |
| 10              | QPSK   | 50 | 0  | 21.46  | 21.49  | 21.57 | 21.40   | 21.25  |               |
| 10              | 16QAM  | 1  | 0  | 21.19  | 21.35  | 21.35 | 21.50   | 21.25  | 21.9          |
| 10              | 16QAM  | 1  | 25 | 20.94  | 21.06  | 21.06 | 21.11   | 21.02  |               |
| 10              | 16QAM  | 1  | 49 | 21.15  | 21.40  | 21.48 | 21.37   | 21.11  |               |
| 10              | 16QAM  | 25 | 0  | 21.56  | 21.42  | 21.51 | 21.50   | 21.32  | 21.9          |
| 10              | 16QAM  | 25 | 12 | 21.41  | 21.52  | 21.56 | 21.52   | 21.38  |               |
| 10              | 16QAM  | 25 | 25 | 21.46  | 21.59  | 21.43 | 21.41   | 21.40  |               |
| 10              | 16QAM  | 50 | 0  | 21.58  | 21.52  | 21.57 | 21.48   | 21.22  |               |
| 10              | 64QAM  | 1  | 0  | 21.32  | 21.08  | 21.49 | 21.50   | 21.33  | 21.9          |
| 10              | 64QAM  | 1  | 25 | 21.53  | 21.42  | 21.36 | 21.31   | 21.23  |               |
| 10              | 64QAM  | 1  | 49 | 21.23  | 21.42  | 21.20 | 21.03   | 21.05  |               |
| 10              | 64QAM  | 25 | 0  | 21.51  | 21.48  | 21.62 | 21.52   | 21.26  | 21.9          |
| 10              | 64QAM  | 25 | 12 | 21.36  | 21.42  | 21.60 | 21.51   | 21.41  |               |
| 10              | 64QAM  | 25 | 25 | 21.53  | 21.54  | 21.49 | 21.51   | 21.26  |               |
| 10              | 64QAM  | 50 | 0  | 21.40  | 21.48  | 21.58 | 21.44   | 21.33  |               |
| 10              | 256QAM | 1  | 0  | 21.24  | 21.38  | 21.23 | 21.50   | 21.23  | 21.9          |
| 10              | 256QAM | 1  | 25 | 20.90  | 21.08  | 21.28 | 21.08   | 21.34  |               |
| 10              | 256QAM | 1  | 49 | 21.18  | 20.94  | 21.17 | 21.20   | 20.81  |               |
| 10              | 256QAM | 25 | 0  | 20.97  | 20.80  | 20.98 | 20.95   | 20.71  | 21.9          |
| 10              | 256QAM | 25 | 12 | 20.90  | 20.77  | 20.89 | 20.90   | 20.81  |               |
| 10              | 256QAM | 25 | 25 | 20.97  | 21.04  | 20.92 | 20.73   | 20.74  |               |
| 10              | 256QAM | 50 | 0  | 21.10  | 21.02  | 20.98 | 20.77   | 20.83  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 21.54  | 21.47  | 21.58 | 21.66   | 21.36  | 21.90         |
| 5               | QPSK   | 1  | 12 | 21.56  | 21.42  | 21.47 | 21.55   | 21.36  |               |
| 5               | QPSK   | 1  | 24 | 21.43  | 21.61  | 21.51 | 21.53   | 21.39  |               |
| 5               | QPSK   | 12 | 0  | 21.49  | 21.48  | 21.51 | 21.47   | 21.21  | 21.9          |
| 5               | QPSK   | 12 | 7  | 21.50  | 21.41  | 21.41 | 21.49   | 21.33  |               |
| 5               | QPSK   | 12 | 13 | 21.45  | 21.43  | 21.50 | 21.41   | 21.30  |               |
| 5               | QPSK   | 25 | 0  | 21.46  | 21.46  | 21.49 | 21.55   | 21.33  |               |
| 5               | 16QAM  | 1  | 0  | 21.33  | 21.34  | 21.35 | 21.35   | 21.17  | 21.9          |
| 5               | 16QAM  | 1  | 12 | 20.97  | 20.96  | 21.17 | 21.04   | 20.97  |               |
| 5               | 16QAM  | 1  | 24 | 21.19  | 21.37  | 21.45 | 21.26   | 21.11  |               |
| 5               | 16QAM  | 12 | 0  | 21.52  | 21.59  | 21.63 | 21.48   | 21.34  | 21.9          |
| 5               | 16QAM  | 12 | 7  | 21.50  | 21.52  | 21.63 | 21.53   | 21.38  |               |
| 5               | 16QAM  | 12 | 13 | 21.48  | 21.59  | 21.58 | 21.54   | 21.39  |               |
| 5               | 16QAM  | 25 | 0  | 21.39  | 21.45  | 21.61 | 21.50   | 21.24  |               |
| 5               | 64QAM  | 1  | 0  | 21.22  | 21.00  | 21.43 | 21.39   | 21.34  | 21.9          |
| 5               | 64QAM  | 1  | 12 | 21.39  | 21.40  | 21.46 | 21.33   | 21.14  |               |
| 5               | 64QAM  | 1  | 24 | 21.35  | 21.38  | 21.11 | 20.98   | 20.96  |               |
| 5               | 64QAM  | 12 | 0  | 21.35  | 21.54  | 21.42 | 21.53   | 21.43  | 21.9          |
| 5               | 64QAM  | 12 | 7  | 21.36  | 21.40  | 21.63 | 21.52   | 21.31  |               |
| 5               | 64QAM  | 12 | 13 | 21.53  | 21.59  | 21.55 | 21.45   | 21.27  |               |
| 5               | 64QAM  | 25 | 0  | 21.49  | 21.56  | 21.46 | 21.47   | 21.27  |               |
| 5               | 256QAM | 1  | 0  | 21.24  | 21.36  | 21.36 | 21.46   | 21.28  | 21.9          |
| 5               | 256QAM | 1  | 12 | 20.95  | 21.11  | 21.27 | 21.19   | 21.14  |               |
| 5               | 256QAM | 1  | 24 | 21.11  | 20.92  | 21.22 | 21.10   | 20.85  |               |
| 5               | 256QAM | 12 | 0  | 20.95  | 20.80  | 20.89 | 20.90   | 20.80  | 21.9          |
| 5               | 256QAM | 12 | 7  | 20.93  | 20.73  | 20.96 | 20.81   | 20.77  |               |
| 5               | 256QAM | 12 | 13 | 20.78  | 20.99  | 20.99 | 20.90   | 20.79  |               |
| 5               | 256QAM | 25 | 0  | 21.10  | 21.02  | 21.01 | 20.80   | 20.79  |               |



## &lt;LTE Band 41\_HPUE\_Ant 1\_Index 9&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 21.54                    | 21.59                           | 21.46                       | 21.35                            | 21.19                     | 22.4                   |
| 20              | QPSK       | 1       | 49        | 21.39                    | 21.44                           | 21.35                       | 21.35                            | 21.13                     |                        |
| 20              | QPSK       | 1       | 99        | 21.41                    | 21.57                           | 21.44                       | 21.34                            | 21.14                     |                        |
| 20              | QPSK       | 50      | 0         | 21.45                    | 21.49                           | 21.45                       | 21.26                            | 21.13                     | 22.4                   |
| 20              | QPSK       | 50      | 24        | 21.41                    | 21.48                           | 21.38                       | 21.15                            | 21.18                     |                        |
| 20              | QPSK       | 50      | 50        | 21.36                    | 21.42                           | 21.31                       | 21.16                            | 21.13                     |                        |
| 20              | QPSK       | 100     | 0         | 21.42                    | 21.45                           | 21.44                       | 21.23                            | 21.07                     |                        |
| 20              | 16QAM      | 1       | 0         | 21.39                    | 21.46                           | 21.41                       | 21.18                            | 21.01                     | 22.4                   |
| 20              | 16QAM      | 1       | 49        | 21.41                    | 21.55                           | 21.28                       | 21.22                            | 20.99                     |                        |
| 20              | 16QAM      | 1       | 99        | 21.36                    | 21.40                           | 21.39                       | 21.29                            | 21.00                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.51                    | 21.48                           | 21.35                       | 21.17                            | 21.02                     | 22.4                   |
| 20              | 16QAM      | 50      | 24        | 21.45                    | 21.53                           | 21.31                       | 21.15                            | 21.06                     |                        |
| 20              | 16QAM      | 50      | 50        | 21.45                    | 21.50                           | 21.43                       | 21.28                            | 21.13                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.35                    | 21.56                           | 21.33                       | 21.21                            | 21.07                     |                        |
| 20              | 64QAM      | 1       | 0         | 21.45                    | 21.56                           | 21.29                       | 21.20                            | 21.03                     | 22.4                   |
| 20              | 64QAM      | 1       | 49        | 21.38                    | 21.54                           | 21.32                       | 21.34                            | 21.06                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.45                    | 21.52                           | 21.26                       | 21.34                            | 21.11                     |                        |
| 20              | 64QAM      | 50      | 0         | 21.38                    | 21.46                           | 21.26                       | 21.23                            | 20.99                     | 22.4                   |
| 20              | 64QAM      | 50      | 24        | 21.53                    | 21.58                           | 21.30                       | 21.26                            | 21.18                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.49                    | 21.44                           | 21.41                       | 21.32                            | 21.17                     |                        |
| 20              | 64QAM      | 100     | 0         | 21.46                    | 21.50                           | 21.45                       | 21.23                            | 21.02                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.37                    | 21.58                           | 21.46                       | 21.15                            | 21.17                     | 22                     |
| 20              | 256QAM     | 1       | 49        | 21.39                    | 21.46                           | 21.31                       | 21.28                            | 21.14                     |                        |
| 20              | 256QAM     | 1       | 99        | 21.34                    | 21.57                           | 21.45                       | 21.24                            | 21.10                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.48                    | 21.50                           | 21.37                       | 21.32                            | 21.01                     | 22                     |
| 20              | 256QAM     | 50      | 24        | 21.54                    | 21.50                           | 21.37                       | 21.27                            | 21.06                     |                        |
| 20              | 256QAM     | 50      | 50        | 21.53                    | 21.45                           | 21.40                       | 21.22                            | 21.06                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.50                    | 21.41                           | 21.45                       | 21.28                            | 21.05                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 21.40                    | 21.56                           | 21.33                       | 21.25                            | 21.12                     | 22.40                  |
| 15              | QPSK       | 1       | 37        | 21.19                    | 21.28                           | 21.20                       | 21.22                            | 20.95                     |                        |
| 15              | QPSK       | 1       | 74        | 21.39                    | 21.37                           | 21.30                       | 21.23                            | 21.11                     |                        |
| 15              | QPSK       | 36      | 0         | 21.27                    | 21.34                           | 21.45                       | 21.18                            | 21.01                     | 22.4                   |
| 15              | QPSK       | 36      | 20        | 21.28                    | 21.37                           | 21.28                       | 21.06                            | 21.15                     |                        |
| 15              | QPSK       | 36      | 39        | 21.35                    | 21.25                           | 21.31                       | 21.03                            | 21.10                     |                        |
| 15              | QPSK       | 75      | 0         | 21.26                    | 21.44                           | 21.34                       | 21.12                            | 20.92                     |                        |
| 15              | 16QAM      | 1       | 0         | 21.39                    | 21.31                           | 21.23                       | 21.15                            | 21.01                     | 22.4                   |
| 15              | 16QAM      | 1       | 37        | 21.29                    | 21.54                           | 21.18                       | 21.14                            | 20.82                     |                        |
| 15              | 16QAM      | 1       | 74        | 21.36                    | 21.20                           | 21.22                       | 21.19                            | 21.00                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.50                    | 21.29                           | 21.22                       | 21.01                            | 20.85                     | 22.4                   |
| 15              | 16QAM      | 36      | 20        | 21.33                    | 21.41                           | 21.24                       | 21.10                            | 20.87                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.36                    | 21.31                           | 21.37                       | 21.14                            | 21.07                     |                        |
| 15              | 16QAM      | 75      | 0         | 21.27                    | 21.54                           | 21.29                       | 21.20                            | 21.02                     |                        |
| 15              | 64QAM      | 1       | 0         | 21.26                    | 21.40                           | 21.23                       | 21.13                            | 20.93                     | 22.4                   |
| 15              | 64QAM      | 1       | 37        | 21.37                    | 21.46                           | 21.14                       | 21.17                            | 20.90                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.40                    | 21.32                           | 21.08                       | 21.21                            | 20.92                     |                        |
| 15              | 64QAM      | 36      | 0         | 21.24                    | 21.40                           | 21.24                       | 21.15                            | 20.99                     | 22.4                   |
| 15              | 64QAM      | 36      | 20        | 21.38                    | 21.58                           | 21.11                       | 21.06                            | 20.99                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.36                    | 21.37                           | 21.21                       | 21.26                            | 21.07                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.34                    | 21.37                           | 21.32                       | 21.20                            | 20.88                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.29                    | 21.51                           | 21.35                       | 21.03                            | 21.00                     | 22                     |
| 15              | 256QAM     | 1       | 37        | 21.30                    | 21.43                           | 21.16                       | 21.17                            | 20.99                     |                        |
| 15              | 256QAM     | 1       | 74        | 21.29                    | 21.46                           | 21.32                       | 21.13                            | 21.03                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.48                    | 21.33                           | 21.20                       | 21.30                            | 20.87                     | 22                     |
| 15              | 256QAM     | 36      | 20        | 21.48                    | 21.36                           | 21.25                       | 21.16                            | 20.90                     |                        |
| 15              | 256QAM     | 36      | 39        | 21.45                    | 21.44                           | 21.39                       | 21.07                            | 21.05                     |                        |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 21.42  | 21.30  | 21.42 | 21.08   | 20.89  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 21.43  | 21.43  | 21.40 | 21.22   | 21.08  | 22.40         |
| 10              | QPSK   | 1  | 25 | 21.33  | 21.27  | 21.30 | 21.27   | 21.10  |               |
| 10              | QPSK   | 1  | 49 | 21.26  | 21.43  | 21.44 | 21.24   | 21.04  |               |
| 10              | QPSK   | 25 | 0  | 21.43  | 21.46  | 21.42 | 21.20   | 20.99  | 22.4          |
| 10              | QPSK   | 25 | 12 | 21.21  | 21.32  | 21.22 | 21.00   | 21.06  |               |
| 10              | QPSK   | 25 | 25 | 21.32  | 21.37  | 21.25 | 21.03   | 21.08  |               |
| 10              | QPSK   | 50 | 0  | 21.31  | 21.30  | 21.25 | 21.12   | 20.88  |               |
| 10              | 16QAM  | 1  | 0  | 21.31  | 21.40  | 21.24 | 21.18   | 20.99  | 22.4          |
| 10              | 16QAM  | 1  | 25 | 21.29  | 21.49  | 21.15 | 21.11   | 20.85  |               |
| 10              | 16QAM  | 1  | 49 | 21.24  | 21.20  | 21.38 | 21.27   | 20.93  |               |
| 10              | 16QAM  | 25 | 0  | 21.35  | 21.32  | 21.15 | 21.17   | 20.95  | 22.4          |
| 10              | 16QAM  | 25 | 12 | 21.39  | 21.52  | 21.12 | 20.99   | 20.95  |               |
| 10              | 16QAM  | 25 | 25 | 21.27  | 21.32  | 21.41 | 21.09   | 21.12  |               |
| 10              | 16QAM  | 50 | 0  | 21.25  | 21.40  | 21.32 | 21.21   | 21.07  |               |
| 10              | 64QAM  | 1  | 0  | 21.28  | 21.46  | 21.29 | 21.02   | 20.92  | 22.4          |
| 10              | 64QAM  | 1  | 25 | 21.19  | 21.39  | 21.29 | 21.17   | 20.93  |               |
| 10              | 64QAM  | 1  | 49 | 21.45  | 21.44  | 21.07 | 21.33   | 20.91  |               |
| 10              | 64QAM  | 25 | 0  | 21.35  | 21.30  | 21.22 | 21.15   | 20.97  | 22.4          |
| 10              | 64QAM  | 25 | 12 | 21.49  | 21.47  | 21.11 | 21.25   | 21.15  |               |
| 10              | 64QAM  | 25 | 25 | 21.39  | 21.39  | 21.27 | 21.18   | 20.98  |               |
| 10              | 64QAM  | 50 | 0  | 21.34  | 21.43  | 21.41 | 21.17   | 20.96  |               |
| 10              | 256QAM | 1  | 0  | 21.25  | 21.58  | 21.28 | 21.11   | 21.04  | 22            |
| 10              | 256QAM | 1  | 25 | 21.39  | 21.30  | 21.15 | 21.21   | 21.00  |               |
| 10              | 256QAM | 1  | 49 | 21.24  | 21.43  | 21.36 | 21.16   | 21.10  |               |
| 10              | 256QAM | 25 | 0  | 21.40  | 21.31  | 21.22 | 21.28   | 20.82  | 22            |
| 10              | 256QAM | 25 | 12 | 21.36  | 21.49  | 21.28 | 21.16   | 21.04  |               |
| 10              | 256QAM | 25 | 25 | 21.51  | 21.43  | 21.20 | 21.09   | 20.87  |               |
| 10              | 256QAM | 50 | 0  | 21.32  | 21.30  | 21.35 | 21.09   | 20.97  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 21.38  | 21.49  | 21.30 | 21.21   | 21.01  | 22.40         |
| 5               | QPSK   | 1  | 12 | 21.20  | 21.25  | 21.16 | 21.25   | 20.93  |               |
| 5               | QPSK   | 1  | 24 | 21.23  | 21.56  | 21.27 | 21.24   | 21.09  |               |
| 5               | QPSK   | 12 | 0  | 21.31  | 21.33  | 21.25 | 21.12   | 21.04  | 22.4          |
| 5               | QPSK   | 12 | 7  | 21.36  | 21.36  | 21.19 | 20.98   | 21.04  |               |
| 5               | QPSK   | 12 | 13 | 21.21  | 21.33  | 21.21 | 21.02   | 21.07  |               |
| 5               | QPSK   | 25 | 0  | 21.41  | 21.25  | 21.35 | 21.13   | 20.87  |               |
| 5               | 16QAM  | 1  | 0  | 21.22  | 21.34  | 21.34 | 21.15   | 20.91  | 22.4          |
| 5               | 16QAM  | 1  | 12 | 21.38  | 21.44  | 21.10 | 21.10   | 20.91  |               |
| 5               | 16QAM  | 1  | 24 | 21.34  | 21.36  | 21.30 | 21.17   | 20.82  |               |
| 5               | 16QAM  | 12 | 0  | 21.36  | 21.40  | 21.35 | 20.99   | 21.01  | 22.4          |
| 5               | 16QAM  | 12 | 7  | 21.40  | 21.50  | 21.22 | 21.11   | 20.87  |               |
| 5               | 16QAM  | 12 | 13 | 21.25  | 21.49  | 21.30 | 21.25   | 20.96  |               |
| 5               | 16QAM  | 25 | 0  | 21.17  | 21.52  | 21.24 | 21.08   | 21.00  |               |
| 5               | 64QAM  | 1  | 0  | 21.45  | 21.50  | 21.21 | 21.05   | 20.91  | 22.4          |
| 5               | 64QAM  | 1  | 12 | 21.32  | 21.38  | 21.27 | 21.23   | 21.03  |               |
| 5               | 64QAM  | 1  | 24 | 21.38  | 21.36  | 21.15 | 21.28   | 20.99  |               |
| 5               | 64QAM  | 12 | 0  | 21.29  | 21.27  | 21.06 | 21.15   | 20.85  | 22.4          |
| 5               | 64QAM  | 12 | 7  | 21.49  | 21.55  | 21.14 | 21.23   | 21.17  |               |
| 5               | 64QAM  | 12 | 13 | 21.29  | 21.43  | 21.37 | 21.28   | 21.07  |               |
| 5               | 64QAM  | 25 | 0  | 21.36  | 21.36  | 21.33 | 21.20   | 21.01  |               |
| 5               | 256QAM | 1  | 0  | 21.23  | 21.47  | 21.34 | 20.95   | 21.04  | 22            |
| 5               | 256QAM | 1  | 12 | 21.36  | 21.32  | 21.12 | 21.14   | 21.14  |               |
| 5               | 256QAM | 1  | 24 | 21.20  | 21.47  | 21.29 | 21.09   | 20.98  |               |
| 5               | 256QAM | 12 | 0  | 21.31  | 21.31  | 21.23 | 21.30   | 20.92  | 22            |
| 5               | 256QAM | 12 | 7  | 21.51  | 21.45  | 21.36 | 21.22   | 20.98  |               |
| 5               | 256QAM | 12 | 13 | 21.45  | 21.37  | 21.20 | 21.03   | 20.92  |               |
| 5               | 256QAM | 25 | 0  | 21.30  | 21.27  | 21.45 | 21.23   | 20.95  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 24.30                 | 24.31                        | 24.29                    | 24.24                         | 24.20                  | 24.6                |
| 20              | QPSK       | 1       | 49        | 24.26                 | 24.24                        | 24.21                    | 24.17                         | 24.15                  |                     |
| 20              | QPSK       | 1       | 99        | 24.25                 | 24.25                        | 24.23                    | 24.13                         | 24.10                  |                     |
| 20              | QPSK       | 50      | 0         | 24.20                 | 24.21                        | 24.12                    | 24.07                         | 24.04                  | 24.6                |
| 20              | QPSK       | 50      | 24        | 24.18                 | 24.16                        | 24.11                    | 24.05                         | 24.02                  |                     |
| 20              | QPSK       | 50      | 50        | 24.18                 | 24.15                        | 24.10                    | 24.05                         | 24.00                  |                     |
| 20              | QPSK       | 100     | 0         | 24.20                 | 24.20                        | 24.08                    | 24.08                         | 23.99                  | 24.6                |
| 20              | 16QAM      | 1       | 0         | 24.03                 | 24.23                        | 24.20                    | 24.19                         | 24.00                  |                     |
| 20              | 16QAM      | 1       | 49        | 23.82                 | 23.82                        | 23.86                    | 23.82                         | 23.87                  |                     |
| 20              | 16QAM      | 1       | 99        | 24.03                 | 24.09                        | 24.04                    | 23.95                         | 23.92                  | 24.6                |
| 20              | 16QAM      | 50      | 0         | 23.74                 | 23.72                        | 23.66                    | 23.60                         | 23.54                  |                     |
| 20              | 16QAM      | 50      | 24        | 23.71                 | 23.68                        | 23.63                    | 23.59                         | 23.56                  |                     |
| 20              | 16QAM      | 50      | 50        | 23.72                 | 23.68                        | 23.66                    | 23.55                         | 23.54                  | 24.6                |
| 20              | 16QAM      | 100     | 0         | 23.75                 | 23.70                        | 23.64                    | 23.57                         | 23.56                  |                     |
| 20              | 64QAM      | 1       | 0         | 23.83                 | 23.80                        | 23.78                    | 23.77                         | 23.73                  |                     |
| 20              | 64QAM      | 1       | 49        | 23.82                 | 23.80                        | 23.77                    | 23.74                         | 23.84                  | 24.6                |
| 20              | 64QAM      | 1       | 99        | 23.81                 | 23.83                        | 23.76                    | 23.69                         | 23.70                  |                     |
| 20              | 64QAM      | 50      | 0         | 23.21                 | 23.16                        | 23.12                    | 23.08                         | 23.05                  |                     |
| 20              | 64QAM      | 50      | 24        | 23.21                 | 23.17                        | 23.11                    | 23.07                         | 23.04                  | 24                  |
| 20              | 64QAM      | 50      | 50        | 23.19                 | 23.16                        | 23.12                    | 23.04                         | 23.06                  |                     |
| 20              | 64QAM      | 100     | 0         | 23.14                 | 23.09                        | 23.07                    | 23.03                         | 22.99                  |                     |
| 20              | 256QAM     | 1       | 0         | 21.45                 | 21.12                        | 21.18                    | 21.22                         | 21.31                  | 22                  |
| 20              | 256QAM     | 1       | 49        | 21.42                 | 21.21                        | 21.17                    | 21.16                         | 21.00                  |                     |
| 20              | 256QAM     | 1       | 99        | 21.51                 | 21.29                        | 21.40                    | 21.28                         | 21.14                  |                     |
| 20              | 256QAM     | 50      | 0         | 21.40                 | 21.50                        | 21.45                    | 21.23                         | 21.37                  | 22                  |
| 20              | 256QAM     | 50      | 24        | 21.40                 | 21.38                        | 21.42                    | 21.48                         | 21.38                  |                     |
| 20              | 256QAM     | 50      | 50        | 21.44                 | 21.41                        | 21.53                    | 21.51                         | 21.33                  |                     |
| 20              | 256QAM     | 100     | 0         | 21.57                 | 21.31                        | 21.39                    | 21.45                         | 21.35                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 24.30                 | 24.28                        | 24.09                    | 24.19                         | 24.01                  | 24.60               |
| 15              | QPSK       | 1       | 37        | 24.24                 | 24.10                        | 24.13                    | 24.14                         | 24.12                  |                     |
| 15              | QPSK       | 1       | 74        | 24.05                 | 24.13                        | 24.06                    | 24.01                         | 23.95                  |                     |
| 15              | QPSK       | 36      | 0         | 24.19                 | 24.04                        | 23.93                    | 23.97                         | 23.85                  | 24.6                |
| 15              | QPSK       | 36      | 20        | 24.18                 | 24.08                        | 24.07                    | 23.89                         | 23.97                  |                     |
| 15              | QPSK       | 36      | 39        | 24.08                 | 23.96                        | 23.93                    | 24.01                         | 23.94                  |                     |
| 15              | QPSK       | 75      | 0         | 24.20                 | 24.10                        | 23.98                    | 23.95                         | 23.93                  | 24.6                |
| 15              | 16QAM      | 1       | 0         | 23.99                 | 24.20                        | 24.06                    | 24.01                         | 23.85                  |                     |
| 15              | 16QAM      | 1       | 37        | 23.63                 | 23.77                        | 23.69                    | 23.72                         | 23.68                  |                     |
| 15              | 16QAM      | 1       | 74        | 23.86                 | 23.99                        | 24.02                    | 23.80                         | 23.72                  | 24.6                |
| 15              | 16QAM      | 36      | 0         | 23.62                 | 23.69                        | 23.53                    | 23.46                         | 23.41                  |                     |
| 15              | 16QAM      | 36      | 20        | 23.52                 | 23.64                        | 23.52                    | 23.40                         | 23.47                  |                     |
| 15              | 16QAM      | 36      | 39        | 23.55                 | 23.67                        | 23.53                    | 23.43                         | 23.47                  | 24.6                |
| 15              | 16QAM      | 75      | 0         | 23.61                 | 23.53                        | 23.54                    | 23.43                         | 23.41                  |                     |
| 15              | 64QAM      | 1       | 0         | 23.78                 | 23.66                        | 23.65                    | 23.77                         | 23.67                  |                     |
| 15              | 64QAM      | 1       | 37        | 23.82                 | 23.79                        | 23.69                    | 23.69                         | 23.71                  | 24.6                |
| 15              | 64QAM      | 1       | 74        | 23.69                 | 23.79                        | 23.71                    | 23.65                         | 23.63                  |                     |
| 15              | 64QAM      | 36      | 0         | 23.08                 | 23.01                        | 22.99                    | 23.01                         | 22.98                  |                     |
| 15              | 64QAM      | 36      | 20        | 23.02                 | 23.17                        | 23.10                    | 22.96                         | 22.96                  | 24                  |
| 15              | 64QAM      | 36      | 39        | 23.06                 | 23.01                        | 23.06                    | 22.99                         | 23.05                  |                     |
| 15              | 64QAM      | 75      | 0         | 23.14                 | 22.99                        | 23.01                    | 22.85                         | 22.82                  |                     |
| 15              | 256QAM     | 1       | 0         | 21.33                 | 21.02                        | 21.01                    | 21.17                         | 21.19                  | 22                  |
| 15              | 256QAM     | 1       | 37        | 21.23                 | 21.17                        | 21.04                    | 21.12                         | 20.93                  |                     |
| 15              | 256QAM     | 1       | 74        | 21.49                 | 21.18                        | 21.36                    | 21.25                         | 21.14                  |                     |
| 15              | 256QAM     | 36      | 0         | 21.22                 | 21.49                        | 21.41                    | 21.11                         | 21.29                  | 22                  |
| 15              | 256QAM     | 36      | 20        | 21.24                 | 21.25                        | 21.23                    | 21.38                         | 21.18                  |                     |
| 15              | 256QAM     | 36      | 39        | 21.27                 | 21.29                        | 21.35                    | 21.32                         | 21.16                  |                     |



