



REPORT No.: SZ24060206S01

## Annex E Conducted Power

**Note:**

Conducted power unit: dBm

The target power was recorded in the manufacturer's document.

### Conducted Power

| GSM850          |  | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|--|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| TX Channel      |  | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| Frequency (MHz) |  | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   |  | 32.30                     | 32.31 | 32.28 | 33.00               | 23.30                     | 23.31 | 23.28 | 24.00               |
| GPRS 1 Tx slot  |  | 32.28                     | 32.29 | 32.26 | 33.00               | 23.28                     | 23.29 | 23.26 | 24.00               |
| GPRS 2 Tx slots |  | 31.30                     | 31.35 | 31.29 | 32.00               | 25.30                     | 25.35 | 25.29 | 26.00               |
| GPRS 3 Tx slots |  | 29.21                     | 29.25 | 29.23 | 30.00               | 24.95                     | 24.99 | 24.97 | 25.74               |
| GPRS 4 Tx slots |  | 27.80                     | 27.84 | 27.82 | 28.50               | 24.80                     | 24.84 | 24.82 | 25.50               |
| EDGE 1 Tx slot  |  | 26.55                     | 26.58 | 26.51 | 27.50               | 17.55                     | 17.58 | 17.51 | 18.50               |
| EDGE 2 Tx slots |  | 25.24                     | 25.26 | 25.20 | 26.00               | 19.24                     | 19.26 | 19.20 | 20.00               |
| EDGE 3 Tx slots |  | 23.53                     | 23.58 | 23.55 | 24.50               | 19.27                     | 19.32 | 19.29 | 20.24               |
| EDGE 4 Tx slots |  | 22.35                     | 22.37 | 22.33 | 23.50               | 19.35                     | 19.37 | 19.33 | 20.50               |
| Mode            |  |                           | Max.  | 32.31 |                     |                           | Max.  | 25.35 |                     |
| Attenuator      |  | Cable Loss : 0.6          |       |       |                     |                           |       |       |                     |

| GSM1900         |  | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|--|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| TX Channel      |  | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| Frequency (MHz) |  | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot   |  | 29.80                     | 29.82 | 29.78  | 30.50               | 20.80                     | 20.82 | 20.78  | 21.50               |
| GPRS 1 Tx slot  |  | 29.76                     | 29.79 | 29.75  | 30.50               | 20.76                     | 20.79 | 20.75  | 21.50               |
| GPRS 2 Tx slots |  | 28.80                     | 28.86 | 28.83  | 29.50               | 22.80                     | 22.86 | 22.83  | 23.50               |
| GPRS 3 Tx slots |  | 26.80                     | 26.83 | 26.79  | 27.50               | 22.54                     | 22.57 | 22.53  | 23.24               |
| GPRS 4 Tx slots |  | 25.66                     | 25.69 | 25.67  | 26.50               | 22.66                     | 22.69 | 22.67  | 23.50               |
| EDGE 1 Tx slot  |  | 27.71                     | 27.75 | 27.68  | 28.50               | 18.71                     | 18.75 | 18.68  | 19.50               |
| EDGE 2 Tx slots |  | 26.40                     | 26.43 | 26.46  | 27.50               | 20.40                     | 20.43 | 20.46  | 21.50               |
| EDGE 3 Tx slots |  | 24.00                     | 24.07 | 23.98  | 25.00               | 19.74                     | 19.81 | 19.72  | 20.74               |
| EDGE 4 Tx slots |  | 22.86                     | 22.80 | 22.82  | 23.50               | 19.86                     | 19.80 | 19.82  | 20.50               |
| Mode            |  |                           | Max.  | 29.82  |                     |                           | Max.  | 22.86  |                     |
| Attenuator      |  | Cable Loss : 0.8          |       |        |                     |                           |       |        |                     |