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|                 |        |    |    |        |        |       |         |        |                        |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 21.46  | 21.15  | 21.26 | 21.40   | 21.15  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  |                        |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   |                        |
| 10              | QPSK   | 1  | 0  | 24.26  | 24.28  | 24.28 | 24.06   | 24.20  | 24.60                  |
| 10              | QPSK   | 1  | 25 | 24.24  | 24.04  | 24.20 | 24.10   | 23.95  |                        |
| 10              | QPSK   | 1  | 49 | 24.20  | 24.25  | 24.10 | 24.01   | 24.02  |                        |
| 10              | QPSK   | 25 | 0  | 24.20  | 24.02  | 24.02 | 23.97   | 23.94  | 24.6                   |
| 10              | QPSK   | 25 | 12 | 24.18  | 24.10  | 24.06 | 23.90   | 23.89  |                        |
| 10              | QPSK   | 25 | 25 | 24.08  | 24.03  | 23.93 | 23.95   | 23.91  |                        |
| 10              | QPSK   | 50 | 0  | 24.09  | 24.09  | 23.91 | 24.08   | 23.95  |                        |
| 10              | 16QAM  | 1  | 0  | 23.89  | 24.21  | 24.05 | 24.03   | 23.81  | 24.6                   |
| 10              | 16QAM  | 1  | 25 | 23.79  | 23.82  | 23.66 | 23.70   | 23.82  |                        |
| 10              | 16QAM  | 1  | 49 | 23.88  | 24.05  | 23.84 | 23.85   | 23.73  |                        |
| 10              | 16QAM  | 25 | 0  | 23.68  | 23.64  | 23.55 | 23.60   | 23.54  | 24.6                   |
| 10              | 16QAM  | 25 | 12 | 23.57  | 23.64  | 23.44 | 23.40   | 23.56  |                        |
| 10              | 16QAM  | 25 | 25 | 23.55  | 23.48  | 23.61 | 23.50   | 23.34  |                        |
| 10              | 16QAM  | 50 | 0  | 23.62  | 23.70  | 23.63 | 23.39   | 23.37  |                        |
| 10              | 64QAM  | 1  | 0  | 23.75  | 23.60  | 23.60 | 23.57   | 23.61  | 24.6                   |
| 10              | 64QAM  | 1  | 25 | 23.70  | 23.64  | 23.75 | 23.54   | 23.83  |                        |
| 10              | 64QAM  | 1  | 49 | 23.68  | 23.72  | 23.66 | 23.64   | 23.65  |                        |
| 10              | 64QAM  | 25 | 0  | 23.02  | 22.96  | 23.08 | 22.95   | 22.90  | 24                     |
| 10              | 64QAM  | 25 | 12 | 23.14  | 22.98  | 22.98 | 23.03   | 22.88  |                        |
| 10              | 64QAM  | 25 | 25 | 23.15  | 23.10  | 22.94 | 22.92   | 23.00  |                        |
| 10              | 64QAM  | 50 | 0  | 22.95  | 23.08  | 23.05 | 23.03   | 22.82  |                        |
| 10              | 256QAM | 1  | 0  | 21.30  | 20.99  | 21.07 | 21.04   | 21.17  | 22                     |
| 10              | 256QAM | 1  | 25 | 21.41  | 21.08  | 21.11 | 21.12   | 20.88  |                        |
| 10              | 256QAM | 1  | 49 | 21.32  | 21.24  | 21.40 | 21.20   | 21.03  |                        |
| 10              | 256QAM | 25 | 0  | 21.35  | 21.35  | 21.43 | 21.19   | 21.23  | 22                     |
| 10              | 256QAM | 25 | 12 | 21.30  | 21.35  | 21.28 | 21.43   | 21.37  |                        |
| 10              | 256QAM | 25 | 25 | 21.29  | 21.27  | 21.49 | 21.43   | 21.29  |                        |
| 10              | 256QAM | 50 | 0  | 21.40  | 21.14  | 21.20 | 21.42   | 21.26  |                        |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 |                        |
| 5               | QPSK   | 1  | 0  | 24.19  | 24.18  | 24.16 | 24.07   | 24.06  | 24.60                  |
| 5               | QPSK   | 1  | 12 | 24.12  | 24.07  | 24.11 | 24.11   | 23.97  |                        |
| 5               | QPSK   | 1  | 24 | 24.18  | 24.06  | 24.18 | 23.98   | 23.92  |                        |
| 5               | QPSK   | 12 | 0  | 24.13  | 24.05  | 24.06 | 23.92   | 23.95  | 24.6                   |
| 5               | QPSK   | 12 | 7  | 24.08  | 24.10  | 23.92 | 23.86   | 23.92  |                        |
| 5               | QPSK   | 12 | 13 | 24.14  | 23.96  | 23.99 | 24.03   | 23.94  |                        |
| 5               | QPSK   | 25 | 0  | 24.08  | 24.04  | 23.91 | 23.95   | 23.95  |                        |
| 5               | 16QAM  | 1  | 0  | 23.95  | 24.15  | 24.17 | 23.99   | 23.81  | 24.6                   |
| 5               | 16QAM  | 1  | 12 | 23.63  | 23.65  | 23.76 | 23.62   | 23.87  |                        |
| 5               | 16QAM  | 1  | 24 | 23.99  | 23.95  | 23.99 | 23.90   | 23.73  |                        |
| 5               | 16QAM  | 12 | 0  | 23.63  | 23.72  | 23.47 | 23.42   | 23.46  | 24.6                   |
| 5               | 16QAM  | 12 | 7  | 23.69  | 23.56  | 23.58 | 23.49   | 23.44  |                        |
| 5               | 16QAM  | 12 | 13 | 23.52  | 23.49  | 23.61 | 23.40   | 23.48  |                        |
| 5               | 16QAM  | 25 | 0  | 23.71  | 23.68  | 23.64 | 23.46   | 23.42  |                        |
| 5               | 64QAM  | 1  | 0  | 23.70  | 23.78  | 23.61 | 23.70   | 23.73  | 24.6                   |
| 5               | 64QAM  | 1  | 12 | 23.75  | 23.62  | 23.71 | 23.67   | 23.80  |                        |
| 5               | 64QAM  | 1  | 24 | 23.72  | 23.65  | 23.56 | 23.63   | 23.66  |                        |
| 5               | 64QAM  | 12 | 0  | 23.17  | 22.98  | 22.95 | 22.99   | 22.98  | 24                     |
| 5               | 64QAM  | 12 | 7  | 23.13  | 23.10  | 23.08 | 23.05   | 22.97  |                        |
| 5               | 64QAM  | 12 | 13 | 23.09  | 23.01  | 23.10 | 22.96   | 22.97  |                        |
| 5               | 64QAM  | 25 | 0  | 22.94  | 23.01  | 23.05 | 23.03   | 22.97  |                        |
| 5               | 256QAM | 1  | 0  | 21.41  | 20.97  | 21.13 | 21.10   | 21.29  | 22                     |
| 5               | 256QAM | 1  | 12 | 21.35  | 21.01  | 20.99 | 21.01   | 20.91  |                        |
| 5               | 256QAM | 1  | 24 | 21.38  | 21.15  | 21.39 | 21.12   | 21.08  |                        |
| 5               | 256QAM | 12 | 0  | 21.22  | 21.34  | 21.25 | 21.20   | 21.36  | 22                     |
| 5               | 256QAM | 12 | 7  | 21.39  | 21.27  | 21.24 | 21.44   | 21.27  |                        |
| 5               | 256QAM | 12 | 13 | 21.25  | 21.26  | 21.53 | 21.46   | 21.16  |                        |
| 5               | 256QAM | 25 | 0  | 21.38  | 21.22  | 21.28 | 21.29   | 21.19  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 24.27                 | 24.16                        | 24.48                    | 24.28                         | 24.26                  | 25.1                |
| 20              | QPSK       | 1       | 49        | 24.20                 | 24.13                        | 24.38                    | 24.21                         | 24.21                  |                     |
| 20              | QPSK       | 1       | 99        | 24.26                 | 24.09                        | 24.20                    | 24.25                         | 24.25                  |                     |
| 20              | QPSK       | 50      | 0         | 24.28                 | 24.19                        | 24.35                    | 24.18                         | 24.16                  | 25.1                |
| 20              | QPSK       | 50      | 24        | 24.23                 | 24.14                        | 24.33                    | 24.14                         | 24.14                  |                     |
| 20              | QPSK       | 50      | 50        | 24.24                 | 24.11                        | 24.14                    | 24.14                         | 24.06                  |                     |
| 20              | QPSK       | 100     | 0         | 24.14                 | 24.19                        | 24.29                    | 24.17                         | 24.02                  |                     |
| 20              | 16QAM      | 1       | 0         | 24.28                 | 23.99                        | 24.15                    | 24.14                         | 23.96                  | 25.1                |
| 20              | 16QAM      | 1       | 49        | 24.08                 | 24.01                        | 24.29                    | 23.92                         | 24.17                  |                     |
| 20              | 16QAM      | 1       | 99        | 24.11                 | 24.05                        | 24.22                    | 23.92                         | 24.06                  |                     |
| 20              | 16QAM      | 50      | 0         | 23.62                 | 23.77                        | 23.95                    | 23.55                         | 23.55                  | 25                  |
| 20              | 16QAM      | 50      | 24        | 23.88                 | 23.41                        | 23.73                    | 23.50                         | 23.75                  |                     |
| 20              | 16QAM      | 50      | 50        | 23.51                 | 23.80                        | 23.77                    | 23.59                         | 23.55                  |                     |
| 20              | 16QAM      | 100     | 0         | 23.74                 | 23.74                        | 23.53                    | 23.53                         | 23.77                  |                     |
| 20              | 64QAM      | 1       | 0         | 23.69                 | 23.63                        | 23.68                    | 23.88                         | 23.79                  | 25                  |
| 20              | 64QAM      | 1       | 49        | 23.82                 | 23.62                        | 23.68                    | 23.78                         | 23.80                  |                     |
| 20              | 64QAM      | 1       | 99        | 23.73                 | 23.61                        | 23.77                    | 23.72                         | 23.46                  |                     |
| 20              | 64QAM      | 50      | 0         | 22.80                 | 22.59                        | 22.93                    | 22.49                         | 22.45                  | 24                  |
| 20              | 64QAM      | 50      | 24        | 22.61                 | 22.71                        | 22.62                    | 22.59                         | 22.46                  |                     |
| 20              | 64QAM      | 50      | 50        | 22.76                 | 22.54                        | 22.76                    | 22.65                         | 22.43                  |                     |
| 20              | 64QAM      | 100     | 0         | 22.91                 | 22.66                        | 22.93                    | 22.34                         | 22.28                  |                     |
| 20              | 256QAM     | 1       | 0         | 20.76                 | 20.88                        | 21.00                    | 20.78                         | 20.89                  | 22                  |
| 20              | 256QAM     | 1       | 49        | 20.74                 | 20.83                        | 20.79                    | 20.79                         | 20.91                  |                     |
| 20              | 256QAM     | 1       | 99        | 20.77                 | 21.00                        | 20.96                    | 20.97                         | 20.70                  |                     |
| 20              | 256QAM     | 50      | 0         | 20.93                 | 20.78                        | 21.17                    | 20.66                         | 20.83                  | 22                  |
| 20              | 256QAM     | 50      | 24        | 21.22                 | 20.81                        | 21.12                    | 20.96                         | 20.73                  |                     |
| 20              | 256QAM     | 50      | 50        | 20.83                 | 20.87                        | 21.12                    | 20.95                         | 20.79                  |                     |
| 20              | 256QAM     | 100     | 0         | 20.92                 | 21.04                        | 21.00                    | 20.79                         | 20.49                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 24.35                 | 24.11                        | 24.31                    | 24.16                         | 24.34                  | 25.10               |
| 15              | QPSK       | 1       | 37        | 24.20                 | 23.93                        | 24.17                    | 24.28                         | 24.11                  |                     |
| 15              | QPSK       | 1       | 74        | 24.25                 | 24.07                        | 24.11                    | 24.19                         | 24.11                  |                     |
| 15              | QPSK       | 36      | 0         | 24.13                 | 23.94                        | 24.38                    | 24.05                         | 24.09                  | 25.1                |
| 15              | QPSK       | 36      | 20        | 24.24                 | 24.18                        | 24.36                    | 24.10                         | 23.95                  |                     |
| 15              | QPSK       | 36      | 39        | 24.14                 | 24.01                        | 24.14                    | 24.06                         | 24.09                  |                     |
| 15              | QPSK       | 75      | 0         | 24.16                 | 24.00                        | 24.23                    | 24.04                         | 23.95                  |                     |
| 15              | 16QAM      | 1       | 0         | 24.22                 | 23.95                        | 24.11                    | 24.21                         | 23.92                  | 25.1                |
| 15              | 16QAM      | 1       | 37        | 24.11                 | 23.98                        | 24.07                    | 24.19                         | 24.28                  |                     |
| 15              | 16QAM      | 1       | 74        | 23.97                 | 24.14                        | 24.09                    | 24.08                         | 24.02                  |                     |
| 15              | 16QAM      | 36      | 0         | 23.99                 | 23.55                        | 23.89                    | 23.61                         | 23.58                  | 25                  |
| 15              | 16QAM      | 36      | 20        | 23.81                 | 23.39                        | 23.71                    | 23.80                         | 23.72                  |                     |
| 15              | 16QAM      | 36      | 39        | 23.90                 | 23.47                        | 23.65                    | 23.77                         | 23.58                  |                     |
| 15              | 16QAM      | 75      | 0         | 23.70                 | 23.58                        | 23.59                    | 23.57                         | 23.57                  |                     |
| 15              | 64QAM      | 1       | 0         | 23.72                 | 23.42                        | 23.71                    | 23.51                         | 23.47                  | 25                  |
| 15              | 64QAM      | 1       | 37        | 23.56                 | 23.58                        | 23.59                    | 23.70                         | 23.60                  |                     |
| 15              | 64QAM      | 1       | 74        | 23.70                 | 23.52                        | 23.60                    | 23.52                         | 23.64                  |                     |
| 15              | 64QAM      | 36      | 0         | 22.77                 | 22.67                        | 22.81                    | 22.42                         | 22.36                  | 24                  |
| 15              | 64QAM      | 36      | 20        | 22.90                 | 22.44                        | 22.66                    | 22.46                         | 22.51                  |                     |
| 15              | 64QAM      | 36      | 39        | 22.73                 | 22.71                        | 22.81                    | 22.46                         | 22.53                  |                     |
| 15              | 64QAM      | 75      | 0         | 22.77                 | 22.62                        | 22.67                    | 22.44                         | 22.31                  |                     |
| 15              | 256QAM     | 1       | 0         | 20.93                 | 20.86                        | 20.81                    | 20.58                         | 20.78                  | 22                  |
| 15              | 256QAM     | 1       | 37        | 20.88                 | 20.67                        | 20.73                    | 20.64                         | 20.98                  |                     |
| 15              | 256QAM     | 1       | 74        | 20.69                 | 20.87                        | 20.98                    | 20.73                         | 20.77                  |                     |
| 15              | 256QAM     | 36      | 0         | 21.20                 | 20.82                        | 20.91                    | 20.77                         | 20.79                  | 22                  |
| 15              | 256QAM     | 36      | 20        | 21.05                 | 20.81                        | 20.99                    | 20.55                         | 20.75                  |                     |
| 15              | 256QAM     | 36      | 39        | 20.80                 | 20.76                        | 20.85                    | 20.98                         | 20.68                  |                     |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 21.10  | 20.50  | 20.94 | 20.63   | 20.77  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 24.12  | 24.07  | 24.25 | 24.18   | 24.17  | 25.10         |
| 10              | QPSK   | 1  | 25 | 24.07  | 24.04  | 24.14 | 24.19   | 24.07  |               |
| 10              | QPSK   | 1  | 49 | 24.15  | 24.09  | 24.11 | 24.21   | 24.13  |               |
| 10              | QPSK   | 25 | 0  | 24.20  | 24.14  | 24.22 | 24.11   | 24.14  | 25.1          |
| 10              | QPSK   | 25 | 12 | 24.25  | 24.07  | 24.36 | 24.08   | 24.04  |               |
| 10              | QPSK   | 25 | 25 | 24.08  | 23.94  | 24.16 | 23.99   | 23.99  |               |
| 10              | QPSK   | 50 | 0  | 24.13  | 23.97  | 24.11 | 23.93   | 24.02  | 25.1          |
| 10              | 16QAM  | 1  | 0  | 23.90  | 24.34  | 24.30 | 24.16   | 24.29  |               |
| 10              | 16QAM  | 1  | 25 | 24.00  | 24.10  | 24.21 | 24.13   | 24.16  |               |
| 10              | 16QAM  | 1  | 49 | 23.94  | 24.15  | 24.17 | 23.90   | 24.13  | 25            |
| 10              | 16QAM  | 25 | 0  | 23.82  | 23.61  | 23.90 | 23.64   | 23.54  |               |
| 10              | 16QAM  | 25 | 12 | 23.82  | 23.65  | 23.62 | 23.77   | 23.51  |               |
| 10              | 16QAM  | 25 | 25 | 23.70  | 23.64  | 23.72 | 23.38   | 23.61  | 25            |
| 10              | 16QAM  | 50 | 0  | 23.49  | 23.66  | 23.74 | 23.34   | 23.49  |               |
| 10              | 64QAM  | 1  | 0  | 23.61  | 23.48  | 23.80 | 23.44   | 23.42  |               |
| 10              | 64QAM  | 1  | 25 | 23.46  | 23.57  | 23.79 | 23.70   | 23.87  | 25            |
| 10              | 64QAM  | 1  | 49 | 23.51  | 23.61  | 23.68 | 23.67   | 23.74  |               |
| 10              | 64QAM  | 25 | 0  | 22.81  | 22.47  | 23.04 | 22.27   | 22.42  |               |
| 10              | 64QAM  | 25 | 12 | 22.79  | 22.61  | 22.43 | 22.29   | 22.28  | 24            |
| 10              | 64QAM  | 25 | 25 | 22.58  | 22.31  | 22.92 | 22.60   | 22.46  |               |
| 10              | 64QAM  | 50 | 0  | 22.76  | 22.59  | 22.53 | 22.35   | 22.58  |               |
| 10              | 256QAM | 1  | 0  | 20.79  | 20.82  | 21.13 | 20.84   | 20.79  | 22            |
| 10              | 256QAM | 1  | 25 | 20.61  | 20.83  | 20.80 | 20.68   | 20.76  |               |
| 10              | 256QAM | 1  | 49 | 20.98  | 20.93  | 21.01 | 20.86   | 20.62  |               |
| 10              | 256QAM | 25 | 0  | 21.26  | 21.07  | 21.26 | 20.79   | 20.51  | 22            |
| 10              | 256QAM | 25 | 12 | 20.98  | 20.86  | 20.84 | 20.66   | 20.69  |               |
| 10              | 256QAM | 25 | 25 | 20.89  | 20.75  | 21.01 | 20.55   | 20.54  |               |
| 10              | 256QAM | 50 | 0  | 20.92  | 20.81  | 20.91 | 20.82   | 20.45  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 24.23  | 24.10  | 24.41 | 24.08   | 24.34  | 25.10         |
| 5               | QPSK   | 1  | 12 | 24.20  | 24.05  | 24.16 | 24.19   | 24.19  |               |
| 5               | QPSK   | 1  | 24 | 24.02  | 23.94  | 24.12 | 24.21   | 24.09  |               |
| 5               | QPSK   | 12 | 0  | 24.17  | 24.21  | 24.33 | 24.07   | 24.02  | 25.1          |
| 5               | QPSK   | 12 | 7  | 24.21  | 24.10  | 24.27 | 24.10   | 24.03  |               |
| 5               | QPSK   | 12 | 13 | 24.05  | 23.98  | 24.04 | 23.97   | 23.93  |               |
| 5               | QPSK   | 25 | 0  | 24.05  | 24.06  | 24.07 | 24.05   | 24.02  | 25.1          |
| 5               | 16QAM  | 1  | 0  | 24.24  | 24.11  | 24.26 | 24.20   | 24.11  |               |
| 5               | 16QAM  | 1  | 12 | 24.20  | 23.94  | 23.97 | 24.25   | 23.93  |               |
| 5               | 16QAM  | 1  | 24 | 24.30  | 24.06  | 24.05 | 24.00   | 23.97  | 25            |
| 5               | 16QAM  | 12 | 0  | 23.44  | 23.36  | 23.61 | 23.64   | 23.40  |               |
| 5               | 16QAM  | 12 | 7  | 23.57  | 23.71  | 23.38 | 23.60   | 23.38  |               |
| 5               | 16QAM  | 12 | 13 | 23.64  | 23.58  | 23.67 | 23.66   | 23.30  | 25            |
| 5               | 16QAM  | 25 | 0  | 23.87  | 23.72  | 23.42 | 23.47   | 23.65  |               |
| 5               | 64QAM  | 1  | 0  | 23.52  | 23.56  | 23.76 | 23.73   | 23.54  |               |
| 5               | 64QAM  | 1  | 12 | 23.60  | 23.37  | 23.63 | 23.34   | 23.38  | 25            |
| 5               | 64QAM  | 1  | 24 | 23.72  | 23.76  | 23.71 | 23.28   | 23.54  |               |
| 5               | 64QAM  | 12 | 0  | 22.74  | 22.37  | 22.72 | 22.30   | 22.37  |               |
| 5               | 64QAM  | 12 | 7  | 22.77  | 22.62  | 22.51 | 22.31   | 22.30  | 24            |
| 5               | 64QAM  | 12 | 13 | 22.38  | 22.38  | 22.72 | 22.52   | 22.05  |               |
| 5               | 64QAM  | 25 | 0  | 22.88  | 22.50  | 22.77 | 22.14   | 22.51  |               |
| 5               | 256QAM | 1  | 0  | 20.79  | 20.47  | 20.98 | 20.69   | 20.61  | 22            |
| 5               | 256QAM | 1  | 12 | 20.72  | 20.75  | 21.09 | 20.87   | 20.80  |               |
| 5               | 256QAM | 1  | 24 | 20.93  | 20.81  | 20.97 | 20.77   | 20.79  |               |
| 5               | 256QAM | 12 | 0  | 21.16  | 20.67  | 21.06 | 20.70   | 20.78  | 22            |
| 5               | 256QAM | 12 | 7  | 20.87  | 20.86  | 20.85 | 20.78   | 20.78  |               |
| 5               | 256QAM | 12 | 13 | 20.87  | 20.89  | 21.07 | 20.96   | 20.58  |               |
| 5               | 256QAM | 25 | 0  | 20.93  | 20.86  | 20.94 | 20.61   | 20.65  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 21.56                    | 21.64                           | 21.67                       | 21.66                            | 21.48                     | 22.7                   |
| 20              | QPSK       | 1       | 49        | 21.58                    | 21.62                           | 21.63                       | 21.63                            | 21.44                     |                        |
| 20              | QPSK       | 1       | 99        | 21.56                    | 21.63                           | 21.65                       | 21.59                            | 21.41                     |                        |
| 20              | QPSK       | 50      | 0         | 21.56                    | 21.57                           | 21.62                       | 21.53                            | 21.38                     | 22.7                   |
| 20              | QPSK       | 50      | 24        | 21.55                    | 21.54                           | 21.60                       | 21.52                            | 21.37                     |                        |
| 20              | QPSK       | 50      | 50        | 21.55                    | 21.57                           | 21.58                       | 21.51                            | 21.33                     |                        |
| 20              | QPSK       | 100     | 0         | 21.53                    | 21.54                           | 21.60                       | 21.55                            | 21.33                     |                        |
| 20              | 16QAM      | 1       | 0         | 21.38                    | 21.46                           | 21.45                       | 21.52                            | 21.35                     | 22.7                   |
| 20              | 16QAM      | 1       | 49        | 21.11                    | 21.16                           | 21.19                       | 21.14                            | 20.97                     |                        |
| 20              | 16QAM      | 1       | 99        | 21.35                    | 21.45                           | 21.51                       | 21.44                            | 21.25                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.58                    | 21.61                           | 21.64                       | 21.57                            | 21.43                     |                        |
| 20              | 16QAM      | 50      | 24        | 21.56                    | 21.58                           | 21.63                       | 21.57                            | 21.39                     | 22.7                   |
| 20              | 16QAM      | 50      | 50        | 21.56                    | 21.60                           | 21.63                       | 21.57                            | 21.40                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.59                    | 21.63                           | 21.65                       | 21.61                            | 21.42                     |                        |
| 20              | 64QAM      | 1       | 0         | 21.37                    | 21.15                           | 21.59                       | 21.54                            | 21.44                     |                        |
| 20              | 64QAM      | 1       | 49        | 21.53                    | 21.54                           | 21.49                       | 21.43                            | 21.26                     | 22.7                   |
| 20              | 64QAM      | 1       | 99        | 21.38                    | 21.46                           | 21.22                       | 21.17                            | 21.03                     |                        |
| 20              | 64QAM      | 50      | 0         | 21.55                    | 21.60                           | 21.62                       | 21.57                            | 21.43                     |                        |
| 20              | 64QAM      | 50      | 24        | 21.55                    | 21.60                           | 21.63                       | 21.56                            | 21.42                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.55                    | 21.61                           | 21.63                       | 21.58                            | 21.38                     | 22.7                   |
| 20              | 64QAM      | 100     | 0         | 21.56                    | 21.61                           | 21.63                       | 21.60                            | 21.39                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.31                    | 21.51                           | 21.39                       | 21.58                            | 21.36                     |                        |
| 20              | 256QAM     | 1       | 49        | 21.10                    | 21.19                           | 21.33                       | 21.19                            | 21.34                     |                        |
| 20              | 256QAM     | 1       | 99        | 21.20                    | 21.11                           | 21.28                       | 21.26                            | 20.95                     | 22                     |
| 20              | 256QAM     | 50      | 0         | 21.03                    | 20.99                           | 21.05                       | 20.95                            | 20.81                     |                        |
| 20              | 256QAM     | 50      | 24        | 20.93                    | 20.92                           | 21.01                       | 20.93                            | 20.96                     |                        |
| 20              | 256QAM     | 50      | 50        | 20.97                    | 21.15                           | 21.01                       | 20.90                            | 20.81                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.14                    | 21.06                           | 21.08                       | 20.90                            | 20.89                     | Tune-up limit<br>(dBm) |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     |                        |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 21.44                    | 21.57                           | 21.61                       | 21.50                            | 21.44                     |                        |
| 15              | QPSK       | 1       | 37        | 21.46                    | 21.47                           | 21.50                       | 21.61                            | 21.35                     | 22.70                  |
| 15              | QPSK       | 1       | 74        | 21.38                    | 21.48                           | 21.45                       | 21.58                            | 21.28                     |                        |
| 15              | QPSK       | 36      | 0         | 21.43                    | 21.55                           | 21.46                       | 21.43                            | 21.24                     |                        |
| 15              | QPSK       | 36      | 20        | 21.42                    | 21.43                           | 21.52                       | 21.39                            | 21.22                     | 22.7                   |
| 15              | QPSK       | 36      | 39        | 21.48                    | 21.52                           | 21.42                       | 21.44                            | 21.18                     |                        |
| 15              | QPSK       | 75      | 0         | 21.43                    | 21.50                           | 21.53                       | 21.50                            | 21.18                     |                        |
| 15              | 16QAM      | 1       | 0         | 21.35                    | 21.29                           | 21.35                       | 21.39                            | 21.28                     |                        |
| 15              | 16QAM      | 1       | 37        | 21.01                    | 21.07                           | 21.10                       | 21.07                            | 21.03                     | 22.7                   |
| 15              | 16QAM      | 1       | 74        | 21.18                    | 21.41                           | 21.34                       | 21.42                            | 21.09                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.55                    | 21.55                           | 21.55                       | 21.40                            | 21.23                     |                        |
| 15              | 16QAM      | 36      | 20        | 21.54                    | 21.45                           | 21.61                       | 21.56                            | 21.22                     | 22.7                   |
| 15              | 16QAM      | 36      | 39        | 21.41                    | 21.59                           | 21.54                       | 21.47                            | 21.38                     |                        |
| 15              | 16QAM      | 75      | 0         | 21.45                    | 21.58                           | 21.65                       | 21.49                            | 21.22                     |                        |
| 15              | 64QAM      | 1       | 0         | 21.22                    | 21.04                           | 21.45                       | 21.37                            | 21.24                     |                        |
| 15              | 64QAM      | 1       | 37        | 21.48                    | 21.45                           | 21.35                       | 21.42                            | 21.21                     | 22.7                   |
| 15              | 64QAM      | 1       | 74        | 21.28                    | 21.31                           | 21.06                       | 21.07                            | 20.92                     |                        |
| 15              | 64QAM      | 36      | 0         | 21.40                    | 21.56                           | 21.62                       | 21.44                            | 21.31                     |                        |
| 15              | 64QAM      | 36      | 20        | 21.44                    | 21.50                           | 21.59                       | 21.42                            | 21.28                     | 22.7                   |
| 15              | 64QAM      | 36      | 39        | 21.40                    | 21.43                           | 21.51                       | 21.41                            | 21.38                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.38                    | 21.43                           | 21.60                       | 21.54                            | 21.27                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.30                    | 21.34                           | 21.28                       | 21.49                            | 21.16                     |                        |
| 15              | 256QAM     | 1       | 37        | 21.05                    | 21.01                           | 21.16                       | 21.14                            | 21.34                     | 22                     |
| 15              | 256QAM     | 1       | 74        | 21.06                    | 20.94                           | 21.22                       | 21.17                            | 20.75                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.89                    | 20.85                           | 21.02                       | 20.80                            | 20.76                     |                        |
| 15              | 256QAM     | 36      | 20        | 20.79                    | 20.92                           | 20.88                       | 20.93                            | 20.77                     | 22                     |
| 15              | 256QAM     | 36      | 39        | 20.89                    | 20.99                           | 20.91                       | 20.81                            | 20.75                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 21.01  | 20.98  | 21.08 | 20.88   | 20.79  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 21.49  | 21.51  | 21.49 | 21.60   | 21.38  | 22.70         |
| 10              | QPSK   | 1  | 25 | 21.57  | 21.57  | 21.54 | 21.61   | 21.38  |               |
| 10              | QPSK   | 1  | 49 | 21.37  | 21.60  | 21.59 | 21.54   | 21.31  |               |
| 10              | QPSK   | 25 | 0  | 21.45  | 21.46  | 21.49 | 21.48   | 21.20  | 22.7          |
| 10              | QPSK   | 25 | 12 | 21.47  | 21.38  | 21.43 | 21.47   | 21.36  |               |
| 10              | QPSK   | 25 | 25 | 21.50  | 21.39  | 21.45 | 21.43   | 21.21  |               |
| 10              | QPSK   | 50 | 0  | 21.46  | 21.49  | 21.57 | 21.40   | 21.25  |               |
| 10              | 16QAM  | 1  | 0  | 21.19  | 21.35  | 21.35 | 21.50   | 21.25  | 22.7          |
| 10              | 16QAM  | 1  | 25 | 20.94  | 21.06  | 21.06 | 21.11   | 21.02  |               |
| 10              | 16QAM  | 1  | 49 | 21.15  | 21.40  | 21.48 | 21.37   | 21.11  |               |
| 10              | 16QAM  | 25 | 0  | 21.56  | 21.42  | 21.51 | 21.50   | 21.32  | 22.7          |
| 10              | 16QAM  | 25 | 12 | 21.41  | 21.52  | 21.56 | 21.52   | 21.38  |               |
| 10              | 16QAM  | 25 | 25 | 21.46  | 21.59  | 21.43 | 21.41   | 21.40  |               |
| 10              | 16QAM  | 50 | 0  | 21.58  | 21.52  | 21.57 | 21.48   | 21.22  |               |
| 10              | 64QAM  | 1  | 0  | 21.32  | 21.08  | 21.49 | 21.50   | 21.33  | 22.7          |
| 10              | 64QAM  | 1  | 25 | 21.53  | 21.42  | 21.36 | 21.31   | 21.23  |               |
| 10              | 64QAM  | 1  | 49 | 21.23  | 21.42  | 21.20 | 21.03   | 21.05  |               |
| 10              | 64QAM  | 25 | 0  | 21.51  | 21.48  | 21.62 | 21.52   | 21.26  | 22.7          |
| 10              | 64QAM  | 25 | 12 | 21.36  | 21.42  | 21.60 | 21.51   | 21.41  |               |
| 10              | 64QAM  | 25 | 25 | 21.53  | 21.54  | 21.49 | 21.51   | 21.26  |               |
| 10              | 64QAM  | 50 | 0  | 21.40  | 21.48  | 21.58 | 21.44   | 21.33  |               |
| 10              | 256QAM | 1  | 0  | 21.24  | 21.38  | 21.23 | 21.50   | 21.23  | 22            |
| 10              | 256QAM | 1  | 25 | 20.90  | 21.08  | 21.28 | 21.08   | 21.34  |               |
| 10              | 256QAM | 1  | 49 | 21.18  | 20.94  | 21.17 | 21.20   | 20.81  |               |
| 10              | 256QAM | 25 | 0  | 20.97  | 20.80  | 20.98 | 20.95   | 20.71  | 22            |
| 10              | 256QAM | 25 | 12 | 20.90  | 20.77  | 20.89 | 20.90   | 20.81  |               |
| 10              | 256QAM | 25 | 25 | 20.97  | 21.04  | 20.92 | 20.73   | 20.74  |               |
| 10              | 256QAM | 50 | 0  | 21.10  | 21.02  | 20.98 | 20.77   | 20.83  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 21.54  | 21.47  | 21.58 | 21.66   | 21.36  | 22.70         |
| 5               | QPSK   | 1  | 12 | 21.56  | 21.42  | 21.47 | 21.55   | 21.36  |               |
| 5               | QPSK   | 1  | 24 | 21.43  | 21.61  | 21.51 | 21.53   | 21.39  |               |
| 5               | QPSK   | 12 | 0  | 21.49  | 21.48  | 21.51 | 21.47   | 21.21  | 22.7          |
| 5               | QPSK   | 12 | 7  | 21.50  | 21.41  | 21.41 | 21.49   | 21.33  |               |
| 5               | QPSK   | 12 | 13 | 21.45  | 21.43  | 21.50 | 21.41   | 21.30  |               |
| 5               | QPSK   | 25 | 0  | 21.46  | 21.46  | 21.49 | 21.55   | 21.33  |               |
| 5               | 16QAM  | 1  | 0  | 21.33  | 21.34  | 21.35 | 21.35   | 21.17  | 22.7          |
| 5               | 16QAM  | 1  | 12 | 20.97  | 20.96  | 21.17 | 21.04   | 20.97  |               |
| 5               | 16QAM  | 1  | 24 | 21.19  | 21.37  | 21.45 | 21.26   | 21.11  |               |
| 5               | 16QAM  | 12 | 0  | 21.52  | 21.59  | 21.63 | 21.48   | 21.34  | 22.7          |
| 5               | 16QAM  | 12 | 7  | 21.50  | 21.52  | 21.63 | 21.53   | 21.38  |               |
| 5               | 16QAM  | 12 | 13 | 21.48  | 21.59  | 21.58 | 21.54   | 21.39  |               |
| 5               | 16QAM  | 25 | 0  | 21.39  | 21.45  | 21.61 | 21.50   | 21.24  |               |
| 5               | 64QAM  | 1  | 0  | 21.22  | 21.00  | 21.43 | 21.39   | 21.34  | 22.7          |
| 5               | 64QAM  | 1  | 12 | 21.39  | 21.40  | 21.46 | 21.33   | 21.14  |               |
| 5               | 64QAM  | 1  | 24 | 21.35  | 21.38  | 21.11 | 20.98   | 20.96  |               |
| 5               | 64QAM  | 12 | 0  | 21.35  | 21.54  | 21.42 | 21.53   | 21.43  | 22.7          |
| 5               | 64QAM  | 12 | 7  | 21.36  | 21.40  | 21.63 | 21.52   | 21.31  |               |
| 5               | 64QAM  | 12 | 13 | 21.53  | 21.59  | 21.55 | 21.45   | 21.27  |               |
| 5               | 64QAM  | 25 | 0  | 21.49  | 21.56  | 21.46 | 21.47   | 21.27  |               |
| 5               | 256QAM | 1  | 0  | 21.24  | 21.36  | 21.36 | 21.46   | 21.28  | 22            |
| 5               | 256QAM | 1  | 12 | 20.95  | 21.11  | 21.27 | 21.19   | 21.14  |               |
| 5               | 256QAM | 1  | 24 | 21.11  | 20.92  | 21.22 | 21.10   | 20.85  |               |
| 5               | 256QAM | 12 | 0  | 20.95  | 20.80  | 20.89 | 20.90   | 20.80  | 22            |
| 5               | 256QAM | 12 | 7  | 20.93  | 20.73  | 20.96 | 20.81   | 20.77  |               |
| 5               | 256QAM | 12 | 13 | 20.78  | 20.99  | 20.99 | 20.90   | 20.79  |               |
| 5               | 256QAM | 25 | 0  | 21.10  | 21.02  | 21.01 | 20.80   | 20.79  |               |



## &lt;LTE Band 41\_HPUE\_Ant 1\_Index 10&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 23.73                    | 23.81                           | 23.64                       | 23.58                            | 23.34                     | 25.2                   |
| 20              | QPSK       | 1       | 49        | 23.73                    | 23.73                           | 23.47                       | 23.53                            | 23.32                     |                        |
| 20              | QPSK       | 1       | 99        | 23.67                    | 23.70                           | 23.62                       | 23.48                            | 23.29                     |                        |
| 20              | QPSK       | 50      | 0         | 23.73                    | 23.76                           | 23.69                       | 23.50                            | 23.28                     | 25.2                   |
| 20              | QPSK       | 50      | 24        | 23.70                    | 23.70                           | 23.63                       | 23.36                            | 23.25                     |                        |
| 20              | QPSK       | 50      | 50        | 23.53                    | 23.53                           | 23.59                       | 23.38                            | 23.25                     |                        |
| 20              | QPSK       | 100     | 0         | 23.54                    | 23.65                           | 23.60                       | 23.40                            | 23.38                     |                        |
| 20              | 16QAM      | 1       | 0         | 23.63                    | 23.28                           | 23.42                       | 23.53                            | 23.39                     | 25.2                   |
| 20              | 16QAM      | 1       | 49        | 23.24                    | 23.34                           | 23.44                       | 23.34                            | 23.21                     |                        |
| 20              | 16QAM      | 1       | 99        | 23.35                    | 23.33                           | 23.58                       | 23.37                            | 23.24                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.14                    | 23.18                           | 23.32                       | 23.11                            | 23.14                     | 25                     |
| 20              | 16QAM      | 50      | 24        | 23.21                    | 23.06                           | 23.18                       | 23.19                            | 23.15                     |                        |
| 20              | 16QAM      | 50      | 50        | 23.23                    | 23.24                           | 23.33                       | 23.17                            | 23.16                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.22                    | 23.19                           | 23.63                       | 23.19                            | 23.19                     |                        |
| 20              | 64QAM      | 1       | 0         | 23.22                    | 23.30                           | 23.09                       | 23.11                            | 23.11                     | 25                     |
| 20              | 64QAM      | 1       | 49        | 23.39                    | 23.50                           | 23.10                       | 23.13                            | 23.16                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.19                    | 23.29                           | 23.10                       | 23.08                            | 23.14                     |                        |
| 20              | 64QAM      | 50      | 0         | 23.29                    | 23.20                           | 23.05                       | 23.00                            | 22.89                     | 24                     |
| 20              | 64QAM      | 50      | 24        | 23.23                    | 23.30                           | 23.03                       | 23.05                            | 22.79                     |                        |
| 20              | 64QAM      | 50      | 50        | 23.14                    | 23.27                           | 22.97                       | 23.13                            | 22.87                     |                        |
| 20              | 64QAM      | 100     | 0         | 23.30                    | 23.24                           | 23.12                       | 23.14                            | 22.80                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.59                    | 21.63                           | 21.43                       | 21.33                            | 21.15                     | 22                     |
| 20              | 256QAM     | 1       | 49        | 21.76                    | 21.81                           | 21.54                       | 21.59                            | 21.36                     |                        |
| 20              | 256QAM     | 1       | 99        | 21.61                    | 21.64                           | 21.48                       | 21.41                            | 21.35                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.57                    | 21.56                           | 21.14                       | 21.32                            | 21.19                     | 22                     |
| 20              | 256QAM     | 50      | 24        | 21.55                    | 21.40                           | 21.39                       | 21.30                            | 21.14                     |                        |
| 20              | 256QAM     | 50      | 50        | 21.41                    | 21.60                           | 21.22                       | 21.22                            | 21.16                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.44                    | 21.42                           | 21.37                       | 21.29                            | 21.21                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 23.57                    | 23.70                           | 23.62                       | 23.48                            | 23.27                     | 25.20                  |
| 15              | QPSK       | 1       | 37        | 23.53                    | 23.70                           | 23.38                       | 23.38                            | 23.25                     |                        |
| 15              | QPSK       | 1       | 74        | 23.53                    | 23.59                           | 23.59                       | 23.44                            | 23.23                     |                        |
| 15              | QPSK       | 36      | 0         | 23.52                    | 23.49                           | 23.69                       | 23.29                            | 23.47                     | 25.2                   |
| 15              | QPSK       | 36      | 20        | 23.44                    | 23.61                           | 23.51                       | 23.26                            | 23.49                     |                        |
| 15              | QPSK       | 36      | 39        | 23.41                    | 23.58                           | 23.43                       | 23.33                            | 23.44                     |                        |
| 15              | QPSK       | 75      | 0         | 23.35                    | 23.60                           | 23.52                       | 23.30                            | 23.30                     |                        |
| 15              | 16QAM      | 1       | 0         | 23.46                    | 23.34                           | 23.24                       | 23.52                            | 23.42                     | 25.2                   |
| 15              | 16QAM      | 1       | 37        | 23.35                    | 23.37                           | 23.23                       | 23.30                            | 23.39                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.33                    | 23.39                           | 23.38                       | 23.38                            | 23.25                     |                        |
| 15              | 16QAM      | 36      | 0         | 23.10                    | 23.10                           | 23.01                       | 23.10                            | 23.18                     | 25                     |
| 15              | 16QAM      | 36      | 20        | 23.13                    | 23.15                           | 23.01                       | 23.19                            | 23.19                     |                        |
| 15              | 16QAM      | 36      | 39        | 23.18                    | 23.16                           | 23.28                       | 23.13                            | 23.05                     |                        |
| 15              | 16QAM      | 75      | 0         | 23.18                    | 23.19                           | 23.37                       | 23.00                            | 23.02                     |                        |
| 15              | 64QAM      | 1       | 0         | 23.13                    | 23.24                           | 23.13                       | 23.17                            | 23.18                     | 25                     |
| 15              | 64QAM      | 1       | 37        | 23.11                    | 23.50                           | 23.19                       | 23.04                            | 23.08                     |                        |
| 15              | 64QAM      | 1       | 74        | 23.15                    | 23.05                           | 23.20                       | 23.13                            | 23.02                     |                        |
| 15              | 64QAM      | 36      | 0         | 23.09                    | 23.28                           | 22.75                       | 23.09                            | 22.89                     | 24                     |
| 15              | 64QAM      | 36      | 20        | 22.96                    | 23.28                           | 22.92                       | 23.08                            | 22.71                     |                        |
| 15              | 64QAM      | 36      | 39        | 23.14                    | 23.12                           | 22.98                       | 22.95                            | 22.68                     |                        |
| 15              | 64QAM      | 75      | 0         | 23.26                    | 23.07                           | 22.82                       | 23.13                            | 22.74                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.51                    | 21.57                           | 21.42                       | 21.31                            | 21.03                     | 22                     |
| 15              | 256QAM     | 1       | 37        | 21.49                    | 21.61                           | 21.31                       | 21.28                            | 21.22                     |                        |
| 15              | 256QAM     | 1       | 74        | 21.27                    | 21.58                           | 21.29                       | 21.46                            | 21.12                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.26                    | 21.42                           | 21.06                       | 21.23                            | 20.90                     | 22                     |
| 15              | 256QAM     | 36      | 20        | 21.46                    | 21.35                           | 21.20                       | 21.27                            | 21.00                     |                        |
| 15              | 256QAM     | 36      | 39        | 21.41                    | 21.36                           | 21.11                       | 21.29                            | 21.09                     |                        |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 21.43  | 21.41  | 21.15 | 21.17   | 20.88  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 23.71  | 23.66  | 23.47 | 23.52   | 23.31  | 25.20         |
| 10              | QPSK   | 1  | 25 | 23.63  | 23.59  | 23.44 | 23.33   | 23.20  |               |
| 10              | QPSK   | 1  | 49 | 23.66  | 23.53  | 23.50 | 23.40   | 23.34  |               |
| 10              | QPSK   | 25 | 0  | 23.64  | 23.41  | 23.69 | 23.42   | 23.26  | 25.2          |
| 10              | QPSK   | 25 | 12 | 23.44  | 23.60  | 23.43 | 23.46   | 23.28  |               |
| 10              | QPSK   | 25 | 25 | 23.48  | 23.52  | 23.49 | 23.39   | 23.21  |               |
| 10              | QPSK   | 50 | 0  | 23.39  | 23.49  | 23.67 | 23.30   | 23.27  |               |
| 10              | 16QAM  | 1  | 0  | 23.61  | 23.20  | 23.28 | 23.24   | 23.36  | 25.2          |
| 10              | 16QAM  | 1  | 25 | 23.20  | 23.36  | 23.33 | 23.33   | 23.27  |               |
| 10              | 16QAM  | 1  | 49 | 23.28  | 23.34  | 23.31 | 23.25   | 23.30  |               |
| 10              | 16QAM  | 25 | 0  | 23.15  | 23.15  | 23.12 | 23.20   | 23.19  | 25            |
| 10              | 16QAM  | 25 | 12 | 23.11  | 23.09  | 23.02 | 23.19   | 23.16  |               |
| 10              | 16QAM  | 25 | 25 | 23.07  | 23.08  | 23.33 | 23.15   | 23.15  |               |
| 10              | 16QAM  | 50 | 0  | 23.09  | 23.25  | 23.45 | 23.06   | 23.15  |               |
| 10              | 64QAM  | 1  | 0  | 23.04  | 23.21  | 23.19 | 23.13   | 23.11  | 25            |
| 10              | 64QAM  | 1  | 25 | 23.30  | 23.51  | 23.16 | 23.04   | 23.03  |               |
| 10              | 64QAM  | 1  | 49 | 23.06  | 23.12  | 23.13 | 23.15   | 23.04  |               |
| 10              | 64QAM  | 25 | 0  | 23.02  | 23.01  | 23.02 | 23.00   | 22.71  | 24            |
| 10              | 64QAM  | 25 | 12 | 23.07  | 23.06  | 22.81 | 22.95   | 22.72  |               |
| 10              | 64QAM  | 25 | 25 | 23.21  | 23.03  | 22.87 | 22.98   | 22.89  |               |
| 10              | 64QAM  | 50 | 0  | 23.17  | 23.08  | 23.06 | 22.95   | 22.78  |               |
| 10              | 256QAM | 1  | 0  | 21.31  | 21.55  | 21.35 | 21.20   | 20.95  | 22            |
| 10              | 256QAM | 1  | 25 | 21.53  | 21.58  | 21.20 | 21.46   | 21.32  |               |
| 10              | 256QAM | 1  | 49 | 21.50  | 21.73  | 21.32 | 21.28   | 21.13  |               |
| 10              | 256QAM | 25 | 0  | 21.35  | 21.42  | 21.19 | 21.27   | 21.00  | 22            |
| 10              | 256QAM | 25 | 12 | 21.27  | 21.44  | 21.24 | 21.15   | 20.90  |               |
| 10              | 256QAM | 25 | 25 | 21.40  | 21.38  | 21.15 | 21.33   | 21.10  |               |
| 10              | 256QAM | 50 | 0  | 21.26  | 21.45  | 21.19 | 21.29   | 21.07  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 23.59  | 23.65  | 23.54 | 23.51   | 23.48  | 25.20         |
| 5               | QPSK   | 1  | 12 | 23.73  | 23.60  | 23.30 | 23.48   | 23.32  |               |
| 5               | QPSK   | 1  | 24 | 23.59  | 23.69  | 23.48 | 23.45   | 23.36  |               |
| 5               | QPSK   | 12 | 0  | 23.46  | 23.55  | 23.53 | 23.24   | 23.45  | 25.2          |
| 5               | QPSK   | 12 | 7  | 23.59  | 23.49  | 23.51 | 23.30   | 23.33  |               |
| 5               | QPSK   | 12 | 13 | 23.54  | 23.37  | 23.47 | 23.30   | 23.33  |               |
| 5               | QPSK   | 25 | 0  | 23.61  | 23.61  | 23.55 | 23.37   | 23.29  |               |
| 5               | 16QAM  | 1  | 0  | 23.56  | 23.26  | 23.47 | 23.42   | 23.38  | 25.2          |
| 5               | 16QAM  | 1  | 12 | 23.37  | 23.35  | 23.29 | 23.34   | 23.27  |               |
| 5               | 16QAM  | 1  | 24 | 23.29  | 23.34  | 23.43 | 23.36   | 23.32  |               |
| 5               | 16QAM  | 12 | 0  | 23.04  | 23.18  | 23.14 | 23.18   | 23.01  | 25            |
| 5               | 16QAM  | 12 | 7  | 23.25  | 23.08  | 23.16 | 23.19   | 23.24  |               |
| 5               | 16QAM  | 12 | 13 | 23.04  | 23.20  | 23.45 | 23.18   | 23.18  |               |
| 5               | 16QAM  | 25 | 0  | 23.07  | 23.17  | 23.42 | 23.12   | 23.18  |               |
| 5               | 64QAM  | 1  | 0  | 23.20  | 23.34  | 23.00 | 23.08   | 23.06  | 25            |
| 5               | 64QAM  | 1  | 12 | 23.19  | 23.33  | 23.04 | 23.08   | 23.16  |               |
| 5               | 64QAM  | 1  | 24 | 23.25  | 23.25  | 23.16 | 23.19   | 23.00  |               |
| 5               | 64QAM  | 12 | 0  | 23.16  | 23.33  | 23.02 | 23.02   | 22.85  | 24            |
| 5               | 64QAM  | 12 | 7  | 23.20  | 23.18  | 22.92 | 22.91   | 22.74  |               |
| 5               | 64QAM  | 12 | 13 | 23.19  | 23.24  | 22.79 | 22.83   | 22.93  |               |
| 5               | 64QAM  | 25 | 0  | 23.26  | 23.24  | 23.01 | 23.11   | 22.84  |               |
| 5               | 256QAM | 1  | 0  | 21.45  | 21.46  | 21.46 | 21.48   | 21.15  | 22            |
| 5               | 256QAM | 1  | 12 | 21.60  | 21.74  | 21.38 | 21.48   | 21.07  |               |
| 5               | 256QAM | 1  | 24 | 21.42  | 21.72  | 21.30 | 21.30   | 21.08  |               |
| 5               | 256QAM | 12 | 0  | 21.33  | 21.35  | 21.10 | 21.34   | 21.07  | 22            |
| 5               | 256QAM | 12 | 7  | 21.43  | 21.34  | 21.23 | 21.23   | 20.99  |               |
| 5               | 256QAM | 12 | 13 | 21.38  | 21.58  | 21.17 | 21.22   | 21.01  |               |
| 5               | 256QAM | 25 | 0  | 21.28  | 21.25  | 21.08 | 21.20   | 21.08  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 24.30                 | 24.31                        | 24.29                    | 24.24                         | 24.20                  | 25.4                |
| 20              | QPSK       | 1       | 49        | 24.26                 | 24.24                        | 24.21                    | 24.17                         | 24.15                  |                     |
| 20              | QPSK       | 1       | 99        | 24.25                 | 24.25                        | 24.23                    | 24.13                         | 24.10                  |                     |
| 20              | QPSK       | 50      | 0         | 24.20                 | 24.21                        | 24.12                    | 24.07                         | 24.04                  | 25.4                |
| 20              | QPSK       | 50      | 24        | 24.18                 | 24.16                        | 24.11                    | 24.05                         | 24.02                  |                     |
| 20              | QPSK       | 50      | 50        | 24.18                 | 24.15                        | 24.10                    | 24.05                         | 24.00                  |                     |
| 20              | QPSK       | 100     | 0         | 24.20                 | 24.20                        | 24.08                    | 24.08                         | 23.99                  | 25.4                |
| 20              | 16QAM      | 1       | 0         | 24.03                 | 24.23                        | 24.20                    | 24.19                         | 24.00                  |                     |
| 20              | 16QAM      | 1       | 49        | 23.82                 | 23.82                        | 23.86                    | 23.82                         | 23.87                  |                     |
| 20              | 16QAM      | 1       | 99        | 24.03                 | 24.09                        | 24.04                    | 23.95                         | 23.92                  | 25                  |
| 20              | 16QAM      | 50      | 0         | 23.74                 | 23.72                        | 23.66                    | 23.60                         | 23.54                  |                     |
| 20              | 16QAM      | 50      | 24        | 23.71                 | 23.68                        | 23.63                    | 23.59                         | 23.56                  |                     |
| 20              | 16QAM      | 50      | 50        | 23.72                 | 23.68                        | 23.66                    | 23.55                         | 23.54                  | 25                  |
| 20              | 16QAM      | 100     | 0         | 23.75                 | 23.70                        | 23.64                    | 23.57                         | 23.56                  |                     |
| 20              | 64QAM      | 1       | 0         | 23.83                 | 23.80                        | 23.78                    | 23.77                         | 23.73                  |                     |
| 20              | 64QAM      | 1       | 49        | 23.82                 | 23.80                        | 23.77                    | 23.74                         | 23.84                  | 24                  |
| 20              | 64QAM      | 1       | 99        | 23.81                 | 23.83                        | 23.76                    | 23.69                         | 23.70                  |                     |
| 20              | 64QAM      | 50      | 0         | 23.21                 | 23.16                        | 23.12                    | 23.08                         | 23.05                  |                     |
| 20              | 64QAM      | 50      | 24        | 23.21                 | 23.17                        | 23.11                    | 23.07                         | 23.04                  | 22                  |
| 20              | 64QAM      | 50      | 50        | 23.19                 | 23.16                        | 23.12                    | 23.04                         | 23.06                  |                     |
| 20              | 64QAM      | 100     | 0         | 23.14                 | 23.09                        | 23.07                    | 23.03                         | 22.99                  |                     |
| 20              | 256QAM     | 1       | 0         | 21.45                 | 21.12                        | 21.18                    | 21.22                         | 21.31                  | 22                  |
| 20              | 256QAM     | 1       | 49        | 21.42                 | 21.21                        | 21.17                    | 21.16                         | 21.00                  |                     |
| 20              | 256QAM     | 1       | 99        | 21.51                 | 21.29                        | 21.40                    | 21.28                         | 21.14                  |                     |
| 20              | 256QAM     | 50      | 0         | 21.40                 | 21.50                        | 21.45                    | 21.23                         | 21.37                  | 22                  |
| 20              | 256QAM     | 50      | 24        | 21.40                 | 21.38                        | 21.42                    | 21.48                         | 21.38                  |                     |
| 20              | 256QAM     | 50      | 50        | 21.44                 | 21.41                        | 21.53                    | 21.51                         | 21.33                  |                     |
| 20              | 256QAM     | 100     | 0         | 21.57                 | 21.31                        | 21.39                    | 21.45                         | 21.35                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 24.30                 | 24.28                        | 24.09                    | 24.19                         | 24.01                  | 25.40               |
| 15              | QPSK       | 1       | 37        | 24.24                 | 24.10                        | 24.13                    | 24.14                         | 24.12                  |                     |
| 15              | QPSK       | 1       | 74        | 24.05                 | 24.13                        | 24.06                    | 24.01                         | 23.95                  |                     |
| 15              | QPSK       | 36      | 0         | 24.19                 | 24.04                        | 23.93                    | 23.97                         | 23.85                  | 25.4                |
| 15              | QPSK       | 36      | 20        | 24.18                 | 24.08                        | 24.07                    | 23.89                         | 23.97                  |                     |
| 15              | QPSK       | 36      | 39        | 24.08                 | 23.96                        | 23.93                    | 24.01                         | 23.94                  |                     |
| 15              | QPSK       | 75      | 0         | 24.20                 | 24.10                        | 23.98                    | 23.95                         | 23.93                  | 25.4                |
| 15              | 16QAM      | 1       | 0         | 23.99                 | 24.20                        | 24.06                    | 24.01                         | 23.85                  |                     |
| 15              | 16QAM      | 1       | 37        | 23.63                 | 23.77                        | 23.69                    | 23.72                         | 23.68                  |                     |
| 15              | 16QAM      | 1       | 74        | 23.86                 | 23.99                        | 24.02                    | 23.80                         | 23.72                  | 25                  |
| 15              | 16QAM      | 36      | 0         | 23.62                 | 23.69                        | 23.53                    | 23.46                         | 23.41                  |                     |
| 15              | 16QAM      | 36      | 20        | 23.52                 | 23.64                        | 23.52                    | 23.40                         | 23.47                  |                     |
| 15              | 16QAM      | 36      | 39        | 23.55                 | 23.67                        | 23.53                    | 23.43                         | 23.47                  | 25                  |
| 15              | 16QAM      | 75      | 0         | 23.61                 | 23.53                        | 23.54                    | 23.43                         | 23.41                  |                     |
| 15              | 64QAM      | 1       | 0         | 23.78                 | 23.66                        | 23.65                    | 23.77                         | 23.67                  |                     |
| 15              | 64QAM      | 1       | 37        | 23.82                 | 23.79                        | 23.69                    | 23.69                         | 23.71                  | 24                  |
| 15              | 64QAM      | 1       | 74        | 23.69                 | 23.79                        | 23.71                    | 23.65                         | 23.63                  |                     |
| 15              | 64QAM      | 36      | 0         | 23.08                 | 23.01                        | 22.99                    | 23.01                         | 22.98                  |                     |
| 15              | 64QAM      | 36      | 20        | 23.02                 | 23.17                        | 23.10                    | 22.96                         | 22.96                  | 22                  |
| 15              | 64QAM      | 36      | 39        | 23.06                 | 23.01                        | 23.06                    | 22.99                         | 23.05                  |                     |
| 15              | 64QAM      | 75      | 0         | 23.14                 | 22.99                        | 23.01                    | 22.85                         | 22.82                  |                     |
| 15              | 256QAM     | 1       | 0         | 21.33                 | 21.02                        | 21.01                    | 21.17                         | 21.19                  | 22                  |
| 15              | 256QAM     | 1       | 37        | 21.23                 | 21.17                        | 21.04                    | 21.12                         | 20.93                  |                     |
| 15              | 256QAM     | 1       | 74        | 21.49                 | 21.18                        | 21.36                    | 21.25                         | 21.14                  |                     |
| 15              | 256QAM     | 36      | 0         | 21.22                 | 21.49                        | 21.41                    | 21.11                         | 21.29                  | 22                  |
| 15              | 256QAM     | 36      | 20        | 21.24                 | 21.25                        | 21.23                    | 21.38                         | 21.18                  |                     |
| 15              | 256QAM     | 36      | 39        | 21.27                 | 21.29                        | 21.35                    | 21.32                         | 21.16                  |                     |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 21.46  | 21.15  | 21.26 | 21.40   | 21.15  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 24.26  | 24.28  | 24.28 | 24.06   | 24.20  | 25.40         |
| 10              | QPSK   | 1  | 25 | 24.24  | 24.04  | 24.20 | 24.10   | 23.95  |               |
| 10              | QPSK   | 1  | 49 | 24.20  | 24.25  | 24.10 | 24.01   | 24.02  |               |
| 10              | QPSK   | 25 | 0  | 24.20  | 24.02  | 24.02 | 23.97   | 23.94  | 25.4          |
| 10              | QPSK   | 25 | 12 | 24.18  | 24.10  | 24.06 | 23.90   | 23.89  |               |
| 10              | QPSK   | 25 | 25 | 24.08  | 24.03  | 23.93 | 23.95   | 23.91  |               |
| 10              | QPSK   | 50 | 0  | 24.09  | 24.09  | 23.91 | 24.08   | 23.95  |               |
| 10              | 16QAM  | 1  | 0  | 23.89  | 24.21  | 24.05 | 24.03   | 23.81  | 25.4          |
| 10              | 16QAM  | 1  | 25 | 23.79  | 23.82  | 23.66 | 23.70   | 23.82  |               |
| 10              | 16QAM  | 1  | 49 | 23.88  | 24.05  | 23.84 | 23.85   | 23.73  |               |
| 10              | 16QAM  | 25 | 0  | 23.68  | 23.64  | 23.55 | 23.60   | 23.54  | 25            |
| 10              | 16QAM  | 25 | 12 | 23.57  | 23.64  | 23.44 | 23.40   | 23.56  |               |
| 10              | 16QAM  | 25 | 25 | 23.55  | 23.48  | 23.61 | 23.50   | 23.34  |               |
| 10              | 16QAM  | 50 | 0  | 23.62  | 23.70  | 23.63 | 23.39   | 23.37  |               |
| 10              | 64QAM  | 1  | 0  | 23.75  | 23.60  | 23.60 | 23.57   | 23.61  | 25            |
| 10              | 64QAM  | 1  | 25 | 23.70  | 23.64  | 23.75 | 23.54   | 23.83  |               |
| 10              | 64QAM  | 1  | 49 | 23.68  | 23.72  | 23.66 | 23.64   | 23.65  |               |
| 10              | 64QAM  | 25 | 0  | 23.02  | 22.96  | 23.08 | 22.95   | 22.90  | 24            |
| 10              | 64QAM  | 25 | 12 | 23.14  | 22.98  | 22.98 | 23.03   | 22.88  |               |
| 10              | 64QAM  | 25 | 25 | 23.15  | 23.10  | 22.94 | 22.92   | 23.00  |               |
| 10              | 64QAM  | 50 | 0  | 22.95  | 23.08  | 23.05 | 23.03   | 22.82  |               |
| 10              | 256QAM | 1  | 0  | 21.30  | 20.99  | 21.07 | 21.04   | 21.17  | 22            |
| 10              | 256QAM | 1  | 25 | 21.41  | 21.08  | 21.11 | 21.12   | 20.88  |               |
| 10              | 256QAM | 1  | 49 | 21.32  | 21.24  | 21.40 | 21.20   | 21.03  |               |
| 10              | 256QAM | 25 | 0  | 21.35  | 21.35  | 21.43 | 21.19   | 21.23  | 22            |
| 10              | 256QAM | 25 | 12 | 21.30  | 21.35  | 21.28 | 21.43   | 21.37  |               |
| 10              | 256QAM | 25 | 25 | 21.29  | 21.27  | 21.49 | 21.43   | 21.29  |               |
| 10              | 256QAM | 50 | 0  | 21.40  | 21.14  | 21.20 | 21.42   | 21.26  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 24.19  | 24.18  | 24.16 | 24.07   | 24.06  | 25.40         |
| 5               | QPSK   | 1  | 12 | 24.12  | 24.07  | 24.11 | 24.11   | 23.97  |               |
| 5               | QPSK   | 1  | 24 | 24.18  | 24.06  | 24.18 | 23.98   | 23.92  |               |
| 5               | QPSK   | 12 | 0  | 24.13  | 24.05  | 24.06 | 23.92   | 23.95  | 25.4          |
| 5               | QPSK   | 12 | 7  | 24.08  | 24.10  | 23.92 | 23.86   | 23.92  |               |
| 5               | QPSK   | 12 | 13 | 24.14  | 23.96  | 23.99 | 24.03   | 23.94  |               |
| 5               | QPSK   | 25 | 0  | 24.08  | 24.04  | 23.91 | 23.95   | 23.95  |               |
| 5               | 16QAM  | 1  | 0  | 23.95  | 24.15  | 24.17 | 23.99   | 23.81  | 25.4          |
| 5               | 16QAM  | 1  | 12 | 23.63  | 23.65  | 23.76 | 23.62   | 23.87  |               |
| 5               | 16QAM  | 1  | 24 | 23.99  | 23.95  | 23.99 | 23.90   | 23.73  |               |
| 5               | 16QAM  | 12 | 0  | 23.63  | 23.72  | 23.47 | 23.42   | 23.46  | 25            |
| 5               | 16QAM  | 12 | 7  | 23.69  | 23.56  | 23.58 | 23.49   | 23.44  |               |
| 5               | 16QAM  | 12 | 13 | 23.52  | 23.49  | 23.61 | 23.40   | 23.48  |               |
| 5               | 16QAM  | 25 | 0  | 23.71  | 23.68  | 23.64 | 23.46   | 23.42  |               |
| 5               | 64QAM  | 1  | 0  | 23.70  | 23.78  | 23.61 | 23.70   | 23.73  | 25            |
| 5               | 64QAM  | 1  | 12 | 23.75  | 23.62  | 23.71 | 23.67   | 23.80  |               |
| 5               | 64QAM  | 1  | 24 | 23.72  | 23.65  | 23.56 | 23.63   | 23.66  |               |
| 5               | 64QAM  | 12 | 0  | 23.17  | 22.98  | 22.95 | 22.99   | 22.98  | 24            |
| 5               | 64QAM  | 12 | 7  | 23.13  | 23.10  | 23.08 | 23.05   | 22.97  |               |
| 5               | 64QAM  | 12 | 13 | 23.09  | 23.01  | 23.10 | 22.96   | 22.97  |               |
| 5               | 64QAM  | 25 | 0  | 22.94  | 23.01  | 23.05 | 23.03   | 22.97  |               |
| 5               | 256QAM | 1  | 0  | 21.41  | 20.97  | 21.13 | 21.10   | 21.29  | 22            |
| 5               | 256QAM | 1  | 12 | 21.35  | 21.01  | 20.99 | 21.01   | 20.91  |               |
| 5               | 256QAM | 1  | 24 | 21.38  | 21.15  | 21.39 | 21.12   | 21.08  |               |
| 5               | 256QAM | 12 | 0  | 21.22  | 21.34  | 21.25 | 21.20   | 21.36  | 22            |
| 5               | 256QAM | 12 | 7  | 21.39  | 21.27  | 21.24 | 21.44   | 21.27  |               |
| 5               | 256QAM | 12 | 13 | 21.25  | 21.26  | 21.53 | 21.46   | 21.16  |               |
| 5               | 256QAM | 25 | 0  | 21.38  | 21.22  | 21.28 | 21.29   | 21.19  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 24.27                 | 24.16                        | 24.48                    | 24.28                         | 24.26                  | 25.9                |
| 20              | QPSK       | 1       | 49        | 24.20                 | 24.13                        | 24.38                    | 24.21                         | 24.21                  |                     |
| 20              | QPSK       | 1       | 99        | 24.26                 | 24.09                        | 24.20                    | 24.25                         | 24.25                  |                     |
| 20              | QPSK       | 50      | 0         | 24.28                 | 24.19                        | 24.35                    | 24.18                         | 24.16                  | 25.9                |
| 20              | QPSK       | 50      | 24        | 24.23                 | 24.14                        | 24.33                    | 24.14                         | 24.14                  |                     |
| 20              | QPSK       | 50      | 50        | 24.24                 | 24.11                        | 24.14                    | 24.14                         | 24.06                  |                     |
| 20              | QPSK       | 100     | 0         | 24.14                 | 24.19                        | 24.29                    | 24.17                         | 24.02                  |                     |
| 20              | 16QAM      | 1       | 0         | 24.28                 | 23.99                        | 24.15                    | 24.14                         | 23.96                  | 25.9                |
| 20              | 16QAM      | 1       | 49        | 24.08                 | 24.01                        | 24.29                    | 23.92                         | 24.17                  |                     |
| 20              | 16QAM      | 1       | 99        | 24.11                 | 24.05                        | 24.22                    | 23.92                         | 24.06                  |                     |
| 20              | 16QAM      | 50      | 0         | 23.62                 | 23.77                        | 23.95                    | 23.55                         | 23.55                  | 25                  |
| 20              | 16QAM      | 50      | 24        | 23.88                 | 23.41                        | 23.73                    | 23.50                         | 23.75                  |                     |
| 20              | 16QAM      | 50      | 50        | 23.51                 | 23.80                        | 23.77                    | 23.59                         | 23.55                  |                     |
| 20              | 16QAM      | 100     | 0         | 23.74                 | 23.74                        | 23.53                    | 23.53                         | 23.77                  |                     |
| 20              | 64QAM      | 1       | 0         | 23.69                 | 23.63                        | 23.68                    | 23.88                         | 23.79                  | 25                  |
| 20              | 64QAM      | 1       | 49        | 23.82                 | 23.62                        | 23.68                    | 23.78                         | 23.80                  |                     |
| 20              | 64QAM      | 1       | 99        | 23.73                 | 23.61                        | 23.77                    | 23.72                         | 23.46                  |                     |
| 20              | 64QAM      | 50      | 0         | 22.80                 | 22.59                        | 22.93                    | 22.49                         | 22.45                  | 24                  |
| 20              | 64QAM      | 50      | 24        | 22.61                 | 22.71                        | 22.62                    | 22.59                         | 22.46                  |                     |
| 20              | 64QAM      | 50      | 50        | 22.76                 | 22.54                        | 22.76                    | 22.65                         | 22.43                  |                     |
| 20              | 64QAM      | 100     | 0         | 22.91                 | 22.66                        | 22.93                    | 22.34                         | 22.28                  |                     |
| 20              | 256QAM     | 1       | 0         | 20.76                 | 20.88                        | 21.00                    | 20.78                         | 20.89                  | 22                  |
| 20              | 256QAM     | 1       | 49        | 20.74                 | 20.83                        | 20.79                    | 20.79                         | 20.91                  |                     |
| 20              | 256QAM     | 1       | 99        | 20.77                 | 21.00                        | 20.96                    | 20.97                         | 20.70                  |                     |
| 20              | 256QAM     | 50      | 0         | 20.93                 | 20.78                        | 21.17                    | 20.66                         | 20.83                  | 22                  |
| 20              | 256QAM     | 50      | 24        | 21.22                 | 20.81                        | 21.12                    | 20.96                         | 20.73                  |                     |
| 20              | 256QAM     | 50      | 50        | 20.83                 | 20.87                        | 21.12                    | 20.95                         | 20.79                  |                     |
| 20              | 256QAM     | 100     | 0         | 20.92                 | 21.04                        | 21.00                    | 20.79                         | 20.49                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 24.35                 | 24.11                        | 24.31                    | 24.16                         | 24.34                  | 25.90               |
| 15              | QPSK       | 1       | 37        | 24.20                 | 23.93                        | 24.17                    | 24.28                         | 24.11                  |                     |
| 15              | QPSK       | 1       | 74        | 24.25                 | 24.07                        | 24.11                    | 24.19                         | 24.11                  |                     |
| 15              | QPSK       | 36      | 0         | 24.13                 | 23.94                        | 24.38                    | 24.05                         | 24.09                  | 25.9                |
| 15              | QPSK       | 36      | 20        | 24.24                 | 24.18                        | 24.36                    | 24.10                         | 23.95                  |                     |
| 15              | QPSK       | 36      | 39        | 24.14                 | 24.01                        | 24.14                    | 24.06                         | 24.09                  |                     |
| 15              | QPSK       | 75      | 0         | 24.16                 | 24.00                        | 24.23                    | 24.04                         | 23.95                  |                     |
| 15              | 16QAM      | 1       | 0         | 24.22                 | 23.95                        | 24.11                    | 24.21                         | 23.92                  | 25.9                |
| 15              | 16QAM      | 1       | 37        | 24.11                 | 23.98                        | 24.07                    | 24.19                         | 24.28                  |                     |
| 15              | 16QAM      | 1       | 74        | 23.97                 | 24.14                        | 24.09                    | 24.08                         | 24.02                  |                     |
| 15              | 16QAM      | 36      | 0         | 23.99                 | 23.55                        | 23.89                    | 23.61                         | 23.58                  | 25                  |
| 15              | 16QAM      | 36      | 20        | 23.81                 | 23.39                        | 23.71                    | 23.80                         | 23.72                  |                     |
| 15              | 16QAM      | 36      | 39        | 23.90                 | 23.47                        | 23.65                    | 23.77                         | 23.58                  |                     |
| 15              | 16QAM      | 75      | 0         | 23.70                 | 23.58                        | 23.59                    | 23.57                         | 23.57                  |                     |
| 15              | 64QAM      | 1       | 0         | 23.72                 | 23.42                        | 23.71                    | 23.51                         | 23.47                  | 25                  |
| 15              | 64QAM      | 1       | 37        | 23.56                 | 23.58                        | 23.59                    | 23.70                         | 23.60                  |                     |
| 15              | 64QAM      | 1       | 74        | 23.70                 | 23.52                        | 23.60                    | 23.52                         | 23.64                  |                     |
| 15              | 64QAM      | 36      | 0         | 22.77                 | 22.67                        | 22.81                    | 22.42                         | 22.36                  | 24                  |
| 15              | 64QAM      | 36      | 20        | 22.90                 | 22.44                        | 22.66                    | 22.46                         | 22.51                  |                     |
| 15              | 64QAM      | 36      | 39        | 22.73                 | 22.71                        | 22.81                    | 22.46                         | 22.53                  |                     |
| 15              | 64QAM      | 75      | 0         | 22.77                 | 22.62                        | 22.67                    | 22.44                         | 22.31                  |                     |
| 15              | 256QAM     | 1       | 0         | 20.93                 | 20.86                        | 20.81                    | 20.58                         | 20.78                  | 22                  |
| 15              | 256QAM     | 1       | 37        | 20.88                 | 20.67                        | 20.73                    | 20.64                         | 20.98                  |                     |
| 15              | 256QAM     | 1       | 74        | 20.69                 | 20.87                        | 20.98                    | 20.73                         | 20.77                  |                     |
| 15              | 256QAM     | 36      | 0         | 21.20                 | 20.82                        | 20.91                    | 20.77                         | 20.79                  | 22                  |
| 15              | 256QAM     | 36      | 20        | 21.05                 | 20.81                        | 20.99                    | 20.55                         | 20.75                  |                     |
| 15              | 256QAM     | 36      | 39        | 20.80                 | 20.76                        | 20.85                    | 20.98                         | 20.68                  |                     |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 21.10  | 20.50  | 20.94 | 20.63   | 20.77  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 24.12  | 24.07  | 24.25 | 24.18   | 24.17  | 25.90         |
| 10              | QPSK   | 1  | 25 | 24.07  | 24.04  | 24.14 | 24.19   | 24.07  |               |
| 10              | QPSK   | 1  | 49 | 24.15  | 24.09  | 24.11 | 24.21   | 24.13  |               |
| 10              | QPSK   | 25 | 0  | 24.20  | 24.14  | 24.22 | 24.11   | 24.14  | 25.9          |
| 10              | QPSK   | 25 | 12 | 24.25  | 24.07  | 24.36 | 24.08   | 24.04  |               |
| 10              | QPSK   | 25 | 25 | 24.08  | 23.94  | 24.16 | 23.99   | 23.99  |               |
| 10              | QPSK   | 50 | 0  | 24.13  | 23.97  | 24.11 | 23.93   | 24.02  |               |
| 10              | 16QAM  | 1  | 0  | 23.90  | 24.34  | 24.30 | 24.16   | 24.29  | 25.9          |
| 10              | 16QAM  | 1  | 25 | 24.00  | 24.10  | 24.21 | 24.13   | 24.16  |               |
| 10              | 16QAM  | 1  | 49 | 23.94  | 24.15  | 24.17 | 23.90   | 24.13  |               |
| 10              | 16QAM  | 25 | 0  | 23.82  | 23.61  | 23.90 | 23.64   | 23.54  | 25            |
| 10              | 16QAM  | 25 | 12 | 23.82  | 23.65  | 23.62 | 23.77   | 23.51  |               |
| 10              | 16QAM  | 25 | 25 | 23.70  | 23.64  | 23.72 | 23.38   | 23.61  |               |
| 10              | 16QAM  | 50 | 0  | 23.49  | 23.66  | 23.74 | 23.34   | 23.49  |               |
| 10              | 64QAM  | 1  | 0  | 23.61  | 23.48  | 23.80 | 23.44   | 23.42  | 25            |
| 10              | 64QAM  | 1  | 25 | 23.46  | 23.57  | 23.79 | 23.70   | 23.87  |               |
| 10              | 64QAM  | 1  | 49 | 23.51  | 23.61  | 23.68 | 23.67   | 23.74  |               |
| 10              | 64QAM  | 25 | 0  | 22.81  | 22.47  | 23.04 | 22.27   | 22.42  | 24            |
| 10              | 64QAM  | 25 | 12 | 22.79  | 22.61  | 22.43 | 22.29   | 22.28  |               |
| 10              | 64QAM  | 25 | 25 | 22.58  | 22.31  | 22.92 | 22.60   | 22.46  |               |
| 10              | 64QAM  | 50 | 0  | 22.76  | 22.59  | 22.53 | 22.35   | 22.58  |               |
| 10              | 256QAM | 1  | 0  | 20.79  | 20.82  | 21.13 | 20.84   | 20.79  | 22            |
| 10              | 256QAM | 1  | 25 | 20.61  | 20.83  | 20.80 | 20.68   | 20.76  |               |
| 10              | 256QAM | 1  | 49 | 20.98  | 20.93  | 21.01 | 20.86   | 20.62  |               |
| 10              | 256QAM | 25 | 0  | 21.26  | 21.07  | 21.26 | 20.79   | 20.51  | 22            |
| 10              | 256QAM | 25 | 12 | 20.98  | 20.86  | 20.84 | 20.66   | 20.69  |               |
| 10              | 256QAM | 25 | 25 | 20.89  | 20.75  | 21.01 | 20.55   | 20.54  |               |
| 10              | 256QAM | 50 | 0  | 20.92  | 20.81  | 20.91 | 20.82   | 20.45  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 24.23  | 24.10  | 24.41 | 24.08   | 24.34  | 25.90         |
| 5               | QPSK   | 1  | 12 | 24.20  | 24.05  | 24.16 | 24.19   | 24.19  |               |
| 5               | QPSK   | 1  | 24 | 24.02  | 23.94  | 24.12 | 24.21   | 24.09  |               |
| 5               | QPSK   | 12 | 0  | 24.17  | 24.21  | 24.33 | 24.07   | 24.02  | 25.9          |
| 5               | QPSK   | 12 | 7  | 24.21  | 24.10  | 24.27 | 24.10   | 24.03  |               |
| 5               | QPSK   | 12 | 13 | 24.05  | 23.98  | 24.04 | 23.97   | 23.93  |               |
| 5               | QPSK   | 25 | 0  | 24.05  | 24.06  | 24.07 | 24.05   | 24.02  |               |
| 5               | 16QAM  | 1  | 0  | 24.24  | 24.11  | 24.26 | 24.20   | 24.11  | 25.9          |
| 5               | 16QAM  | 1  | 12 | 24.20  | 23.94  | 23.97 | 24.25   | 23.93  |               |
| 5               | 16QAM  | 1  | 24 | 24.30  | 24.06  | 24.05 | 24.00   | 23.97  |               |
| 5               | 16QAM  | 12 | 0  | 23.44  | 23.36  | 23.61 | 23.64   | 23.40  | 25            |
| 5               | 16QAM  | 12 | 7  | 23.57  | 23.71  | 23.38 | 23.60   | 23.38  |               |
| 5               | 16QAM  | 12 | 13 | 23.64  | 23.58  | 23.67 | 23.66   | 23.30  |               |
| 5               | 16QAM  | 25 | 0  | 23.87  | 23.72  | 23.42 | 23.47   | 23.65  |               |
| 5               | 64QAM  | 1  | 0  | 23.52  | 23.56  | 23.76 | 23.73   | 23.54  | 25            |
| 5               | 64QAM  | 1  | 12 | 23.60  | 23.37  | 23.63 | 23.34   | 23.38  |               |
| 5               | 64QAM  | 1  | 24 | 23.72  | 23.76  | 23.71 | 23.28   | 23.54  |               |
| 5               | 64QAM  | 12 | 0  | 22.74  | 22.37  | 22.72 | 22.30   | 22.37  | 24            |
| 5               | 64QAM  | 12 | 7  | 22.77  | 22.62  | 22.51 | 22.31   | 22.30  |               |
| 5               | 64QAM  | 12 | 13 | 22.38  | 22.38  | 22.72 | 22.52   | 22.05  |               |
| 5               | 64QAM  | 25 | 0  | 22.88  | 22.50  | 22.77 | 22.14   | 22.51  |               |
| 5               | 256QAM | 1  | 0  | 20.79  | 20.47  | 20.98 | 20.69   | 20.61  | 22            |
| 5               | 256QAM | 1  | 12 | 20.72  | 20.75  | 21.09 | 20.87   | 20.80  |               |
| 5               | 256QAM | 1  | 24 | 20.93  | 20.81  | 20.97 | 20.77   | 20.79  |               |
| 5               | 256QAM | 12 | 0  | 21.16  | 20.67  | 21.06 | 20.70   | 20.78  | 22            |
| 5               | 256QAM | 12 | 7  | 20.87  | 20.86  | 20.85 | 20.78   | 20.78  |               |
| 5               | 256QAM | 12 | 13 | 20.87  | 20.89  | 21.07 | 20.96   | 20.58  |               |
| 5               | 256QAM | 25 | 0  | 20.93  | 20.86  | 20.94 | 20.61   | 20.65  |               |



&lt;LTE Band 41\_HPUE\_Ant 2\_Index 11&gt;

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 21.56                    | 21.64                           | 21.67                       | 21.66                            | 21.48                     | 21.9                   |
| 20              | QPSK       | 1       | 49        | 21.58                    | 21.62                           | 21.63                       | 21.63                            | 21.44                     |                        |
| 20              | QPSK       | 1       | 99        | 21.56                    | 21.63                           | 21.65                       | 21.59                            | 21.41                     |                        |
| 20              | QPSK       | 50      | 0         | 21.56                    | 21.57                           | 21.62                       | 21.53                            | 21.38                     | 21.9                   |
| 20              | QPSK       | 50      | 24        | 21.55                    | 21.54                           | 21.60                       | 21.52                            | 21.37                     |                        |
| 20              | QPSK       | 50      | 50        | 21.55                    | 21.57                           | 21.58                       | 21.51                            | 21.33                     |                        |
| 20              | QPSK       | 100     | 0         | 21.53                    | 21.54                           | 21.60                       | 21.55                            | 21.33                     |                        |
| 20              | 16QAM      | 1       | 0         | 21.38                    | 21.46                           | 21.45                       | 21.52                            | 21.35                     | 21.9                   |
| 20              | 16QAM      | 1       | 49        | 21.11                    | 21.16                           | 21.19                       | 21.14                            | 20.97                     |                        |
| 20              | 16QAM      | 1       | 99        | 21.35                    | 21.45                           | 21.51                       | 21.44                            | 21.25                     |                        |
| 20              | 16QAM      | 50      | 0         | 21.58                    | 21.61                           | 21.64                       | 21.57                            | 21.43                     |                        |
| 20              | 16QAM      | 50      | 24        | 21.56                    | 21.58                           | 21.63                       | 21.57                            | 21.39                     | 21.9                   |
| 20              | 16QAM      | 50      | 50        | 21.56                    | 21.60                           | 21.63                       | 21.57                            | 21.40                     |                        |
| 20              | 16QAM      | 100     | 0         | 21.59                    | 21.63                           | 21.65                       | 21.61                            | 21.42                     |                        |
| 20              | 64QAM      | 1       | 0         | 21.37                    | 21.15                           | 21.59                       | 21.54                            | 21.44                     | 21.9                   |
| 20              | 64QAM      | 1       | 49        | 21.53                    | 21.54                           | 21.49                       | 21.43                            | 21.26                     |                        |
| 20              | 64QAM      | 1       | 99        | 21.38                    | 21.46                           | 21.22                       | 21.17                            | 21.03                     |                        |
| 20              | 64QAM      | 50      | 0         | 21.55                    | 21.60                           | 21.62                       | 21.57                            | 21.43                     | 21.9                   |
| 20              | 64QAM      | 50      | 24        | 21.55                    | 21.60                           | 21.63                       | 21.56                            | 21.42                     |                        |
| 20              | 64QAM      | 50      | 50        | 21.55                    | 21.61                           | 21.63                       | 21.58                            | 21.38                     |                        |
| 20              | 64QAM      | 100     | 0         | 21.56                    | 21.61                           | 21.63                       | 21.60                            | 21.39                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.31                    | 21.51                           | 21.39                       | 21.58                            | 21.36                     | 21.9                   |
| 20              | 256QAM     | 1       | 49        | 21.10                    | 21.19                           | 21.33                       | 21.19                            | 21.34                     |                        |
| 20              | 256QAM     | 1       | 99        | 21.20                    | 21.11                           | 21.28                       | 21.26                            | 20.95                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.03                    | 20.99                           | 21.05                       | 20.95                            | 20.81                     | 21.9                   |
| 20              | 256QAM     | 50      | 24        | 20.93                    | 20.92                           | 21.01                       | 20.93                            | 20.96                     |                        |
| 20              | 256QAM     | 50      | 50        | 20.97                    | 21.15                           | 21.01                       | 20.90                            | 20.81                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.14                    | 21.06                           | 21.08                       | 20.90                            | 20.89                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 21.44                    | 21.57                           | 21.61                       | 21.50                            | 21.44                     | 21.90                  |
| 15              | QPSK       | 1       | 37        | 21.46                    | 21.47                           | 21.50                       | 21.61                            | 21.35                     |                        |
| 15              | QPSK       | 1       | 74        | 21.38                    | 21.48                           | 21.45                       | 21.58                            | 21.28                     |                        |
| 15              | QPSK       | 36      | 0         | 21.43                    | 21.55                           | 21.46                       | 21.43                            | 21.24                     | 21.9                   |
| 15              | QPSK       | 36      | 20        | 21.42                    | 21.43                           | 21.52                       | 21.39                            | 21.22                     |                        |
| 15              | QPSK       | 36      | 39        | 21.48                    | 21.52                           | 21.42                       | 21.44                            | 21.18                     |                        |
| 15              | QPSK       | 75      | 0         | 21.43                    | 21.50                           | 21.53                       | 21.50                            | 21.18                     |                        |
| 15              | 16QAM      | 1       | 0         | 21.35                    | 21.29                           | 21.35                       | 21.39                            | 21.28                     | 21.9                   |
| 15              | 16QAM      | 1       | 37        | 21.01                    | 21.07                           | 21.10                       | 21.07                            | 21.03                     |                        |
| 15              | 16QAM      | 1       | 74        | 21.18                    | 21.41                           | 21.34                       | 21.42                            | 21.09                     |                        |
| 15              | 16QAM      | 36      | 0         | 21.55                    | 21.55                           | 21.55                       | 21.40                            | 21.23                     | 21.9                   |
| 15              | 16QAM      | 36      | 20        | 21.54                    | 21.45                           | 21.61                       | 21.56                            | 21.22                     |                        |
| 15              | 16QAM      | 36      | 39        | 21.41                    | 21.59                           | 21.54                       | 21.47                            | 21.38                     |                        |
| 15              | 16QAM      | 75      | 0         | 21.45                    | 21.58                           | 21.65                       | 21.49                            | 21.22                     |                        |
| 15              | 64QAM      | 1       | 0         | 21.22                    | 21.04                           | 21.45                       | 21.37                            | 21.24                     | 21.9                   |
| 15              | 64QAM      | 1       | 37        | 21.48                    | 21.45                           | 21.35                       | 21.42                            | 21.21                     |                        |
| 15              | 64QAM      | 1       | 74        | 21.28                    | 21.31                           | 21.06                       | 21.07                            | 20.92                     |                        |
| 15              | 64QAM      | 36      | 0         | 21.40                    | 21.56                           | 21.62                       | 21.44                            | 21.31                     | 21.9                   |
| 15              | 64QAM      | 36      | 20        | 21.44                    | 21.50                           | 21.59                       | 21.42                            | 21.28                     |                        |
| 15              | 64QAM      | 36      | 39        | 21.40                    | 21.43                           | 21.51                       | 21.41                            | 21.38                     |                        |
| 15              | 64QAM      | 75      | 0         | 21.38                    | 21.43                           | 21.60                       | 21.54                            | 21.27                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.30                    | 21.34                           | 21.28                       | 21.49                            | 21.16                     | 21.9                   |
| 15              | 256QAM     | 1       | 37        | 21.05                    | 21.01                           | 21.16                       | 21.14                            | 21.34                     |                        |
| 15              | 256QAM     | 1       | 74        | 21.06                    | 20.94                           | 21.22                       | 21.17                            | 20.75                     |                        |
| 15              | 256QAM     | 36      | 0         | 20.89                    | 20.85                           | 21.02                       | 20.80                            | 20.76                     | 21.9                   |
| 15              | 256QAM     | 36      | 20        | 20.79                    | 20.92                           | 20.88                       | 20.93                            | 20.77                     |                        |
| 15              | 256QAM     | 36      | 39        | 20.89                    | 20.99                           | 20.91                       | 20.81                            | 20.75                     |                        |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 21.01  | 20.98  | 21.08 | 20.88   | 20.79  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 21.49  | 21.51  | 21.49 | 21.60   | 21.38  | 21.90         |
| 10              | QPSK   | 1  | 25 | 21.57  | 21.57  | 21.54 | 21.61   | 21.38  |               |
| 10              | QPSK   | 1  | 49 | 21.37  | 21.60  | 21.59 | 21.54   | 21.31  |               |
| 10              | QPSK   | 25 | 0  | 21.45  | 21.46  | 21.49 | 21.48   | 21.20  | 21.9          |
| 10              | QPSK   | 25 | 12 | 21.47  | 21.38  | 21.43 | 21.47   | 21.36  |               |
| 10              | QPSK   | 25 | 25 | 21.50  | 21.39  | 21.45 | 21.43   | 21.21  |               |
| 10              | QPSK   | 50 | 0  | 21.46  | 21.49  | 21.57 | 21.40   | 21.25  |               |
| 10              | 16QAM  | 1  | 0  | 21.19  | 21.35  | 21.35 | 21.50   | 21.25  | 21.9          |
| 10              | 16QAM  | 1  | 25 | 20.94  | 21.06  | 21.06 | 21.11   | 21.02  |               |
| 10              | 16QAM  | 1  | 49 | 21.15  | 21.40  | 21.48 | 21.37   | 21.11  |               |
| 10              | 16QAM  | 25 | 0  | 21.56  | 21.42  | 21.51 | 21.50   | 21.32  | 21.9          |
| 10              | 16QAM  | 25 | 12 | 21.41  | 21.52  | 21.56 | 21.52   | 21.38  |               |
| 10              | 16QAM  | 25 | 25 | 21.46  | 21.59  | 21.43 | 21.41   | 21.40  |               |
| 10              | 16QAM  | 50 | 0  | 21.58  | 21.52  | 21.57 | 21.48   | 21.22  |               |
| 10              | 64QAM  | 1  | 0  | 21.32  | 21.08  | 21.49 | 21.50   | 21.33  | 21.9          |
| 10              | 64QAM  | 1  | 25 | 21.53  | 21.42  | 21.36 | 21.31   | 21.23  |               |
| 10              | 64QAM  | 1  | 49 | 21.23  | 21.42  | 21.20 | 21.03   | 21.05  |               |
| 10              | 64QAM  | 25 | 0  | 21.51  | 21.48  | 21.62 | 21.52   | 21.26  | 21.9          |
| 10              | 64QAM  | 25 | 12 | 21.36  | 21.42  | 21.60 | 21.51   | 21.41  |               |
| 10              | 64QAM  | 25 | 25 | 21.53  | 21.54  | 21.49 | 21.51   | 21.26  |               |
| 10              | 64QAM  | 50 | 0  | 21.40  | 21.48  | 21.58 | 21.44   | 21.33  |               |
| 10              | 256QAM | 1  | 0  | 21.24  | 21.38  | 21.23 | 21.50   | 21.23  | 21.9          |
| 10              | 256QAM | 1  | 25 | 20.90  | 21.08  | 21.28 | 21.08   | 21.34  |               |
| 10              | 256QAM | 1  | 49 | 21.18  | 20.94  | 21.17 | 21.20   | 20.81  |               |
| 10              | 256QAM | 25 | 0  | 20.97  | 20.80  | 20.98 | 20.95   | 20.71  | 21.9          |
| 10              | 256QAM | 25 | 12 | 20.90  | 20.77  | 20.89 | 20.90   | 20.81  |               |
| 10              | 256QAM | 25 | 25 | 20.97  | 21.04  | 20.92 | 20.73   | 20.74  |               |
| 10              | 256QAM | 50 | 0  | 21.10  | 21.02  | 20.98 | 20.77   | 20.83  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 21.54  | 21.47  | 21.58 | 21.66   | 21.36  | 21.90         |
| 5               | QPSK   | 1  | 12 | 21.56  | 21.42  | 21.47 | 21.55   | 21.36  |               |
| 5               | QPSK   | 1  | 24 | 21.43  | 21.61  | 21.51 | 21.53   | 21.39  |               |
| 5               | QPSK   | 12 | 0  | 21.49  | 21.48  | 21.51 | 21.47   | 21.21  | 21.9          |
| 5               | QPSK   | 12 | 7  | 21.50  | 21.41  | 21.41 | 21.49   | 21.33  |               |
| 5               | QPSK   | 12 | 13 | 21.45  | 21.43  | 21.50 | 21.41   | 21.30  |               |
| 5               | QPSK   | 25 | 0  | 21.46  | 21.46  | 21.49 | 21.55   | 21.33  |               |
| 5               | 16QAM  | 1  | 0  | 21.33  | 21.34  | 21.35 | 21.35   | 21.17  | 21.9          |
| 5               | 16QAM  | 1  | 12 | 20.97  | 20.96  | 21.17 | 21.04   | 20.97  |               |
| 5               | 16QAM  | 1  | 24 | 21.19  | 21.37  | 21.45 | 21.26   | 21.11  |               |
| 5               | 16QAM  | 12 | 0  | 21.52  | 21.59  | 21.63 | 21.48   | 21.34  | 21.9          |
| 5               | 16QAM  | 12 | 7  | 21.50  | 21.52  | 21.63 | 21.53   | 21.38  |               |
| 5               | 16QAM  | 12 | 13 | 21.48  | 21.59  | 21.58 | 21.54   | 21.39  |               |
| 5               | 16QAM  | 25 | 0  | 21.39  | 21.45  | 21.61 | 21.50   | 21.24  |               |
| 5               | 64QAM  | 1  | 0  | 21.22  | 21.00  | 21.43 | 21.39   | 21.34  | 21.9          |
| 5               | 64QAM  | 1  | 12 | 21.39  | 21.40  | 21.46 | 21.33   | 21.14  |               |
| 5               | 64QAM  | 1  | 24 | 21.35  | 21.38  | 21.11 | 20.98   | 20.96  |               |
| 5               | 64QAM  | 12 | 0  | 21.35  | 21.54  | 21.42 | 21.53   | 21.43  | 21.9          |
| 5               | 64QAM  | 12 | 7  | 21.36  | 21.40  | 21.63 | 21.52   | 21.31  |               |
| 5               | 64QAM  | 12 | 13 | 21.53  | 21.59  | 21.55 | 21.45   | 21.27  |               |
| 5               | 64QAM  | 25 | 0  | 21.49  | 21.56  | 21.46 | 21.47   | 21.27  |               |
| 5               | 256QAM | 1  | 0  | 21.24  | 21.36  | 21.36 | 21.46   | 21.28  | 21.9          |
| 5               | 256QAM | 1  | 12 | 20.95  | 21.11  | 21.27 | 21.19   | 21.14  |               |
| 5               | 256QAM | 1  | 24 | 21.11  | 20.92  | 21.22 | 21.10   | 20.85  |               |
| 5               | 256QAM | 12 | 0  | 20.95  | 20.80  | 20.89 | 20.90   | 20.80  | 21.9          |
| 5               | 256QAM | 12 | 7  | 20.93  | 20.73  | 20.96 | 20.81   | 20.77  |               |
| 5               | 256QAM | 12 | 13 | 20.78  | 20.99  | 20.99 | 20.90   | 20.79  |               |
| 5               | 256QAM | 25 | 0  | 21.10  | 21.02  | 21.01 | 20.80   | 20.79  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 23.73                 | 23.81                        | 23.64                    | 23.58                         | 23.34                  | 24.4                |
| 20              | QPSK       | 1       | 49        | 23.73                 | 23.73                        | 23.47                    | 23.53                         | 23.32                  |                     |
| 20              | QPSK       | 1       | 99        | 23.67                 | 23.70                        | 23.62                    | 23.48                         | 23.29                  |                     |
| 20              | QPSK       | 50      | 0         | 23.73                 | 23.76                        | 23.69                    | 23.50                         | 23.28                  | 24.4                |
| 20              | QPSK       | 50      | 24        | 23.70                 | 23.70                        | 23.63                    | 23.36                         | 23.25                  |                     |
| 20              | QPSK       | 50      | 50        | 23.53                 | 23.53                        | 23.59                    | 23.38                         | 23.25                  |                     |
| 20              | QPSK       | 100     | 0         | 23.54                 | 23.65                        | 23.60                    | 23.40                         | 23.38                  |                     |
| 20              | 16QAM      | 1       | 0         | 23.63                 | 23.28                        | 23.42                    | 23.53                         | 23.39                  | 24.4                |
| 20              | 16QAM      | 1       | 49        | 23.24                 | 23.34                        | 23.44                    | 23.34                         | 23.21                  |                     |
| 20              | 16QAM      | 1       | 99        | 23.35                 | 23.33                        | 23.58                    | 23.37                         | 23.24                  |                     |
| 20              | 16QAM      | 50      | 0         | 23.14                 | 23.18                        | 23.32                    | 23.11                         | 23.14                  | 24.4                |
| 20              | 16QAM      | 50      | 24        | 23.21                 | 23.06                        | 23.18                    | 23.19                         | 23.15                  |                     |
| 20              | 16QAM      | 50      | 50        | 23.23                 | 23.24                        | 23.33                    | 23.17                         | 23.16                  |                     |
| 20              | 16QAM      | 100     | 0         | 23.22                 | 23.19                        | 23.63                    | 23.19                         | 23.19                  |                     |
| 20              | 64QAM      | 1       | 0         | 23.22                 | 23.30                        | 23.09                    | 23.11                         | 23.11                  | 24.4                |
| 20              | 64QAM      | 1       | 49        | 23.39                 | 23.50                        | 23.10                    | 23.13                         | 23.16                  |                     |
| 20              | 64QAM      | 1       | 99        | 23.19                 | 23.29                        | 23.10                    | 23.08                         | 23.14                  |                     |
| 20              | 64QAM      | 50      | 0         | 23.29                 | 23.20                        | 23.05                    | 23.00                         | 22.89                  | 24                  |
| 20              | 64QAM      | 50      | 24        | 23.23                 | 23.30                        | 23.03                    | 23.05                         | 22.79                  |                     |
| 20              | 64QAM      | 50      | 50        | 23.14                 | 23.27                        | 22.97                    | 23.13                         | 22.87                  |                     |
| 20              | 64QAM      | 100     | 0         | 23.30                 | 23.24                        | 23.12                    | 23.14                         | 22.80                  |                     |
| 20              | 256QAM     | 1       | 0         | 21.59                 | 21.63                        | 21.43                    | 21.33                         | 21.15                  | 22                  |
| 20              | 256QAM     | 1       | 49        | 21.76                 | 21.81                        | 21.54                    | 21.59                         | 21.36                  |                     |
| 20              | 256QAM     | 1       | 99        | 21.61                 | 21.64                        | 21.48                    | 21.41                         | 21.35                  |                     |
| 20              | 256QAM     | 50      | 0         | 21.57                 | 21.56                        | 21.14                    | 21.32                         | 21.19                  | 22                  |
| 20              | 256QAM     | 50      | 24        | 21.55                 | 21.40                        | 21.39                    | 21.30                         | 21.14                  |                     |
| 20              | 256QAM     | 50      | 50        | 21.41                 | 21.60                        | 21.22                    | 21.22                         | 21.16                  |                     |
| 20              | 256QAM     | 100     | 0         | 21.44                 | 21.42                        | 21.37                    | 21.29                         | 21.21                  |                     |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5                | 2548.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 23.57                 | 23.70                        | 23.62                    | 23.48                         | 23.27                  | 24.40               |
| 15              | QPSK       | 1       | 37        | 23.53                 | 23.70                        | 23.38                    | 23.38                         | 23.25                  |                     |
| 15              | QPSK       | 1       | 74        | 23.53                 | 23.59                        | 23.59                    | 23.44                         | 23.23                  |                     |
| 15              | QPSK       | 36      | 0         | 23.52                 | 23.49                        | 23.69                    | 23.29                         | 23.47                  | 24.4                |
| 15              | QPSK       | 36      | 20        | 23.44                 | 23.61                        | 23.51                    | 23.26                         | 23.49                  |                     |
| 15              | QPSK       | 36      | 39        | 23.41                 | 23.58                        | 23.43                    | 23.33                         | 23.44                  |                     |
| 15              | QPSK       | 75      | 0         | 23.35                 | 23.60                        | 23.52                    | 23.30                         | 23.30                  |                     |
| 15              | 16QAM      | 1       | 0         | 23.46                 | 23.34                        | 23.24                    | 23.52                         | 23.42                  | 24.4                |
| 15              | 16QAM      | 1       | 37        | 23.35                 | 23.37                        | 23.23                    | 23.30                         | 23.39                  |                     |
| 15              | 16QAM      | 1       | 74        | 23.33                 | 23.39                        | 23.38                    | 23.38                         | 23.25                  |                     |
| 15              | 16QAM      | 36      | 0         | 23.10                 | 23.10                        | 23.01                    | 23.10                         | 23.18                  | 24.4                |
| 15              | 16QAM      | 36      | 20        | 23.13                 | 23.15                        | 23.01                    | 23.19                         | 23.19                  |                     |
| 15              | 16QAM      | 36      | 39        | 23.18                 | 23.16                        | 23.28                    | 23.13                         | 23.05                  |                     |
| 15              | 16QAM      | 75      | 0         | 23.18                 | 23.19                        | 23.37                    | 23.00                         | 23.02                  |                     |
| 15              | 64QAM      | 1       | 0         | 23.13                 | 23.24                        | 23.13                    | 23.17                         | 23.18                  | 24.4                |
| 15              | 64QAM      | 1       | 37        | 23.11                 | 23.50                        | 23.19                    | 23.04                         | 23.08                  |                     |
| 15              | 64QAM      | 1       | 74        | 23.15                 | 23.05                        | 23.20                    | 23.13                         | 23.02                  |                     |
| 15              | 64QAM      | 36      | 0         | 23.09                 | 23.28                        | 22.75                    | 23.09                         | 22.89                  | 24                  |
| 15              | 64QAM      | 36      | 20        | 22.96                 | 23.28                        | 22.92                    | 23.08                         | 22.71                  |                     |
| 15              | 64QAM      | 36      | 39        | 23.14                 | 23.12                        | 22.98                    | 22.95                         | 22.68                  |                     |
| 15              | 64QAM      | 75      | 0         | 23.26                 | 23.07                        | 22.82                    | 23.13                         | 22.74                  |                     |
| 15              | 256QAM     | 1       | 0         | 21.51                 | 21.57                        | 21.42                    | 21.31                         | 21.03                  | 22                  |
| 15              | 256QAM     | 1       | 37        | 21.49                 | 21.61                        | 21.31                    | 21.28                         | 21.22                  |                     |
| 15              | 256QAM     | 1       | 74        | 21.27                 | 21.58                        | 21.29                    | 21.46                         | 21.12                  |                     |
| 15              | 256QAM     | 36      | 0         | 21.26                 | 21.42                        | 21.06                    | 21.23                         | 20.90                  | 22                  |
| 15              | 256QAM     | 36      | 20        | 21.46                 | 21.35                        | 21.20                    | 21.27                         | 21.00                  |                     |
| 15              | 256QAM     | 36      | 39        | 21.41                 | 21.36                        | 21.11                    | 21.29                         | 21.09                  |                     |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 21.43  | 21.41  | 21.15 | 21.17   | 20.88  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 23.71  | 23.66  | 23.47 | 23.52   | 23.31  | 24.40         |
| 10              | QPSK   | 1  | 25 | 23.63  | 23.59  | 23.44 | 23.33   | 23.20  |               |
| 10              | QPSK   | 1  | 49 | 23.66  | 23.53  | 23.50 | 23.40   | 23.34  |               |
| 10              | QPSK   | 25 | 0  | 23.64  | 23.41  | 23.69 | 23.42   | 23.26  | 24.4          |
| 10              | QPSK   | 25 | 12 | 23.44  | 23.60  | 23.43 | 23.46   | 23.28  |               |
| 10              | QPSK   | 25 | 25 | 23.48  | 23.52  | 23.49 | 23.39   | 23.21  |               |
| 10              | QPSK   | 50 | 0  | 23.39  | 23.49  | 23.67 | 23.30   | 23.27  |               |
| 10              | 16QAM  | 1  | 0  | 23.61  | 23.20  | 23.28 | 23.24   | 23.36  | 24.4          |
| 10              | 16QAM  | 1  | 25 | 23.20  | 23.36  | 23.33 | 23.33   | 23.27  |               |
| 10              | 16QAM  | 1  | 49 | 23.28  | 23.34  | 23.31 | 23.25   | 23.30  |               |
| 10              | 16QAM  | 25 | 0  | 23.15  | 23.15  | 23.12 | 23.20   | 23.19  | 24.4          |
| 10              | 16QAM  | 25 | 12 | 23.11  | 23.09  | 23.02 | 23.19   | 23.16  |               |
| 10              | 16QAM  | 25 | 25 | 23.07  | 23.08  | 23.33 | 23.15   | 23.15  |               |
| 10              | 16QAM  | 50 | 0  | 23.09  | 23.25  | 23.45 | 23.06   | 23.15  |               |
| 10              | 64QAM  | 1  | 0  | 23.04  | 23.21  | 23.19 | 23.13   | 23.11  | 24.4          |
| 10              | 64QAM  | 1  | 25 | 23.30  | 23.51  | 23.16 | 23.04   | 23.03  |               |
| 10              | 64QAM  | 1  | 49 | 23.06  | 23.12  | 23.13 | 23.15   | 23.04  |               |
| 10              | 64QAM  | 25 | 0  | 23.02  | 23.01  | 23.02 | 23.00   | 22.71  | 24            |
| 10              | 64QAM  | 25 | 12 | 23.07  | 23.06  | 22.81 | 22.95   | 22.72  |               |
| 10              | 64QAM  | 25 | 25 | 23.21  | 23.03  | 22.87 | 22.98   | 22.89  |               |
| 10              | 64QAM  | 50 | 0  | 23.17  | 23.08  | 23.06 | 22.95   | 22.78  |               |
| 10              | 256QAM | 1  | 0  | 21.31  | 21.55  | 21.35 | 21.20   | 20.95  | 22            |
| 10              | 256QAM | 1  | 25 | 21.53  | 21.58  | 21.20 | 21.46   | 21.32  |               |
| 10              | 256QAM | 1  | 49 | 21.50  | 21.73  | 21.32 | 21.28   | 21.13  |               |
| 10              | 256QAM | 25 | 0  | 21.35  | 21.42  | 21.19 | 21.27   | 21.00  | 22            |
| 10              | 256QAM | 25 | 12 | 21.27  | 21.44  | 21.24 | 21.15   | 20.90  |               |
| 10              | 256QAM | 25 | 25 | 21.40  | 21.38  | 21.15 | 21.33   | 21.10  |               |
| 10              | 256QAM | 50 | 0  | 21.26  | 21.45  | 21.19 | 21.29   | 21.07  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 23.59  | 23.65  | 23.54 | 23.51   | 23.48  | 24.40         |
| 5               | QPSK   | 1  | 12 | 23.73  | 23.60  | 23.30 | 23.48   | 23.32  |               |
| 5               | QPSK   | 1  | 24 | 23.59  | 23.69  | 23.48 | 23.45   | 23.36  |               |
| 5               | QPSK   | 12 | 0  | 23.46  | 23.55  | 23.53 | 23.24   | 23.45  | 24.4          |
| 5               | QPSK   | 12 | 7  | 23.59  | 23.49  | 23.51 | 23.30   | 23.33  |               |
| 5               | QPSK   | 12 | 13 | 23.54  | 23.37  | 23.47 | 23.30   | 23.33  |               |
| 5               | QPSK   | 25 | 0  | 23.61  | 23.61  | 23.55 | 23.37   | 23.29  |               |
| 5               | 16QAM  | 1  | 0  | 23.56  | 23.26  | 23.47 | 23.42   | 23.38  | 24.4          |
| 5               | 16QAM  | 1  | 12 | 23.37  | 23.35  | 23.29 | 23.34   | 23.27  |               |
| 5               | 16QAM  | 1  | 24 | 23.29  | 23.34  | 23.43 | 23.36   | 23.32  |               |
| 5               | 16QAM  | 12 | 0  | 23.04  | 23.18  | 23.14 | 23.18   | 23.01  | 24.4          |
| 5               | 16QAM  | 12 | 7  | 23.25  | 23.08  | 23.16 | 23.19   | 23.24  |               |
| 5               | 16QAM  | 12 | 13 | 23.04  | 23.20  | 23.45 | 23.18   | 23.18  |               |
| 5               | 16QAM  | 25 | 0  | 23.07  | 23.17  | 23.42 | 23.12   | 23.18  |               |
| 5               | 64QAM  | 1  | 0  | 23.20  | 23.34  | 23.00 | 23.08   | 23.06  | 24.4          |
| 5               | 64QAM  | 1  | 12 | 23.19  | 23.33  | 23.04 | 23.08   | 23.16  |               |
| 5               | 64QAM  | 1  | 24 | 23.25  | 23.25  | 23.16 | 23.19   | 23.00  |               |
| 5               | 64QAM  | 12 | 0  | 23.16  | 23.33  | 23.02 | 23.02   | 22.85  | 24            |
| 5               | 64QAM  | 12 | 7  | 23.20  | 23.18  | 22.92 | 22.91   | 22.74  |               |
| 5               | 64QAM  | 12 | 13 | 23.19  | 23.24  | 22.79 | 22.83   | 22.93  |               |
| 5               | 64QAM  | 25 | 0  | 23.26  | 23.24  | 23.01 | 23.11   | 22.84  |               |
| 5               | 256QAM | 1  | 0  | 21.45  | 21.46  | 21.46 | 21.48   | 21.15  | 22            |
| 5               | 256QAM | 1  | 12 | 21.60  | 21.74  | 21.38 | 21.48   | 21.07  |               |
| 5               | 256QAM | 1  | 24 | 21.42  | 21.72  | 21.30 | 21.30   | 21.08  |               |
| 5               | 256QAM | 12 | 0  | 21.33  | 21.35  | 21.10 | 21.34   | 21.07  | 22            |
| 5               | 256QAM | 12 | 7  | 21.43  | 21.34  | 21.23 | 21.23   | 20.99  |               |
| 5               | 256QAM | 12 | 13 | 21.38  | 21.58  | 21.17 | 21.22   | 21.01  |               |
| 5               | 256QAM | 25 | 0  | 21.28  | 21.25  | 21.08 | 21.20   | 21.08  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 24.30                    | 24.31                           | 24.29                       | 24.24                            | 24.20                     | 24.6                   |
| 20              | QPSK       | 1       | 49        | 24.26                    | 24.24                           | 24.21                       | 24.17                            | 24.15                     |                        |
| 20              | QPSK       | 1       | 99        | 24.25                    | 24.25                           | 24.23                       | 24.13                            | 24.10                     |                        |
| 20              | QPSK       | 50      | 0         | 24.20                    | 24.21                           | 24.12                       | 24.07                            | 24.04                     | 24.6                   |
| 20              | QPSK       | 50      | 24        | 24.18                    | 24.16                           | 24.11                       | 24.05                            | 24.02                     |                        |
| 20              | QPSK       | 50      | 50        | 24.18                    | 24.15                           | 24.10                       | 24.05                            | 24.00                     |                        |
| 20              | QPSK       | 100     | 0         | 24.20                    | 24.20                           | 24.08                       | 24.08                            | 23.99                     |                        |
| 20              | 16QAM      | 1       | 0         | 24.03                    | 24.23                           | 24.20                       | 24.19                            | 24.00                     | 24.6                   |
| 20              | 16QAM      | 1       | 49        | 23.82                    | 23.82                           | 23.86                       | 23.82                            | 23.87                     |                        |
| 20              | 16QAM      | 1       | 99        | 24.03                    | 24.09                           | 24.04                       | 23.95                            | 23.92                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.74                    | 23.72                           | 23.66                       | 23.60                            | 23.54                     | 24.6                   |
| 20              | 16QAM      | 50      | 24        | 23.71                    | 23.68                           | 23.63                       | 23.59                            | 23.56                     |                        |
| 20              | 16QAM      | 50      | 50        | 23.72                    | 23.68                           | 23.66                       | 23.55                            | 23.54                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.75                    | 23.70                           | 23.64                       | 23.57                            | 23.56                     |                        |
| 20              | 64QAM      | 1       | 0         | 23.83                    | 23.80                           | 23.78                       | 23.77                            | 23.73                     | 24.6                   |
| 20              | 64QAM      | 1       | 49        | 23.82                    | 23.80                           | 23.77                       | 23.74                            | 23.84                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.81                    | 23.83                           | 23.76                       | 23.69                            | 23.70                     |                        |
| 20              | 64QAM      | 50      | 0         | 23.21                    | 23.16                           | 23.12                       | 23.08                            | 23.05                     | 24                     |
| 20              | 64QAM      | 50      | 24        | 23.21                    | 23.17                           | 23.11                       | 23.07                            | 23.04                     |                        |
| 20              | 64QAM      | 50      | 50        | 23.19                    | 23.16                           | 23.12                       | 23.04                            | 23.06                     |                        |
| 20              | 64QAM      | 100     | 0         | 23.14                    | 23.09                           | 23.07                       | 23.03                            | 22.99                     |                        |
| 20              | 256QAM     | 1       | 0         | 21.45                    | 21.12                           | 21.18                       | 21.22                            | 21.31                     | 22                     |
| 20              | 256QAM     | 1       | 49        | 21.42                    | 21.21                           | 21.17                       | 21.16                            | 21.00                     |                        |
| 20              | 256QAM     | 1       | 99        | 21.51                    | 21.29                           | 21.40                       | 21.28                            | 21.14                     |                        |
| 20              | 256QAM     | 50      | 0         | 21.40                    | 21.50                           | 21.45                       | 21.23                            | 21.37                     | 22                     |
| 20              | 256QAM     | 50      | 24        | 21.40                    | 21.38                           | 21.42                       | 21.48                            | 21.38                     |                        |
| 20              | 256QAM     | 50      | 50        | 21.44                    | 21.41                           | 21.53                       | 21.51                            | 21.33                     |                        |
| 20              | 256QAM     | 100     | 0         | 21.57                    | 21.31                           | 21.39                       | 21.45                            | 21.35                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 24.30                    | 24.28                           | 24.09                       | 24.19                            | 24.01                     | 24.60                  |
| 15              | QPSK       | 1       | 37        | 24.24                    | 24.10                           | 24.13                       | 24.14                            | 24.12                     |                        |
| 15              | QPSK       | 1       | 74        | 24.05                    | 24.13                           | 24.06                       | 24.01                            | 23.95                     |                        |
| 15              | QPSK       | 36      | 0         | 24.19                    | 24.04                           | 23.93                       | 23.97                            | 23.85                     | 24.6                   |
| 15              | QPSK       | 36      | 20        | 24.18                    | 24.08                           | 24.07                       | 23.89                            | 23.97                     |                        |
| 15              | QPSK       | 36      | 39        | 24.08                    | 23.96                           | 23.93                       | 24.01                            | 23.94                     |                        |
| 15              | QPSK       | 75      | 0         | 24.20                    | 24.10                           | 23.98                       | 23.95                            | 23.93                     |                        |
| 15              | 16QAM      | 1       | 0         | 23.99                    | 24.20                           | 24.06                       | 24.01                            | 23.85                     | 24.6                   |
| 15              | 16QAM      | 1       | 37        | 23.63                    | 23.77                           | 23.69                       | 23.72                            | 23.68                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.86                    | 23.99                           | 24.02                       | 23.80                            | 23.72                     |                        |
| 15              | 16QAM      | 36      | 0         | 23.62                    | 23.69                           | 23.53                       | 23.46                            | 23.41                     | 24.6                   |
| 15              | 16QAM      | 36      | 20        | 23.52                    | 23.64                           | 23.52                       | 23.40                            | 23.47                     |                        |
| 15              | 16QAM      | 36      | 39        | 23.55                    | 23.67                           | 23.53                       | 23.43                            | 23.47                     |                        |
| 15              | 16QAM      | 75      | 0         | 23.61                    | 23.53                           | 23.54                       | 23.43                            | 23.41                     |                        |
| 15              | 64QAM      | 1       | 0         | 23.78                    | 23.66                           | 23.65                       | 23.77                            | 23.67                     | 24.6                   |
| 15              | 64QAM      | 1       | 37        | 23.82                    | 23.79                           | 23.69                       | 23.69                            | 23.71                     |                        |
| 15              | 64QAM      | 1       | 74        | 23.69                    | 23.79                           | 23.71                       | 23.65                            | 23.63                     |                        |
| 15              | 64QAM      | 36      | 0         | 23.08                    | 23.01                           | 22.99                       | 23.01                            | 22.98                     | 24                     |
| 15              | 64QAM      | 36      | 20        | 23.02                    | 23.17                           | 23.10                       | 22.96                            | 22.96                     |                        |
| 15              | 64QAM      | 36      | 39        | 23.06                    | 23.01                           | 23.06                       | 22.99                            | 23.05                     |                        |
| 15              | 64QAM      | 75      | 0         | 23.14                    | 22.99                           | 23.01                       | 22.85                            | 22.82                     |                        |
| 15              | 256QAM     | 1       | 0         | 21.33                    | 21.02                           | 21.01                       | 21.17                            | 21.19                     | 22                     |
| 15              | 256QAM     | 1       | 37        | 21.23                    | 21.17                           | 21.04                       | 21.12                            | 20.93                     |                        |
| 15              | 256QAM     | 1       | 74        | 21.49                    | 21.18                           | 21.36                       | 21.25                            | 21.14                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.22                    | 21.49                           | 21.41                       | 21.11                            | 21.29                     | 22                     |
| 15              | 256QAM     | 36      | 20        | 21.24                    | 21.25                           | 21.23                       | 21.38                            | 21.18                     |                        |
| 15              | 256QAM     | 36      | 39        | 21.27                    | 21.29                           | 21.35                       | 21.32                            | 21.16                     |                        |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 21.46  | 21.15  | 21.26 | 21.40   | 21.15  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 24.26  | 24.28  | 24.28 | 24.06   | 24.20  | 24.60         |
| 10              | QPSK   | 1  | 25 | 24.24  | 24.04  | 24.20 | 24.10   | 23.95  |               |
| 10              | QPSK   | 1  | 49 | 24.20  | 24.25  | 24.10 | 24.01   | 24.02  |               |
| 10              | QPSK   | 25 | 0  | 24.20  | 24.02  | 24.02 | 23.97   | 23.94  | 24.6          |
| 10              | QPSK   | 25 | 12 | 24.18  | 24.10  | 24.06 | 23.90   | 23.89  |               |
| 10              | QPSK   | 25 | 25 | 24.08  | 24.03  | 23.93 | 23.95   | 23.91  |               |
| 10              | QPSK   | 50 | 0  | 24.09  | 24.09  | 23.91 | 24.08   | 23.95  |               |
| 10              | 16QAM  | 1  | 0  | 23.89  | 24.21  | 24.05 | 24.03   | 23.81  | 24.6          |
| 10              | 16QAM  | 1  | 25 | 23.79  | 23.82  | 23.66 | 23.70   | 23.82  |               |
| 10              | 16QAM  | 1  | 49 | 23.88  | 24.05  | 23.84 | 23.85   | 23.73  |               |
| 10              | 16QAM  | 25 | 0  | 23.68  | 23.64  | 23.55 | 23.60   | 23.54  | 24.6          |
| 10              | 16QAM  | 25 | 12 | 23.57  | 23.64  | 23.44 | 23.40   | 23.56  |               |
| 10              | 16QAM  | 25 | 25 | 23.55  | 23.48  | 23.61 | 23.50   | 23.34  |               |
| 10              | 16QAM  | 50 | 0  | 23.62  | 23.70  | 23.63 | 23.39   | 23.37  |               |
| 10              | 64QAM  | 1  | 0  | 23.75  | 23.60  | 23.60 | 23.57   | 23.61  | 24.6          |
| 10              | 64QAM  | 1  | 25 | 23.70  | 23.64  | 23.75 | 23.54   | 23.83  |               |
| 10              | 64QAM  | 1  | 49 | 23.68  | 23.72  | 23.66 | 23.64   | 23.65  |               |
| 10              | 64QAM  | 25 | 0  | 23.02  | 22.96  | 23.08 | 22.95   | 22.90  | 24            |
| 10              | 64QAM  | 25 | 12 | 23.14  | 22.98  | 22.98 | 23.03   | 22.88  |               |
| 10              | 64QAM  | 25 | 25 | 23.15  | 23.10  | 22.94 | 22.92   | 23.00  |               |
| 10              | 64QAM  | 50 | 0  | 22.95  | 23.08  | 23.05 | 23.03   | 22.82  |               |
| 10              | 256QAM | 1  | 0  | 21.30  | 20.99  | 21.07 | 21.04   | 21.17  | 22            |
| 10              | 256QAM | 1  | 25 | 21.41  | 21.08  | 21.11 | 21.12   | 20.88  |               |
| 10              | 256QAM | 1  | 49 | 21.32  | 21.24  | 21.40 | 21.20   | 21.03  |               |
| 10              | 256QAM | 25 | 0  | 21.35  | 21.35  | 21.43 | 21.19   | 21.23  | 22            |
| 10              | 256QAM | 25 | 12 | 21.30  | 21.35  | 21.28 | 21.43   | 21.37  |               |
| 10              | 256QAM | 25 | 25 | 21.29  | 21.27  | 21.49 | 21.43   | 21.29  |               |
| 10              | 256QAM | 50 | 0  | 21.40  | 21.14  | 21.20 | 21.42   | 21.26  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 24.19  | 24.18  | 24.16 | 24.07   | 24.06  | 24.60         |
| 5               | QPSK   | 1  | 12 | 24.12  | 24.07  | 24.11 | 24.11   | 23.97  |               |
| 5               | QPSK   | 1  | 24 | 24.18  | 24.06  | 24.18 | 23.98   | 23.92  |               |
| 5               | QPSK   | 12 | 0  | 24.13  | 24.05  | 24.06 | 23.92   | 23.95  | 24.6          |
| 5               | QPSK   | 12 | 7  | 24.08  | 24.10  | 23.92 | 23.86   | 23.92  |               |
| 5               | QPSK   | 12 | 13 | 24.14  | 23.96  | 23.99 | 24.03   | 23.94  |               |
| 5               | QPSK   | 25 | 0  | 24.08  | 24.04  | 23.91 | 23.95   | 23.95  |               |
| 5               | 16QAM  | 1  | 0  | 23.95  | 24.15  | 24.17 | 23.99   | 23.81  | 24.6          |
| 5               | 16QAM  | 1  | 12 | 23.63  | 23.65  | 23.76 | 23.62   | 23.87  |               |
| 5               | 16QAM  | 1  | 24 | 23.99  | 23.95  | 23.99 | 23.90   | 23.73  |               |
| 5               | 16QAM  | 12 | 0  | 23.63  | 23.72  | 23.47 | 23.42   | 23.46  | 24.6          |
| 5               | 16QAM  | 12 | 7  | 23.69  | 23.56  | 23.58 | 23.49   | 23.44  |               |
| 5               | 16QAM  | 12 | 13 | 23.52  | 23.49  | 23.61 | 23.40   | 23.48  |               |
| 5               | 16QAM  | 25 | 0  | 23.71  | 23.68  | 23.64 | 23.46   | 23.42  |               |
| 5               | 64QAM  | 1  | 0  | 23.70  | 23.78  | 23.61 | 23.70   | 23.73  | 24.6          |
| 5               | 64QAM  | 1  | 12 | 23.75  | 23.62  | 23.71 | 23.67   | 23.80  |               |
| 5               | 64QAM  | 1  | 24 | 23.72  | 23.65  | 23.56 | 23.63   | 23.66  |               |
| 5               | 64QAM  | 12 | 0  | 23.17  | 22.98  | 22.95 | 22.99   | 22.98  | 24            |
| 5               | 64QAM  | 12 | 7  | 23.13  | 23.10  | 23.08 | 23.05   | 22.97  |               |
| 5               | 64QAM  | 12 | 13 | 23.09  | 23.01  | 23.10 | 22.96   | 22.97  |               |
| 5               | 64QAM  | 25 | 0  | 22.94  | 23.01  | 23.05 | 23.03   | 22.97  |               |
| 5               | 256QAM | 1  | 0  | 21.41  | 20.97  | 21.13 | 21.10   | 21.29  | 22            |
| 5               | 256QAM | 1  | 12 | 21.35  | 21.01  | 20.99 | 21.01   | 20.91  |               |
| 5               | 256QAM | 1  | 24 | 21.38  | 21.15  | 21.39 | 21.12   | 21.08  |               |
| 5               | 256QAM | 12 | 0  | 21.22  | 21.34  | 21.25 | 21.20   | 21.36  | 22            |
| 5               | 256QAM | 12 | 7  | 21.39  | 21.27  | 21.24 | 21.44   | 21.27  |               |
| 5               | 256QAM | 12 | 13 | 21.25  | 21.26  | 21.53 | 21.46   | 21.16  |               |
| 5               | 256QAM | 25 | 0  | 21.38  | 21.22  | 21.28 | 21.29   | 21.19  |               |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Low Middle<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|---------------------------------|-----------------------------|----------------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 39750                    | 40185                           | 40620                       | 41055                            | 41490                     |                        |
| Frequency (MHz) |            |         |           | 2506                     | 2549.5                          | 2593                        | 2636.5                           | 2680                      |                        |
| 20              | QPSK       | 1       | 0         | 24.27                    | 24.16                           | 24.48                       | 24.28                            | 24.26                     | 25.1                   |
| 20              | QPSK       | 1       | 49        | 24.20                    | 24.13                           | 24.38                       | 24.21                            | 24.21                     |                        |
| 20              | QPSK       | 1       | 99        | 24.26                    | 24.09                           | 24.20                       | 24.25                            | 24.25                     |                        |
| 20              | QPSK       | 50      | 0         | 24.28                    | 24.19                           | 24.35                       | 24.18                            | 24.16                     | 25.1                   |
| 20              | QPSK       | 50      | 24        | 24.23                    | 24.14                           | 24.33                       | 24.14                            | 24.14                     |                        |
| 20              | QPSK       | 50      | 50        | 24.24                    | 24.11                           | 24.14                       | 24.14                            | 24.06                     |                        |
| 20              | QPSK       | 100     | 0         | 24.14                    | 24.19                           | 24.29                       | 24.17                            | 24.02                     |                        |
| 20              | 16QAM      | 1       | 0         | 24.28                    | 23.99                           | 24.15                       | 24.14                            | 23.96                     | 25.1                   |
| 20              | 16QAM      | 1       | 49        | 24.08                    | 24.01                           | 24.29                       | 23.92                            | 24.17                     |                        |
| 20              | 16QAM      | 1       | 99        | 24.11                    | 24.05                           | 24.22                       | 23.92                            | 24.06                     |                        |
| 20              | 16QAM      | 50      | 0         | 23.62                    | 23.77                           | 23.95                       | 23.55                            | 23.55                     | 25                     |
| 20              | 16QAM      | 50      | 24        | 23.88                    | 23.41                           | 23.73                       | 23.50                            | 23.75                     |                        |
| 20              | 16QAM      | 50      | 50        | 23.51                    | 23.80                           | 23.77                       | 23.59                            | 23.55                     |                        |
| 20              | 16QAM      | 100     | 0         | 23.74                    | 23.74                           | 23.53                       | 23.53                            | 23.77                     |                        |
| 20              | 64QAM      | 1       | 0         | 23.69                    | 23.63                           | 23.68                       | 23.88                            | 23.79                     | 25                     |
| 20              | 64QAM      | 1       | 49        | 23.82                    | 23.62                           | 23.68                       | 23.78                            | 23.80                     |                        |
| 20              | 64QAM      | 1       | 99        | 23.73                    | 23.61                           | 23.77                       | 23.72                            | 23.46                     |                        |
| 20              | 64QAM      | 50      | 0         | 22.80                    | 22.59                           | 22.93                       | 22.49                            | 22.45                     | 24                     |
| 20              | 64QAM      | 50      | 24        | 22.61                    | 22.71                           | 22.62                       | 22.59                            | 22.46                     |                        |
| 20              | 64QAM      | 50      | 50        | 22.76                    | 22.54                           | 22.76                       | 22.65                            | 22.43                     |                        |
| 20              | 64QAM      | 100     | 0         | 22.91                    | 22.66                           | 22.93                       | 22.34                            | 22.28                     |                        |
| 20              | 256QAM     | 1       | 0         | 20.76                    | 20.88                           | 21.00                       | 20.78                            | 20.89                     | 22                     |
| 20              | 256QAM     | 1       | 49        | 20.74                    | 20.83                           | 20.79                       | 20.79                            | 20.91                     |                        |
| 20              | 256QAM     | 1       | 99        | 20.77                    | 21.00                           | 20.96                       | 20.97                            | 20.70                     |                        |
| 20              | 256QAM     | 50      | 0         | 20.93                    | 20.78                           | 21.17                       | 20.66                            | 20.83                     | 22                     |
| 20              | 256QAM     | 50      | 24        | 21.22                    | 20.81                           | 21.12                       | 20.96                            | 20.73                     |                        |
| 20              | 256QAM     | 50      | 50        | 20.83                    | 20.87                           | 21.12                       | 20.95                            | 20.79                     |                        |
| 20              | 256QAM     | 100     | 0         | 20.92                    | 21.04                           | 21.00                       | 20.79                            | 20.49                     |                        |
| Channel         |            |         |           | 39725                    | 40173                           | 40620                       | 41068                            | 41515                     | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2548.3                          | 2593                        | 2637.8                           | 2682.5                    |                        |
| 15              | QPSK       | 1       | 0         | 24.35                    | 24.11                           | 24.31                       | 24.16                            | 24.34                     | 25.10                  |
| 15              | QPSK       | 1       | 37        | 24.20                    | 23.93                           | 24.17                       | 24.28                            | 24.11                     |                        |
| 15              | QPSK       | 1       | 74        | 24.25                    | 24.07                           | 24.11                       | 24.19                            | 24.11                     |                        |
| 15              | QPSK       | 36      | 0         | 24.13                    | 23.94                           | 24.38                       | 24.05                            | 24.09                     | 25.1                   |
| 15              | QPSK       | 36      | 20        | 24.24                    | 24.18                           | 24.36                       | 24.10                            | 23.95                     |                        |
| 15              | QPSK       | 36      | 39        | 24.14                    | 24.01                           | 24.14                       | 24.06                            | 24.09                     |                        |
| 15              | QPSK       | 75      | 0         | 24.16                    | 24.00                           | 24.23                       | 24.04                            | 23.95                     |                        |
| 15              | 16QAM      | 1       | 0         | 24.22                    | 23.95                           | 24.11                       | 24.21                            | 23.92                     | 25.1                   |
| 15              | 16QAM      | 1       | 37        | 24.11                    | 23.98                           | 24.07                       | 24.19                            | 24.28                     |                        |
| 15              | 16QAM      | 1       | 74        | 23.97                    | 24.14                           | 24.09                       | 24.08                            | 24.02                     |                        |
| 15              | 16QAM      | 36      | 0         | 23.99                    | 23.55                           | 23.89                       | 23.61                            | 23.58                     | 25                     |
| 15              | 16QAM      | 36      | 20        | 23.81                    | 23.39                           | 23.71                       | 23.80                            | 23.72                     |                        |
| 15              | 16QAM      | 36      | 39        | 23.90                    | 23.47                           | 23.65                       | 23.77                            | 23.58                     |                        |
| 15              | 16QAM      | 75      | 0         | 23.70                    | 23.58                           | 23.59                       | 23.57                            | 23.57                     |                        |
| 15              | 64QAM      | 1       | 0         | 23.72                    | 23.42                           | 23.71                       | 23.51                            | 23.47                     | 25                     |
| 15              | 64QAM      | 1       | 37        | 23.56                    | 23.58                           | 23.59                       | 23.70                            | 23.60                     |                        |
| 15              | 64QAM      | 1       | 74        | 23.70                    | 23.52                           | 23.60                       | 23.52                            | 23.64                     |                        |
| 15              | 64QAM      | 36      | 0         | 22.77                    | 22.67                           | 22.81                       | 22.42                            | 22.36                     | 24                     |
| 15              | 64QAM      | 36      | 20        | 22.90                    | 22.44                           | 22.66                       | 22.46                            | 22.51                     |                        |
| 15              | 64QAM      | 36      | 39        | 22.73                    | 22.71                           | 22.81                       | 22.46                            | 22.53                     |                        |
| 15              | 64QAM      | 75      | 0         | 22.77                    | 22.62                           | 22.67                       | 22.44                            | 22.31                     |                        |
| 15              | 256QAM     | 1       | 0         | 20.93                    | 20.86                           | 20.81                       | 20.58                            | 20.78                     | 22                     |
| 15              | 256QAM     | 1       | 37        | 20.88                    | 20.67                           | 20.73                       | 20.64                            | 20.98                     |                        |
| 15              | 256QAM     | 1       | 74        | 20.69                    | 20.87                           | 20.98                       | 20.73                            | 20.77                     |                        |
| 15              | 256QAM     | 36      | 0         | 21.20                    | 20.82                           | 20.91                       | 20.77                            | 20.79                     | 22                     |
| 15              | 256QAM     | 36      | 20        | 21.05                    | 20.81                           | 20.99                       | 20.55                            | 20.75                     |                        |
| 15              | 256QAM     | 36      | 39        | 20.80                    | 20.76                           | 20.85                       | 20.98                            | 20.68                     |                        |