| Band            |                         | WCDMA Band II (dBm) |            |        | Tune-up Limit (dBm) | WCDMA Band V (dBm) |            |       | Tune-up Limit (dBm) |
|-----------------|-------------------------|---------------------|------------|--------|---------------------|--------------------|------------|-------|---------------------|
| TX Channel      |                         | 9262                | 9400       | 9538   |                     | 4132               | 4182       | 4233  |                     |
| Rx Channel      |                         | 9662                | 9800       | 9938   |                     | 4357               | 4407       | 4458  |                     |
| Frequency (MHz) |                         | 1852.4              | 1880       | 1907.6 |                     | 826.4              | 836.4      | 846.6 |                     |
| 3GPP Rel 99     | RMC 12.2Kbps            | 22.12               | 22.15      | 22.10  | 23.00               | 23.19              | 23.23      | 23.20 | 24.00               |
| 3GPP Rel 5      | HSDPA Subtest-1         | 21.12               | 20.75      | 20.33  | 22.00               | 22.17              | 22.04      | 22.10 | 23.00               |
| 3GPP Rel 5      | HSDPA Subtest-2         | 21.13               | 20.81      | 20.37  | 22.00               | 22.06              | 22.02      | 22.12 | 23.00               |
| 3GPP Rel 5      | HSDPA Subtest-3         | 20.71               | 20.36      | 19.90  | 21.50               | 21.68              | 21.58      | 21.65 | 22.50               |
| 3GPP Rel 5      | HSDPA Subtest-4         | 20.67               | 20.33      | 19.87  | 21.50               | 21.68              | 21.52      | 21.64 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 21.12               | 20.77      | 20.39  | 22.00               | 22.19              | 22.10      | 22.12 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 21.10               | 20.79      | 20.37  | 22.00               | 22.23              | 22.08      | 22.11 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 20.63               | 20.29      | 19.88  | 21.50               | 21.74              | 21.58      | 21.64 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 20.61               | 20.27      | 19.91  | 21.50               | 21.72              | 21.59      | 21.64 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-1         | 21.13               | 20.33      | 19.93  | 21.50               | 21.65              | 21.52      | 21.61 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-2         | 21.10               | 20.76      | 20.37  | 22.00               | 22.13              | 22.03      | 22.10 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-3         | 20.24               | 19.81      | 19.45  | 21.00               | 21.19              | 21.08      | 21.13 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-4         | 21.22               | 20.77      | 20.37  | 22.00               | 22.12              | 22.04      | 22.09 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-5         | 20.21               | 19.82      | 19.39  | 21.00               | 21.15              | 21.05      | 21.11 | 22.00               |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 20.23               | 19.80      | 19.38  | 21.00               | 21.15              | 21.05      | 21.08 | 22.00               |
| Attenuator      |                         |                     | Cable Loss | 0.8    |                     |                    | Cable Loss | 0.6   |                     |
| Mode            |                         |                     | Max.       | 22.15  |                     |                    | Max.       | 23.23 |                     |