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|                 |        |    |    |        |        |       |         |        |               |
|-----------------|--------|----|----|--------|--------|-------|---------|--------|---------------|
| 15              | 256QAM | 75 | 0  | 21.10  | 20.50  | 20.94 | 20.63   | 20.77  |               |
| Channel         |        |    |    | 39700  | 40160  | 40620 | 41080   | 41540  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2501   | 2547   | 2593  | 2639    | 2685   | (dBm)         |
| 10              | QPSK   | 1  | 0  | 24.12  | 24.07  | 24.25 | 24.18   | 24.17  | 25.10         |
| 10              | QPSK   | 1  | 25 | 24.07  | 24.04  | 24.14 | 24.19   | 24.07  |               |
| 10              | QPSK   | 1  | 49 | 24.15  | 24.09  | 24.11 | 24.21   | 24.13  |               |
| 10              | QPSK   | 25 | 0  | 24.20  | 24.14  | 24.22 | 24.11   | 24.14  | 25.1          |
| 10              | QPSK   | 25 | 12 | 24.25  | 24.07  | 24.36 | 24.08   | 24.04  |               |
| 10              | QPSK   | 25 | 25 | 24.08  | 23.94  | 24.16 | 23.99   | 23.99  |               |
| 10              | QPSK   | 50 | 0  | 24.13  | 23.97  | 24.11 | 23.93   | 24.02  | 25.1          |
| 10              | 16QAM  | 1  | 0  | 23.90  | 24.34  | 24.30 | 24.16   | 24.29  |               |
| 10              | 16QAM  | 1  | 25 | 24.00  | 24.10  | 24.21 | 24.13   | 24.16  |               |
| 10              | 16QAM  | 1  | 49 | 23.94  | 24.15  | 24.17 | 23.90   | 24.13  | 25            |
| 10              | 16QAM  | 25 | 0  | 23.82  | 23.61  | 23.90 | 23.64   | 23.54  |               |
| 10              | 16QAM  | 25 | 12 | 23.82  | 23.65  | 23.62 | 23.77   | 23.51  |               |
| 10              | 16QAM  | 25 | 25 | 23.70  | 23.64  | 23.72 | 23.38   | 23.61  | 25            |
| 10              | 16QAM  | 50 | 0  | 23.49  | 23.66  | 23.74 | 23.34   | 23.49  |               |
| 10              | 64QAM  | 1  | 0  | 23.61  | 23.48  | 23.80 | 23.44   | 23.42  |               |
| 10              | 64QAM  | 1  | 25 | 23.46  | 23.57  | 23.79 | 23.70   | 23.87  | 25            |
| 10              | 64QAM  | 1  | 49 | 23.51  | 23.61  | 23.68 | 23.67   | 23.74  |               |
| 10              | 64QAM  | 25 | 0  | 22.81  | 22.47  | 23.04 | 22.27   | 22.42  |               |
| 10              | 64QAM  | 25 | 12 | 22.79  | 22.61  | 22.43 | 22.29   | 22.28  | 24            |
| 10              | 64QAM  | 25 | 25 | 22.58  | 22.31  | 22.92 | 22.60   | 22.46  |               |
| 10              | 64QAM  | 50 | 0  | 22.76  | 22.59  | 22.53 | 22.35   | 22.58  |               |
| 10              | 256QAM | 1  | 0  | 20.79  | 20.82  | 21.13 | 20.84   | 20.79  | 22            |
| 10              | 256QAM | 1  | 25 | 20.61  | 20.83  | 20.80 | 20.68   | 20.76  |               |
| 10              | 256QAM | 1  | 49 | 20.98  | 20.93  | 21.01 | 20.86   | 20.62  |               |
| 10              | 256QAM | 25 | 0  | 21.26  | 21.07  | 21.26 | 20.79   | 20.51  | 22            |
| 10              | 256QAM | 25 | 12 | 20.98  | 20.86  | 20.84 | 20.66   | 20.69  |               |
| 10              | 256QAM | 25 | 25 | 20.89  | 20.75  | 21.01 | 20.55   | 20.54  |               |
| 10              | 256QAM | 50 | 0  | 20.92  | 20.81  | 20.91 | 20.82   | 20.45  |               |
| Channel         |        |    |    | 39675  | 40148  | 40620 | 41093   | 41565  | Tune-up limit |
| Frequency (MHz) |        |    |    | 2498.5 | 2545.8 | 2593  | 2640.30 | 2687.5 | (dBm)         |
| 5               | QPSK   | 1  | 0  | 24.23  | 24.10  | 24.41 | 24.08   | 24.34  | 25.10         |
| 5               | QPSK   | 1  | 12 | 24.20  | 24.05  | 24.16 | 24.19   | 24.19  |               |
| 5               | QPSK   | 1  | 24 | 24.02  | 23.94  | 24.12 | 24.21   | 24.09  |               |
| 5               | QPSK   | 12 | 0  | 24.17  | 24.21  | 24.33 | 24.07   | 24.02  | 25.1          |
| 5               | QPSK   | 12 | 7  | 24.21  | 24.10  | 24.27 | 24.10   | 24.03  |               |
| 5               | QPSK   | 12 | 13 | 24.05  | 23.98  | 24.04 | 23.97   | 23.93  |               |
| 5               | QPSK   | 25 | 0  | 24.05  | 24.06  | 24.07 | 24.05   | 24.02  | 25.1          |
| 5               | 16QAM  | 1  | 0  | 24.24  | 24.11  | 24.26 | 24.20   | 24.11  |               |
| 5               | 16QAM  | 1  | 12 | 24.20  | 23.94  | 23.97 | 24.25   | 23.93  |               |
| 5               | 16QAM  | 1  | 24 | 24.30  | 24.06  | 24.05 | 24.00   | 23.97  | 25            |
| 5               | 16QAM  | 12 | 0  | 23.44  | 23.36  | 23.61 | 23.64   | 23.40  |               |
| 5               | 16QAM  | 12 | 7  | 23.57  | 23.71  | 23.38 | 23.60   | 23.38  |               |
| 5               | 16QAM  | 12 | 13 | 23.64  | 23.58  | 23.67 | 23.66   | 23.30  | 25            |
| 5               | 16QAM  | 25 | 0  | 23.87  | 23.72  | 23.42 | 23.47   | 23.65  |               |
| 5               | 64QAM  | 1  | 0  | 23.52  | 23.56  | 23.76 | 23.73   | 23.54  |               |
| 5               | 64QAM  | 1  | 12 | 23.60  | 23.37  | 23.63 | 23.34   | 23.38  | 25            |
| 5               | 64QAM  | 1  | 24 | 23.72  | 23.76  | 23.71 | 23.28   | 23.54  |               |
| 5               | 64QAM  | 12 | 0  | 22.74  | 22.37  | 22.72 | 22.30   | 22.37  |               |
| 5               | 64QAM  | 12 | 7  | 22.77  | 22.62  | 22.51 | 22.31   | 22.30  | 24            |
| 5               | 64QAM  | 12 | 13 | 22.38  | 22.38  | 22.72 | 22.52   | 22.05  |               |
| 5               | 64QAM  | 25 | 0  | 22.88  | 22.50  | 22.77 | 22.14   | 22.51  |               |
| 5               | 256QAM | 1  | 0  | 20.79  | 20.47  | 20.98 | 20.69   | 20.61  | 22            |
| 5               | 256QAM | 1  | 12 | 20.72  | 20.75  | 21.09 | 20.87   | 20.80  |               |
| 5               | 256QAM | 1  | 24 | 20.93  | 20.81  | 20.97 | 20.77   | 20.79  |               |
| 5               | 256QAM | 12 | 0  | 21.16  | 20.67  | 21.06 | 20.70   | 20.78  | 22            |
| 5               | 256QAM | 12 | 7  | 20.87  | 20.86  | 20.85 | 20.78   | 20.78  |               |
| 5               | 256QAM | 12 | 13 | 20.87  | 20.89  | 21.07 | 20.96   | 20.58  |               |
| 5               | 256QAM | 25 | 0  | 20.93  | 20.86  | 20.94 | 20.61   | 20.65  |               |

按一下這裡以輸入文字。



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |
| 20              | QPSK       | 1       | 0         | 23.87                 | 23.96                        | 23.92                         | 23.86                  | 25.3                |
| 20              | QPSK       | 1       | 49        | 23.77                 | 23.79                        | 23.77                         | 23.67                  |                     |
| 20              | QPSK       | 1       | 99        | 23.67                 | 23.72                        | 23.67                         | 23.55                  |                     |
| 20              | QPSK       | 50      | 0         | 21.82                 | 21.87                        | 21.85                         | 21.73                  | 23.3                |
| 20              | QPSK       | 50      | 24        | 21.78                 | 21.83                        | 21.79                         | 21.67                  |                     |
| 20              | QPSK       | 50      | 50        | 21.74                 | 21.75                        | 21.72                         | 21.59                  |                     |
| 20              | QPSK       | 100     | 0         | 21.79                 | 21.83                        | 21.80                         | 21.69                  |                     |
| 20              | 16QAM      | 1       | 0         | 22.96                 | 23.03                        | 22.93                         | 22.99                  | 24.3                |
| 20              | 16QAM      | 1       | 49        | 22.81                 | 22.88                        | 22.78                         | 22.84                  |                     |
| 20              | 16QAM      | 1       | 99        | 22.74                 | 22.79                        | 22.77                         | 22.72                  |                     |
| 20              | 16QAM      | 50      | 0         | 20.84                 | 20.88                        | 20.85                         | 20.74                  | 22.3                |
| 20              | 16QAM      | 50      | 24        | 20.78                 | 20.82                        | 20.77                         | 20.68                  |                     |
| 20              | 16QAM      | 50      | 50        | 20.74                 | 20.78                        | 20.75                         | 20.61                  |                     |
| 20              | 16QAM      | 100     | 0         | 20.79                 | 20.84                        | 20.81                         | 20.73                  |                     |
| 20              | 64QAM      | 1       | 0         | 21.73                 | 21.74                        | 21.71                         | 21.62                  | 23.3                |
| 20              | 64QAM      | 1       | 49        | 21.60                 | 21.55                        | 21.59                         | 21.43                  |                     |
| 20              | 64QAM      | 1       | 99        | 21.54                 | 21.52                        | 21.50                         | 21.34                  |                     |
| 20              | 64QAM      | 50      | 0         | 19.82                 | 19.86                        | 19.86                         | 19.78                  | 21.3                |
| 20              | 64QAM      | 50      | 24        | 19.80                 | 19.85                        | 19.81                         | 19.70                  |                     |
| 20              | 64QAM      | 50      | 50        | 19.75                 | 19.78                        | 19.74                         | 19.63                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.80                 | 19.84                        | 19.79                         | 19.73                  |                     |
| 20              | 256QAM     | 1       | 0         | 18.55                 | 18.69                        | 18.62                         | 18.47                  | 20.3                |
| 20              | 256QAM     | 1       | 49        | 18.41                 | 18.71                        | 18.43                         | 18.30                  |                     |
| 20              | 256QAM     | 1       | 99        | 18.34                 | 18.62                        | 18.44                         | 18.24                  |                     |
| 20              | 256QAM     | 50      | 0         | 18.60                 | 18.87                        | 18.67                         | 18.54                  | 20.3                |
| 20              | 256QAM     | 50      | 24        | 18.65                 | 18.87                        | 18.67                         | 18.58                  |                     |
| 20              | 256QAM     | 50      | 50        | 18.60                 | 18.94                        | 18.67                         | 18.56                  |                     |
| 20              | 256QAM     | 100     | 0         | 18.55                 | 18.90                        | 18.64                         | 18.49                  |                     |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |
| 15              | QPSK       | 1       | 0         | 23.80                 | 23.79                        | 23.92                         | 23.66                  | 25.3                |
| 15              | QPSK       | 1       | 37        | 23.65                 | 23.76                        | 23.61                         | 23.62                  |                     |
| 15              | QPSK       | 1       | 74        | 23.57                 | 23.59                        | 23.65                         | 23.51                  |                     |
| 15              | QPSK       | 36      | 0         | 21.82                 | 21.80                        | 21.80                         | 21.55                  | 23.3                |
| 15              | QPSK       | 36      | 20        | 21.73                 | 21.66                        | 21.67                         | 21.54                  |                     |
| 15              | QPSK       | 36      | 39        | 21.63                 | 21.75                        | 21.67                         | 21.45                  |                     |
| 15              | QPSK       | 75      | 0         | 21.67                 | 21.77                        | 21.78                         | 21.55                  | 24.3                |
| 15              | 16QAM      | 1       | 0         | 22.90                 | 22.88                        | 22.78                         | 22.86                  |                     |
| 15              | 16QAM      | 1       | 37        | 22.61                 | 22.70                        | 22.58                         | 22.81                  |                     |
| 15              | 16QAM      | 1       | 74        | 22.54                 | 22.63                        | 22.61                         | 22.56                  | 22.3                |
| 15              | 16QAM      | 36      | 0         | 20.79                 | 20.87                        | 20.78                         | 20.62                  |                     |
| 15              | 16QAM      | 36      | 20        | 20.59                 | 20.74                        | 20.60                         | 20.65                  |                     |
| 15              | 16QAM      | 36      | 39        | 20.66                 | 20.67                        | 20.75                         | 20.58                  |                     |
| 15              | 16QAM      | 75      | 0         | 20.59                 | 20.64                        | 20.74                         | 20.68                  | 23.3                |
| 15              | 64QAM      | 1       | 0         | 21.66                 | 21.71                        | 21.67                         | 21.48                  |                     |
| 15              | 64QAM      | 1       | 37        | 21.52                 | 21.51                        | 21.46                         | 21.41                  |                     |
| 15              | 64QAM      | 1       | 74        | 21.35                 | 21.45                        | 21.41                         | 21.34                  |                     |
| 15              | 64QAM      | 36      | 0         | 19.75                 | 19.76                        | 19.71                         | 19.58                  | 21.3                |
| 15              | 64QAM      | 36      | 20        | 19.66                 | 19.69                        | 19.63                         | 19.59                  |                     |
| 15              | 64QAM      | 36      | 39        | 19.62                 | 19.63                        | 19.59                         | 19.60                  |                     |
| 15              | 64QAM      | 75      | 0         | 19.61                 | 19.69                        | 19.77                         | 19.60                  |                     |
| 15              | 256QAM     | 1       | 0         | 18.53                 | 18.64                        | 18.50                         | 18.33                  | 20.3                |
| 15              | 256QAM     | 1       | 37        | 18.35                 | 18.56                        | 18.34                         | 18.48                  |                     |
| 15              | 256QAM     | 1       | 74        | 18.34                 | 18.43                        | 18.37                         | 18.36                  |                     |
| 15              | 256QAM     | 36      | 0         | 18.55                 | 18.69                        | 18.50                         | 18.44                  | 20.3                |
| 15              | 256QAM     | 36      | 20        | 18.49                 | 18.75                        | 18.65                         | 18.51                  |                     |
| 15              | 256QAM     | 36      | 39        | 18.48                 | 18.76                        | 18.51                         | 18.37                  |                     |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 18.53  | 18.86  | 18.47  | 18.41  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 55290  | 55815  | 56165  | 56690  |                        |
| Frequency (MHz) |        |    |    | 3555   | 3607.5 | 3642.5 | 3695   |                        |
| 10              | QPSK   | 1  | 0  | 23.80  | 23.92  | 23.89  | 23.74  | 25.3                   |
| 10              | QPSK   | 1  | 25 | 23.73  | 23.79  | 23.70  | 23.62  |                        |
| 10              | QPSK   | 1  | 49 | 23.62  | 23.66  | 23.53  | 23.36  |                        |
| 10              | QPSK   | 25 | 0  | 21.62  | 21.84  | 21.70  | 21.62  | 23.3                   |
| 10              | QPSK   | 25 | 12 | 21.65  | 21.82  | 21.62  | 21.63  |                        |
| 10              | QPSK   | 25 | 25 | 21.59  | 21.72  | 21.60  | 21.52  |                        |
| 10              | QPSK   | 50 | 0  | 21.69  | 21.67  | 21.72  | 21.57  |                        |
| 10              | 16QAM  | 1  | 0  | 22.80  | 22.94  | 22.83  | 22.85  | 24.3                   |
| 10              | 16QAM  | 1  | 25 | 22.74  | 22.75  | 22.77  | 22.65  |                        |
| 10              | 16QAM  | 1  | 49 | 22.54  | 22.59  | 22.69  | 22.52  |                        |
| 10              | 16QAM  | 25 | 0  | 20.81  | 20.88  | 20.69  | 20.62  | 22.3                   |
| 10              | 16QAM  | 25 | 12 | 20.67  | 20.74  | 20.66  | 20.50  |                        |
| 10              | 16QAM  | 25 | 25 | 20.55  | 20.63  | 20.67  | 20.51  |                        |
| 10              | 16QAM  | 50 | 0  | 20.70  | 20.68  | 20.81  | 20.62  |                        |
| 10              | 64QAM  | 1  | 0  | 21.53  | 21.69  | 21.63  | 21.51  | 23.3                   |
| 10              | 64QAM  | 1  | 25 | 21.40  | 21.44  | 21.43  | 21.39  |                        |
| 10              | 64QAM  | 1  | 49 | 21.53  | 21.48  | 21.35  | 21.41  |                        |
| 10              | 64QAM  | 25 | 0  | 19.72  | 19.72  | 19.70  | 19.70  | 21.3                   |
| 10              | 64QAM  | 25 | 12 | 19.77  | 19.65  | 19.68  | 19.70  |                        |
| 10              | 64QAM  | 25 | 25 | 19.64  | 19.65  | 19.54  | 19.55  |                        |
| 10              | 64QAM  | 50 | 0  | 19.72  | 19.83  | 19.70  | 19.72  |                        |
| 10              | 256QAM | 1  | 0  | 18.35  | 18.50  | 18.50  | 18.44  | 20.3                   |
| 10              | 256QAM | 1  | 25 | 18.38  | 18.68  | 18.33  | 18.33  |                        |
| 10              | 256QAM | 1  | 49 | 18.32  | 18.51  | 18.30  | 18.31  |                        |
| 10              | 256QAM | 25 | 0  | 18.60  | 18.74  | 18.55  | 18.37  | 20.3                   |
| 10              | 256QAM | 25 | 12 | 18.65  | 18.77  | 18.64  | 18.38  |                        |
| 10              | 256QAM | 25 | 25 | 18.42  | 18.89  | 18.67  | 18.40  |                        |
| 10              | 256QAM | 50 | 0  | 18.38  | 18.71  | 18.55  | 18.43  |                        |
| Channel         |        |    |    | 55265  | 55810  | 56170  | 56715  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 3552.5 | 3607   | 3643   | 3697.5 |                        |
| 5               | QPSK   | 1  | 0  | 23.69  | 23.89  | 23.85  | 23.69  | 25.3                   |
| 5               | QPSK   | 1  | 12 | 23.60  | 23.79  | 23.65  | 23.49  |                        |
| 5               | QPSK   | 1  | 24 | 23.49  | 23.52  | 23.49  | 23.55  |                        |
| 5               | QPSK   | 12 | 0  | 21.68  | 21.70  | 21.84  | 21.66  | 23.3                   |
| 5               | QPSK   | 12 | 7  | 21.61  | 21.80  | 21.62  | 21.67  |                        |
| 5               | QPSK   | 12 | 13 | 21.65  | 21.74  | 21.67  | 21.51  |                        |
| 5               | QPSK   | 25 | 0  | 21.66  | 21.82  | 21.74  | 21.69  |                        |
| 5               | 16QAM  | 1  | 0  | 22.86  | 23.02  | 22.84  | 22.95  | 24.3                   |
| 5               | 16QAM  | 1  | 12 | 22.65  | 22.68  | 22.64  | 22.65  |                        |
| 5               | 16QAM  | 1  | 24 | 22.56  | 22.76  | 22.57  | 22.69  |                        |
| 5               | 16QAM  | 12 | 0  | 20.81  | 20.88  | 20.67  | 20.56  | 22.3                   |
| 5               | 16QAM  | 12 | 7  | 20.64  | 20.71  | 20.69  | 20.54  |                        |
| 5               | 16QAM  | 12 | 13 | 20.61  | 20.71  | 20.57  | 20.54  |                        |
| 5               | 16QAM  | 25 | 0  | 20.60  | 20.83  | 20.62  | 20.56  |                        |
| 5               | 64QAM  | 1  | 0  | 21.70  | 21.72  | 21.67  | 21.44  | 23.3                   |
| 5               | 64QAM  | 1  | 12 | 21.45  | 21.43  | 21.41  | 21.39  |                        |
| 5               | 64QAM  | 1  | 24 | 21.54  | 21.48  | 21.32  | 21.48  |                        |
| 5               | 64QAM  | 12 | 0  | 19.64  | 19.76  | 19.77  | 19.65  | 21.3                   |
| 5               | 64QAM  | 12 | 7  | 19.69  | 19.77  | 19.76  | 19.70  |                        |
| 5               | 64QAM  | 12 | 13 | 19.62  | 19.76  | 19.72  | 19.48  |                        |
| 5               | 64QAM  | 25 | 0  | 19.62  | 19.78  | 19.75  | 19.62  |                        |
| 5               | 256QAM | 1  | 0  | 18.37  | 18.51  | 18.49  | 18.42  | 20.3                   |
| 5               | 256QAM | 1  | 12 | 18.47  | 18.58  | 18.34  | 18.37  |                        |
| 5               | 256QAM | 1  | 24 | 18.48  | 18.59  | 18.45  | 18.37  |                        |
| 5               | 256QAM | 12 | 0  | 18.51  | 18.79  | 18.53  | 18.50  | 20.3                   |
| 5               | 256QAM | 12 | 7  | 18.58  | 18.70  | 18.48  | 18.38  |                        |
| 5               | 256QAM | 12 | 13 | 18.58  | 18.75  | 18.60  | 18.49  |                        |
| 5               | 256QAM | 25 | 0  | 18.44  | 18.86  | 18.44  | 18.47  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  | 17.5                |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |
| 20              | QPSK       | 1       | 0         | 17.49                 | 17.42                        | 17.48                         | 17.37                  | 17.5                |
| 20              | QPSK       | 1       | 49        | 17.45                 | 17.41                        | 17.44                         | 17.37                  |                     |
| 20              | QPSK       | 1       | 99        | 17.43                 | 17.33                        | 17.33                         | 17.35                  |                     |
| 20              | QPSK       | 50      | 0         | 17.48                 | 17.43                        | 17.46                         | 17.41                  | 17.5                |
| 20              | QPSK       | 50      | 24        | 17.44                 | 17.43                        | 17.43                         | 17.38                  |                     |
| 20              | QPSK       | 50      | 50        | 17.45                 | 17.40                        | 17.40                         | 17.40                  |                     |
| 20              | QPSK       | 100     | 0         | 17.47                 | 17.42                        | 17.46                         | 17.34                  | 17.5                |
| 20              | 16QAM      | 1       | 0         | 17.42                 | 17.40                        | 17.40                         | 17.38                  |                     |
| 20              | 16QAM      | 1       | 49        | 17.46                 | 17.47                        | 17.47                         | 17.36                  |                     |
| 20              | 16QAM      | 1       | 99        | 17.40                 | 17.40                        | 17.40                         | 17.41                  | 17.5                |
| 20              | 16QAM      | 50      | 0         | 17.46                 | 17.47                        | 17.47                         | 17.43                  |                     |
| 20              | 16QAM      | 50      | 24        | 17.40                 | 17.39                        | 17.39                         | 17.40                  |                     |
| 20              | 16QAM      | 50      | 50        | 17.46                 | 17.34                        | 17.34                         | 17.47                  | 17.5                |
| 20              | 16QAM      | 100     | 0         | 17.43                 | 17.41                        | 17.41                         | 17.36                  |                     |
| 20              | 64QAM      | 1       | 0         | 17.47                 | 17.41                        | 17.41                         | 17.37                  |                     |
| 20              | 64QAM      | 1       | 49        | 17.47                 | 17.43                        | 17.43                         | 17.44                  | 17.5                |
| 20              | 64QAM      | 1       | 99        | 17.48                 | 17.41                        | 17.41                         | 17.37                  |                     |
| 20              | 64QAM      | 50      | 0         | 17.44                 | 17.37                        | 17.37                         | 17.43                  |                     |
| 20              | 64QAM      | 50      | 24        | 17.40                 | 17.38                        | 17.38                         | 17.40                  | 17.5                |
| 20              | 64QAM      | 50      | 50        | 17.44                 | 17.42                        | 17.42                         | 17.37                  |                     |
| 20              | 64QAM      | 100     | 0         | 17.40                 | 17.36                        | 17.36                         | 17.38                  |                     |
| 20              | 256QAM     | 1       | 0         | 17.47                 | 17.38                        | 17.38                         | 17.39                  | 17.5                |
| 20              | 256QAM     | 1       | 49        | 17.45                 | 17.39                        | 17.39                         | 17.42                  |                     |
| 20              | 256QAM     | 1       | 99        | 17.43                 | 17.38                        | 17.38                         | 17.41                  |                     |
| 20              | 256QAM     | 50      | 0         | 17.18                 | 17.20                        | 17.14                         | 16.96                  | 17.5                |
| 20              | 256QAM     | 50      | 24        | 17.04                 | 17.16                        | 17.09                         | 16.93                  |                     |
| 20              | 256QAM     | 50      | 50        | 17.00                 | 17.04                        | 17.02                         | 16.88                  |                     |
| 20              | 256QAM     | 100     | 0         | 17.07                 | 17.05                        | 17.10                         | 16.88                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  |                     |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 | 17.5                |
| 15              | QPSK       | 1       | 0         | 17.40                 | 17.41                        | 17.44                         | 17.18                  |                     |
| 15              | QPSK       | 1       | 37        | 17.45                 | 17.30                        | 17.37                         | 17.36                  | 17.5                |
| 15              | QPSK       | 1       | 74        | 17.25                 | 17.22                        | 17.19                         | 17.32                  |                     |
| 15              | QPSK       | 36      | 0         | 17.43                 | 17.47                        | 17.44                         | 17.35                  |                     |
| 15              | QPSK       | 36      | 20        | 17.36                 | 17.29                        | 17.27                         | 17.35                  | 17.5                |
| 15              | QPSK       | 36      | 39        | 17.33                 | 17.38                        | 17.40                         | 17.20                  |                     |
| 15              | QPSK       | 75      | 0         | 17.42                 | 17.34                        | 17.47                         | 17.14                  |                     |
| 15              | 16QAM      | 1       | 0         | 17.37                 | 17.44                        | 17.36                         | 17.23                  | 17.5                |
| 15              | 16QAM      | 1       | 37        | 17.38                 | 17.38                        | 17.28                         | 17.30                  |                     |
| 15              | 16QAM      | 1       | 74        | 17.46                 | 17.33                        | 17.34                         | 17.41                  |                     |
| 15              | 16QAM      | 36      | 0         | 17.35                 | 17.28                        | 17.46                         | 17.41                  | 17.5                |
| 15              | 16QAM      | 36      | 20        | 17.30                 | 17.32                        | 17.38                         | 17.38                  |                     |
| 15              | 16QAM      | 36      | 39        | 17.38                 | 17.17                        | 17.20                         | 17.29                  |                     |
| 15              | 16QAM      | 75      | 0         | 17.42                 | 17.26                        | 17.24                         | 17.36                  | 17.5                |
| 15              | 64QAM      | 1       | 0         | 17.39                 | 17.41                        | 17.27                         | 17.27                  |                     |
| 15              | 64QAM      | 1       | 37        | 17.41                 | 17.40                        | 17.36                         | 17.30                  |                     |
| 15              | 64QAM      | 1       | 74        | 17.46                 | 17.37                        | 17.31                         | 17.20                  | 17.5                |
| 15              | 64QAM      | 36      | 0         | 17.42                 | 17.26                        | 17.33                         | 17.33                  |                     |
| 15              | 64QAM      | 36      | 20        | 17.45                 | 17.31                        | 17.31                         | 17.31                  |                     |
| 15              | 64QAM      | 36      | 39        | 17.39                 | 17.40                        | 17.39                         | 17.33                  | 17.5                |
| 15              | 64QAM      | 75      | 0         | 17.45                 | 17.31                        | 17.18                         | 17.18                  |                     |
| 15              | 256QAM     | 1       | 0         | 17.44                 | 17.35                        | 17.19                         | 17.24                  |                     |
| 15              | 256QAM     | 1       | 37        | 17.44                 | 17.32                        | 17.21                         | 17.34                  | 17.5                |
| 15              | 256QAM     | 1       | 74        | 17.36                 | 17.30                        | 17.23                         | 17.35                  |                     |
| 15              | 256QAM     | 36      | 0         | 17.07                 | 17.13                        | 16.97                         | 16.87                  |                     |
| 15              | 256QAM     | 36      | 20        | 16.86                 | 17.01                        | 17.06                         | 16.90                  | 17.5                |
| 15              | 256QAM     | 36      | 39        | 16.95                 | 17.02                        | 16.99                         | 16.79                  |                     |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 16.95  | 16.86  | 17.04  | 16.83  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 55290  | 55815  | 56165  | 56690  |                        |
| Frequency (MHz) |        |    |    | 3555   | 3607.5 | 3642.5 | 3695   |                        |
| 10              | QPSK   | 1  | 0  | 17.41  | 17.45  | 17.33  | 17.31  | 17.5                   |
| 10              | QPSK   | 1  | 25 | 17.45  | 17.41  | 17.31  | 17.19  |                        |
| 10              | QPSK   | 1  | 49 | 17.40  | 17.32  | 17.22  | 17.28  |                        |
| 10              | QPSK   | 25 | 0  | 17.47  | 17.44  | 17.47  | 17.22  | 17.5                   |
| 10              | QPSK   | 25 | 12 | 17.41  | 17.31  | 17.27  | 17.35  |                        |
| 10              | QPSK   | 25 | 25 | 17.29  | 17.34  | 17.46  | 17.28  |                        |
| 10              | QPSK   | 50 | 0  | 17.48  | 17.48  | 17.46  | 17.32  |                        |
| 10              | 16QAM  | 1  | 0  | 17.44  | 17.44  | 17.37  | 17.36  | 17.5                   |
| 10              | 16QAM  | 1  | 25 | 17.40  | 17.47  | 17.43  | 17.24  |                        |
| 10              | 16QAM  | 1  | 49 | 17.45  | 17.45  | 17.43  | 17.46  |                        |
| 10              | 16QAM  | 25 | 0  | 17.32  | 17.33  | 17.37  | 17.40  | 17.5                   |
| 10              | 16QAM  | 25 | 12 | 17.43  | 17.29  | 17.26  | 17.20  |                        |
| 10              | 16QAM  | 25 | 25 | 17.43  | 17.27  | 17.33  | 17.35  |                        |
| 10              | 16QAM  | 50 | 0  | 17.33  | 17.29  | 17.41  | 17.22  |                        |
| 10              | 64QAM  | 1  | 0  | 17.32  | 17.29  | 17.34  | 17.30  | 17.5                   |
| 10              | 64QAM  | 1  | 25 | 17.45  | 17.41  | 17.40  | 17.38  |                        |
| 10              | 64QAM  | 1  | 49 | 17.42  | 17.30  | 17.23  | 17.34  |                        |
| 10              | 64QAM  | 25 | 0  | 17.43  | 17.17  | 17.29  | 17.35  | 17.5                   |
| 10              | 64QAM  | 25 | 12 | 17.44  | 17.34  | 17.35  | 17.36  |                        |
| 10              | 64QAM  | 25 | 25 | 17.26  | 17.39  | 17.44  | 17.27  |                        |
| 10              | 64QAM  | 50 | 0  | 17.41  | 17.26  | 17.31  | 17.21  |                        |
| 10              | 256QAM | 1  | 0  | 17.46  | 17.32  | 17.26  | 17.29  | 17.5                   |
| 10              | 256QAM | 1  | 25 | 17.47  | 17.20  | 17.27  | 17.32  |                        |
| 10              | 256QAM | 1  | 49 | 17.48  | 17.18  | 17.38  | 17.23  |                        |
| 10              | 256QAM | 25 | 0  | 17.14  | 17.16  | 17.04  | 16.83  | 17.5                   |
| 10              | 256QAM | 25 | 12 | 16.90  | 17.15  | 16.97  | 16.93  |                        |
| 10              | 256QAM | 25 | 25 | 16.84  | 16.91  | 16.87  | 16.73  |                        |
| 10              | 256QAM | 50 | 0  | 16.92  | 16.86  | 16.93  | 16.71  |                        |
| Channel         |        |    |    | 55265  | 55810  | 56170  | 56715  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 3552.5 | 3607   | 3643   | 3697.5 |                        |
| 5               | QPSK   | 1  | 0  | 17.39  | 17.33  | 17.44  | 17.35  | 17.5                   |
| 5               | QPSK   | 1  | 12 | 17.39  | 17.35  | 17.31  | 17.29  |                        |
| 5               | QPSK   | 1  | 24 | 17.36  | 17.31  | 17.24  | 17.21  |                        |
| 5               | QPSK   | 12 | 0  | 17.43  | 17.35  | 17.37  | 17.21  | 17.5                   |
| 5               | QPSK   | 12 | 7  | 17.35  | 17.26  | 17.26  | 17.36  |                        |
| 5               | QPSK   | 12 | 13 | 17.29  | 17.45  | 17.44  | 17.34  |                        |
| 5               | QPSK   | 25 | 0  | 17.42  | 17.31  | 17.36  | 17.20  |                        |
| 5               | 16QAM  | 1  | 0  | 17.41  | 17.38  | 17.31  | 17.29  | 17.5                   |
| 5               | 16QAM  | 1  | 12 | 17.42  | 17.34  | 17.42  | 17.33  |                        |
| 5               | 16QAM  | 1  | 24 | 17.45  | 17.34  | 17.39  | 17.31  |                        |
| 5               | 16QAM  | 12 | 0  | 17.33  | 17.44  | 17.45  | 17.46  | 17.5                   |
| 5               | 16QAM  | 12 | 7  | 17.38  | 17.39  | 17.33  | 17.36  |                        |
| 5               | 16QAM  | 12 | 13 | 17.40  | 17.24  | 17.30  | 17.41  |                        |
| 5               | 16QAM  | 25 | 0  | 17.40  | 17.22  | 17.23  | 17.25  |                        |
| 5               | 64QAM  | 1  | 0  | 17.33  | 17.30  | 17.34  | 17.26  | 17.5                   |
| 5               | 64QAM  | 1  | 12 | 17.36  | 17.29  | 17.25  | 17.44  |                        |
| 5               | 64QAM  | 1  | 24 | 17.42  | 17.41  | 17.28  | 17.35  |                        |
| 5               | 64QAM  | 12 | 0  | 17.47  | 17.37  | 17.35  | 17.34  | 17.5                   |
| 5               | 64QAM  | 12 | 7  | 17.42  | 17.30  | 17.24  | 17.32  |                        |
| 5               | 64QAM  | 12 | 13 | 17.41  | 17.42  | 17.40  | 17.31  |                        |
| 5               | 64QAM  | 25 | 0  | 17.43  | 17.21  | 17.21  | 17.18  |                        |
| 5               | 256QAM | 1  | 0  | 17.37  | 17.27  | 17.36  | 17.34  | 17.5                   |
| 5               | 256QAM | 1  | 12 | 17.43  | 17.24  | 17.27  | 17.42  |                        |
| 5               | 256QAM | 1  | 24 | 17.35  | 17.35  | 17.33  | 17.33  |                        |
| 5               | 256QAM | 12 | 0  | 17.06  | 17.08  | 16.99  | 16.84  | 17.5                   |
| 5               | 256QAM | 12 | 7  | 17.04  | 17.06  | 16.94  | 16.81  |                        |
| 5               | 256QAM | 12 | 13 | 16.92  | 16.90  | 16.94  | 16.76  |                        |
| 5               | 256QAM | 25 | 0  | 17.07  | 16.85  | 16.97  | 16.74  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |
| 20              | QPSK       | 1       | 0         | 22.28                 | 22.27                        | 22.15                         | 22.10                  | 22.3                |
| 20              | QPSK       | 1       | 49        | 22.00                 | 22.07                        | 22.12                         | 22.09                  |                     |
| 20              | QPSK       | 1       | 99        | 22.11                 | 22.11                        | 22.00                         | 21.98                  |                     |
| 20              | QPSK       | 50      | 0         | 22.08                 | 22.03                        | 21.99                         | 21.86                  | 22.3                |
| 20              | QPSK       | 50      | 24        | 21.94                 | 21.94                        | 21.93                         | 21.79                  |                     |
| 20              | QPSK       | 50      | 50        | 21.87                 | 21.90                        | 21.85                         | 21.71                  |                     |
| 20              | QPSK       | 100     | 0         | 21.90                 | 21.98                        | 21.92                         | 21.81                  |                     |
| 20              | 16QAM      | 1       | 0         | 22.00                 | 22.13                        | 22.08                         | 22.06                  | 22.3                |
| 20              | 16QAM      | 1       | 49        | 22.14                 | 22.10                        | 22.03                         | 21.99                  |                     |
| 20              | 16QAM      | 1       | 99        | 22.15                 | 22.20                        | 22.11                         | 22.00                  |                     |
| 20              | 16QAM      | 50      | 0         | 21.00                 | 21.02                        | 20.98                         | 20.89                  |                     |
| 20              | 16QAM      | 50      | 24        | 20.94                 | 20.97                        | 20.90                         | 20.81                  | 22.3                |
| 20              | 16QAM      | 50      | 50        | 20.88                 | 20.90                        | 20.86                         | 20.74                  |                     |
| 20              | 16QAM      | 100     | 0         | 20.95                 | 20.99                        | 20.95                         | 20.84                  |                     |
| 20              | 64QAM      | 1       | 0         | 21.96                 | 21.97                        | 21.93                         | 21.91                  | 22.3                |
| 20              | 64QAM      | 1       | 49        | 21.89                 | 21.93                        | 21.88                         | 21.72                  |                     |
| 20              | 64QAM      | 1       | 99        | 21.79                 | 21.77                        | 21.70                         | 21.55                  |                     |
| 20              | 64QAM      | 50      | 0         | 19.98                 | 20.01                        | 20.01                         | 19.88                  | 21.3                |
| 20              | 64QAM      | 50      | 24        | 19.95                 | 19.97                        | 19.93                         | 19.82                  |                     |
| 20              | 64QAM      | 50      | 50        | 19.88                 | 19.89                        | 19.86                         | 19.74                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.93                 | 19.95                        | 19.94                         | 19.82                  |                     |
| 20              | 256QAM     | 1       | 0         | 18.73                 | 18.79                        | 18.75                         | 18.66                  | 20.3                |
| 20              | 256QAM     | 1       | 49        | 18.53                 | 18.85                        | 18.55                         | 18.45                  |                     |
| 20              | 256QAM     | 1       | 99        | 18.45                 | 18.82                        | 18.57                         | 18.34                  |                     |
| 20              | 256QAM     | 50      | 0         | 18.73                 | 19.06                        | 18.80                         | 18.67                  | 20.3                |
| 20              | 256QAM     | 50      | 24        | 18.83                 | 19.04                        | 18.80                         | 18.71                  |                     |
| 20              | 256QAM     | 50      | 50        | 18.74                 | 19.13                        | 18.84                         | 18.70                  |                     |
| 20              | 256QAM     | 100     | 0         | 18.75                 | 19.09                        | 18.81                         | 18.63                  |                     |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |
| 15              | QPSK       | 1       | 0         | 22.03                 | 22.18                        | 22.08                         | 22.00                  | 22.3                |
| 15              | QPSK       | 1       | 37        | 21.84                 | 22.06                        | 21.97                         | 22.08                  |                     |
| 15              | QPSK       | 1       | 74        | 21.99                 | 22.11                        | 21.89                         | 21.87                  |                     |
| 15              | QPSK       | 36      | 0         | 21.89                 | 21.95                        | 21.81                         | 21.70                  | 22.3                |
| 15              | QPSK       | 36      | 20        | 21.91                 | 21.82                        | 21.91                         | 21.60                  |                     |
| 15              | QPSK       | 36      | 39        | 21.73                 | 21.81                        | 21.85                         | 21.54                  |                     |
| 15              | QPSK       | 75      | 0         | 21.77                 | 21.95                        | 21.82                         | 21.73                  |                     |
| 15              | 16QAM      | 1       | 0         | 21.98                 | 21.95                        | 22.05                         | 22.02                  | 22.3                |
| 15              | 16QAM      | 1       | 37        | 22.00                 | 22.03                        | 21.91                         | 21.81                  |                     |
| 15              | 16QAM      | 1       | 74        | 22.08                 | 22.20                        | 21.95                         | 21.94                  |                     |
| 15              | 16QAM      | 36      | 0         | 20.87                 | 20.91                        | 20.79                         | 20.89                  | 22.3                |
| 15              | 16QAM      | 36      | 20        | 20.89                 | 20.81                        | 20.86                         | 20.67                  |                     |
| 15              | 16QAM      | 36      | 39        | 20.77                 | 20.83                        | 20.86                         | 20.59                  |                     |
| 15              | 16QAM      | 75      | 0         | 20.84                 | 20.84                        | 20.84                         | 20.65                  |                     |
| 15              | 64QAM      | 1       | 0         | 21.90                 | 21.87                        | 21.77                         | 21.78                  | 22.3                |
| 15              | 64QAM      | 1       | 37        | 21.89                 | 21.77                        | 21.80                         | 21.69                  |                     |
| 15              | 64QAM      | 1       | 74        | 21.77                 | 21.60                        | 21.50                         | 21.47                  |                     |
| 15              | 64QAM      | 36      | 0         | 19.90                 | 19.95                        | 19.93                         | 19.84                  | 21.3                |
| 15              | 64QAM      | 36      | 20        | 19.76                 | 19.80                        | 19.78                         | 19.80                  |                     |
| 15              | 64QAM      | 36      | 39        | 19.72                 | 19.81                        | 19.78                         | 19.61                  |                     |
| 15              | 64QAM      | 75      | 0         | 19.81                 | 19.85                        | 19.91                         | 19.64                  |                     |
| 15              | 256QAM     | 1       | 0         | 18.70                 | 18.74                        | 18.68                         | 18.66                  | 20.3                |
| 15              | 256QAM     | 1       | 37        | 18.46                 | 18.83                        | 18.49                         | 18.43                  |                     |
| 15              | 256QAM     | 1       | 74        | 18.38                 | 18.75                        | 18.53                         | 18.32                  |                     |
| 15              | 256QAM     | 36      | 0         | 18.69                 | 18.99                        | 18.75                         | 18.62                  | 20.3                |
| 15              | 256QAM     | 36      | 20        | 18.82                 | 19.00                        | 18.77                         | 18.67                  |                     |
| 15              | 256QAM     | 36      | 39        | 18.68                 | 19.08                        | 18.76                         | 18.60                  |                     |