| Band 5 (Cellular Band) (dBm)<br>Part 22H(only on channel required) |            |         |           |             |                |              |                     |
|--------------------------------------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]                                                           | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                                                            |            |         |           | 20450       | 20525          | 20600        | Tune-up limit (dBm) |
| Frequency (MHz)                                                    |            |         |           | 829         | 836.5          | 844          |                     |
| 10                                                                 | QPSK       | 1       | 0         | 23.58       | 23.63          | 23.62        | 24.5                |
| 10                                                                 | QPSK       | 1       | 25        | 23.49       | 23.55          | 23.52        |                     |
| 10                                                                 | QPSK       | 1       | 49        | 23.44       | 23.53          | 23.50        |                     |
| 10                                                                 | QPSK       | 25      | 0         | 22.58       | 22.62          | 22.55        | 23.5                |
| 10                                                                 | QPSK       | 25      | 12        | 22.45       | 22.48          | 22.41        |                     |
| 10                                                                 | QPSK       | 25      | 25        | 22.41       | 22.45          | 22.39        |                     |
| 10                                                                 | QPSK       | 50      | 0         | 22.40       | 22.44          | 22.38        | 23.5                |
| 10                                                                 | 16QAM      | 1       | 0         | 22.34       | 22.41          | 22.37        |                     |
| 10                                                                 | 16QAM      | 1       | 25        | 22.33       | 22.38          | 22.34        |                     |
| 10                                                                 | 16QAM      | 1       | 49        | 22.22       | 22.26          | 22.18        | 22.5                |
| 10                                                                 | 16QAM      | 25      | 0         | 21.41       | 21.47          | 21.42        |                     |
| 10                                                                 | 16QAM      | 25      | 12        | 21.41       | 21.43          | 21.40        |                     |
| 10                                                                 | 16QAM      | 25      | 25        | 21.37       | 21.41          | 21.37        | 22.5                |
| 10                                                                 | 16QAM      | 50      | 0         | 21.33       | 21.39          | 21.31        |                     |
| 10                                                                 | 64QAM      | 1       | 0         | 21.24       | 21.33          | 21.32        |                     |
| 10                                                                 | 64QAM      | 1       | 25        | 21.26       | 21.30          | 21.26        | 22.5                |
| 10                                                                 | 64QAM      | 1       | 49        | 21.23       | 21.25          | 21.19        |                     |
| 10                                                                 | 64QAM      | 25      | 0         | 20.54       | 20.56          | 20.47        |                     |
| 10                                                                 | 64QAM      | 25      | 12        | 20.51       | 20.53          | 20.43        | 21.5                |
| 10                                                                 | 64QAM      | 25      | 25        | 20.55       | 20.57          | 20.54        |                     |
| 10                                                                 | 64QAM      | 50      | 0         | 20.45       | 20.55          | 20.51        |                     |
| Channel                                                            |            |         |           | 20425       | 20525          | 20625        | Tune-up limit (dBm) |
| Frequency (MHz)                                                    |            |         |           | 826.5       | 836.5          | 846.5        |                     |
| 5                                                                  | QPSK       | 1       | 0         | 23.52       | 23.57          | 23.56        | 24.5                |
| 5                                                                  | QPSK       | 1       | 12        | 23.43       | 23.49          | 23.46        |                     |
| 5                                                                  | QPSK       | 1       | 24        | 23.38       | 23.47          | 23.44        |                     |
| 5                                                                  | QPSK       | 12      | 0         | 22.52       | 22.56          | 22.49        | 23.5                |
| 5                                                                  | QPSK       | 12      | 7         | 22.39       | 22.42          | 22.35        |                     |
| 5                                                                  | QPSK       | 12      | 13        | 22.35       | 22.39          | 22.33        |                     |
| 5                                                                  | QPSK       | 25      | 0         | 22.34       | 22.38          | 22.32        | 23.5                |
| 5                                                                  | 16QAM      | 1       | 0         | 22.28       | 22.35          | 22.31        |                     |
| 5                                                                  | 16QAM      | 1       | 12        | 22.27       | 22.32          | 22.28        |                     |
| 5                                                                  | 16QAM      | 1       | 24        | 22.16       | 22.20          | 22.12        | 22.5                |
| 5                                                                  | 16QAM      | 12      | 0         | 21.35       | 21.41          | 21.36        |                     |
| 5                                                                  | 16QAM      | 12      | 7         | 21.35       | 21.37          | 21.34        |                     |
| 5                                                                  | 16QAM      | 12      | 13        | 21.31       | 21.35          | 21.31        | 22.5                |
| 5                                                                  | 16QAM      | 25      | 0         | 21.27       | 21.33          | 21.25        |                     |
| 5                                                                  | 64QAM      | 1       | 0         | 21.18       | 21.27          | 21.26        |                     |
| 5                                                                  | 64QAM      | 1       | 12        | 21.20       | 21.24          | 21.20        | 22.5                |
| 5                                                                  | 64QAM      | 1       | 24        | 21.17       | 21.19          | 21.13        |                     |
| 5                                                                  | 64QAM      | 12      | 0         | 20.48       | 20.50          | 20.41        |                     |
| 5                                                                  | 64QAM      | 12      | 7         | 20.45       | 20.47          | 20.37        | 21.5                |
| 5                                                                  | 64QAM      | 12      | 13        | 20.49       | 20.51          | 20.48        |                     |