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Report No. : FA3D2001D

|                 |        |    |    |        |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 18.65  | 19.00  | 18.72  | 18.59  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 55290  | 55815  | 56165  | 56690  |                        |
| Frequency (MHz) |        |    |    | 3555   | 3607.5 | 3642.5 | 3695   |                        |
| 10              | QPSK   | 1  | 0  | 22.15  | 22.25  | 22.08  | 21.95  | 22.3                   |
| 10              | QPSK   | 1  | 25 | 21.89  | 22.02  | 22.04  | 21.94  |                        |
| 10              | QPSK   | 1  | 49 | 21.92  | 21.99  | 21.99  | 21.89  |                        |
| 10              | QPSK   | 25 | 0  | 21.95  | 21.88  | 21.87  | 21.75  | 22.3                   |
| 10              | QPSK   | 25 | 12 | 21.75  | 21.89  | 21.83  | 21.59  |                        |
| 10              | QPSK   | 25 | 25 | 21.77  | 21.90  | 21.72  | 21.71  |                        |
| 10              | QPSK   | 50 | 0  | 21.73  | 21.93  | 21.73  | 21.76  |                        |
| 10              | 16QAM  | 1  | 0  | 21.83  | 22.06  | 21.92  | 21.89  | 22.3                   |
| 10              | 16QAM  | 1  | 25 | 21.95  | 22.05  | 21.98  | 21.98  |                        |
| 10              | 16QAM  | 1  | 49 | 22.09  | 22.13  | 22.08  | 21.88  |                        |
| 10              | 16QAM  | 25 | 0  | 20.82  | 20.85  | 20.93  | 20.79  | 22.3                   |
| 10              | 16QAM  | 25 | 12 | 20.79  | 20.84  | 20.71  | 20.78  |                        |
| 10              | 16QAM  | 25 | 25 | 20.87  | 20.76  | 20.81  | 20.64  |                        |
| 10              | 16QAM  | 50 | 0  | 20.86  | 20.94  | 20.80  | 20.65  |                        |
| 10              | 64QAM  | 1  | 0  | 21.76  | 21.80  | 21.79  | 21.74  | 22.3                   |
| 10              | 64QAM  | 1  | 25 | 21.77  | 21.93  | 21.68  | 21.53  |                        |
| 10              | 64QAM  | 1  | 49 | 21.79  | 21.59  | 21.50  | 21.45  |                        |
| 10              | 64QAM  | 25 | 0  | 19.89  | 19.83  | 19.99  | 19.79  | 21.3                   |
| 10              | 64QAM  | 25 | 12 | 19.87  | 19.78  | 19.79  | 19.82  |                        |
| 10              | 64QAM  | 25 | 25 | 19.86  | 19.87  | 19.76  | 19.72  |                        |
| 10              | 64QAM  | 50 | 0  | 19.74  | 19.88  | 19.88  | 19.66  |                        |
| 10              | 256QAM | 1  | 0  | 18.73  | 18.78  | 18.70  | 18.63  | 20.3                   |
| 10              | 256QAM | 1  | 25 | 18.44  | 18.78  | 18.50  | 18.40  |                        |
| 10              | 256QAM | 1  | 49 | 18.41  | 18.79  | 18.53  | 18.32  |                        |
| 10              | 256QAM | 25 | 0  | 18.70  | 19.06  | 18.77  | 18.65  | 20.3                   |
| 10              | 256QAM | 25 | 12 | 18.74  | 18.96  | 18.79  | 18.63  |                        |
| 10              | 256QAM | 25 | 25 | 18.64  | 19.12  | 18.76  | 18.70  |                        |
| 10              | 256QAM | 50 | 0  | 18.66  | 19.09  | 18.74  | 18.59  |                        |
| Channel         |        |    |    | 55265  | 55810  | 56170  | 56715  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 3552.5 | 3607   | 3643   | 3697.5 |                        |
| 5               | QPSK   | 1  | 0  | 22.10  | 22.07  | 21.98  | 21.98  | 22.3                   |
| 5               | QPSK   | 1  | 12 | 21.82  | 21.90  | 22.10  | 21.94  |                        |
| 5               | QPSK   | 1  | 24 | 22.07  | 21.91  | 21.81  | 21.92  |                        |
| 5               | QPSK   | 12 | 0  | 21.94  | 21.85  | 21.93  | 21.80  | 22.3                   |
| 5               | QPSK   | 12 | 7  | 21.88  | 21.92  | 21.87  | 21.60  |                        |
| 5               | QPSK   | 12 | 13 | 21.69  | 21.77  | 21.81  | 21.66  |                        |
| 5               | QPSK   | 25 | 0  | 21.78  | 21.78  | 21.74  | 21.72  |                        |
| 5               | 16QAM  | 1  | 0  | 21.88  | 22.03  | 21.98  | 22.06  | 22.3                   |
| 5               | 16QAM  | 1  | 12 | 22.12  | 22.05  | 22.00  | 21.81  |                        |
| 5               | 16QAM  | 1  | 24 | 22.13  | 22.00  | 22.01  | 21.93  |                        |
| 5               | 16QAM  | 12 | 0  | 20.83  | 20.87  | 20.86  | 20.83  | 22.3                   |
| 5               | 16QAM  | 12 | 7  | 20.86  | 20.84  | 20.85  | 20.64  |                        |
| 5               | 16QAM  | 12 | 13 | 20.72  | 20.70  | 20.68  | 20.65  |                        |
| 5               | 16QAM  | 25 | 0  | 20.93  | 20.84  | 20.90  | 20.74  |                        |
| 5               | 64QAM  | 1  | 0  | 21.84  | 21.93  | 21.92  | 21.90  | 22.3                   |
| 5               | 64QAM  | 1  | 12 | 21.88  | 21.85  | 21.88  | 21.63  |                        |
| 5               | 64QAM  | 1  | 24 | 21.75  | 21.67  | 21.51  | 21.50  |                        |
| 5               | 64QAM  | 12 | 0  | 19.87  | 19.85  | 19.84  | 19.83  | 21.3                   |
| 5               | 64QAM  | 12 | 7  | 19.92  | 19.93  | 19.86  | 19.71  |                        |
| 5               | 64QAM  | 12 | 13 | 19.84  | 19.71  | 19.66  | 19.64  |                        |
| 5               | 64QAM  | 25 | 0  | 19.86  | 19.92  | 19.83  | 19.68  |                        |
| 5               | 256QAM | 1  | 0  | 18.73  | 18.69  | 18.71  | 18.66  | 20.3                   |
| 5               | 256QAM | 1  | 12 | 18.52  | 18.81  | 18.49  | 18.37  |                        |
| 5               | 256QAM | 1  | 24 | 18.35  | 18.72  | 18.47  | 18.39  |                        |
| 5               | 256QAM | 12 | 0  | 18.70  | 18.98  | 18.76  | 18.66  | 20.3                   |
| 5               | 256QAM | 12 | 7  | 18.79  | 19.04  | 18.73  | 18.70  |                        |
| 5               | 256QAM | 12 | 13 | 18.67  | 19.03  | 18.75  | 18.62  |                        |
| 5               | 256QAM | 25 | 0  | 18.74  | 19.08  | 18.79  | 18.61  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |
| 20              | QPSK       | 1       | 0         | 20.23                 | 20.29                        | 20.16                         | 20.30                  | 21.3                |
| 20              | QPSK       | 1       | 49        | 20.03                 | 20.17                        | 20.09                         | 19.84                  |                     |
| 20              | QPSK       | 1       | 99        | 20.02                 | 20.10                        | 20.00                         | 19.76                  |                     |
| 20              | QPSK       | 50      | 0         | 20.20                 | 20.13                        | 20.11                         | 20.25                  | 21.3                |
| 20              | QPSK       | 50      | 24        | 20.14                 | 20.13                        | 20.13                         | 19.97                  |                     |
| 20              | QPSK       | 50      | 50        | 19.99                 | 20.12                        | 20.15                         | 19.87                  |                     |
| 20              | QPSK       | 100     | 0         | 20.23                 | 20.17                        | 20.05                         | 20.24                  | 21.3                |
| 20              | 16QAM      | 1       | 0         | 20.25                 | 20.19                        | 20.24                         | 20.24                  |                     |
| 20              | 16QAM      | 1       | 49        | 20.21                 | 20.20                        | 20.14                         | 20.07                  |                     |
| 20              | 16QAM      | 1       | 99        | 20.13                 | 20.20                        | 20.02                         | 19.87                  | 21.3                |
| 20              | 16QAM      | 50      | 0         | 20.06                 | 20.08                        | 20.16                         | 20.05                  |                     |
| 20              | 16QAM      | 50      | 24        | 20.09                 | 19.99                        | 19.99                         | 19.93                  |                     |
| 20              | 16QAM      | 50      | 50        | 20.07                 | 19.91                        | 20.07                         | 19.78                  | 21.3                |
| 20              | 16QAM      | 100     | 0         | 19.99                 | 20.14                        | 20.04                         | 19.99                  |                     |
| 20              | 64QAM      | 1       | 0         | 20.18                 | 20.16                        | 20.13                         | 19.72                  |                     |
| 20              | 64QAM      | 1       | 49        | 20.15                 | 20.15                        | 19.90                         | 19.66                  | 21.3                |
| 20              | 64QAM      | 1       | 99        | 20.01                 | 19.92                        | 19.92                         | 19.52                  |                     |
| 20              | 64QAM      | 50      | 0         | 18.99                 | 18.86                        | 18.82                         | 18.74                  |                     |
| 20              | 64QAM      | 50      | 24        | 18.74                 | 18.86                        | 18.86                         | 18.58                  | 20.3                |
| 20              | 64QAM      | 50      | 50        | 18.85                 | 18.86                        | 18.72                         | 18.64                  |                     |
| 20              | 64QAM      | 100     | 0         | 18.83                 | 18.80                        | 18.89                         | 18.67                  |                     |
| 20              | 256QAM     | 1       | 0         | 17.63                 | 17.67                        | 17.56                         | 17.42                  | 19.3                |
| 20              | 256QAM     | 1       | 49        | 17.67                 | 17.58                        | 17.31                         | 17.46                  |                     |
| 20              | 256QAM     | 1       | 99        | 17.55                 | 17.44                        | 17.37                         | 17.45                  |                     |
| 20              | 256QAM     | 50      | 0         | 17.93                 | 18.00                        | 17.66                         | 17.48                  | 19.3                |
| 20              | 256QAM     | 50      | 24        | 17.87                 | 17.93                        | 17.68                         | 17.52                  |                     |
| 20              | 256QAM     | 50      | 50        | 17.84                 | 17.80                        | 17.72                         | 17.50                  |                     |
| 20              | 256QAM     | 100     | 0         | 17.85                 | 17.81                        | 17.59                         | 17.37                  |                     |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |
| 15              | QPSK       | 1       | 0         | 20.12                 | 20.17                        | 20.28                         | 20.08                  | 21.3                |
| 15              | QPSK       | 1       | 37        | 19.85                 | 20.00                        | 20.08                         | 19.83                  |                     |
| 15              | QPSK       | 1       | 74        | 19.80                 | 19.88                        | 19.87                         | 19.75                  |                     |
| 15              | QPSK       | 36      | 0         | 20.01                 | 20.12                        | 19.89                         | 19.99                  | 21.3                |
| 15              | QPSK       | 36      | 20        | 19.93                 | 19.85                        | 20.07                         | 19.91                  |                     |
| 15              | QPSK       | 36      | 39        | 20.09                 | 19.93                        | 20.04                         | 19.88                  |                     |
| 15              | QPSK       | 75      | 0         | 19.94                 | 20.02                        | 20.02                         | 19.80                  | 21.3                |
| 15              | 16QAM      | 1       | 0         | 20.22                 | 20.14                        | 20.28                         | 20.15                  |                     |
| 15              | 16QAM      | 1       | 37        | 20.16                 | 20.26                        | 20.14                         | 19.80                  |                     |
| 15              | 16QAM      | 1       | 74        | 20.04                 | 20.23                        | 19.94                         | 19.70                  | 21.3                |
| 15              | 16QAM      | 36      | 0         | 20.04                 | 20.02                        | 20.04                         | 19.87                  |                     |
| 15              | 16QAM      | 36      | 20        | 19.95                 | 19.79                        | 19.88                         | 19.86                  |                     |
| 15              | 16QAM      | 36      | 39        | 19.76                 | 19.94                        | 19.89                         | 19.64                  | 21.3                |
| 15              | 16QAM      | 75      | 0         | 19.93                 | 19.89                        | 20.01                         | 19.62                  |                     |
| 15              | 64QAM      | 1       | 0         | 19.99                 | 19.98                        | 20.10                         | 19.78                  |                     |
| 15              | 64QAM      | 1       | 37        | 20.08                 | 19.94                        | 19.89                         | 19.78                  | 21.3                |
| 15              | 64QAM      | 1       | 74        | 19.78                 | 19.87                        | 19.63                         | 19.74                  |                     |
| 15              | 64QAM      | 36      | 0         | 18.81                 | 18.91                        | 18.75                         | 18.56                  |                     |
| 15              | 64QAM      | 36      | 20        | 18.66                 | 18.69                        | 18.83                         | 18.48                  | 20.3                |
| 15              | 64QAM      | 36      | 39        | 18.78                 | 18.78                        | 18.68                         | 18.47                  |                     |
| 15              | 64QAM      | 75      | 0         | 18.72                 | 18.76                        | 18.75                         | 18.57                  |                     |
| 15              | 256QAM     | 1       | 0         | 17.71                 | 17.64                        | 17.39                         | 17.36                  | 19.3                |
| 15              | 256QAM     | 1       | 37        | 17.59                 | 17.45                        | 17.43                         | 17.38                  |                     |
| 15              | 256QAM     | 1       | 74        | 17.39                 | 17.42                        | 17.43                         | 17.47                  |                     |
| 15              | 256QAM     | 36      | 0         | 17.84                 | 17.79                        | 17.45                         | 17.53                  | 19.3                |
| 15              | 256QAM     | 36      | 20        | 17.76                 | 17.75                        | 17.57                         | 17.37                  |                     |
| 15              | 256QAM     | 36      | 39        | 17.90                 | 17.56                        | 17.62                         | 17.33                  |                     |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 17.76  | 17.56  | 17.54  | 17.40  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 55290  | 55815  | 56165  | 56690  |                        |
| Frequency (MHz) |        |    |    | 3555   | 3607.5 | 3642.5 | 3695   |                        |
| 10              | QPSK   | 1  | 0  | 20.25  | 20.26  | 20.08  | 20.15  | 21.3                   |
| 10              | QPSK   | 1  | 25 | 20.09  | 20.08  | 19.99  | 19.87  |                        |
| 10              | QPSK   | 1  | 49 | 19.94  | 19.82  | 19.92  | 19.81  |                        |
| 10              | QPSK   | 25 | 0  | 20.23  | 20.21  | 19.93  | 20.11  | 21.3                   |
| 10              | QPSK   | 25 | 12 | 20.02  | 19.91  | 19.90  | 19.96  |                        |
| 10              | QPSK   | 25 | 25 | 19.98  | 19.85  | 20.06  | 19.82  |                        |
| 10              | QPSK   | 50 | 0  | 19.94  | 20.13  | 20.03  | 19.88  |                        |
| 10              | 16QAM  | 1  | 0  | 20.25  | 20.18  | 20.16  | 20.28  | 21.3                   |
| 10              | 16QAM  | 1  | 25 | 20.24  | 20.17  | 19.86  | 19.91  |                        |
| 10              | 16QAM  | 1  | 49 | 20.04  | 20.14  | 19.84  | 19.91  |                        |
| 10              | 16QAM  | 25 | 0  | 19.99  | 19.97  | 19.84  | 19.93  | 21.3                   |
| 10              | 16QAM  | 25 | 12 | 19.92  | 19.83  | 19.99  | 19.78  |                        |
| 10              | 16QAM  | 25 | 25 | 19.80  | 19.89  | 20.02  | 19.74  |                        |
| 10              | 16QAM  | 50 | 0  | 19.95  | 19.95  | 20.05  | 19.74  |                        |
| 10              | 64QAM  | 1  | 0  | 20.10  | 20.06  | 20.08  | 19.85  | 21.3                   |
| 10              | 64QAM  | 1  | 25 | 19.94  | 19.87  | 20.01  | 19.58  |                        |
| 10              | 64QAM  | 1  | 49 | 19.96  | 19.80  | 19.65  | 19.73  |                        |
| 10              | 64QAM  | 25 | 0  | 18.85  | 18.79  | 18.81  | 18.62  |                        |
| 10              | 64QAM  | 25 | 12 | 18.77  | 18.84  | 18.73  | 18.68  | 20.3                   |
| 10              | 64QAM  | 25 | 25 | 18.69  | 18.78  | 18.77  | 18.58  |                        |
| 10              | 64QAM  | 50 | 0  | 18.80  | 18.88  | 18.76  | 18.55  |                        |
| 10              | 256QAM | 1  | 0  | 17.51  | 17.51  | 17.44  | 17.50  |                        |
| 10              | 256QAM | 1  | 25 | 17.46  | 17.30  | 17.42  | 17.36  | 19.3                   |
| 10              | 256QAM | 1  | 49 | 17.42  | 17.61  | 17.46  | 17.49  |                        |
| 10              | 256QAM | 25 | 0  | 17.95  | 17.85  | 17.56  | 17.61  |                        |
| 10              | 256QAM | 25 | 12 | 17.75  | 17.85  | 17.56  | 17.33  | 19.3                   |
| 10              | 256QAM | 25 | 25 | 17.63  | 17.69  | 17.59  | 17.44  |                        |
| 10              | 256QAM | 50 | 0  | 17.80  | 17.54  | 17.50  | 17.44  |                        |
| Channel         |        |    |    | 55265  | 55810  | 56170  | 56715  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 3552.5 | 3607   | 3643   | 3697.5 |                        |
| 5               | QPSK   | 1  | 0  | 20.10  | 20.19  | 20.19  | 20.13  | 21.3                   |
| 5               | QPSK   | 1  | 12 | 20.05  | 19.83  | 19.90  | 19.82  |                        |
| 5               | QPSK   | 1  | 24 | 20.08  | 19.75  | 19.95  | 19.80  |                        |
| 5               | QPSK   | 12 | 0  | 20.03  | 20.07  | 20.08  | 20.08  | 21.3                   |
| 5               | QPSK   | 12 | 7  | 19.99  | 20.00  | 20.01  | 19.90  |                        |
| 5               | QPSK   | 12 | 13 | 20.00  | 20.00  | 19.77  | 19.83  |                        |
| 5               | QPSK   | 25 | 0  | 19.96  | 19.96  | 19.99  | 19.93  |                        |
| 5               | 16QAM  | 1  | 0  | 20.23  | 20.26  | 20.07  | 20.14  | 21.3                   |
| 5               | 16QAM  | 1  | 12 | 20.13  | 20.16  | 19.92  | 20.02  |                        |
| 5               | 16QAM  | 1  | 24 | 20.12  | 20.16  | 19.84  | 19.73  |                        |
| 5               | 16QAM  | 12 | 0  | 19.99  | 19.98  | 19.88  | 20.01  | 21.3                   |
| 5               | 16QAM  | 12 | 7  | 20.05  | 19.93  | 20.03  | 19.73  |                        |
| 5               | 16QAM  | 12 | 13 | 19.92  | 19.76  | 19.95  | 19.65  |                        |
| 5               | 16QAM  | 25 | 0  | 19.92  | 19.91  | 19.96  | 19.68  |                        |
| 5               | 64QAM  | 1  | 0  | 19.90  | 20.09  | 20.06  | 19.77  | 21.3                   |
| 5               | 64QAM  | 1  | 12 | 20.00  | 19.82  | 19.82  | 19.81  |                        |
| 5               | 64QAM  | 1  | 24 | 19.85  | 19.99  | 19.61  | 19.76  |                        |
| 5               | 64QAM  | 12 | 0  | 18.76  | 18.83  | 18.97  | 18.53  |                        |
| 5               | 64QAM  | 12 | 7  | 18.72  | 18.72  | 18.74  | 18.42  | 20.3                   |
| 5               | 64QAM  | 12 | 13 | 18.79  | 18.52  | 18.56  | 18.48  |                        |
| 5               | 64QAM  | 25 | 0  | 18.78  | 18.65  | 18.71  | 18.52  |                        |
| 5               | 256QAM | 1  | 0  | 17.55  | 17.52  | 17.47  | 17.31  |                        |
| 5               | 256QAM | 1  | 12 | 17.53  | 17.55  | 17.53  | 17.31  | 19.3                   |
| 5               | 256QAM | 1  | 24 | 17.41  | 17.47  | 17.48  | 17.49  |                        |
| 5               | 256QAM | 12 | 0  | 17.78  | 18.00  | 17.55  | 17.37  |                        |
| 5               | 256QAM | 12 | 7  | 17.70  | 17.88  | 17.70  | 17.55  | 19.3                   |
| 5               | 256QAM | 12 | 13 | 17.78  | 17.82  | 17.69  | 17.45  |                        |
| 5               | 256QAM | 25 | 0  | 17.69  | 17.77  | 17.48  | 17.41  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |
| 20              | QPSK       | 1       | 0         | 22.28                 | 22.27                        | 22.15                         | 22.10                  | 23.1                |
| 20              | QPSK       | 1       | 49        | 22.00                 | 22.07                        | 22.12                         | 22.09                  |                     |
| 20              | QPSK       | 1       | 99        | 22.11                 | 22.11                        | 22.00                         | 21.98                  |                     |
| 20              | QPSK       | 50      | 0         | 22.08                 | 22.03                        | 21.99                         | 21.86                  | 23.1                |
| 20              | QPSK       | 50      | 24        | 21.94                 | 21.94                        | 21.93                         | 21.79                  |                     |
| 20              | QPSK       | 50      | 50        | 21.87                 | 21.90                        | 21.85                         | 21.71                  |                     |
| 20              | QPSK       | 100     | 0         | 21.90                 | 21.98                        | 21.92                         | 21.81                  | 23.1                |
| 20              | 16QAM      | 1       | 0         | 22.00                 | 22.13                        | 22.08                         | 22.06                  |                     |
| 20              | 16QAM      | 1       | 49        | 22.14                 | 22.10                        | 22.03                         | 21.99                  |                     |
| 20              | 16QAM      | 1       | 99        | 22.15                 | 22.20                        | 22.11                         | 22.00                  | 22.3                |
| 20              | 16QAM      | 50      | 0         | 21.00                 | 21.02                        | 20.98                         | 20.89                  |                     |
| 20              | 16QAM      | 50      | 24        | 20.94                 | 20.97                        | 20.90                         | 20.81                  |                     |
| 20              | 16QAM      | 50      | 50        | 20.88                 | 20.90                        | 20.86                         | 20.74                  | 23.1                |
| 20              | 16QAM      | 100     | 0         | 20.95                 | 20.99                        | 20.95                         | 20.84                  |                     |
| 20              | 64QAM      | 1       | 0         | 21.96                 | 21.97                        | 21.93                         | 21.91                  |                     |
| 20              | 64QAM      | 1       | 49        | 21.89                 | 21.93                        | 21.88                         | 21.72                  | 21.3                |
| 20              | 64QAM      | 1       | 99        | 21.79                 | 21.77                        | 21.70                         | 21.55                  |                     |
| 20              | 64QAM      | 50      | 0         | 19.98                 | 20.01                        | 20.01                         | 19.88                  |                     |
| 20              | 64QAM      | 50      | 24        | 19.95                 | 19.97                        | 19.93                         | 19.82                  | 20.3                |
| 20              | 64QAM      | 50      | 50        | 19.88                 | 19.89                        | 19.86                         | 19.74                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.93                 | 19.95                        | 19.94                         | 19.82                  |                     |
| 20              | 256QAM     | 1       | 0         | 18.73                 | 18.79                        | 18.75                         | 18.66                  | 20.3                |
| 20              | 256QAM     | 1       | 49        | 18.53                 | 18.85                        | 18.55                         | 18.45                  |                     |
| 20              | 256QAM     | 1       | 99        | 18.45                 | 18.82                        | 18.57                         | 18.34                  |                     |
| 20              | 256QAM     | 50      | 0         | 18.73                 | 19.06                        | 18.80                         | 18.67                  | 20.3                |
| 20              | 256QAM     | 50      | 24        | 18.83                 | 19.04                        | 18.80                         | 18.71                  |                     |
| 20              | 256QAM     | 50      | 50        | 18.74                 | 19.13                        | 18.84                         | 18.70                  |                     |
| 20              | 256QAM     | 100     | 0         | 18.75                 | 19.09                        | 18.81                         | 18.63                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  |                     |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 | Tune-up limit (dBm) |
| 15              | QPSK       | 1       | 0         | 22.03                 | 22.18                        | 22.08                         | 22.00                  |                     |
| 15              | QPSK       | 1       | 37        | 21.84                 | 22.06                        | 21.97                         | 22.08                  | 23.1                |
| 15              | QPSK       | 1       | 74        | 21.99                 | 22.11                        | 21.89                         | 21.87                  |                     |
| 15              | QPSK       | 36      | 0         | 21.89                 | 21.95                        | 21.81                         | 21.70                  |                     |
| 15              | QPSK       | 36      | 20        | 21.91                 | 21.82                        | 21.91                         | 21.60                  | 23.1                |
| 15              | QPSK       | 36      | 39        | 21.73                 | 21.81                        | 21.85                         | 21.54                  |                     |
| 15              | QPSK       | 75      | 0         | 21.77                 | 21.95                        | 21.82                         | 21.73                  |                     |
| 15              | 16QAM      | 1       | 0         | 21.98                 | 21.95                        | 22.05                         | 22.02                  | 23.1                |
| 15              | 16QAM      | 1       | 37        | 22.00                 | 22.03                        | 21.91                         | 21.81                  |                     |
| 15              | 16QAM      | 1       | 74        | 22.08                 | 22.20                        | 21.95                         | 21.94                  |                     |
| 15              | 16QAM      | 36      | 0         | 20.87                 | 20.91                        | 20.79                         | 20.89                  | 22.3                |
| 15              | 16QAM      | 36      | 20        | 20.89                 | 20.81                        | 20.86                         | 20.67                  |                     |
| 15              | 16QAM      | 36      | 39        | 20.77                 | 20.83                        | 20.86                         | 20.59                  |                     |
| 15              | 16QAM      | 75      | 0         | 20.84                 | 20.84                        | 20.84                         | 20.65                  | 23.1                |
| 15              | 64QAM      | 1       | 0         | 21.90                 | 21.87                        | 21.77                         | 21.78                  |                     |
| 15              | 64QAM      | 1       | 37        | 21.89                 | 21.77                        | 21.80                         | 21.69                  |                     |
| 15              | 64QAM      | 1       | 74        | 21.77                 | 21.60                        | 21.50                         | 21.47                  | 21.3                |
| 15              | 64QAM      | 36      | 0         | 19.90                 | 19.95                        | 19.93                         | 19.84                  |                     |
| 15              | 64QAM      | 36      | 20        | 19.76                 | 19.80                        | 19.78                         | 19.80                  |                     |
| 15              | 64QAM      | 36      | 39        | 19.72                 | 19.81                        | 19.78                         | 19.61                  | 20.3                |
| 15              | 64QAM      | 75      | 0         | 19.81                 | 19.85                        | 19.91                         | 19.64                  |                     |
| 15              | 256QAM     | 1       | 0         | 18.70                 | 18.74                        | 18.68                         | 18.66                  |                     |
| 15              | 256QAM     | 1       | 37        | 18.46                 | 18.83                        | 18.49                         | 18.43                  | 20.3                |
| 15              | 256QAM     | 1       | 74        | 18.38                 | 18.75                        | 18.53                         | 18.32                  |                     |
| 15              | 256QAM     | 36      | 0         | 18.69                 | 18.99                        | 18.75                         | 18.62                  |                     |
| 15              | 256QAM     | 36      | 20        | 18.82                 | 19.00                        | 18.77                         | 18.67                  | 20.3                |
| 15              | 256QAM     | 36      | 39        | 18.68                 | 19.08                        | 18.76                         | 18.60                  |                     |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 18.65  | 19.00  | 18.72  | 18.59  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 55290  | 55815  | 56165  | 56690  |                        |
| Frequency (MHz) |        |    |    | 3555   | 3607.5 | 3642.5 | 3695   |                        |
| 10              | QPSK   | 1  | 0  | 22.15  | 22.25  | 22.08  | 21.95  | 23.1                   |
| 10              | QPSK   | 1  | 25 | 21.89  | 22.02  | 22.04  | 21.94  |                        |
| 10              | QPSK   | 1  | 49 | 21.92  | 21.99  | 21.99  | 21.89  |                        |
| 10              | QPSK   | 25 | 0  | 21.95  | 21.88  | 21.87  | 21.75  | 23.1                   |
| 10              | QPSK   | 25 | 12 | 21.75  | 21.89  | 21.83  | 21.59  |                        |
| 10              | QPSK   | 25 | 25 | 21.77  | 21.90  | 21.72  | 21.71  |                        |
| 10              | QPSK   | 50 | 0  | 21.73  | 21.93  | 21.73  | 21.76  |                        |
| 10              | 16QAM  | 1  | 0  | 21.83  | 22.06  | 21.92  | 21.89  | 23.1                   |
| 10              | 16QAM  | 1  | 25 | 21.95  | 22.05  | 21.98  | 21.98  |                        |
| 10              | 16QAM  | 1  | 49 | 22.09  | 22.13  | 22.08  | 21.88  |                        |
| 10              | 16QAM  | 25 | 0  | 20.82  | 20.85  | 20.93  | 20.79  | 22.3                   |
| 10              | 16QAM  | 25 | 12 | 20.79  | 20.84  | 20.71  | 20.78  |                        |
| 10              | 16QAM  | 25 | 25 | 20.87  | 20.76  | 20.81  | 20.64  |                        |
| 10              | 16QAM  | 50 | 0  | 20.86  | 20.94  | 20.80  | 20.65  |                        |
| 10              | 64QAM  | 1  | 0  | 21.76  | 21.80  | 21.79  | 21.74  | 23.1                   |
| 10              | 64QAM  | 1  | 25 | 21.77  | 21.93  | 21.68  | 21.53  |                        |
| 10              | 64QAM  | 1  | 49 | 21.79  | 21.59  | 21.50  | 21.45  |                        |
| 10              | 64QAM  | 25 | 0  | 19.89  | 19.83  | 19.99  | 19.79  | 21.3                   |
| 10              | 64QAM  | 25 | 12 | 19.87  | 19.78  | 19.79  | 19.82  |                        |
| 10              | 64QAM  | 25 | 25 | 19.86  | 19.87  | 19.76  | 19.72  |                        |
| 10              | 64QAM  | 50 | 0  | 19.74  | 19.88  | 19.88  | 19.66  |                        |
| 10              | 256QAM | 1  | 0  | 18.73  | 18.78  | 18.70  | 18.63  | 20.3                   |
| 10              | 256QAM | 1  | 25 | 18.44  | 18.78  | 18.50  | 18.40  |                        |
| 10              | 256QAM | 1  | 49 | 18.41  | 18.79  | 18.53  | 18.32  |                        |
| 10              | 256QAM | 25 | 0  | 18.70  | 19.06  | 18.77  | 18.65  | 20.3                   |
| 10              | 256QAM | 25 | 12 | 18.74  | 18.96  | 18.79  | 18.63  |                        |
| 10              | 256QAM | 25 | 25 | 18.64  | 19.12  | 18.76  | 18.70  |                        |
| 10              | 256QAM | 50 | 0  | 18.66  | 19.09  | 18.74  | 18.59  |                        |
| Channel         |        |    |    | 55265  | 55810  | 56170  | 56715  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 3552.5 | 3607   | 3643   | 3697.5 |                        |
| 5               | QPSK   | 1  | 0  | 22.10  | 22.07  | 21.98  | 21.98  | 23.1                   |
| 5               | QPSK   | 1  | 12 | 21.82  | 21.90  | 22.10  | 21.94  |                        |
| 5               | QPSK   | 1  | 24 | 22.07  | 21.91  | 21.81  | 21.92  |                        |
| 5               | QPSK   | 12 | 0  | 21.94  | 21.85  | 21.93  | 21.80  | 23.1                   |
| 5               | QPSK   | 12 | 7  | 21.88  | 21.92  | 21.87  | 21.60  |                        |
| 5               | QPSK   | 12 | 13 | 21.69  | 21.77  | 21.81  | 21.66  |                        |
| 5               | QPSK   | 25 | 0  | 21.78  | 21.78  | 21.74  | 21.72  |                        |
| 5               | 16QAM  | 1  | 0  | 21.88  | 22.03  | 21.98  | 22.06  | 23.1                   |
| 5               | 16QAM  | 1  | 12 | 22.12  | 22.05  | 22.00  | 21.81  |                        |
| 5               | 16QAM  | 1  | 24 | 22.13  | 22.00  | 22.01  | 21.93  |                        |
| 5               | 16QAM  | 12 | 0  | 20.83  | 20.87  | 20.86  | 20.83  | 22.3                   |
| 5               | 16QAM  | 12 | 7  | 20.86  | 20.84  | 20.85  | 20.64  |                        |
| 5               | 16QAM  | 12 | 13 | 20.72  | 20.70  | 20.68  | 20.65  |                        |
| 5               | 16QAM  | 25 | 0  | 20.93  | 20.84  | 20.90  | 20.74  |                        |
| 5               | 64QAM  | 1  | 0  | 21.84  | 21.93  | 21.92  | 21.90  | 23.1                   |
| 5               | 64QAM  | 1  | 12 | 21.88  | 21.85  | 21.88  | 21.63  |                        |
| 5               | 64QAM  | 1  | 24 | 21.75  | 21.67  | 21.51  | 21.50  |                        |
| 5               | 64QAM  | 12 | 0  | 19.87  | 19.85  | 19.84  | 19.83  | 21.3                   |
| 5               | 64QAM  | 12 | 7  | 19.92  | 19.93  | 19.86  | 19.71  |                        |
| 5               | 64QAM  | 12 | 13 | 19.84  | 19.71  | 19.66  | 19.64  |                        |
| 5               | 64QAM  | 25 | 0  | 19.86  | 19.92  | 19.83  | 19.68  |                        |
| 5               | 256QAM | 1  | 0  | 18.73  | 18.69  | 18.71  | 18.66  | 20.3                   |
| 5               | 256QAM | 1  | 12 | 18.52  | 18.81  | 18.49  | 18.37  |                        |
| 5               | 256QAM | 1  | 24 | 18.35  | 18.72  | 18.47  | 18.39  |                        |
| 5               | 256QAM | 12 | 0  | 18.70  | 18.98  | 18.76  | 18.66  | 20.3                   |
| 5               | 256QAM | 12 | 7  | 18.79  | 19.04  | 18.73  | 18.70  |                        |
| 5               | 256QAM | 12 | 13 | 18.67  | 19.03  | 18.75  | 18.62  |                        |
| 5               | 256QAM | 25 | 0  | 18.74  | 19.08  | 18.79  | 18.61  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |
| 20              | QPSK       | 1       | 0         | 22.01                 | 21.98                        | 21.95                         | 22.03                  | 23.3                |
| 20              | QPSK       | 1       | 49        | 21.82                 | 21.78                        | 21.76                         | 21.61                  |                     |
| 20              | QPSK       | 1       | 99        | 21.77                 | 21.73                        | 21.72                         | 21.53                  |                     |
| 20              | QPSK       | 50      | 0         | 20.88                 | 20.86                        | 20.86                         | 20.95                  | 22.3                |
| 20              | QPSK       | 50      | 24        | 20.81                 | 20.81                        | 20.83                         | 20.68                  |                     |
| 20              | QPSK       | 50      | 50        | 20.75                 | 20.77                        | 20.75                         | 20.58                  |                     |
| 20              | QPSK       | 100     | 0         | 20.87                 | 20.81                        | 20.84                         | 20.89                  |                     |
| 20              | 16QAM      | 1       | 0         | 21.95                 | 21.97                        | 21.95                         | 21.96                  | 23.3                |
| 20              | 16QAM      | 1       | 49        | 21.92                 | 21.96                        | 21.83                         | 21.76                  |                     |
| 20              | 16QAM      | 1       | 99        | 21.89                 | 21.91                        | 21.70                         | 21.65                  |                     |
| 20              | 16QAM      | 50      | 0         | 19.87                 | 19.88                        | 19.88                         | 19.76                  | 21.3                |
| 20              | 16QAM      | 50      | 24        | 19.84                 | 19.87                        | 19.86                         | 19.66                  |                     |
| 20              | 16QAM      | 50      | 50        | 19.80                 | 19.79                        | 19.77                         | 19.61                  |                     |
| 20              | 16QAM      | 100     | 0         | 19.87                 | 19.86                        | 19.87                         | 19.71                  |                     |
| 20              | 64QAM      | 1       | 0         | 20.90                 | 20.87                        | 20.86                         | 20.51                  | 22.3                |
| 20              | 64QAM      | 1       | 49        | 20.77                 | 20.75                        | 20.69                         | 20.33                  |                     |
| 20              | 64QAM      | 1       | 99        | 20.71                 | 20.70                        | 20.56                         | 20.31                  |                     |
| 20              | 64QAM      | 50      | 0         | 18.91                 | 18.91                        | 18.90                         | 18.75                  | 20.3                |
| 20              | 64QAM      | 50      | 24        | 18.84                 | 18.86                        | 18.83                         | 18.67                  |                     |
| 20              | 64QAM      | 50      | 50        | 18.78                 | 18.81                        | 18.79                         | 18.59                  |                     |
| 20              | 64QAM      | 100     | 0         | 18.87                 | 18.85                        | 18.83                         | 18.67                  |                     |
| 20              | 256QAM     | 1       | 0         | 17.68                 | 17.58                        | 17.49                         | 17.32                  | 19.3                |
| 20              | 256QAM     | 1       | 49        | 17.58                 | 17.57                        | 17.38                         | 17.34                  |                     |
| 20              | 256QAM     | 1       | 99        | 17.54                 | 17.53                        | 17.37                         | 17.31                  |                     |
| 20              | 256QAM     | 50      | 0         | 17.94                 | 17.91                        | 17.69                         | 17.52                  | 19.3                |
| 20              | 256QAM     | 50      | 24        | 17.89                 | 17.87                        | 17.68                         | 17.56                  |                     |
| 20              | 256QAM     | 50      | 50        | 17.89                 | 17.85                        | 17.70                         | 17.49                  |                     |
| 20              | 256QAM     | 100     | 0         | 17.80                 | 17.77                        | 17.59                         | 17.45                  |                     |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |
| 15              | QPSK       | 1       | 0         | 21.88                 | 21.86                        | 21.88                         | 21.84                  | 23.3                |
| 15              | QPSK       | 1       | 37        | 21.64                 | 21.76                        | 21.75                         | 21.53                  |                     |
| 15              | QPSK       | 1       | 74        | 21.58                 | 21.58                        | 21.67                         | 21.43                  |                     |
| 15              | QPSK       | 36      | 0         | 20.68                 | 20.78                        | 20.66                         | 20.71                  | 22.3                |
| 15              | QPSK       | 36      | 20        | 20.61                 | 20.64                        | 20.68                         | 20.61                  |                     |
| 15              | QPSK       | 36      | 39        | 20.75                 | 20.57                        | 20.66                         | 20.52                  |                     |
| 15              | QPSK       | 75      | 0         | 20.67                 | 20.73                        | 20.64                         | 20.49                  |                     |
| 15              | 16QAM      | 1       | 0         | 21.93                 | 21.90                        | 21.89                         | 21.91                  | 23.3                |
| 15              | 16QAM      | 1       | 37        | 21.82                 | 21.91                        | 21.80                         | 21.57                  |                     |
| 15              | 16QAM      | 1       | 74        | 21.79                 | 21.89                        | 21.61                         | 21.46                  |                     |
| 15              | 16QAM      | 36      | 0         | 19.80                 | 19.78                        | 19.75                         | 19.73                  | 21.3                |
| 15              | 16QAM      | 36      | 20        | 19.68                 | 19.67                        | 19.74                         | 19.66                  |                     |
| 15              | 16QAM      | 36      | 39        | 19.60                 | 19.68                        | 19.70                         | 19.44                  |                     |
| 15              | 16QAM      | 75      | 0         | 19.75                 | 19.73                        | 19.74                         | 19.51                  |                     |
| 15              | 64QAM      | 1       | 0         | 20.78                 | 20.76                        | 20.76                         | 20.38                  | 22.3                |
| 15              | 64QAM      | 1       | 37        | 20.68                 | 20.68                        | 20.69                         | 20.43                  |                     |
| 15              | 64QAM      | 1       | 74        | 20.58                 | 20.55                        | 20.41                         | 20.46                  |                     |
| 15              | 64QAM      | 36      | 0         | 18.75                 | 18.87                        | 18.73                         | 18.55                  | 20.3                |
| 15              | 64QAM      | 36      | 20        | 18.72                 | 18.69                        | 18.79                         | 18.47                  |                     |
| 15              | 64QAM      | 36      | 39        | 18.69                 | 18.76                        | 18.70                         | 18.41                  |                     |
| 15              | 64QAM      | 75      | 0         | 18.68                 | 18.78                        | 18.70                         | 18.52                  |                     |
| 15              | 256QAM     | 1       | 0         | 17.61                 | 17.56                        | 17.35                         | 17.31                  | 19.3                |
| 15              | 256QAM     | 1       | 37        | 17.57                 | 17.52                        | 17.44                         | 17.34                  |                     |
| 15              | 256QAM     | 1       | 74        | 17.35                 | 17.42                        | 17.48                         | 17.47                  |                     |
| 15              | 256QAM     | 36      | 0         | 17.87                 | 17.79                        | 17.53                         | 17.45                  | 19.3                |
| 15              | 256QAM     | 36      | 20        | 17.86                 | 17.74                        | 17.52                         | 17.41                  |                     |
| 15              | 256QAM     | 36      | 39        | 17.88                 | 17.65                        | 17.64                         | 17.35                  |                     |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 17.78  | 17.61  | 17.54  | 17.47  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 55290  | 55815  | 56165  | 56690  |                        |
| Frequency (MHz) |        |    |    | 3555   | 3607.5 | 3642.5 | 3695   |                        |
| 10              | QPSK   | 1  | 0  | 21.87  | 21.97  | 21.86  | 21.85  | 23.3                   |
| 10              | QPSK   | 1  | 25 | 21.77  | 21.68  | 21.74  | 21.49  |                        |
| 10              | QPSK   | 1  | 49 | 21.59  | 21.53  | 21.66  | 21.48  |                        |
| 10              | QPSK   | 25 | 0  | 20.83  | 20.83  | 20.71  | 20.89  | 22.3                   |
| 10              | QPSK   | 25 | 12 | 20.64  | 20.69  | 20.70  | 20.62  |                        |
| 10              | QPSK   | 25 | 25 | 20.71  | 20.58  | 20.71  | 20.47  |                        |
| 10              | QPSK   | 50 | 0  | 20.67  | 20.81  | 20.64  | 20.51  |                        |
| 10              | 16QAM  | 1  | 0  | 21.90  | 21.96  | 21.94  | 21.91  | 23.3                   |
| 10              | 16QAM  | 1  | 25 | 21.85  | 21.84  | 21.63  | 21.69  |                        |
| 10              | 16QAM  | 1  | 49 | 21.76  | 21.80  | 21.52  | 21.54  |                        |
| 10              | 16QAM  | 25 | 0  | 19.82  | 19.76  | 19.73  | 19.69  | 21.3                   |
| 10              | 16QAM  | 25 | 12 | 19.66  | 19.67  | 19.75  | 19.55  |                        |
| 10              | 16QAM  | 25 | 25 | 19.60  | 19.74  | 19.75  | 19.52  |                        |
| 10              | 16QAM  | 50 | 0  | 19.84  | 19.73  | 19.82  | 19.51  |                        |
| 10              | 64QAM  | 1  | 0  | 20.79  | 20.68  | 20.75  | 20.47  | 22.3                   |
| 10              | 64QAM  | 1  | 25 | 20.63  | 20.55  | 20.62  | 20.35  |                        |
| 10              | 64QAM  | 1  | 49 | 20.66  | 20.52  | 20.38  | 20.38  |                        |
| 10              | 64QAM  | 25 | 0  | 18.88  | 18.85  | 18.72  | 18.57  | 20.3                   |
| 10              | 64QAM  | 25 | 12 | 18.73  | 18.80  | 18.75  | 18.66  |                        |
| 10              | 64QAM  | 25 | 25 | 18.74  | 18.78  | 18.69  | 18.51  |                        |
| 10              | 64QAM  | 50 | 0  | 18.75  | 18.79  | 18.74  | 18.61  |                        |
| 10              | 256QAM | 1  | 0  | 17.59  | 17.41  | 17.43  | 17.42  | 19.3                   |
| 10              | 256QAM | 1  | 25 | 17.48  | 17.40  | 17.40  | 17.39  |                        |
| 10              | 256QAM | 1  | 49 | 17.40  | 17.52  | 17.30  | 17.31  |                        |
| 10              | 256QAM | 25 | 0  | 17.92  | 17.86  | 17.65  | 17.52  | 19.3                   |
| 10              | 256QAM | 25 | 12 | 17.76  | 17.83  | 17.57  | 17.43  |                        |
| 10              | 256QAM | 25 | 25 | 17.72  | 17.70  | 17.62  | 17.30  |                        |
| 10              | 256QAM | 50 | 0  | 17.74  | 17.64  | 17.41  | 17.35  |                        |
| Channel         |        |    |    | 55265  | 55810  | 56170  | 56715  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 3552.5 | 3607   | 3643   | 3697.5 |                        |
| 5               | QPSK   | 1  | 0  | 21.81  | 21.87  | 21.84  | 21.83  | 23.3                   |
| 5               | QPSK   | 1  | 12 | 21.74  | 21.61  | 21.67  | 21.47  |                        |
| 5               | QPSK   | 1  | 24 | 21.77  | 21.54  | 21.69  | 21.45  |                        |
| 5               | QPSK   | 12 | 0  | 20.71  | 20.69  | 20.81  | 20.74  | 22.3                   |
| 5               | QPSK   | 12 | 7  | 20.79  | 20.64  | 20.72  | 20.52  |                        |
| 5               | QPSK   | 12 | 13 | 20.71  | 20.70  | 20.56  | 20.43  |                        |
| 5               | QPSK   | 25 | 0  | 20.76  | 20.74  | 20.65  | 20.65  |                        |
| 5               | 16QAM  | 1  | 0  | 21.97  | 21.97  | 21.87  | 21.88  | 23.3                   |
| 5               | 16QAM  | 1  | 12 | 21.83  | 21.76  | 21.64  | 21.73  |                        |
| 5               | 16QAM  | 1  | 24 | 21.74  | 21.76  | 21.51  | 21.51  |                        |
| 5               | 16QAM  | 12 | 0  | 19.72  | 19.81  | 19.75  | 19.72  | 21.3                   |
| 5               | 16QAM  | 12 | 7  | 19.79  | 19.76  | 19.80  | 19.48  |                        |
| 5               | 16QAM  | 12 | 13 | 19.80  | 19.64  | 19.77  | 19.54  |                        |
| 5               | 16QAM  | 25 | 0  | 19.72  | 19.78  | 19.78  | 19.51  |                        |
| 5               | 64QAM  | 1  | 0  | 20.70  | 20.85  | 20.78  | 20.40  | 22.3                   |
| 5               | 64QAM  | 1  | 12 | 20.74  | 20.62  | 20.61  | 20.45  |                        |
| 5               | 64QAM  | 1  | 24 | 20.64  | 20.68  | 20.39  | 20.37  |                        |
| 5               | 64QAM  | 12 | 0  | 18.72  | 18.75  | 18.89  | 18.63  | 20.3                   |
| 5               | 64QAM  | 12 | 7  | 18.67  | 18.78  | 18.75  | 18.50  |                        |
| 5               | 64QAM  | 12 | 13 | 18.75  | 18.61  | 18.61  | 18.43  |                        |
| 5               | 64QAM  | 25 | 0  | 18.77  | 18.71  | 18.74  | 18.57  |                        |
| 5               | 256QAM | 1  | 0  | 17.55  | 17.55  | 17.39  | 17.36  | 19.3                   |
| 5               | 256QAM | 1  | 12 | 17.43  | 17.53  | 17.47  | 17.41  |                        |
| 5               | 256QAM | 1  | 24 | 17.39  | 17.41  | 17.34  | 17.39  |                        |
| 5               | 256QAM | 12 | 0  | 17.75  | 17.91  | 17.61  | 17.43  | 19.3                   |
| 5               | 256QAM | 12 | 7  | 17.73  | 17.87  | 17.66  | 17.51  |                        |
| 5               | 256QAM | 12 | 13 | 17.73  | 17.81  | 17.64  | 17.49  |                        |
| 5               | 256QAM | 25 | 0  | 17.76  | 17.77  | 17.43  | 17.40  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |
| 20              | QPSK       | 1       | 0         | 22.28                 | 22.27                        | 22.15                         | 22.10                  | 22.3                |
| 20              | QPSK       | 1       | 49        | 22.00                 | 22.07                        | 22.12                         | 22.09                  |                     |
| 20              | QPSK       | 1       | 99        | 22.11                 | 22.11                        | 22.00                         | 21.98                  |                     |
| 20              | QPSK       | 50      | 0         | 22.08                 | 22.03                        | 21.99                         | 21.86                  | 22.3                |
| 20              | QPSK       | 50      | 24        | 21.94                 | 21.94                        | 21.93                         | 21.79                  |                     |
| 20              | QPSK       | 50      | 50        | 21.87                 | 21.90                        | 21.85                         | 21.71                  |                     |
| 20              | QPSK       | 100     | 0         | 21.90                 | 21.98                        | 21.92                         | 21.81                  |                     |
| 20              | 16QAM      | 1       | 0         | 22.00                 | 22.13                        | 22.08                         | 22.06                  | 22.3                |
| 20              | 16QAM      | 1       | 49        | 22.14                 | 22.10                        | 22.03                         | 21.99                  |                     |
| 20              | 16QAM      | 1       | 99        | 22.15                 | 22.20                        | 22.11                         | 22.00                  |                     |
| 20              | 16QAM      | 50      | 0         | 21.00                 | 21.02                        | 20.98                         | 20.89                  | 22.3                |
| 20              | 16QAM      | 50      | 24        | 20.94                 | 20.97                        | 20.90                         | 20.81                  |                     |
| 20              | 16QAM      | 50      | 50        | 20.88                 | 20.90                        | 20.86                         | 20.74                  |                     |
| 20              | 16QAM      | 100     | 0         | 20.95                 | 20.99                        | 20.95                         | 20.84                  |                     |
| 20              | 64QAM      | 1       | 0         | 21.96                 | 21.97                        | 21.93                         | 21.91                  | 22.3                |
| 20              | 64QAM      | 1       | 49        | 21.89                 | 21.93                        | 21.88                         | 21.72                  |                     |
| 20              | 64QAM      | 1       | 99        | 21.79                 | 21.77                        | 21.70                         | 21.55                  |                     |
| 20              | 64QAM      | 50      | 0         | 19.98                 | 20.01                        | 20.01                         | 19.88                  | 21.3                |
| 20              | 64QAM      | 50      | 24        | 19.95                 | 19.97                        | 19.93                         | 19.82                  |                     |
| 20              | 64QAM      | 50      | 50        | 19.88                 | 19.89                        | 19.86                         | 19.74                  |                     |
| 20              | 64QAM      | 100     | 0         | 19.93                 | 19.95                        | 19.94                         | 19.82                  |                     |
| 20              | 256QAM     | 1       | 0         | 18.73                 | 18.79                        | 18.75                         | 18.66                  | 20.3                |
| 20              | 256QAM     | 1       | 49        | 18.53                 | 18.85                        | 18.55                         | 18.45                  |                     |
| 20              | 256QAM     | 1       | 99        | 18.45                 | 18.82                        | 18.57                         | 18.34                  |                     |
| 20              | 256QAM     | 50      | 0         | 18.73                 | 19.06                        | 18.80                         | 18.67                  | 20.3                |
| 20              | 256QAM     | 50      | 24        | 18.83                 | 19.04                        | 18.80                         | 18.71                  |                     |
| 20              | 256QAM     | 50      | 50        | 18.74                 | 19.13                        | 18.84                         | 18.70                  |                     |
| 20              | 256QAM     | 100     | 0         | 18.75                 | 19.09                        | 18.81                         | 18.63                  |                     |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |
| 15              | QPSK       | 1       | 0         | 22.03                 | 22.18                        | 22.08                         | 22.00                  | 22.3                |
| 15              | QPSK       | 1       | 37        | 21.84                 | 22.06                        | 21.97                         | 22.08                  |                     |
| 15              | QPSK       | 1       | 74        | 21.99                 | 22.11                        | 21.89                         | 21.87                  |                     |
| 15              | QPSK       | 36      | 0         | 21.89                 | 21.95                        | 21.81                         | 21.70                  | 22.3                |
| 15              | QPSK       | 36      | 20        | 21.91                 | 21.82                        | 21.91                         | 21.60                  |                     |
| 15              | QPSK       | 36      | 39        | 21.73                 | 21.81                        | 21.85                         | 21.54                  |                     |
| 15              | QPSK       | 75      | 0         | 21.77                 | 21.95                        | 21.82                         | 21.73                  |                     |
| 15              | 16QAM      | 1       | 0         | 21.98                 | 21.95                        | 22.05                         | 22.02                  | 22.3                |
| 15              | 16QAM      | 1       | 37        | 22.00                 | 22.03                        | 21.91                         | 21.81                  |                     |
| 15              | 16QAM      | 1       | 74        | 22.08                 | 22.20                        | 21.95                         | 21.94                  |                     |
| 15              | 16QAM      | 36      | 0         | 20.87                 | 20.91                        | 20.79                         | 20.89                  | 22.3                |
| 15              | 16QAM      | 36      | 20        | 20.89                 | 20.81                        | 20.86                         | 20.67                  |                     |
| 15              | 16QAM      | 36      | 39        | 20.77                 | 20.83                        | 20.86                         | 20.59                  |                     |
| 15              | 16QAM      | 75      | 0         | 20.84                 | 20.84                        | 20.84                         | 20.65                  |                     |
| 15              | 64QAM      | 1       | 0         | 21.90                 | 21.87                        | 21.77                         | 21.78                  | 22.3                |
| 15              | 64QAM      | 1       | 37        | 21.89                 | 21.77                        | 21.80                         | 21.69                  |                     |
| 15              | 64QAM      | 1       | 74        | 21.77                 | 21.60                        | 21.50                         | 21.47                  |                     |
| 15              | 64QAM      | 36      | 0         | 19.90                 | 19.95                        | 19.93                         | 19.84                  | 21.3                |
| 15              | 64QAM      | 36      | 20        | 19.76                 | 19.80                        | 19.78                         | 19.80                  |                     |
| 15              | 64QAM      | 36      | 39        | 19.72                 | 19.81                        | 19.78                         | 19.61                  |                     |
| 15              | 64QAM      | 75      | 0         | 19.81                 | 19.85                        | 19.91                         | 19.64                  |                     |
| 15              | 256QAM     | 1       | 0         | 18.70                 | 18.74                        | 18.68                         | 18.66                  | 20.3                |
| 15              | 256QAM     | 1       | 37        | 18.46                 | 18.83                        | 18.49                         | 18.43                  |                     |
| 15              | 256QAM     | 1       | 74        | 18.38                 | 18.75                        | 18.53                         | 18.32                  |                     |
| 15              | 256QAM     | 36      | 0         | 18.69                 | 18.99                        | 18.75                         | 18.62                  | 20.3                |
| 15              | 256QAM     | 36      | 20        | 18.82                 | 19.00                        | 18.77                         | 18.67                  |                     |
| 15              | 256QAM     | 36      | 39        | 18.68                 | 19.08                        | 18.76                         | 18.60                  |                     |



# FCC SAR TEST REPORT

Report No. : FA3D2001D

|                 |        |    |    |        |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 18.65  | 19.00  | 18.72  | 18.59  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 55290  | 55815  | 56165  | 56690  |                        |
| Frequency (MHz) |        |    |    | 3555   | 3607.5 | 3642.5 | 3695   |                        |
| 10              | QPSK   | 1  | 0  | 22.15  | 22.25  | 22.08  | 21.95  | 22.3                   |
| 10              | QPSK   | 1  | 25 | 21.89  | 22.02  | 22.04  | 21.94  |                        |
| 10              | QPSK   | 1  | 49 | 21.92  | 21.99  | 21.99  | 21.89  |                        |
| 10              | QPSK   | 25 | 0  | 21.95  | 21.88  | 21.87  | 21.75  | 22.3                   |
| 10              | QPSK   | 25 | 12 | 21.75  | 21.89  | 21.83  | 21.59  |                        |
| 10              | QPSK   | 25 | 25 | 21.77  | 21.90  | 21.72  | 21.71  |                        |
| 10              | QPSK   | 50 | 0  | 21.73  | 21.93  | 21.73  | 21.76  |                        |
| 10              | 16QAM  | 1  | 0  | 21.83  | 22.06  | 21.92  | 21.89  | 22.3                   |
| 10              | 16QAM  | 1  | 25 | 21.95  | 22.05  | 21.98  | 21.98  |                        |
| 10              | 16QAM  | 1  | 49 | 22.09  | 22.13  | 22.08  | 21.88  |                        |
| 10              | 16QAM  | 25 | 0  | 20.82  | 20.85  | 20.93  | 20.79  | 22.3                   |
| 10              | 16QAM  | 25 | 12 | 20.79  | 20.84  | 20.71  | 20.78  |                        |
| 10              | 16QAM  | 25 | 25 | 20.87  | 20.76  | 20.81  | 20.64  |                        |
| 10              | 16QAM  | 50 | 0  | 20.86  | 20.94  | 20.80  | 20.65  |                        |
| 10              | 64QAM  | 1  | 0  | 21.76  | 21.80  | 21.79  | 21.74  | 22.3                   |
| 10              | 64QAM  | 1  | 25 | 21.77  | 21.93  | 21.68  | 21.53  |                        |
| 10              | 64QAM  | 1  | 49 | 21.79  | 21.59  | 21.50  | 21.45  |                        |
| 10              | 64QAM  | 25 | 0  | 19.89  | 19.83  | 19.99  | 19.79  |                        |
| 10              | 64QAM  | 25 | 12 | 19.87  | 19.78  | 19.79  | 19.82  | 21.3                   |
| 10              | 64QAM  | 25 | 25 | 19.86  | 19.87  | 19.76  | 19.72  |                        |
| 10              | 64QAM  | 50 | 0  | 19.74  | 19.88  | 19.88  | 19.66  |                        |
| 10              | 256QAM | 1  | 0  | 18.73  | 18.78  | 18.70  | 18.63  |                        |
| 10              | 256QAM | 1  | 25 | 18.44  | 18.78  | 18.50  | 18.40  | 20.3                   |
| 10              | 256QAM | 1  | 49 | 18.41  | 18.79  | 18.53  | 18.32  |                        |
| 10              | 256QAM | 25 | 0  | 18.70  | 19.06  | 18.77  | 18.65  |                        |
| 10              | 256QAM | 25 | 12 | 18.74  | 18.96  | 18.79  | 18.63  | 20.3                   |
| 10              | 256QAM | 25 | 25 | 18.64  | 19.12  | 18.76  | 18.70  |                        |
| 10              | 256QAM | 50 | 0  | 18.66  | 19.09  | 18.74  | 18.59  |                        |
| Channel         |        |    |    | 55265  | 55810  | 56170  | 56715  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 3552.5 | 3607   | 3643   | 3697.5 |                        |
| 5               | QPSK   | 1  | 0  | 22.10  | 22.07  | 21.98  | 21.98  | 22.3                   |
| 5               | QPSK   | 1  | 12 | 21.82  | 21.90  | 22.10  | 21.94  |                        |
| 5               | QPSK   | 1  | 24 | 22.07  | 21.91  | 21.81  | 21.92  |                        |
| 5               | QPSK   | 12 | 0  | 21.94  | 21.85  | 21.93  | 21.80  | 22.3                   |
| 5               | QPSK   | 12 | 7  | 21.88  | 21.92  | 21.87  | 21.60  |                        |
| 5               | QPSK   | 12 | 13 | 21.69  | 21.77  | 21.81  | 21.66  |                        |
| 5               | QPSK   | 25 | 0  | 21.78  | 21.78  | 21.74  | 21.72  |                        |
| 5               | 16QAM  | 1  | 0  | 21.88  | 22.03  | 21.98  | 22.06  | 22.3                   |
| 5               | 16QAM  | 1  | 12 | 22.12  | 22.05  | 22.00  | 21.81  |                        |
| 5               | 16QAM  | 1  | 24 | 22.13  | 22.00  | 22.01  | 21.93  |                        |
| 5               | 16QAM  | 12 | 0  | 20.83  | 20.87  | 20.86  | 20.83  | 22.3                   |
| 5               | 16QAM  | 12 | 7  | 20.86  | 20.84  | 20.85  | 20.64  |                        |
| 5               | 16QAM  | 12 | 13 | 20.72  | 20.70  | 20.68  | 20.65  |                        |
| 5               | 16QAM  | 25 | 0  | 20.93  | 20.84  | 20.90  | 20.74  |                        |
| 5               | 64QAM  | 1  | 0  | 21.84  | 21.93  | 21.92  | 21.90  | 22.3                   |
| 5               | 64QAM  | 1  | 12 | 21.88  | 21.85  | 21.88  | 21.63  |                        |
| 5               | 64QAM  | 1  | 24 | 21.75  | 21.67  | 21.51  | 21.50  |                        |
| 5               | 64QAM  | 12 | 0  | 19.87  | 19.85  | 19.84  | 19.83  |                        |
| 5               | 64QAM  | 12 | 7  | 19.92  | 19.93  | 19.86  | 19.71  | 21.3                   |
| 5               | 64QAM  | 12 | 13 | 19.84  | 19.71  | 19.66  | 19.64  |                        |
| 5               | 64QAM  | 25 | 0  | 19.86  | 19.92  | 19.83  | 19.68  |                        |
| 5               | 256QAM | 1  | 0  | 18.73  | 18.69  | 18.71  | 18.66  |                        |
| 5               | 256QAM | 1  | 12 | 18.52  | 18.81  | 18.49  | 18.37  | 20.3                   |
| 5               | 256QAM | 1  | 24 | 18.35  | 18.72  | 18.47  | 18.39  |                        |
| 5               | 256QAM | 12 | 0  | 18.70  | 18.98  | 18.76  | 18.66  |                        |
| 5               | 256QAM | 12 | 7  | 18.79  | 19.04  | 18.73  | 18.70  | 20.3                   |
| 5               | 256QAM | 12 | 13 | 18.67  | 19.03  | 18.75  | 18.62  |                        |
| 5               | 256QAM | 25 | 0  | 18.74  | 19.08  | 18.79  | 18.61  |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |
| 20              | QPSK       | 1       | 0         | 22.01                 | 21.98                        | 21.95                         | 22.03                  | 22.5                |
| 20              | QPSK       | 1       | 49        | 21.82                 | 21.78                        | 21.76                         | 21.61                  |                     |
| 20              | QPSK       | 1       | 99        | 21.77                 | 21.73                        | 21.72                         | 21.53                  |                     |
| 20              | QPSK       | 50      | 0         | 20.88                 | 20.86                        | 20.86                         | 20.95                  | 22.3                |
| 20              | QPSK       | 50      | 24        | 20.81                 | 20.81                        | 20.83                         | 20.68                  |                     |
| 20              | QPSK       | 50      | 50        | 20.75                 | 20.77                        | 20.75                         | 20.58                  |                     |
| 20              | QPSK       | 100     | 0         | 20.87                 | 20.81                        | 20.84                         | 20.89                  | 22.5                |
| 20              | 16QAM      | 1       | 0         | 21.95                 | 21.97                        | 21.95                         | 21.96                  |                     |
| 20              | 16QAM      | 1       | 49        | 21.92                 | 21.96                        | 21.83                         | 21.76                  |                     |
| 20              | 16QAM      | 1       | 99        | 21.89                 | 21.91                        | 21.70                         | 21.65                  | 21.3                |
| 20              | 16QAM      | 50      | 0         | 19.87                 | 19.88                        | 19.88                         | 19.76                  |                     |
| 20              | 16QAM      | 50      | 24        | 19.84                 | 19.87                        | 19.86                         | 19.66                  |                     |
| 20              | 16QAM      | 50      | 50        | 19.80                 | 19.79                        | 19.77                         | 19.61                  | 22.3                |
| 20              | 16QAM      | 100     | 0         | 19.87                 | 19.86                        | 19.87                         | 19.71                  |                     |
| 20              | 64QAM      | 1       | 0         | 20.90                 | 20.87                        | 20.86                         | 20.51                  |                     |
| 20              | 64QAM      | 1       | 49        | 20.77                 | 20.75                        | 20.69                         | 20.33                  | 20.3                |
| 20              | 64QAM      | 1       | 99        | 20.71                 | 20.70                        | 20.56                         | 20.31                  |                     |
| 20              | 64QAM      | 50      | 0         | 18.91                 | 18.91                        | 18.90                         | 18.75                  |                     |
| 20              | 64QAM      | 50      | 24        | 18.84                 | 18.86                        | 18.83                         | 18.67                  | 19.3                |
| 20              | 64QAM      | 50      | 50        | 18.78                 | 18.81                        | 18.79                         | 18.59                  |                     |
| 20              | 64QAM      | 100     | 0         | 18.87                 | 18.85                        | 18.83                         | 18.67                  |                     |
| 20              | 256QAM     | 1       | 0         | 17.68                 | 17.58                        | 17.49                         | 17.32                  | 19.3                |
| 20              | 256QAM     | 1       | 49        | 17.58                 | 17.57                        | 17.38                         | 17.34                  |                     |
| 20              | 256QAM     | 1       | 99        | 17.54                 | 17.53                        | 17.37                         | 17.31                  |                     |
| 20              | 256QAM     | 50      | 0         | 17.94                 | 17.91                        | 17.69                         | 17.52                  | 19.3                |
| 20              | 256QAM     | 50      | 24        | 17.89                 | 17.87                        | 17.68                         | 17.56                  |                     |
| 20              | 256QAM     | 50      | 50        | 17.89                 | 17.85                        | 17.70                         | 17.49                  |                     |
| 20              | 256QAM     | 100     | 0         | 17.80                 | 17.77                        | 17.59                         | 17.45                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  |                     |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |
| 15              | QPSK       | 1       | 0         | 21.88                 | 21.86                        | 21.88                         | 21.84                  |                     |
| 15              | QPSK       | 1       | 37        | 21.64                 | 21.76                        | 21.75                         | 21.53                  | 22.5                |
| 15              | QPSK       | 1       | 74        | 21.58                 | 21.58                        | 21.67                         | 21.43                  |                     |
| 15              | QPSK       | 36      | 0         | 20.68                 | 20.78                        | 20.66                         | 20.71                  |                     |
| 15              | QPSK       | 36      | 20        | 20.61                 | 20.64                        | 20.68                         | 20.61                  | 22.3                |
| 15              | QPSK       | 36      | 39        | 20.75                 | 20.57                        | 20.66                         | 20.52                  |                     |
| 15              | QPSK       | 75      | 0         | 20.67                 | 20.73                        | 20.64                         | 20.49                  |                     |
| 15              | 16QAM      | 1       | 0         | 21.93                 | 21.90                        | 21.89                         | 21.91                  | 22.5                |
| 15              | 16QAM      | 1       | 37        | 21.82                 | 21.91                        | 21.80                         | 21.57                  |                     |
| 15              | 16QAM      | 1       | 74        | 21.79                 | 21.89                        | 21.61                         | 21.46                  |                     |
| 15              | 16QAM      | 36      | 0         | 19.80                 | 19.78                        | 19.75                         | 19.73                  | 21.3                |
| 15              | 16QAM      | 36      | 20        | 19.68                 | 19.67                        | 19.74                         | 19.66                  |                     |
| 15              | 16QAM      | 36      | 39        | 19.60                 | 19.68                        | 19.70                         | 19.44                  |                     |
| 15              | 16QAM      | 75      | 0         | 19.75                 | 19.73                        | 19.74                         | 19.51                  | 22.3                |
| 15              | 64QAM      | 1       | 0         | 20.78                 | 20.76                        | 20.76                         | 20.38                  |                     |
| 15              | 64QAM      | 1       | 37        | 20.68                 | 20.68                        | 20.69                         | 20.43                  |                     |
| 15              | 64QAM      | 1       | 74        | 20.58                 | 20.55                        | 20.41                         | 20.46                  | 20.3                |
| 15              | 64QAM      | 36      | 0         | 18.75                 | 18.87                        | 18.73                         | 18.55                  |                     |
| 15              | 64QAM      | 36      | 20        | 18.72                 | 18.69                        | 18.79                         | 18.47                  |                     |
| 15              | 64QAM      | 36      | 39        | 18.69                 | 18.76                        | 18.70                         | 18.41                  | 19.3                |
| 15              | 64QAM      | 75      | 0         | 18.68                 | 18.78                        | 18.70                         | 18.52                  |                     |
| 15              | 256QAM     | 1       | 0         | 17.61                 | 17.56                        | 17.35                         | 17.31                  |                     |
| 15              | 256QAM     | 1       | 37        | 17.57                 | 17.52                        | 17.44                         | 17.34                  | 19.3                |
| 15              | 256QAM     | 1       | 74        | 17.35                 | 17.42                        | 17.48                         | 17.47                  |                     |
| 15              | 256QAM     | 36      | 0         | 17.87                 | 17.79                        | 17.53                         | 17.45                  |                     |
| 15              | 256QAM     | 36      | 20        | 17.86                 | 17.74                        | 17.52                         | 17.41                  | 19.3                |
| 15              | 256QAM     | 36      | 39        | 17.88                 | 17.65                        | 17.64                         | 17.35                  |                     |



# FCC SAR TEST REPORT

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|                 |        |    |    |        |        |        |        |                        |
|-----------------|--------|----|----|--------|--------|--------|--------|------------------------|
| 15              | 256QAM | 75 | 0  | 17.78  | 17.61  | 17.54  | 17.47  | Tune-up limit<br>(dBm) |
| Channel         |        |    |    | 55290  | 55815  | 56165  | 56690  |                        |
| Frequency (MHz) |        |    |    | 3555   | 3607.5 | 3642.5 | 3695   |                        |
| 10              | QPSK   | 1  | 0  | 21.87  | 21.97  | 21.86  | 21.85  | 22.5                   |
| 10              | QPSK   | 1  | 25 | 21.77  | 21.68  | 21.74  | 21.49  |                        |
| 10              | QPSK   | 1  | 49 | 21.59  | 21.53  | 21.66  | 21.48  |                        |
| 10              | QPSK   | 25 | 0  | 20.83  | 20.83  | 20.71  | 20.89  | 22.3                   |
| 10              | QPSK   | 25 | 12 | 20.64  | 20.69  | 20.70  | 20.62  |                        |
| 10              | QPSK   | 25 | 25 | 20.71  | 20.58  | 20.71  | 20.47  |                        |
| 10              | QPSK   | 50 | 0  | 20.67  | 20.81  | 20.64  | 20.51  |                        |
| 10              | 16QAM  | 1  | 0  | 21.90  | 21.96  | 21.94  | 21.91  | 22.5                   |
| 10              | 16QAM  | 1  | 25 | 21.85  | 21.84  | 21.63  | 21.69  |                        |
| 10              | 16QAM  | 1  | 49 | 21.76  | 21.80  | 21.52  | 21.54  |                        |
| 10              | 16QAM  | 25 | 0  | 19.82  | 19.76  | 19.73  | 19.69  | 21.3                   |
| 10              | 16QAM  | 25 | 12 | 19.66  | 19.67  | 19.75  | 19.55  |                        |
| 10              | 16QAM  | 25 | 25 | 19.60  | 19.74  | 19.75  | 19.52  |                        |
| 10              | 16QAM  | 50 | 0  | 19.84  | 19.73  | 19.82  | 19.51  |                        |
| 10              | 64QAM  | 1  | 0  | 20.79  | 20.68  | 20.75  | 20.47  | 22.3                   |
| 10              | 64QAM  | 1  | 25 | 20.63  | 20.55  | 20.62  | 20.35  |                        |
| 10              | 64QAM  | 1  | 49 | 20.66  | 20.52  | 20.38  | 20.38  |                        |
| 10              | 64QAM  | 25 | 0  | 18.88  | 18.85  | 18.72  | 18.57  | 20.3                   |
| 10              | 64QAM  | 25 | 12 | 18.73  | 18.80  | 18.75  | 18.66  |                        |
| 10              | 64QAM  | 25 | 25 | 18.74  | 18.78  | 18.69  | 18.51  |                        |
| 10              | 64QAM  | 50 | 0  | 18.75  | 18.79  | 18.74  | 18.61  |                        |
| 10              | 256QAM | 1  | 0  | 17.59  | 17.41  | 17.43  | 17.42  | 19.3                   |
| 10              | 256QAM | 1  | 25 | 17.48  | 17.40  | 17.40  | 17.39  |                        |
| 10              | 256QAM | 1  | 49 | 17.40  | 17.52  | 17.30  | 17.31  |                        |
| 10              | 256QAM | 25 | 0  | 17.92  | 17.86  | 17.65  | 17.52  | 19.3                   |
| 10              | 256QAM | 25 | 12 | 17.76  | 17.83  | 17.57  | 17.43  |                        |
| 10              | 256QAM | 25 | 25 | 17.72  | 17.70  | 17.62  | 17.30  |                        |
| 10              | 256QAM | 50 | 0  | 17.74  | 17.64  | 17.41  | 17.35  |                        |
| Channel         |        |    |    | 55265  | 55810  | 56170  | 56715  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |        |    |    | 3552.5 | 3607   | 3643   | 3697.5 |                        |
| 5               | QPSK   | 1  | 0  | 21.81  | 21.87  | 21.84  | 21.83  | 22.5                   |
| 5               | QPSK   | 1  | 12 | 21.74  | 21.61  | 21.67  | 21.47  |                        |
| 5               | QPSK   | 1  | 24 | 21.77  | 21.54  | 21.69  | 21.45  |                        |
| 5               | QPSK   | 12 | 0  | 20.71  | 20.69  | 20.81  | 20.74  | 22.3                   |
| 5               | QPSK   | 12 | 7  | 20.79  | 20.64  | 20.72  | 20.52  |                        |
| 5               | QPSK   | 12 | 13 | 20.71  | 20.70  | 20.56  | 20.43  |                        |
| 5               | QPSK   | 25 | 0  | 20.76  | 20.74  | 20.65  | 20.65  |                        |
| 5               | 16QAM  | 1  | 0  | 21.97  | 21.97  | 21.87  | 21.88  | 22.5                   |
| 5               | 16QAM  | 1  | 12 | 21.83  | 21.76  | 21.64  | 21.73  |                        |
| 5               | 16QAM  | 1  | 24 | 21.74  | 21.76  | 21.51  | 21.51  |                        |
| 5               | 16QAM  | 12 | 0  | 19.72  | 19.81  | 19.75  | 19.72  | 21.3                   |
| 5               | 16QAM  | 12 | 7  | 19.79  | 19.76  | 19.80  | 19.48  |                        |
| 5               | 16QAM  | 12 | 13 | 19.80  | 19.64  | 19.77  | 19.54  |                        |
| 5               | 16QAM  | 25 | 0  | 19.72  | 19.78  | 19.78  | 19.51  |                        |
| 5               | 64QAM  | 1  | 0  | 20.70  | 20.85  | 20.78  | 20.40  | 22.3                   |
| 5               | 64QAM  | 1  | 12 | 20.74  | 20.62  | 20.61  | 20.45  |                        |
| 5               | 64QAM  | 1  | 24 | 20.64  | 20.68  | 20.39  | 20.37  |                        |
| 5               | 64QAM  | 12 | 0  | 18.72  | 18.75  | 18.89  | 18.63  | 20.3                   |
| 5               | 64QAM  | 12 | 7  | 18.67  | 18.78  | 18.75  | 18.50  |                        |
| 5               | 64QAM  | 12 | 13 | 18.75  | 18.61  | 18.61  | 18.43  |                        |
| 5               | 64QAM  | 25 | 0  | 18.77  | 18.71  | 18.74  | 18.57  |                        |
| 5               | 256QAM | 1  | 0  | 17.55  | 17.55  | 17.39  | 17.36  | 19.3                   |
| 5               | 256QAM | 1  | 12 | 17.43  | 17.53  | 17.47  | 17.41  |                        |
| 5               | 256QAM | 1  | 24 | 17.39  | 17.41  | 17.34  | 17.39  |                        |
| 5               | 256QAM | 12 | 0  | 17.75  | 17.91  | 17.61  | 17.43  | 19.3                   |
| 5               | 256QAM | 12 | 7  | 17.73  | 17.87  | 17.66  | 17.51  |                        |
| 5               | 256QAM | 12 | 13 | 17.73  | 17.81  | 17.64  | 17.49  |                        |
| 5               | 256QAM | 25 | 0  | 17.76  | 17.77  | 17.43  | 17.40  |                        |

**<5G NR Conducted Power>**
**General Note:**

1. Referencing the procedure in KDB 941225, the test procedures are outlined as below
  - a. For DFT-OFDM output power measurement, full measurement was done for Pi/2 BPSK and QPSK and for the largest supported bandwidth, repeat test for 16QAM/64QAM/256QAM under 1RB 1Offset configuration. For smaller bandwidth, measure conducted power for Pi/2 BPSK and 1RB 1Offset configuration.
  - b. According to the tune-up, CP-OFDM output power is not ½ dB higher than DFT-OFDM mode, and the reported SAR of DFT-OFDM mode reported SAR is  $\leq 1.45$  W/kg, SAR test and thus conducted power for CP-OFDM mode is not required.
  - c. To start SAR test for the largest channel bandwidth for Pi/2 BPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel. Also do SAR test for 50% RB allocation for Pi/2 BPSK SAR testing using 1RB Pi/2 BPSK allocation procedure
  - d. For Pi/2 BPSK with 100% RB allocation, SAR test is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
  - e. For higher modulation QPSK/16QAM/64QAM/256QAM, according to tune-up document the power level is not ½ dB higher than the same configuration in Pi/2 BPSK, also reported SAR for the Pi/2 BPSK configuration is less than 1.45 W/kg, QPSK/16QAM/64QAM/256QAM SAR testing are not required.
  - f. Smaller bandwidth output power for each RB allocation configuration for this device is not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg, smaller bandwidth SAR testing is not required for this device
2. Due to test setup limitations, SAR testing for NR TDD power class 3 was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission. And only for TDD power class2 was performed using Factory Test Mode software to establish the connection and perform SAR with 50% transmission
3. For NR FDD was establishing connections via a base station simulator to use for output power measurement and SAR testing.

**<3GPP 38.101 MPR for EN-DC>**
**Table 6.2.2-1 Maximum power reduction (MPR) for power class 3**

| Modulation |           | MPR (dB)            |                      |                      |
|------------|-----------|---------------------|----------------------|----------------------|
|            |           | Edge RB allocations | Outer RB allocations | Inner RB allocations |
| DFT-s-OFDM | Pi/2 BPSK | $\leq 3.5^1$        | $\leq 1.2^1$         | $\leq 0.2^1$         |
|            |           | $\leq 0.5^2$        | $\leq 0.5^2$         | 0 <sup>2</sup>       |
|            | QPSK      | $\leq 1$            |                      | 0                    |
|            | 16 QAM    | $\leq 2$            |                      | $\leq 1$             |
|            | 64 QAM    | $\leq 2.5$          |                      |                      |
| CP-OFDM    | 256 QAM   | $\leq 4.5$          |                      |                      |
|            | QPSK      | $\leq 3$            |                      | $\leq 1.5$           |
|            | 16 QAM    | $\leq 3$            |                      | $\leq 2$             |
|            | 64 QAM    | $\leq 3.5$          |                      |                      |
|            | 256 QAM   | $\leq 6.5$          |                      |                      |