| 5                                                                  | 64QAM      | 25      | 0         | 20.39       | 20.49          | 20.45        |                     |
| Channel                                                            |            |         |           | 20415       | 20525          | 20635        | Tune-up limit (dBm) |
| Frequency (MHz)                                                    |            |         |           | 825.5       | 836.5          | 847.5        |                     |
| 3                                                                  | QPSK       | 1       | 0         | 23.49       | 23.54          | 23.53        | 24.5                |
| 3                                                                  | QPSK       | 1       | 8         | 23.40       | 23.46          | 23.43        |                     |
| 3                                                                  | QPSK       | 1       | 14        | 23.35       | 23.44          | 23.41        |                     |
| 3                                                                  | QPSK       | 8       | 0         | 22.49       | 22.53          | 22.46        | 23.5                |
| 3                                                                  | QPSK       | 8       | 4         | 22.36       | 22.39          | 22.32        |                     |
| 3                                                                  | QPSK       | 8       | 7         | 22.32       | 22.36          | 22.30        |                     |
| 3                                                                  | QPSK       | 15      | 0         | 22.31       | 22.35          | 22.29        | 23.5                |
| 3                                                                  | 16QAM      | 1       | 0         | 22.25       | 22.32          | 22.28        |                     |
| 3                                                                  | 16QAM      | 1       | 8         | 22.24       | 22.29          | 22.25        |                     |
| 3                                                                  | 16QAM      | 1       | 14        | 22.13       | 22.17          | 22.09        | 22.5                |
| 3                                                                  | 16QAM      | 8       | 0         | 21.32       | 21.38          | 21.33        |                     |
| 3                                                                  | 16QAM      | 8       | 4         | 21.32       | 21.34          | 21.31        |                     |
| 3                                                                  | 16QAM      | 8       | 7         | 21.28       | 21.32          | 21.28        | 22.5                |
| 3                                                                  | 16QAM      | 15      | 0         | 21.24       | 21.30          | 21.22        |                     |
| 3                                                                  | 64QAM      | 1       | 0         | 21.15       | 21.24          | 21.23        |                     |
| 3                                                                  | 64QAM      | 1       | 8         | 21.17       | 21.21          | 21.17        | 22.5                |
| 3                                                                  | 64QAM      | 1       | 14        | 21.14       | 21.16          | 21.10        |                     |
| 3                                                                  | 64QAM      | 8       | 0         | 20.45       | 20.47          | 20.38        |                     |
| 3                                                                  | 64QAM      | 8       | 4         | 20.42       | 20.44          | 20.34        | 21.5                |
| 3                                                                  | 64QAM      | 8       | 7         | 20.46       | 20.48          | 20.45        |                     |
| 3                                                                  | 64QAM      | 15      | 0         | 20.36       | 20.46          | 20.42        |                     |
| Channel                                                            |            |         |           | 20407       | 20525          | 20643        | Tune-up limit (dBm) |
| Frequency (MHz)                                                    |            |         |           | 824.7       | 836.5          | 848.3        |                     |
| 1.4                                                                | QPSK       | 1       | 0         | 23.47       | 23.52          | 23.51        | 24.5                |
| 1.4                                                                | QPSK       | 1       | 3         | 23.38       | 23.44          | 23.41        |                     |
| 1.4                                                                | QPSK       | 1       | 5         | 23.33       | 23.42          | 23.39        |                     |
| 1.4                                                                | QPSK       | 3       | 0         | 22.47       | 22.51          | 22.44        | 23.5                |
| 1.4                                                                | QPSK       | 3       | 1         | 22.34       | 22.37          | 22.30        |                     |
| 1.4                                                                | QPSK       | 3       | 3         | 22.30       | 22.34          | 22.28        |                     |
| 1.4                                                                | QPSK       | 6       | 0         | 22.29       | 22.33          | 22.27        | 23.5                |
| 1.4                                                                | 16QAM      | 1       | 0         | 22.23       | 22.30          | 22.26        |                     |
| 1.4                                                                | 16QAM      | 1       | 3         | 22.22       | 22.27          | 22.23        |                     |
| 1.4                                                                | 16QAM      | 1       | 5         | 22.11       | 22.15          | 22.07        | 23.5                |
| 1.4                                                                | 16QAM      | 3       | 0         | 21.30       | 21.36          | 21.31        |                     |
| 1.4                                                                | 16QAM      | 3       | 1         | 21.30       | 21.32          | 21.29        |                     |
| 1.4                                                                | 16QAM      | 3       | 3         | 21.26       | 21.30          | 21.26        | 22.5                |
| 1.4                                                                | 16QAM      | 6       | 0         | 21.22       | 21.28          | 21.20        |                     |
| 1.4                                                                | 64QAM      | 1       | 0         | 21.13       | 21.22          | 21.21        |                     |
| 1.4                                                                | 64QAM      | 1       | 3         | 21.15       | 21.19          | 21.15        | 22.5                |
| 1.4                                                                | 64QAM      | 1       | 5         | 21.12       | 21.14          | 21.08        |                     |
| 1.4                                                                | 64QAM      | 3       | 0         | 20.43       | 20.45          | 20.36        |                     |
| 1.4                                                                | 64QAM      | 3       | 1         | 20.40       | 20.42          | 20.32        | 21.5                |
| 1.4                                                                | 64QAM      | 3       | 3         | 20.44       | 20.46          | 20.43        |                     |
| 1.4                                                                | 64QAM      | 6       | 0         | 20.34       | 20.44          | 20.40        |                     |

| Band 7 (2600MHz Band) (dBm) |            |         |           |             |                |              |                     |
|-----------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| Part 27                     |            |         |           |             |                |              |                     |
| BW [MHz]                    | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                     |            |         |           | 20850       | 21100          | 21350        |                     |
| Frequency (MHz)             |            |         |           | 2510        | 2535           | 2560         | 22.5                |
| 20                          | QPSK       | 1       | 0         | 21.41       | 21.47          | 21.41        |                     |
| 20                          | QPSK       | 1       | 49        | 21.37       | 21.46          | 21.31        |                     |
| 20                          | QPSK       | 1       | 99        | 21.19       | 21.45          | 21.31        |                     |
| 20                          | QPSK       | 50      | 0         | 20.39       | 20.54          | 20.47        |                     |
| 20                          | QPSK       | 50      | 24        | 20.51       | 20.52          | 20.48        | 21.5                |
| 20                          | QPSK       | 50      | 50        | 20.51       | 20.53          | 20.42        |                     |
| 20                          | QPSK       | 100     | 0         | 20.41       | 20.51          | 20.41        |                     |
| 20                          | 16QAM      | 1       | 0         | 20.04       | 20.15          | 20.08        |                     |
| 20                          | 16QAM      | 1       | 49        | 20.39       | 20.38          | 20.38        |                     |
| 20                          | 16QAM      | 1       | 99        | 20.35       | 20.37          | 20.23        | 21.5                |
| 20                          | 16QAM      | 50      | 0         | 19.53       | 19.51          | 19.48        |                     |
| 20                          | 16QAM      | 50      | 24        | 19.58       | 19.58          | 19.56        |                     |
| 20                          | 16QAM      | 50      | 50        | 19.49       | 19.48          | 19.50        |                     |
| 20                          | 16QAM      | 100     | 0         | 19.37       | 19.43          | 19.35        |                     |
| 20                          | 64QAM      | 1       | 0         | 19.42       | 19.48          | 19.42        | 20.5                |
| 20                          | 64QAM      | 1       | 49        | 19.53       | 19.54          | 19.41        |                     |
| 20                          | 64QAM      | 1       | 99        | 19.55       | 19.58          | 19.57        |                     |
| 20                          | 64QAM      | 50      | 0         | 18.39       | 18.48          | 18.54        |                     |
| 20                          | 64QAM      | 50      | 24        | 18.45       | 18.55          | 18.51        |                     |
| 20                          | 64QAM      | 50      | 50        | 18.47       | 18.46          | 18.49        | 19.5                |
| 20                          | 64QAM      | 100     | 0         | 18.44       | 18.55          | 18.48        |                     |
| Channel                     |            |         |           | 20825       | 21100          | 21375        | Tune-up limit (dBm) |
| Frequency (MHz)             |            |         |           | 2507.5      | 2535           | 2562.5       |                     |
| 15                          | QPSK       | 1       | 0         | 21.37       | 21.43          | 21.37        | 22.5                |
| 15                          | QPSK       | 1       | 37        | 21.33       | 21.42          | 21.27        |                     |
| 15                          | QPSK       | 1       | 74        | 21.15       | 21.41          | 21.27        |                     |
| 15                          | QPSK       | 36      | 0         | 20.35       | 20.47          | 20.43        | 21.5                |
| 15                          | QPSK       | 36      | 20        | 20.47       | 20.48          | 20.44        |                     |
| 15                          | QPSK       | 36      | 39        | 20.47       | 20.49          | 20.38        |                     |