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

**Table 6.2.2-2 Maximum power reduction (MPR) for power class 2**

| Modulation |           | MPR (dB)            |                      |                      |
|------------|-----------|---------------------|----------------------|----------------------|
|            |           | Edge RB allocations | Outer RB allocations | Inner RB allocations |
| DFT-s-OFDM | Pi/2 BPSK | $\leq 3.5$          | $\leq 0.5$           | 0                    |
|            | QPSK      | $\leq 3.5$          | $\leq 1$             | 0                    |
|            | 16 QAM    | $\leq 3.5$          | $\leq 2$             | $\leq 1$             |
|            | 64 QAM    | $\leq 3.5$          | $\leq 2.5$           |                      |
|            | 256 QAM   | $\leq 4.5$          |                      |                      |
| CP-OFDM    | QPSK      | $\leq 3.5$          | $\leq 3$             | $\leq 1.5$           |
|            | 16 QAM    | $\leq 3.5$          | $\leq 3$             | $\leq 2$             |
|            | 64 QAM    | $\leq 3.5$          |                      |                      |
|            | 256 QAM   | $\leq 6.5$          |                      |                      |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 374000                   | 376000                      | 378000                    | 25.3                   |
| Frequency (MHz) |            |         |           | 1870                     | 1880                        | 1890                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 24.17                    | 24.12                       | 24.10                     |                        |
| 40              | PI/2 BPSK  | 1       | 108       | 24.16                    | 24.12                       | 24.02                     | 24.8                   |
| 40              | PI/2 BPSK  | 1       | 214       | 23.93                    | 23.98                       | 23.88                     |                        |
| 40              | PI/2 BPSK  | 108     | 0         | 23.50                    | 23.53                       | 23.41                     |                        |
| 40              | PI/2 BPSK  | 108     | 54        | 23.97                    | 24.02                       | 23.98                     | 24.8                   |
| 40              | PI/2 BPSK  | 108     | 108       | 23.50                    | 23.52                       | 23.42                     |                        |
| 40              | PI/2 BPSK  | 216     | 0         | 23.52                    | 23.49                       | 23.43                     |                        |
| 40              | QPSK       | 1       | 1         | 24.04                    | 24.08                       | 24.04                     | 25.3                   |
| 40              | QPSK       | 1       | 108       | 24.10                    | 24.08                       | 24.03                     |                        |
| 40              | QPSK       | 1       | 214       | 24.03                    | 23.99                       | 23.90                     |                        |
| 40              | QPSK       | 108     | 0         | 23.01                    | 23.02                       | 22.98                     | 25.3                   |
| 40              | QPSK       | 108     | 54        | 24.00                    | 24.02                       | 23.96                     |                        |
| 40              | QPSK       | 108     | 108       | 22.92                    | 22.93                       | 22.81                     |                        |
| 40              | QPSK       | 216     | 0         | 23.14                    | 23.09                       | 22.98                     | 24.3                   |
| 40              | 16QAM      | 1       | 1         | 23.12                    | 23.13                       | 23.02                     |                        |
| 40              | 64QAM      | 1       | 1         | 21.56                    | 21.57                       | 21.51                     |                        |
| 40              | 256QAM     | 1       | 1         | 19.67                    | 19.68                       | 19.64                     | 20.8                   |
| Channel         |            |         |           | 373000                   | 376000                      | 379000                    | 25.3                   |
| Frequency (MHz) |            |         |           | 1865                     | 1880                        | 1895                      |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 24.07                    | 24.05                       | 24.02                     |                        |
| Channel         |            |         |           | 372500                   | 376000                      | 379500                    | 25.3                   |
| Frequency (MHz) |            |         |           | 1862.5                   | 1880                        | 1897.5                    |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 24.02                    | 24.04                       | 23.98                     |                        |
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    | 25.3                   |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 24.13                    | 23.93                       | 23.91                     |                        |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | 25.3                   |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                        | 1902.5                    |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 24.04                    | 24.02                       | 24.00                     |                        |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | 25.3                   |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1905                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 24.08                    | 24.01                       | 23.95                     |                        |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | 25.3                   |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1907.5                    |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 24.15                    | 24.09                       | 24.01                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 374000                   | 376000                      | 378000                    | 16.5                   |
| Frequency (MHz) |            |         |           | 1870                     | 1880                        | 1890                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 15.93                    | 15.90                       | 15.86                     |                        |
| 40              | PI/2 BPSK  | 1       | 108       | 15.80                    | 15.72                       | 15.68                     | 16.5                   |
| 40              | PI/2 BPSK  | 1       | 214       | 15.92                    | 15.79                       | 15.85                     |                        |
| 40              | PI/2 BPSK  | 108     | 0         | 15.84                    | 15.90                       | 15.79                     |                        |
| 40              | PI/2 BPSK  | 108     | 54        | 15.76                    | 15.79                       | 15.69                     | 16.5                   |
| 40              | PI/2 BPSK  | 108     | 108       | 15.90                    | 15.85                       | 15.84                     | 16.5                   |
| 40              | PI/2 BPSK  | 216     | 0         | 15.75                    | 15.71                       | 15.69                     |                        |
| 40              | QPSK       | 1       | 1         | 15.87                    | 15.72                       | 15.78                     |                        |
| 40              | QPSK       | 1       | 108       | 15.82                    | 15.88                       | 15.81                     | 16.5                   |
| 40              | QPSK       | 1       | 214       | 15.79                    | 15.82                       | 15.76                     |                        |
| 40              | QPSK       | 108     | 0         | 15.83                    | 15.76                       | 15.67                     |                        |
| 40              | QPSK       | 108     | 54        | 15.82                    | 15.76                       | 15.83                     | 16.5                   |
| 40              | QPSK       | 108     | 108       | 15.83                    | 15.89                       | 15.74                     | 16.5                   |
| 40              | QPSK       | 216     | 0         | 15.82                    | 15.89                       | 15.85                     |                        |
| 40              | 16QAM      | 1       | 1         | 15.83                    | 15.83                       | 15.79                     |                        |
| 40              | 64QAM      | 1       | 1         | 15.81                    | 15.79                       | 15.81                     | 16.5                   |
| 40              | 256QAM     | 1       | 1         | 15.90                    | 15.73                       | 15.70                     | 16.5                   |
| Channel         |            |         |           | 373000                   | 376000                      | 379000                    | 16.5                   |
| Frequency (MHz) |            |         |           | 1865                     | 1880                        | 1895                      |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 15.92                    | 15.89                       | 15.80                     |                        |
| Channel         |            |         |           | 372500                   | 376000                      | 379500                    | 16.5                   |
| Frequency (MHz) |            |         |           | 1862.5                   | 1880                        | 1897.5                    |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 15.83                    | 15.71                       | 15.70                     |                        |
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    | 16.5                   |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 15.90                    | 15.90                       | 15.79                     |                        |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | 16.5                   |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                        | 1902.5                    |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 15.73                    | 15.76                       | 15.82                     |                        |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | 16.5                   |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1905                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 15.84                    | 15.82                       | 15.76                     |                        |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | 16.5                   |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1907.5                    |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 15.76                    | 15.88                       | 15.77                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 374000                   | 376000                      | 378000                    | 25.3                   |
| Frequency (MHz) |            |         |           | 1870                     | 1880                        | 1890                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 24.15                    | 24.16                       | 24.11                     |                        |
| 40              | PI/2 BPSK  | 1       | 108       | 24.09                    | 24.13                       | 24.07                     | 24.8                   |
| 40              | PI/2 BPSK  | 1       | 214       | 24.00                    | 24.04                       | 23.94                     |                        |
| 40              | PI/2 BPSK  | 108     | 0         | 23.38                    | 23.46                       | 23.38                     |                        |
| 40              | PI/2 BPSK  | 108     | 54        | 24.00                    | 24.02                       | 23.87                     | 25.3                   |
| 40              | PI/2 BPSK  | 108     | 108       | 23.41                    | 23.46                       | 23.31                     |                        |
| 40              | PI/2 BPSK  | 216     | 0         | 23.47                    | 23.53                       | 23.43                     |                        |
| 40              | QPSK       | 1       | 1         | 24.05                    | 24.08                       | 23.94                     | 25.3                   |
| 40              | QPSK       | 1       | 108       | 23.99                    | 24.07                       | 23.94                     |                        |
| 40              | QPSK       | 1       | 214       | 23.94                    | 24.02                       | 23.92                     |                        |
| 40              | QPSK       | 108     | 0         | 22.79                    | 22.90                       | 22.75                     | 24.3                   |
| 40              | QPSK       | 108     | 54        | 24.00                    | 24.01                       | 23.86                     |                        |
| 40              | QPSK       | 108     | 108       | 22.88                    | 22.92                       | 22.84                     |                        |
| 40              | QPSK       | 216     | 0         | 22.99                    | 23.01                       | 22.86                     | 24.3                   |
| 40              | 16QAM      | 1       | 1         | 22.98                    | 23.04                       | 22.90                     |                        |
| 40              | 64QAM      | 1       | 1         | 21.48                    | 21.55                       | 21.50                     |                        |
| 40              | 256QAM     | 1       | 1         | 19.69                    | 19.71                       | 19.64                     | 20.8                   |
| Channel         |            |         |           | 373000                   | 376000                      | 379000                    | 25.3                   |
| Frequency (MHz) |            |         |           | 1865                     | 1880                        | 1895                      |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 23.99                    | 24.15                       | 23.95                     |                        |
| Channel         |            |         |           | 372500                   | 376000                      | 379500                    | 25.3                   |
| Frequency (MHz) |            |         |           | 1862.5                   | 1880                        | 1897.5                    |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 24.11                    | 24.00                       | 24.06                     |                        |
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    | 25.3                   |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 23.97                    | 24.06                       | 24.03                     |                        |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | 25.3                   |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                        | 1902.5                    |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 24.05                    | 24.05                       | 24.10                     |                        |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | 25.3                   |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1905                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 24.15                    | 23.99                       | 23.97                     |                        |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | 25.3                   |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1907.5                    |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 24.02                    | 23.96                       | 23.98                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 374000                | 376000                   | 378000                 | 24.8                |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 23.82                 | 23.87                    | 23.68                  |                     |
| 40              | PI/2 BPSK  | 1       | 108       | 23.71                 | 23.84                    | 23.58                  | 24.5                |
| 40              | PI/2 BPSK  | 1       | 214       | 23.47                 | 23.56                    | 23.31                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 23.18                 | 23.26                    | 23.01                  |                     |
| 40              | PI/2 BPSK  | 108     | 54        | 23.62                 | 23.72                    | 23.45                  | 24.8                |
| 40              | PI/2 BPSK  | 108     | 108       | 22.93                 | 23.07                    | 22.87                  |                     |
| 40              | PI/2 BPSK  | 216     | 0         | 23.05                 | 23.11                    | 22.90                  |                     |
| 40              | QPSK       | 1       | 1         | 23.60                 | 23.74                    | 23.46                  | 24.5                |
| 40              | QPSK       | 1       | 108       | 23.50                 | 23.56                    | 23.39                  |                     |
| 40              | QPSK       | 1       | 214       | 23.48                 | 23.57                    | 23.38                  |                     |
| 40              | QPSK       | 108     | 0         | 22.46                 | 22.58                    | 22.35                  | 24.8                |
| 40              | QPSK       | 108     | 54        | 23.50                 | 23.62                    | 23.35                  |                     |
| 40              | QPSK       | 108     | 108       | 22.42                 | 22.52                    | 22.44                  |                     |
| 40              | QPSK       | 216     | 0         | 22.59                 | 22.68                    | 22.43                  | 24.0                |
| 40              | 16QAM      | 1       | 1         | 22.66                 | 22.74                    | 22.53                  |                     |
| 40              | 64QAM      | 1       | 1         | 21.18                 | 21.28                    | 21.02                  |                     |
| 40              | 256QAM     | 1       | 1         | 19.46                 | 19.56                    | 19.34                  | 20.5                |
| Channel         |            |         |           | 373000                | 376000                   | 379000                 | 24.8                |
| Frequency (MHz) |            |         |           | 1865                  | 1880                     | 1895                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 23.77                 | 23.79                    | 23.67                  |                     |
| Channel         |            |         |           | 372500                | 376000                   | 379500                 | 24.8                |
| Frequency (MHz) |            |         |           | 1862.5                | 1880                     | 1897.5                 |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 23.82                 | 23.69                    | 23.60                  |                     |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | 24.8                |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 23.67                 | 23.73                    | 23.51                  |                     |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | 24.8                |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 23.74                 | 23.78                    | 23.54                  |                     |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | 24.8                |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 23.72                 | 23.67                    | 23.66                  |                     |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | 24.8                |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 23.81                 | 23.68                    | 23.49                  |                     |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 374000                | 376000                   | 378000                 | 17.7                |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 17.51                 | 17.50                    | 17.48                  |                     |
| 40              | PI/2 BPSK  | 1       | 108       | 17.50                 | 17.41                    | 17.30                  | 17.7                |
| 40              | PI/2 BPSK  | 1       | 214       | 17.43                 | 17.47                    | 17.43                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 17.47                 | 17.30                    | 17.32                  |                     |
| 40              | PI/2 BPSK  | 108     | 54        | 17.48                 | 17.50                    | 17.46                  | 17.7                |
| 40              | PI/2 BPSK  | 108     | 108       | 17.44                 | 17.35                    | 17.45                  | 17.7                |
| 40              | PI/2 BPSK  | 216     | 0         | 17.33                 | 17.35                    | 17.30                  |                     |
| 40              | QPSK       | 1       | 1         | 17.40                 | 17.33                    | 17.38                  |                     |
| 40              | QPSK       | 1       | 108       | 17.45                 | 17.32                    | 17.43                  | 17.7                |
| 40              | QPSK       | 1       | 214       | 17.37                 | 17.47                    | 17.40                  |                     |
| 40              | QPSK       | 108     | 0         | 17.31                 | 17.43                    | 17.43                  |                     |
| 40              | QPSK       | 108     | 54        | 17.38                 | 17.40                    | 17.35                  | 17.7                |
| 40              | QPSK       | 108     | 108       | 17.46                 | 17.49                    | 17.39                  | 17.7                |
| 40              | QPSK       | 216     | 0         | 17.48                 | 17.43                    | 17.33                  |                     |
| 40              | 16QAM      | 1       | 1         | 17.32                 | 17.31                    | 17.38                  |                     |
| 40              | 64QAM      | 1       | 1         | 17.47                 | 17.48                    | 17.34                  | 17.7                |
| 40              | 256QAM     | 1       | 1         | 17.42                 | 17.31                    | 17.46                  | 17.7                |
| Channel         |            |         |           | 373000                | 376000                   | 379000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1865                  | 1880                     | 1895                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 17.50                 | 17.44                    | 17.35                  |                     |
| Channel         |            |         |           | 372500                | 376000                   | 379500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1862.5                | 1880                     | 1897.5                 |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 17.36                 | 17.46                    | 17.29                  |                     |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 17.32                 | 17.37                    | 17.41                  |                     |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 17.36                 | 17.41                    | 17.28                  |                     |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 17.46                 | 17.30                    | 17.38                  |                     |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 17.40                 | 17.50                    | 17.28                  |                     |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 374000                   | 376000                      | 378000                    | 16.6                   |
| Frequency (MHz) |            |         |           | 1870                     | 1880                        | 1890                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 15.93                    | 15.90                       | 15.86                     |                        |
| 40              | PI/2 BPSK  | 1       | 108       | 15.80                    | 15.72                       | 15.68                     | 16.6                   |
| 40              | PI/2 BPSK  | 1       | 214       | 15.92                    | 15.79                       | 15.85                     |                        |
| 40              | PI/2 BPSK  | 108     | 0         | 15.84                    | 15.90                       | 15.79                     |                        |
| 40              | PI/2 BPSK  | 108     | 54        | 15.76                    | 15.79                       | 15.69                     | 16.6                   |
| 40              | PI/2 BPSK  | 108     | 108       | 15.90                    | 15.85                       | 15.84                     | 16.6                   |
| 40              | PI/2 BPSK  | 216     | 0         | 15.75                    | 15.71                       | 15.69                     |                        |
| 40              | QPSK       | 1       | 1         | 15.87                    | 15.72                       | 15.78                     |                        |
| 40              | QPSK       | 1       | 108       | 15.82                    | 15.88                       | 15.81                     | 16.6                   |
| 40              | QPSK       | 1       | 214       | 15.79                    | 15.82                       | 15.76                     |                        |
| 40              | QPSK       | 108     | 0         | 15.83                    | 15.76                       | 15.67                     |                        |
| 40              | QPSK       | 108     | 54        | 15.82                    | 15.76                       | 15.83                     | 16.6                   |
| 40              | QPSK       | 108     | 108       | 15.83                    | 15.89                       | 15.74                     | 16.6                   |
| 40              | QPSK       | 216     | 0         | 15.82                    | 15.89                       | 15.85                     |                        |
| 40              | 16QAM      | 1       | 1         | 15.83                    | 15.83                       | 15.79                     |                        |
| 40              | 64QAM      | 1       | 1         | 15.81                    | 15.79                       | 15.81                     | 16.6                   |
| 40              | 256QAM     | 1       | 1         | 15.90                    | 15.73                       | 15.70                     | 16.6                   |
| Channel         |            |         |           | 373000                   | 376000                      | 379000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1865                     | 1880                        | 1895                      |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 15.92                    | 15.89                       | 15.80                     |                        |
| Channel         |            |         |           | 372500                   | 376000                      | 379500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1862.5                   | 1880                        | 1897.5                    |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 15.83                    | 15.71                       | 15.70                     |                        |
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 15.90                    | 15.90                       | 15.79                     |                        |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                        | 1902.5                    |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 15.73                    | 15.76                       | 15.82                     |                        |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1905                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 15.84                    | 15.82                       | 15.76                     |                        |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1907.5                    |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 15.76                    | 15.88                       | 15.77                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 374000                   | 376000                      | 378000                    | 20.0                   |
| Frequency (MHz) |            |         |           | 1870                     | 1880                        | 1890                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 19.68                    | 19.80                       | 19.64                     |                        |
| 40              | PI/2 BPSK  | 1       | 108       | 19.66                    | 19.75                       | 19.69                     | 20.0                   |
| 40              | PI/2 BPSK  | 1       | 214       | 19.60                    | 19.71                       | 19.43                     |                        |
| 40              | PI/2 BPSK  | 108     | 0         | 19.54                    | 19.57                       | 19.64                     |                        |
| 40              | PI/2 BPSK  | 108     | 54        | 19.74                    | 19.58                       | 19.64                     | 20.0                   |
| 40              | PI/2 BPSK  | 108     | 108       | 19.61                    | 19.44                       | 19.67                     | 20.0                   |
| 40              | PI/2 BPSK  | 216     | 0         | 19.58                    | 19.59                       | 19.52                     |                        |
| 40              | QPSK       | 1       | 1         | 19.51                    | 19.49                       | 19.53                     |                        |
| 40              | QPSK       | 1       | 108       | 19.57                    | 19.78                       | 19.61                     | 20.0                   |
| 40              | QPSK       | 1       | 214       | 19.72                    | 19.67                       | 19.69                     |                        |
| 40              | QPSK       | 108     | 0         | 19.64                    | 19.70                       | 19.63                     |                        |
| 40              | QPSK       | 108     | 54        | 19.73                    | 19.76                       | 19.43                     | 20.0                   |
| 40              | QPSK       | 108     | 108       | 19.52                    | 19.69                       | 19.41                     | 20.0                   |
| 40              | QPSK       | 216     | 0         | 19.75                    | 19.66                       | 19.63                     |                        |
| 40              | 16QAM      | 1       | 1         | 19.60                    | 19.75                       | 19.68                     |                        |
| 40              | 64QAM      | 1       | 1         | 19.64                    | 19.59                       | 19.50                     | 20.0                   |
| 40              | 256QAM     | 1       | 1         | 19.52                    | 19.46                       | 19.28                     | 20.0                   |
| Channel         |            |         |           | 373000                   | 376000                      | 379000                    | 20.0                   |
| Frequency (MHz) |            |         |           | 1865                     | 1880                        | 1895                      |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 19.54                    | 19.68                       | 19.47                     |                        |
| Channel         |            |         |           | 372500                   | 376000                      | 379500                    | 20.0                   |
| Frequency (MHz) |            |         |           | 1862.5                   | 1880                        | 1897.5                    |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 19.49                    | 19.61                       | 19.47                     |                        |
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    | 20.0                   |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 19.64                    | 19.69                       | 19.46                     |                        |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | 20.0                   |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                        | 1902.5                    |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 19.56                    | 19.67                       | 19.57                     |                        |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | 20.0                   |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1905                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 19.59                    | 19.73                       | 19.51                     |                        |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | 20.0                   |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1907.5                    |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 19.60                    | 19.65                       | 19.64                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 374000                   | 376000                      | 378000                    | 22.4                   |
| Frequency (MHz) |            |         |           | 1870                     | 1880                        | 1890                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 22.12                    | 22.18                       | 21.98                     |                        |
| 40              | PI/2 BPSK  | 1       | 108       | 22.06                    | 22.14                       | 21.89                     | 22.4                   |
| 40              | PI/2 BPSK  | 1       | 214       | 21.85                    | 21.94                       | 21.70                     |                        |
| 40              | PI/2 BPSK  | 108     | 0         | 22.03                    | 22.08                       | 21.86                     |                        |
| 40              | PI/2 BPSK  | 108     | 54        | 21.94                    | 22.15                       | 21.87                     | 22.4                   |
| 40              | PI/2 BPSK  | 108     | 108       | 21.78                    | 21.89                       | 21.71                     | 22.4                   |
| 40              | PI/2 BPSK  | 216     | 0         | 21.85                    | 21.93                       | 21.79                     |                        |
| 40              | QPSK       | 1       | 1         | 21.99                    | 22.09                       | 21.79                     |                        |
| 40              | QPSK       | 1       | 108       | 21.81                    | 21.90                       | 21.75                     | 22.4                   |
| 40              | QPSK       | 1       | 214       | 21.85                    | 21.90                       | 21.72                     |                        |
| 40              | QPSK       | 108     | 0         | 21.28                    | 21.40                       | 21.23                     |                        |
| 40              | QPSK       | 108     | 54        | 21.86                    | 21.93                       | 21.69                     | 22.4                   |
| 40              | QPSK       | 108     | 108       | 21.22                    | 21.36                       | 21.27                     | 22.4                   |
| 40              | QPSK       | 216     | 0         | 21.45                    | 21.58                       | 21.26                     |                        |
| 40              | 16QAM      | 1       | 1         | 21.56                    | 21.60                       | 21.41                     |                        |
| 40              | 64QAM      | 1       | 1         | 21.10                    | 21.25                       | 20.94                     | 22.4                   |
| 40              | 256QAM     | 1       | 1         | 19.46                    | 19.56                       | 19.34                     | 20.5                   |
| Channel         |            |         |           | 373000                   | 376000                      | 379000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1865                     | 1880                        | 1895                      |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 22.07                    | 22.14                       | 21.99                     |                        |
| Channel         |            |         |           | 372500                   | 376000                      | 379500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1862.5                   | 1880                        | 1897.5                    |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 22.16                    | 22.05                       | 21.92                     |                        |
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 22.06                    | 22.05                       | 21.82                     |                        |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                        | 1902.5                    |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 22.07                    | 22.08                       | 21.84                     |                        |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1905                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 22.09                    | 21.97                       | 21.98                     |                        |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1907.5                    |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 22.17                    | 21.98                       | 21.89                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 374000                | 376000                   | 378000                 | 18.5                |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 17.51                 | 17.50                    | 17.48                  |                     |
| 40              | PI/2 BPSK  | 1       | 108       | 17.50                 | 17.41                    | 17.30                  | 18.5                |
| 40              | PI/2 BPSK  | 1       | 214       | 17.43                 | 17.47                    | 17.43                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 17.47                 | 17.30                    | 17.32                  |                     |
| 40              | PI/2 BPSK  | 108     | 54        | 17.48                 | 17.50                    | 17.46                  | 18.5                |
| 40              | PI/2 BPSK  | 108     | 108       | 17.44                 | 17.35                    | 17.45                  | 18.5                |
| 40              | PI/2 BPSK  | 216     | 0         | 17.33                 | 17.35                    | 17.30                  |                     |
| 40              | QPSK       | 1       | 1         | 17.40                 | 17.33                    | 17.38                  |                     |
| 40              | QPSK       | 1       | 108       | 17.45                 | 17.32                    | 17.43                  | 18.5                |
| 40              | QPSK       | 1       | 214       | 17.37                 | 17.47                    | 17.40                  |                     |
| 40              | QPSK       | 108     | 0         | 17.31                 | 17.43                    | 17.43                  |                     |
| 40              | QPSK       | 108     | 54        | 17.38                 | 17.40                    | 17.35                  | 18.5                |
| 40              | QPSK       | 108     | 108       | 17.46                 | 17.49                    | 17.39                  | 18.5                |
| 40              | QPSK       | 216     | 0         | 17.48                 | 17.43                    | 17.33                  |                     |
| 40              | 16QAM      | 1       | 1         | 17.32                 | 17.31                    | 17.38                  |                     |
| 40              | 64QAM      | 1       | 1         | 17.47                 | 17.48                    | 17.34                  | 18.5                |
| 40              | 256QAM     | 1       | 1         | 17.42                 | 17.31                    | 17.46                  | 18.5                |
| Channel         |            |         |           | 373000                | 376000                   | 379000                 | 18.5                |
| Frequency (MHz) |            |         |           | 1865                  | 1880                     | 1895                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 17.50                 | 17.44                    | 17.35                  |                     |
| Channel         |            |         |           | 372500                | 376000                   | 379500                 | 18.5                |
| Frequency (MHz) |            |         |           | 1862.5                | 1880                     | 1897.5                 |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 17.36                 | 17.46                    | 17.29                  |                     |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | 18.5                |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 17.32                 | 17.37                    | 17.41                  |                     |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | 18.5                |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 17.36                 | 17.41                    | 17.28                  |                     |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | 18.5                |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 17.46                 | 17.30                    | 17.38                  |                     |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | 18.5                |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 17.40                 | 17.50                    | 17.28                  |                     |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 374000                | 376000                   | 378000                 | 19.1                |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 18.00                 | 18.03                    | 17.94                  |                     |
| 40              | PI/2 BPSK  | 1       | 108       | 17.89                 | 17.83                    | 17.75                  | 19.1                |
| 40              | PI/2 BPSK  | 1       | 214       | 17.97                 | 17.93                    | 17.89                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 17.96                 | 17.94                    | 17.89                  |                     |
| 40              | PI/2 BPSK  | 108     | 54        | 17.97                 | 18.02                    | 17.91                  | 19.1                |
| 40              | PI/2 BPSK  | 108     | 108       | 17.91                 | 17.85                    | 17.90                  | 19.1                |
| 40              | PI/2 BPSK  | 216     | 0         | 17.94                 | 17.97                    | 17.75                  |                     |
| 40              | QPSK       | 1       | 1         | 17.81                 | 17.88                    | 17.88                  |                     |
| 40              | QPSK       | 1       | 108       | 17.97                 | 17.88                    | 17.91                  | 19.1                |
| 40              | QPSK       | 1       | 214       | 17.91                 | 18.00                    | 17.79                  |                     |
| 40              | QPSK       | 108     | 0         | 17.93                 | 17.93                    | 17.93                  |                     |
| 40              | QPSK       | 108     | 54        | 17.90                 | 17.99                    | 17.93                  | 19.1                |
| 40              | QPSK       | 108     | 108       | 17.81                 | 17.97                    | 17.77                  | 19.1                |
| 40              | QPSK       | 216     | 0         | 17.99                 | 17.92                    | 17.94                  |                     |
| 40              | 16QAM      | 1       | 1         | 17.95                 | 17.91                    | 17.85                  |                     |
| 40              | 64QAM      | 1       | 1         | 17.99                 | 18.00                    | 17.77                  | 19.1                |
| 40              | 256QAM     | 1       | 1         | 17.82                 | 17.92                    | 17.86                  | 19.1                |
| Channel         |            |         |           | 373000                | 376000                   | 379000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1865                  | 1880                     | 1895                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 17.83                 | 17.99                    | 17.93                  |                     |
| Channel         |            |         |           | 372500                | 376000                   | 379500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1862.5                | 1880                     | 1897.5                 |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 17.89                 | 17.84                    | 17.75                  |                     |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 17.97                 | 17.88                    | 17.85                  |                     |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 17.97                 | 18.01                    | 17.74                  |                     |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 17.93                 | 18.00                    | 17.81                  |                     |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 17.89                 | 17.96                    | 17.75                  |                     |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 374000                   | 376000                      | 378000                    | 20.8                   |
| Frequency (MHz) |            |         |           | 1870                     | 1880                        | 1890                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 19.68                    | 19.80                       | 19.64                     |                        |
| 40              | PI/2 BPSK  | 1       | 108       | 19.66                    | 19.75                       | 19.69                     | 20.8                   |
| 40              | PI/2 BPSK  | 1       | 214       | 19.60                    | 19.71                       | 19.43                     |                        |
| 40              | PI/2 BPSK  | 108     | 0         | 19.54                    | 19.57                       | 19.64                     |                        |
| 40              | PI/2 BPSK  | 108     | 54        | 19.74                    | 19.58                       | 19.64                     | 20.8                   |
| 40              | PI/2 BPSK  | 108     | 108       | 19.61                    | 19.44                       | 19.67                     | 20.8                   |
| 40              | PI/2 BPSK  | 216     | 0         | 19.58                    | 19.59                       | 19.52                     |                        |
| 40              | QPSK       | 1       | 1         | 19.51                    | 19.49                       | 19.53                     |                        |
| 40              | QPSK       | 1       | 108       | 19.57                    | 19.78                       | 19.61                     | 20.8                   |
| 40              | QPSK       | 1       | 214       | 19.72                    | 19.67                       | 19.69                     |                        |
| 40              | QPSK       | 108     | 0         | 19.64                    | 19.70                       | 19.63                     |                        |
| 40              | QPSK       | 108     | 54        | 19.73                    | 19.76                       | 19.43                     | 20.8                   |
| 40              | QPSK       | 108     | 108       | 19.52                    | 19.69                       | 19.41                     | 20.8                   |
| 40              | QPSK       | 216     | 0         | 19.75                    | 19.66                       | 19.63                     |                        |
| 40              | 16QAM      | 1       | 1         | 19.60                    | 19.75                       | 19.68                     |                        |
| 40              | 64QAM      | 1       | 1         | 19.64                    | 19.59                       | 19.50                     | 20.8                   |
| 40              | 256QAM     | 1       | 1         | 19.52                    | 19.46                       | 19.28                     | 20.8                   |
| Channel         |            |         |           | 373000                   | 376000                      | 379000                    | 20.8                   |
| Frequency (MHz) |            |         |           | 1865                     | 1880                        | 1895                      |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 19.54                    | 19.68                       | 19.47                     |                        |
| Channel         |            |         |           | 372500                   | 376000                      | 379500                    | 20.8                   |
| Frequency (MHz) |            |         |           | 1862.5                   | 1880                        | 1897.5                    |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 19.49                    | 19.61                       | 19.47                     |                        |
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    | 20.8                   |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 19.64                    | 19.69                       | 19.46                     |                        |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | 20.8                   |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                        | 1902.5                    |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 19.56                    | 19.67                       | 19.57                     |                        |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | 20.8                   |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1905                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 19.59                    | 19.73                       | 19.51                     |                        |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | 20.8                   |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1907.5                    |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 19.60                    | 19.65                       | 19.64                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 374000                   | 376000                      | 378000                    | 23.2                   |
| Frequency (MHz) |            |         |           | 1870                     | 1880                        | 1890                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 22.12                    | 22.18                       | 21.98                     |                        |
| 40              | PI/2 BPSK  | 1       | 108       | 22.06                    | 22.14                       | 21.89                     | 23.2                   |
| 40              | PI/2 BPSK  | 1       | 214       | 21.85                    | 21.94                       | 21.70                     |                        |
| 40              | PI/2 BPSK  | 108     | 0         | 22.03                    | 22.08                       | 21.86                     |                        |
| 40              | PI/2 BPSK  | 108     | 54        | 21.94                    | 22.15                       | 21.87                     | 23.2                   |
| 40              | PI/2 BPSK  | 108     | 108       | 21.78                    | 21.89                       | 21.71                     | 23.2                   |
| 40              | PI/2 BPSK  | 216     | 0         | 21.85                    | 21.93                       | 21.79                     |                        |
| 40              | QPSK       | 1       | 1         | 21.99                    | 22.09                       | 21.79                     |                        |
| 40              | QPSK       | 1       | 108       | 21.81                    | 21.90                       | 21.75                     | 23.2                   |
| 40              | QPSK       | 1       | 214       | 21.85                    | 21.90                       | 21.72                     |                        |
| 40              | QPSK       | 108     | 0         | 21.28                    | 21.40                       | 21.23                     |                        |
| 40              | QPSK       | 108     | 54        | 21.86                    | 21.93                       | 21.69                     | 23.2                   |
| 40              | QPSK       | 108     | 108       | 21.22                    | 21.36                       | 21.27                     | 23.2                   |
| 40              | QPSK       | 216     | 0         | 21.45                    | 21.58                       | 21.26                     |                        |
| 40              | 16QAM      | 1       | 1         | 21.56                    | 21.60                       | 21.41                     |                        |
| 40              | 64QAM      | 1       | 1         | 21.10                    | 21.25                       | 20.94                     | 22.5                   |
| 40              | 256QAM     | 1       | 1         | 19.46                    | 19.56                       | 19.34                     | 20.5                   |
| Channel         |            |         |           | 373000                   | 376000                      | 379000                    | 23.2                   |
| Frequency (MHz) |            |         |           | 1865                     | 1880                        | 1895                      |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 22.07                    | 22.14                       | 21.99                     |                        |
| Channel         |            |         |           | 372500                   | 376000                      | 379500                    | 23.2                   |
| Frequency (MHz) |            |         |           | 1862.5                   | 1880                        | 1897.5                    |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 22.16                    | 22.05                       | 21.92                     |                        |
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    | 23.2                   |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 22.06                    | 22.05                       | 21.82                     |                        |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | 23.2                   |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                        | 1902.5                    |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 22.07                    | 22.08                       | 21.84                     |                        |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | 23.2                   |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1905                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 22.09                    | 21.97                       | 21.98                     |                        |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | 23.2                   |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1907.5                    |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 22.17                    | 21.98                       | 21.89                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 374000                | 376000                   | 378000                 | 17.7                |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 17.51                 | 17.50                    | 17.48                  |                     |
| 40              | PI/2 BPSK  | 1       | 108       | 17.50                 | 17.41                    | 17.30                  | 17.7                |
| 40              | PI/2 BPSK  | 1       | 214       | 17.43                 | 17.47                    | 17.43                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 17.47                 | 17.30                    | 17.32                  |                     |
| 40              | PI/2 BPSK  | 108     | 54        | 17.48                 | 17.50                    | 17.46                  | 17.7                |
| 40              | PI/2 BPSK  | 108     | 108       | 17.44                 | 17.35                    | 17.45                  | 17.7                |
| 40              | PI/2 BPSK  | 216     | 0         | 17.33                 | 17.35                    | 17.30                  |                     |
| 40              | QPSK       | 1       | 1         | 17.40                 | 17.33                    | 17.38                  |                     |
| 40              | QPSK       | 1       | 108       | 17.45                 | 17.32                    | 17.43                  | 17.7                |
| 40              | QPSK       | 1       | 214       | 17.37                 | 17.47                    | 17.40                  |                     |
| 40              | QPSK       | 108     | 0         | 17.31                 | 17.43                    | 17.43                  |                     |
| 40              | QPSK       | 108     | 54        | 17.38                 | 17.40                    | 17.35                  | 17.7                |
| 40              | QPSK       | 108     | 108       | 17.46                 | 17.49                    | 17.39                  | 17.7                |
| 40              | QPSK       | 216     | 0         | 17.48                 | 17.43                    | 17.33                  |                     |
| 40              | 16QAM      | 1       | 1         | 17.32                 | 17.31                    | 17.38                  |                     |
| 40              | 64QAM      | 1       | 1         | 17.47                 | 17.48                    | 17.34                  | 17.7                |
| 40              | 256QAM     | 1       | 1         | 17.42                 | 17.31                    | 17.46                  | 17.7                |
| Channel         |            |         |           | 373000                | 376000                   | 379000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1865                  | 1880                     | 1895                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 17.50                 | 17.44                    | 17.35                  |                     |
| Channel         |            |         |           | 372500                | 376000                   | 379500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1862.5                | 1880                     | 1897.5                 |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 17.36                 | 17.46                    | 17.29                  |                     |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 17.32                 | 17.37                    | 17.41                  |                     |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 17.36                 | 17.41                    | 17.28                  |                     |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 17.46                 | 17.30                    | 17.38                  |                     |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 17.40                 | 17.50                    | 17.28                  |                     |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 374000                | 376000                   | 378000                 | 18.3                |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 18.00                 | 18.03                    | 17.94                  |                     |
| 40              | PI/2 BPSK  | 1       | 108       | 17.89                 | 17.83                    | 17.75                  | 18.3                |
| 40              | PI/2 BPSK  | 1       | 214       | 17.97                 | 17.93                    | 17.89                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 17.96                 | 17.94                    | 17.89                  |                     |
| 40              | PI/2 BPSK  | 108     | 54        | 17.97                 | 18.02                    | 17.91                  | 18.3                |
| 40              | PI/2 BPSK  | 108     | 108       | 17.91                 | 17.85                    | 17.90                  | 18.3                |
| 40              | PI/2 BPSK  | 216     | 0         | 17.94                 | 17.97                    | 17.75                  |                     |
| 40              | QPSK       | 1       | 1         | 17.81                 | 17.88                    | 17.88                  |                     |
| 40              | QPSK       | 1       | 108       | 17.97                 | 17.88                    | 17.91                  | 18.3                |
| 40              | QPSK       | 1       | 214       | 17.91                 | 18.00                    | 17.79                  |                     |
| 40              | QPSK       | 108     | 0         | 17.93                 | 17.93                    | 17.93                  |                     |
| 40              | QPSK       | 108     | 54        | 17.90                 | 17.99                    | 17.93                  | 18.3                |
| 40              | QPSK       | 108     | 108       | 17.81                 | 17.97                    | 17.77                  | 18.3                |
| 40              | QPSK       | 216     | 0         | 17.99                 | 17.92                    | 17.94                  |                     |
| 40              | 16QAM      | 1       | 1         | 17.95                 | 17.91                    | 17.85                  |                     |
| 40              | 64QAM      | 1       | 1         | 17.99                 | 18.00                    | 17.77                  | 18.3                |
| 40              | 256QAM     | 1       | 1         | 17.82                 | 17.92                    | 17.86                  | 18.3                |
| Channel         |            |         |           | 373000                | 376000                   | 379000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1865                  | 1880                     | 1895                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 17.83                 | 17.99                    | 17.93                  |                     |
| Channel         |            |         |           | 372500                | 376000                   | 379500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1862.5                | 1880                     | 1897.5                 |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 17.89                 | 17.84                    | 17.75                  |                     |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 17.97                 | 17.88                    | 17.85                  |                     |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 17.97                 | 18.01                    | 17.74                  |                     |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 17.93                 | 18.00                    | 17.81                  |                     |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 17.89                 | 17.96                    | 17.75                  |                     |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Channel         |            |         |           | 374000                | 376000                   | 378000                 | 20.0                |
| Frequency (MHz) |            |         |           | 1870                  | 1880                     | 1890                   |                     |
| 40              | PI/2 BPSK  | 1       | 1         | 19.68                 | 19.80                    | 19.64                  |                     |
| 40              | PI/2 BPSK  | 1       | 108       | 19.66                 | 19.75                    | 19.69                  | 20.0                |
| 40              | PI/2 BPSK  | 1       | 214       | 19.60                 | 19.71                    | 19.43                  |                     |
| 40              | PI/2 BPSK  | 108     | 0         | 19.54                 | 19.57                    | 19.64                  |                     |
| 40              | PI/2 BPSK  | 108     | 54        | 19.74                 | 19.58                    | 19.64                  | 20.0                |
| 40              | PI/2 BPSK  | 108     | 108       | 19.61                 | 19.44                    | 19.67                  | 20.0                |
| 40              | PI/2 BPSK  | 216     | 0         | 19.58                 | 19.59                    | 19.52                  |                     |
| 40              | QPSK       | 1       | 1         | 19.51                 | 19.49                    | 19.53                  |                     |
| 40              | QPSK       | 1       | 108       | 19.57                 | 19.78                    | 19.61                  | 20.0                |
| 40              | QPSK       | 1       | 214       | 19.72                 | 19.67                    | 19.69                  |                     |
| 40              | QPSK       | 108     | 0         | 19.64                 | 19.70                    | 19.63                  |                     |
| 40              | QPSK       | 108     | 54        | 19.73                 | 19.76                    | 19.43                  | 20.0                |
| 40              | QPSK       | 108     | 108       | 19.52                 | 19.69                    | 19.41                  | 20.0                |
| 40              | QPSK       | 216     | 0         | 19.75                 | 19.66                    | 19.63                  |                     |
| 40              | 16QAM      | 1       | 1         | 19.60                 | 19.75                    | 19.68                  |                     |
| 40              | 64QAM      | 1       | 1         | 19.64                 | 19.59                    | 19.50                  | 20.0                |
| 40              | 256QAM     | 1       | 1         | 19.52                 | 19.46                    | 19.28                  | 20.0                |
| Channel         |            |         |           | 373000                | 376000                   | 379000                 | 20.0                |
| Frequency (MHz) |            |         |           | 1865                  | 1880                     | 1895                   |                     |
| 30              | PI/2 BPSK  | 1       | 1         | 19.54                 | 19.68                    | 19.47                  |                     |
| Channel         |            |         |           | 372500                | 376000                   | 379500                 | 20.0                |
| Frequency (MHz) |            |         |           | 1862.5                | 1880                     | 1897.5                 |                     |
| 25              | PI/2 BPSK  | 1       | 1         | 19.49                 | 19.61                    | 19.47                  |                     |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | 20.0                |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 19.64                 | 19.69                    | 19.46                  |                     |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | 20.0                |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 19.56                 | 19.67                    | 19.57                  |                     |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | 20.0                |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 19.59                 | 19.73                    | 19.51                  |                     |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | 20.0                |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 19.60                 | 19.65                    | 19.64                  |                     |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 374000                   | 376000                      | 378000                    | 22.4                   |
| Frequency (MHz) |            |         |           | 1870                     | 1880                        | 1890                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 22.12                    | 22.18                       | 21.98                     |                        |
| 40              | PI/2 BPSK  | 1       | 108       | 22.06                    | 22.14                       | 21.89                     | 22.4                   |
| 40              | PI/2 BPSK  | 1       | 214       | 21.85                    | 21.94                       | 21.70                     |                        |
| 40              | PI/2 BPSK  | 108     | 0         | 22.03                    | 22.08                       | 21.86                     |                        |
| 40              | PI/2 BPSK  | 108     | 54        | 21.94                    | 22.15                       | 21.87                     | 22.4                   |
| 40              | PI/2 BPSK  | 108     | 108       | 21.78                    | 21.89                       | 21.71                     | 22.4                   |
| 40              | PI/2 BPSK  | 216     | 0         | 21.85                    | 21.93                       | 21.79                     |                        |
| 40              | QPSK       | 1       | 1         | 21.99                    | 22.09                       | 21.79                     |                        |
| 40              | QPSK       | 1       | 108       | 21.81                    | 21.90                       | 21.75                     | 22.4                   |
| 40              | QPSK       | 1       | 214       | 21.85                    | 21.90                       | 21.72                     |                        |
| 40              | QPSK       | 108     | 0         | 21.28                    | 21.40                       | 21.23                     |                        |
| 40              | QPSK       | 108     | 54        | 21.86                    | 21.93                       | 21.69                     | 22.4                   |
| 40              | QPSK       | 108     | 108       | 21.22                    | 21.36                       | 21.27                     | 22.4                   |
| 40              | QPSK       | 216     | 0         | 21.45                    | 21.58                       | 21.26                     |                        |
| 40              | 16QAM      | 1       | 1         | 21.56                    | 21.60                       | 21.41                     |                        |
| 40              | 64QAM      | 1       | 1         | 21.10                    | 21.25                       | 20.94                     | 22.4                   |
| 40              | 256QAM     | 1       | 1         | 19.46                    | 19.56                       | 19.34                     | 20.5                   |
| Channel         |            |         |           | 373000                   | 376000                      | 379000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1865                     | 1880                        | 1895                      |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 22.07                    | 22.14                       | 21.99                     |                        |
| Channel         |            |         |           | 372500                   | 376000                      | 379500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1862.5                   | 1880                        | 1897.5                    |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 22.16                    | 22.05                       | 21.92                     |                        |
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 22.06                    | 22.05                       | 21.82                     |                        |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                        | 1902.5                    |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 22.07                    | 22.08                       | 21.84                     |                        |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1905                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 22.09                    | 21.97                       | 21.98                     |                        |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1907.5                    |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 22.17                    | 21.98                       | 21.89                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 166800                   | 167300                      | 167800                    |                        |
| Frequency (MHz) |            |         |           | 834                      | 836.5                       | 839                       |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 24.21                    | 24.18                       | 24.07                     |                        |
| 20              | PI/2 BPSK  | 1       | 53        | 24.20                    | 24.18                       | 24.06                     | 25.7                   |
| 20              | PI/2 BPSK  | 1       | 104       | 24.13                    | 24.11                       | 23.96                     |                        |
| 20              | PI/2 BPSK  | 50      | 0         | 23.63                    | 23.61                       | 23.50                     |                        |
| 20              | PI/2 BPSK  | 50      | 28        | 24.18                    | 24.16                       | 24.03                     | 25.2                   |
| 20              | PI/2 BPSK  | 50      | 56        | 23.57                    | 23.55                       | 23.44                     | 25.7                   |
| 20              | PI/2 BPSK  | 100     | 0         | 23.66                    | 23.66                       | 23.47                     |                        |
| 20              | QPSK       | 1       | 1         | 24.15                    | 24.12                       | 23.99                     |                        |
| 20              | QPSK       | 1       | 53        | 24.10                    | 24.14                       | 24.02                     | 25.7                   |
| 20              | QPSK       | 1       | 104       | 24.09                    | 24.09                       | 23.91                     |                        |
| 20              | QPSK       | 50      | 0         | 23.02                    | 23.09                       | 22.89                     |                        |
| 20              | QPSK       | 50      | 28        | 24.09                    | 24.13                       | 23.96                     | 24.7                   |
| 20              | QPSK       | 50      | 56        | 23.06                    | 23.04                       | 22.84                     | 25.7                   |
| 20              | QPSK       | 100     | 0         | 23.19                    | 23.16                       | 23.01                     |                        |
| 20              | 16QAM      | 1       | 1         | 23.15                    | 23.13                       | 23.02                     |                        |
| 20              | 64QAM      | 1       | 1         | 21.58                    | 21.64                       | 21.47                     | 24.7                   |
| 20              | 256QAM     | 1       | 1         | 19.63                    | 19.68                       | 19.50                     | 23.2                   |
| Channel         |            |         |           | 166300                   | 167300                      | 168300                    | 21.2                   |
| Frequency (MHz) |            |         |           | 831.5                    | 836.5                       | 841.5                     |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 24.20                    | 24.06                       | 24.04                     |                        |
| Channel         |            |         |           | 165800                   | 167300                      | 168800                    | 25.7                   |
| Frequency (MHz) |            |         |           | 829                      | 836.5                       | 844                       |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 24.20                    | 24.09                       | 23.93                     |                        |
| Channel         |            |         |           | 165300                   | 167300                      | 169300                    | 25.7                   |
| Frequency (MHz) |            |         |           | 826.5                    | 836.5                       | 846.5                     |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 24.01                    | 24.15                       | 24.00                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 166800                   | 167300                      | 167800                    |                        |
| Frequency (MHz) |            |         |           | 834                      | 836.5                       | 839                       |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 22.87                    | 22.89                       | 22.81                     |                        |
| 20              | PI/2 BPSK  | 1       | 53        | 22.73                    | 22.72                       | 22.70                     | 23.1                   |
| 20              | PI/2 BPSK  | 1       | 104       | 22.75                    | 22.69                       | 22.71                     |                        |
| 20              | PI/2 BPSK  | 50      | 0         | 22.80                    | 22.80                       | 22.79                     |                        |
| 20              | PI/2 BPSK  | 50      | 28        | 22.77                    | 22.77                       | 22.62                     | 23.1                   |
| 20              | PI/2 BPSK  | 50      | 56        | 22.87                    | 22.70                       | 22.78                     | 23.1                   |
| 20              | PI/2 BPSK  | 100     | 0         | 22.69                    | 22.77                       | 22.66                     |                        |
| 20              | QPSK       | 1       | 1         | 22.73                    | 22.73                       | 22.78                     |                        |
| 20              | QPSK       | 1       | 53        | 22.69                    | 22.86                       | 22.66                     | 23.1                   |
| 20              | QPSK       | 1       | 104       | 22.82                    | 22.86                       | 22.77                     |                        |
| 20              | QPSK       | 50      | 0         | 22.76                    | 22.74                       | 22.65                     |                        |
| 20              | QPSK       | 50      | 28        | 22.75                    | 22.74                       | 22.63                     | 23.1                   |
| 20              | QPSK       | 50      | 56        | 22.82                    | 22.84                       | 22.80                     | 23.1                   |
| 20              | QPSK       | 100     | 0         | 22.69                    | 22.77                       | 22.66                     |                        |
| 20              | 16QAM      | 1       | 1         | 22.81                    | 22.86                       | 22.74                     |                        |
| 20              | 64QAM      | 1       | 1         | 21.57                    | 21.62                       | 21.55                     | 23.1                   |
| 20              | 256QAM     | 1       | 1         | 19.54                    | 19.54                       | 19.52                     | 21.2                   |
| Channel         |            |         |           | 166300                   | 167300                      | 168300                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 831.5                    | 836.5                       | 841.5                     |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 22.84                    | 22.79                       | 22.76                     |                        |
| Channel         |            |         |           | 165800                   | 167300                      | 168800                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 829                      | 836.5                       | 844                       |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 22.70                    | 22.73                       | 22.81                     |                        |
| Channel         |            |         |           | 165300                   | 167300                      | 169300                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 826.5                    | 836.5                       | 846.5                     |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 22.79                    | 22.72                       | 22.72                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 166800                   | 167300                      | 167800                    |                        |
| Frequency (MHz) |            |         |           | 834                      | 836.5                       | 839                       |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 24.21                    | 24.18                       | 24.07                     |                        |
| 20              | PI/2 BPSK  | 1       | 53        | 24.20                    | 24.18                       | 24.06                     | 25.7                   |
| 20              | PI/2 BPSK  | 1       | 104       | 24.13                    | 24.11                       | 23.96                     |                        |
| 20              | PI/2 BPSK  | 50      | 0         | 23.63                    | 23.61                       | 23.50                     |                        |
| 20              | PI/2 BPSK  | 50      | 28        | 24.18                    | 24.16                       | 24.03                     | 25.2                   |
| 20              | PI/2 BPSK  | 50      | 56        | 23.57                    | 23.55                       | 23.44                     | 25.7                   |
| 20              | PI/2 BPSK  | 100     | 0         | 23.66                    | 23.66                       | 23.47                     |                        |
| 20              | QPSK       | 1       | 1         | 24.15                    | 24.12                       | 23.99                     |                        |
| 20              | QPSK       | 1       | 53        | 24.10                    | 24.14                       | 24.02                     | 25.7                   |
| 20              | QPSK       | 1       | 104       | 24.09                    | 24.09                       | 23.91                     |                        |
| 20              | QPSK       | 50      | 0         | 23.02                    | 23.09                       | 22.89                     |                        |
| 20              | QPSK       | 50      | 28        | 24.09                    | 24.13                       | 23.96                     | 24.7                   |
| 20              | QPSK       | 50      | 56        | 23.06                    | 23.04                       | 22.84                     | 25.7                   |
| 20              | QPSK       | 100     | 0         | 23.19                    | 23.16                       | 23.01                     |                        |
| 20              | 16QAM      | 1       | 1         | 23.15                    | 23.13                       | 23.02                     |                        |
| 20              | 64QAM      | 1       | 1         | 21.58                    | 21.64                       | 21.47                     | 24.7                   |
| 20              | 256QAM     | 1       | 1         | 19.63                    | 19.68                       | 19.50                     | 23.2                   |
| Channel         |            |         |           | 166300                   | 167300                      | 168300                    | 21.2                   |
| Frequency (MHz) |            |         |           | 831.5                    | 836.5                       | 841.5                     |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 24.20                    | 24.06                       | 24.04                     |                        |
| Channel         |            |         |           | 165800                   | 167300                      | 168800                    | 25.7                   |
| Frequency (MHz) |            |         |           | 829                      | 836.5                       | 844                       |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 24.20                    | 24.09                       | 23.93                     |                        |
| Channel         |            |         |           | 165300                   | 167300                      | 169300                    | 25.7                   |
| Frequency (MHz) |            |         |           | 826.5                    | 836.5                       | 846.5                     |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 24.01                    | 24.15                       | 24.00                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 166800                   | 167300                      | 167800                    | 25.7                   |
| Frequency (MHz) |            |         |           | 834                      | 836.5                       | 839                       |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 24.18                    | 24.17                       | 24.07                     |                        |
| 20              | PI/2 BPSK  | 1       | 53        | 24.07                    | 24.13                       | 23.95                     | 25.2                   |
| 20              | PI/2 BPSK  | 1       | 104       | 24.01                    | 24.00                       | 23.88                     |                        |
| 20              | PI/2 BPSK  | 50      | 0         | 23.56                    | 23.55                       | 23.37                     |                        |
| 20              | PI/2 BPSK  | 50      | 28        | 24.08                    | 24.08                       | 23.95                     | 25.2                   |
| 20              | PI/2 BPSK  | 50      | 56        | 23.39                    | 23.45                       | 23.27                     |                        |
| 20              | PI/2 BPSK  | 100     | 0         | 23.58                    | 23.61                       | 23.45                     |                        |
| 20              | QPSK       | 1       | 1         | 24.03                    | 24.10                       | 23.97                     | 25.7                   |
| 20              | QPSK       | 1       | 53        | 24.12                    | 24.16                       | 23.96                     |                        |
| 20              | QPSK       | 1       | 104       | 24.00                    | 24.05                       | 23.87                     |                        |
| 20              | QPSK       | 50      | 0         | 23.01                    | 23.07                       | 22.97                     | 24.7                   |
| 20              | QPSK       | 50      | 28        | 24.03                    | 24.07                       | 23.91                     | 25.7                   |
| 20              | QPSK       | 50      | 56        | 22.98                    | 23.00                       | 22.81                     | 24.7                   |
| 20              | QPSK       | 100     | 0         | 23.05                    | 23.12                       | 22.93                     |                        |
| 20              | 16QAM      | 1       | 1         | 23.06                    | 23.10                       | 22.90                     |                        |
| 20              | 64QAM      | 1       | 1         | 21.56                    | 21.59                       | 21.48                     | 23.2                   |
| 20              | 256QAM     | 1       | 1         | 19.45                    | 19.49                       | 19.33                     | 21.2                   |
| Channel         |            |         |           | 166300                   | 167300                      | 168300                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 831.5                    | 836.5                       | 841.5                     |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 23.99                    | 24.00                       | 24.02                     | 25.7                   |
| Channel         |            |         |           | 165800                   | 167300                      | 168800                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 829                      | 836.5                       | 844                       |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 24.10                    | 24.06                       | 23.94                     | 25.7                   |
| Channel         |            |         |           | 165300                   | 167300                      | 169300                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 826.5                    | 836.5                       | 846.5                     |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 24.02                    | 24.05                       | 24.06                     | 25.7                   |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 166800                   | 167300                      | 167800                    |                        |
| Frequency (MHz) |            |         |           | 834                      | 836.5                       | 839                       |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 24.21                    | 24.18                       | 24.07                     |                        |
| 20              | PI/2 BPSK  | 1       | 53        | 24.20                    | 24.18                       | 24.06                     | 25.7                   |
| 20              | PI/2 BPSK  | 1       | 104       | 24.13                    | 24.11                       | 23.96                     |                        |
| 20              | PI/2 BPSK  | 50      | 0         | 23.63                    | 23.61                       | 23.50                     |                        |
| 20              | PI/2 BPSK  | 50      | 28        | 24.18                    | 24.16                       | 24.03                     | 25.2                   |
| 20              | PI/2 BPSK  | 50      | 56        | 23.57                    | 23.55                       | 23.44                     | 25.7                   |
| 20              | PI/2 BPSK  | 100     | 0         | 23.66                    | 23.66                       | 23.47                     |                        |
| 20              | QPSK       | 1       | 1         | 24.15                    | 24.12                       | 23.99                     |                        |
| 20              | QPSK       | 1       | 53        | 24.10                    | 24.14                       | 24.02                     | 25.7                   |
| 20              | QPSK       | 1       | 104       | 24.09                    | 24.09                       | 23.91                     |                        |
| 20              | QPSK       | 50      | 0         | 23.02                    | 23.09                       | 22.89                     |                        |
| 20              | QPSK       | 50      | 28        | 24.09                    | 24.13                       | 23.96                     | 24.7                   |
| 20              | QPSK       | 50      | 56        | 23.06                    | 23.04                       | 22.84                     | 25.7                   |
| 20              | QPSK       | 100     | 0         | 23.19                    | 23.16                       | 23.01                     |                        |
| 20              | 16QAM      | 1       | 1         | 23.15                    | 23.13                       | 23.02                     |                        |
| 20              | 64QAM      | 1       | 1         | 21.58                    | 21.64                       | 21.47                     | 24.7                   |
| 20              | 256QAM     | 1       | 1         | 19.63                    | 19.68                       | 19.50                     | 23.2                   |
| Channel         |            |         |           | 166300                   | 167300                      | 168300                    | 21.2                   |
| Frequency (MHz) |            |         |           | 831.5                    | 836.5                       | 841.5                     |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 24.20                    | 24.06                       | 24.04                     |                        |
| Channel         |            |         |           | 165800                   | 167300                      | 168800                    | 25.7                   |
| Frequency (MHz) |            |         |           | 829                      | 836.5                       | 844                       |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 24.20                    | 24.09                       | 23.93                     |                        |
| Channel         |            |         |           | 165300                   | 167300                      | 169300                    | 25.7                   |
| Frequency (MHz) |            |         |           | 826.5                    | 836.5                       | 846.5                     |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 24.01                    | 24.15                       | 24.00                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 166800                   | 167300                      | 167800                    | 25.7                   |
| Frequency (MHz) |            |         |           | 834                      | 836.5                       | 839                       |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 24.18                    | 24.17                       | 24.07                     |                        |
| 20              | PI/2 BPSK  | 1       | 53        | 24.07                    | 24.13                       | 23.95                     | 25.2                   |
| 20              | PI/2 BPSK  | 1       | 104       | 24.01                    | 24.00                       | 23.88                     |                        |
| 20              | PI/2 BPSK  | 50      | 0         | 23.56                    | 23.55                       | 23.37                     |                        |
| 20              | PI/2 BPSK  | 50      | 28        | 24.08                    | 24.08                       | 23.95                     | 25.2                   |
| 20              | PI/2 BPSK  | 50      | 56        | 23.39                    | 23.45                       | 23.27                     |                        |
| 20              | PI/2 BPSK  | 100     | 0         | 23.58                    | 23.61                       | 23.45                     |                        |
| 20              | QPSK       | 1       | 1         | 24.03                    | 24.10                       | 23.97                     | 25.7                   |
| 20              | QPSK       | 1       | 53        | 24.12                    | 24.16                       | 23.96                     |                        |
| 20              | QPSK       | 1       | 104       | 24.00                    | 24.05                       | 23.87                     |                        |
| 20              | QPSK       | 50      | 0         | 23.01                    | 23.07                       | 22.97                     | 24.7                   |
| 20              | QPSK       | 50      | 28        | 24.03                    | 24.07                       | 23.91                     | 25.7                   |
| 20              | QPSK       | 50      | 56        | 22.98                    | 23.00                       | 22.81                     | 24.7                   |
| 20              | QPSK       | 100     | 0         | 23.05                    | 23.12                       | 22.93                     |                        |
| 20              | 16QAM      | 1       | 1         | 23.06                    | 23.10                       | 22.90                     |                        |
| 20              | 64QAM      | 1       | 1         | 21.56                    | 21.59                       | 21.48                     | 23.2                   |
| 20              | 256QAM     | 1       | 1         | 19.45                    | 19.49                       | 19.33                     | 21.2                   |
| Channel         |            |         |           | 166300                   | 167300                      | 168300                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 831.5                    | 836.5                       | 841.5                     |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 23.99                    | 24.00                       | 24.02                     | 25.7                   |
| Channel         |            |         |           | 165800                   | 167300                      | 168800                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 829                      | 836.5                       | 844                       |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 24.10                    | 24.06                       | 23.94                     | 25.7                   |
| Channel         |            |         |           | 165300                   | 167300                      | 169300                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 826.5                    | 836.5                       | 846.5                     |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 24.02                    | 24.05                       | 24.06                     | 25.7                   |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 166800                   | 167300                      | 167800                    |                        |
| Frequency (MHz) |            |         |           | 834                      | 836.5                       | 839                       |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 24.21                    | 24.18                       | 24.07                     |                        |
| 20              | PI/2 BPSK  | 1       | 53        | 24.20                    | 24.18                       | 24.06                     | 25.7                   |
| 20              | PI/2 BPSK  | 1       | 104       | 24.13                    | 24.11                       | 23.96                     |                        |
| 20              | PI/2 BPSK  | 50      | 0         | 23.63                    | 23.61                       | 23.50                     |                        |
| 20              | PI/2 BPSK  | 50      | 28        | 24.18                    | 24.16                       | 24.03                     | 25.2                   |
| 20              | PI/2 BPSK  | 50      | 56        | 23.57                    | 23.55                       | 23.44                     | 25.7                   |
| 20              | PI/2 BPSK  | 100     | 0         | 23.66                    | 23.66                       | 23.47                     |                        |
| 20              | QPSK       | 1       | 1         | 24.15                    | 24.12                       | 23.99                     |                        |
| 20              | QPSK       | 1       | 53        | 24.10                    | 24.14                       | 24.02                     | 25.7                   |
| 20              | QPSK       | 1       | 104       | 24.09                    | 24.09                       | 23.91                     |                        |
| 20              | QPSK       | 50      | 0         | 23.02                    | 23.09                       | 22.89                     |                        |
| 20              | QPSK       | 50      | 28        | 24.09                    | 24.13                       | 23.96                     | 24.7                   |
| 20              | QPSK       | 50      | 56        | 23.06                    | 23.04                       | 22.84                     | 25.7                   |
| 20              | QPSK       | 100     | 0         | 23.19                    | 23.16                       | 23.01                     |                        |
| 20              | 16QAM      | 1       | 1         | 23.15                    | 23.13                       | 23.02                     |                        |
| 20              | 64QAM      | 1       | 1         | 21.58                    | 21.64                       | 21.47                     | 24.7                   |
| 20              | 256QAM     | 1       | 1         | 19.63                    | 19.68                       | 19.50                     | 23.2                   |
| Channel         |            |         |           | 166300                   | 167300                      | 168300                    | 21.2                   |
| Frequency (MHz) |            |         |           | 831.5                    | 836.5                       | 841.5                     |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 24.20                    | 24.06                       | 24.04                     |                        |
| Channel         |            |         |           | 165800                   | 167300                      | 168800                    | 25.7                   |
| Frequency (MHz) |            |         |           | 829                      | 836.5                       | 844                       |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 24.20                    | 24.09                       | 23.93                     |                        |
| Channel         |            |         |           | 165300                   | 167300                      | 169300                    | 25.7                   |
| Frequency (MHz) |            |         |           | 826.5                    | 836.5                       | 846.5                     |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 24.01                    | 24.15                       | 24.00                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 166800                   | 167300                      | 167800                    |                        |
| Frequency (MHz) |            |         |           | 834                      | 836.5                       | 839                       |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 24.18                    | 24.17                       | 24.07                     |                        |
| 20              | PI/2 BPSK  | 1       | 53        | 24.07                    | 24.13                       | 23.95                     | 25.7                   |
| 20              | PI/2 BPSK  | 1       | 104       | 24.01                    | 24.00                       | 23.88                     |                        |
| 20              | PI/2 BPSK  | 50      | 0         | 23.56                    | 23.55                       | 23.37                     |                        |
| 20              | PI/2 BPSK  | 50      | 28        | 24.08                    | 24.08                       | 23.95                     | 25.2                   |
| 20              | PI/2 BPSK  | 50      | 56        | 23.39                    | 23.45                       | 23.27                     | 25.7                   |
| 20              | PI/2 BPSK  | 100     | 0         | 23.58                    | 23.61                       | 23.45                     |                        |
| 20              | QPSK       | 1       | 1         | 24.03                    | 24.10                       | 23.97                     |                        |
| 20              | QPSK       | 1       | 53        | 24.12                    | 24.16                       | 23.96                     | 25.7                   |
| 20              | QPSK       | 1       | 104       | 24.00                    | 24.05                       | 23.87                     |                        |
| 20              | QPSK       | 50      | 0         | 23.01                    | 23.07                       | 22.97                     |                        |
| 20              | QPSK       | 50      | 28        | 24.03                    | 24.07                       | 23.91                     | 24.7                   |
| 20              | QPSK       | 50      | 56        | 22.98                    | 23.00                       | 22.81                     | 25.7                   |
| 20              | QPSK       | 100     | 0         | 23.05                    | 23.12                       | 22.93                     |                        |
| 20              | 16QAM      | 1       | 1         | 23.06                    | 23.10                       | 22.90                     |                        |
| 20              | 64QAM      | 1       | 1         | 21.56                    | 21.59                       | 21.48                     | 24.7                   |
| 20              | 256QAM     | 1       | 1         | 19.45                    | 19.49                       | 19.33                     | 23.2                   |
| Channel         |            |         |           | 166300                   | 167300                      | 168300                    | 21.2                   |
| Frequency (MHz) |            |         |           | 831.5                    | 836.5                       | 841.5                     |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 23.99                    | 24.00                       | 24.02                     |                        |
| Channel         |            |         |           | 165800                   | 167300                      | 168800                    | 25.7                   |
| Frequency (MHz) |            |         |           | 829                      | 836.5                       | 844                       |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 24.10                    | 24.06                       | 23.94                     |                        |
| Channel         |            |         |           | 165300                   | 167300                      | 169300                    | 25.7                   |
| Frequency (MHz) |            |         |           | 826.5                    | 836.5                       | 846.5                     |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 24.02                    | 24.05                       | 24.06                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 505000                   | 507000                      | 509000                    |                        |
| Frequency (MHz) |            |         |           | 2525                     | 2535                        | 2545                      |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 23.94                    | 23.93                       | 23.86                     |                        |
| 50              | PI/2 BPSK  | 1       | 135       | 23.87                    | 23.86                       | 23.75                     | 25.1                   |
| 50              | PI/2 BPSK  | 1       | 268       | 23.86                    | 23.91                       | 23.82                     |                        |
| 50              | PI/2 BPSK  | 135     | 0         | 23.35                    | 23.41                       | 23.33                     | 24.6                   |
| 50              | PI/2 BPSK  | 135     | 68        | 23.88                    | 23.87                       | 23.74                     | 25.1                   |
| 50              | PI/2 BPSK  | 135     | 135       | 23.36                    | 23.36                       | 23.29                     | 24.6                   |
| 50              | PI/2 BPSK  | 270     | 0         | 23.23                    | 23.32                       | 23.21                     |                        |
| 50              | QPSK       | 1       | 1         | 23.87                    | 23.88                       | 23.74                     | 25.1                   |
| 50              | QPSK       | 1       | 135       | 23.77                    | 23.85                       | 23.74                     |                        |
| 50              | QPSK       | 1       | 268       | 23.79                    | 23.82                       | 23.75                     |                        |
| 50              | QPSK       | 135     | 0         | 22.85                    | 22.91                       | 22.76                     | 24.1                   |
| 50              | QPSK       | 135     | 68        | 23.83                    | 23.86                       | 23.71                     | 25.1                   |
| 50              | QPSK       | 135     | 135       | 22.84                    | 22.87                       | 22.72                     | 24.1                   |
| 50              | QPSK       | 270     | 0         | 22.76                    | 22.84                       | 22.74                     |                        |
| 50              | 16QAM      | 1       | 1         | 22.93                    | 22.94                       | 22.81                     | 24.1                   |
| 50              | 64QAM      | 1       | 1         | 21.33                    | 21.38                       | 21.29                     | 22.6                   |
| 50              | 256QAM     | 1       | 1         | 19.31                    | 19.34                       | 19.19                     | 20.6                   |
| Channel         |            |         |           | 504000                   | 507000                      | 510000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2520                     | 2535                        | 2550                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 23.81                    | 23.91                       | 23.83                     | 25.1                   |
| Channel         |            |         |           | 503000                   | 507000                      | 511000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2515                     | 2535                        | 2555                      |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 23.90                    | 23.89                       | 23.67                     | 25.1                   |
| Channel         |            |         |           | 502500                   | 507000                      | 511500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2512.5                   | 2535                        | 2557.5                    |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 23.90                    | 23.92                       | 23.85                     | 25.1                   |
| Channel         |            |         |           | 502000                   | 507000                      | 512000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2510                     | 2535                        | 2560                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 23.84                    | 23.90                       | 23.66                     | 25.1                   |
| Channel         |            |         |           | 501500                   | 507000                      | 512500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2507.5                   | 2535                        | 2562.5                    |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 23.84                    | 23.89                       | 23.84                     | 25.1                   |
| Channel         |            |         |           | 501000                   | 507000                      | 513000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2505                     | 2535                        | 2565                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 23.87                    | 23.74                       | 23.78                     | 25.1                   |
| Channel         |            |         |           | 500500                   | 507000                      | 513500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2502.5                   | 2535                        | 2567.5                    |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 23.83                    | 23.74                       | 23.79                     | 25.1                   |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 505000                   | 507000                      | 509000                    | 18.9                   |
| Frequency (MHz) |            |         |           | 2525                     | 2535                        | 2545                      |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 18.32                    | 18.37                       | 18.18                     |                        |
| 50              | PI/2 BPSK  | 1       | 135       | 18.12                    | 18.23                       | 18.23                     | 18.9                   |
| 50              | PI/2 BPSK  | 1       | 268       | 18.29                    | 18.36                       | 18.20                     |                        |
| 50              | PI/2 BPSK  | 135     | 0         | 18.21                    | 18.21                       | 18.20                     |                        |
| 50              | PI/2 BPSK  | 135     | 68        | 18.32                    | 18.35                       | 18.24                     | 18.9                   |
| 50              | PI/2 BPSK  | 135     | 135       | 18.28                    | 18.16                       | 18.21                     | 18.9                   |
| 50              | PI/2 BPSK  | 270     | 0         | 18.23                    | 18.30                       | 18.34                     |                        |
| 50              | QPSK       | 1       | 1         | 18.11                    | 18.22                       | 18.23                     |                        |
| 50              | QPSK       | 1       | 135       | 18.30                    | 18.29                       | 18.14                     | 18.9                   |
| 50              | QPSK       | 1       | 268       | 18.30                    | 18.30                       | 18.20                     |                        |
| 50              | QPSK       | 135     | 0         | 18.26                    | 18.27                       | 18.04                     |                        |
| 50              | QPSK       | 135     | 68        | 18.21                    | 18.28                       | 18.13                     | 18.9                   |
| 50              | QPSK       | 135     | 135       | 18.20                    | 18.26                       | 18.24                     | 18.9                   |
| 50              | QPSK       | 270     | 0         | 18.29                    | 18.20                       | 18.16                     |                        |
| 50              | 16QAM      | 1       | 1         | 18.29                    | 18.24                       | 18.15                     |                        |
| 50              | 64QAM      | 1       | 1         | 18.24                    | 18.32                       | 18.26                     | 18.9                   |
| 50              | 256QAM     | 1       | 1         | 18.20                    | 18.21                       | 18.25                     | 18.9                   |
| Channel         |            |         |           | 504000                   | 507000                      | 510000                    | 18.9                   |
| Frequency (MHz) |            |         |           | 2520                     | 2535                        | 2550                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 18.22                    | 18.35                       | 18.15                     |                        |
| Channel         |            |         |           | 503000                   | 507000                      | 511000                    | 18.9                   |
| Frequency (MHz) |            |         |           | 2515                     | 2535                        | 2555                      |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 18.19                    | 18.33                       | 18.11                     |                        |
| Channel         |            |         |           | 502500                   | 507000                      | 511500                    | 18.9                   |
| Frequency (MHz) |            |         |           | 2512.5                   | 2535                        | 2557.5                    |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 18.25                    | 18.24                       | 18.04                     |                        |
| Channel         |            |         |           | 502000                   | 507000                      | 512000                    | 18.9                   |
| Frequency (MHz) |            |         |           | 2510                     | 2535                        | 2560                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 18.18                    | 18.35                       | 18.09                     |                        |
| Channel         |            |         |           | 501500                   | 507000                      | 512500                    | 18.9                   |
| Frequency (MHz) |            |         |           | 2507.5                   | 2535                        | 2562.5                    |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 18.21                    | 18.22                       | 18.17                     |                        |
| Channel         |            |         |           | 501000                   | 507000                      | 513000                    | 18.9                   |
| Frequency (MHz) |            |         |           | 2505                     | 2535                        | 2565                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 18.29                    | 18.29                       | 18.12                     |                        |
| Channel         |            |         |           | 500500                   | 507000                      | 513500                    | 18.9                   |
| Frequency (MHz) |            |         |           | 2502.5                   | 2535                        | 2567.5                    |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 18.21                    | 18.21                       | 18.05                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 505000                   | 507000                      | 509000                    | 18.9                   |
| Frequency (MHz) |            |         |           | 2525                     | 2535                        | 2545                      |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 18.84                    | 18.87                       | 18.82                     |                        |
| 50              | PI/2 BPSK  | 1       | 135       | 18.69                    | 18.83                       | 18.73                     | 18.9                   |
| 50              | PI/2 BPSK  | 1       | 268       | 18.80                    | 18.81                       | 18.66                     |                        |
| 50              | PI/2 BPSK  | 135     | 0         | 18.74                    | 18.78                       | 18.72                     |                        |
| 50              | PI/2 BPSK  | 135     | 68        | 18.75                    | 18.84                       | 18.76                     | 18.9                   |
| 50              | PI/2 BPSK  | 135     | 135       | 18.66                    | 18.83                       | 18.74                     | 18.9                   |
| 50              | PI/2 BPSK  | 270     | 0         | 18.67                    | 18.80                       | 18.76                     |                        |
| 50              | QPSK       | 1       | 1         | 18.83                    | 18.80                       | 18.77                     |                        |
| 50              | QPSK       | 1       | 135       | 18.73                    | 18.71                       | 18.73                     | 18.9                   |
| 50              | QPSK       | 1       | 268       | 18.82                    | 18.73                       | 18.63                     |                        |
| 50              | QPSK       | 135     | 0         | 18.72                    | 18.80                       | 18.68                     |                        |
| 50              | QPSK       | 135     | 68        | 18.79                    | 18.77                       | 18.72                     | 18.9                   |
| 50              | QPSK       | 135     | 135       | 18.69                    | 18.77                       | 18.69                     | 18.9                   |
| 50              | QPSK       | 270     | 0         | 18.82                    | 18.76                       | 18.82                     |                        |
| 50              | 16QAM      | 1       | 1         | 18.65                    | 18.73                       | 18.68                     |                        |
| 50              | 64QAM      | 1       | 1         | 18.67                    | 18.77                       | 18.62                     | 18.9                   |
| 50              | 256QAM     | 1       | 1         | 18.80                    | 18.67                       | 18.75                     | 18.9                   |
| Channel         |            |         |           | 504000                   | 507000                      | 510000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2520                     | 2535                        | 2550                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 18.79                    | 18.85                       | 18.70                     |                        |
| Channel         |            |         |           | 503000                   | 507000                      | 511000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2515                     | 2535                        | 2555                      |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 18.74                    | 18.75                       | 18.70                     |                        |
| Channel         |            |         |           | 502500                   | 507000                      | 511500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2512.5                   | 2535                        | 2557.5                    |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 18.71                    | 18.70                       | 18.77                     |                        |
| Channel         |            |         |           | 502000                   | 507000                      | 512000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2510                     | 2535                        | 2560                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 18.72                    | 18.67                       | 18.75                     |                        |
| Channel         |            |         |           | 501500                   | 507000                      | 512500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2507.5                   | 2535                        | 2562.5                    |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 18.83                    | 18.71                       | 18.66                     |                        |
| Channel         |            |         |           | 501000                   | 507000                      | 513000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2505                     | 2535                        | 2565                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 18.77                    | 18.72                       | 18.67                     |                        |
| Channel         |            |         |           | 500500                   | 507000                      | 513500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2502.5                   | 2535                        | 2567.5                    |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 18.80                    | 18.80                       | 18.65                     |                        |



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| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|
| Channel         |            |         |           | 505000                   | 507000                      | 509000                    | 19.7                   |
| Frequency (MHz) |            |         |           | 2525                     | 2535                        | 2545                      |                        |
| 50              | PI/2 BPSK  | 1       | 1         | 18.85                    | 18.96                       | 18.80                     |                        |
| 50              | PI/2 BPSK  | 1       | 135       | 18.66                    | 18.77                       | 18.66                     | 19.7                   |
| 50              | PI/2 BPSK  | 1       | 268       | 18.84                    | 18.92                       | 18.80                     |                        |
| 50              | PI/2 BPSK  | 135     | 0         | 18.73                    | 18.77                       | 18.80                     |                        |
| 50              | PI/2 BPSK  | 135     | 68        | 18.83                    | 18.89                       | 18.82                     | 19.7                   |
| 50              | PI/2 BPSK  | 135     | 135       | 18.75                    | 18.76                       | 18.72                     | 19.7                   |
| 50              | PI/2 BPSK  | 270     | 0         | 18.66                    | 18.85                       | 18.81                     |                        |
| 50              | QPSK       | 1       | 1         | 18.70                    | 18.71                       | 18.74                     |                        |
| 50              | QPSK       | 1       | 135       | 18.78                    | 18.92                       | 18.69                     | 19.7                   |
| 50              | QPSK       | 1       | 268       | 18.77                    | 18.78                       | 18.72                     |                        |
| 50              | QPSK       | 135     | 0         | 18.86                    | 18.87                       | 18.65                     |                        |
| 50              | QPSK       | 135     | 68        | 18.82                    | 18.91                       | 18.67                     | 19.7                   |
| 50              | QPSK       | 135     | 135       | 18.77                    | 18.79                       | 18.73                     | 19.7                   |
| 50              | QPSK       | 270     | 0         | 18.85                    | 18.78                       | 18.80                     |                        |
| 50              | 16QAM      | 1       | 1         | 18.88                    | 18.88                       | 18.77                     |                        |
| 50              | 64QAM      | 1       | 1         | 18.71                    | 18.75                       | 18.65                     | 19.7                   |
| 50              | 256QAM     | 1       | 1         | 18.89                    | 18.90                       | 18.77                     | 19.7                   |
| Channel         |            |         |           | 504000                   | 507000                      | 510000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2520                     | 2535                        | 2550                      |                        |
| 40              | PI/2 BPSK  | 1       | 1         | 18.78                    | 18.92                       | 18.72                     |                        |
| Channel         |            |         |           | 503000                   | 507000                      | 511000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2515                     | 2535                        | 2555                      |                        |
| 30              | PI/2 BPSK  | 1       | 1         | 18.82                    | 18.85                       | 18.72                     |                        |
| Channel         |            |         |           | 502500                   | 507000                      | 511500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2512.5                   | 2535                        | 2557.5                    |                        |
| 25              | PI/2 BPSK  | 1       | 1         | 18.68                    | 18.92                       | 18.82                     |                        |
| Channel         |            |         |           | 502000                   | 507000                      | 512000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2510                     | 2535                        | 2560                      |                        |
| 20              | PI/2 BPSK  | 1       | 1         | 18.82                    | 18.87                       | 18.75                     |                        |
| Channel         |            |         |           | 501500                   | 507000                      | 512500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2507.5                   | 2535                        | 2562.5                    |                        |
| 15              | PI/2 BPSK  | 1       | 1         | 18.84                    | 18.72                       | 18.81                     |                        |
| Channel         |            |         |           | 501000                   | 507000                      | 513000                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2505                     | 2535                        | 2565                      |                        |
| 10              | PI/2 BPSK  | 1       | 1         | 18.86                    | 18.88                       | 18.68                     |                        |
| Channel         |            |         |           | 500500                   | 507000                      | 513500                    | Tune-up limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2502.5                   | 2535                        | 2567.5                    |                        |
| 5               | PI/2 BPSK  | 1       | 1         | 18.78                    | 18.82                       | 18.82                     |                        |