| 15                          | QPSK       | 75      | 0         | 20.37       | 20.47          | 20.37        | 21.5                |
| 15                          | 16QAM      | 1       | 0         | 20.00       | 20.11          | 20.04        |                     |
| 15                          | 16QAM      | 1       | 37        | 20.35       | 20.34          | 20.34        |                     |
| 15                          | 16QAM      | 1       | 74        | 20.31       | 20.33          | 20.19        |                     |
| 15                          | 16QAM      | 36      | 0         | 19.49       | 19.47          | 19.44        |                     |
| 15                          | 16QAM      | 36      | 20        | 19.54       | 19.54          | 19.52        | 20.5                |
| 15                          | 16QAM      | 36      | 39        | 19.45       | 19.44          | 19.46        |                     |
| 15                          | 16QAM      | 75      | 0         | 19.33       | 19.39          | 19.31        |                     |
| 15                          | 64QAM      | 1       | 0         | 19.38       | 19.44          | 19.38        | 20.5                |
| 15                          | 64QAM      | 1       | 37        | 19.49       | 19.50          | 19.37        |                     |
| 15                          | 64QAM      | 1       | 74        | 19.51       | 19.54          | 19.53        |                     |
| 15                          | 64QAM      | 36      | 0         | 18.35       | 18.44          | 18.50        | 19.5                |
| 15                          | 64QAM      | 36      | 20        | 18.41       | 18.51          | 18.47        |                     |
| 15                          | 64QAM      | 36      | 39        | 18.43       | 18.42          | 18.45        |                     |
| 15                          | 64QAM      | 75      | 0         | 18.40       | 18.51          | 18.44        |                     |
| Channel                     |            |         |           | 20800       | 21100          | 21400        |                     |
| Frequency (MHz)             |            |         |           | 2505        | 2535           | 2565         |                     |
| 10                          | QPSK       | 1       | 0         | 21.32       | 21.38          | 21.32        | 22.5                |
| 10                          | QPSK       | 1       | 25        | 21.28       | 21.37          | 21.22        |                     |
| 10                          | QPSK       | 1       | 49        | 21.10       | 21.36          | 21.22        |                     |
| 10                          | QPSK       | 25      | 0         | 20.30       | 20.42          | 20.38        | 21.5                |
| 10                          | QPSK       | 25      | 12        | 20.42       | 20.43          | 20.39        |                     |
| 10                          | QPSK       | 25      | 25        | 20.42       | 20.44          | 20.33        |                     |
| 10                          | QPSK       | 50      | 0         | 20.32       | 20.42          | 20.32        | 21.5                |
| 10                          | 16QAM      | 1       | 0         | 19.95       | 20.06          | 19.99        |                     |
| 10                          | 16QAM      | 1       | 25        | 20.30       | 20.29          | 20.29        |                     |
| 10                          | 16QAM      | 1       | 49        | 20.26       | 20.28          | 20.14        | 20.5                |
| 10                          | 16QAM      | 25      | 0         | 19.44       | 19.42          | 19.39        |                     |
| 10                          | 16QAM      | 25      | 12        | 19.49       | 19.49          | 19.47        |                     |
| 10                          | 16QAM      | 25      | 25        | 19.40       | 19.39          | 19.41        |                     |
| 10                          | 16QAM      | 50      | 0         | 19.28       | 19.34          | 19.26        |                     |
| 10                          | 64QAM      | 1       | 0         | 19.33       | 19.39          | 19.33        | 20.5                |
| 10                          | 64QAM      | 1       | 25        | 19.44       | 19.45          | 19.32        |                     |
| 10                          | 64QAM      | 1       | 49        | 19.46       | 19.49          | 19.48        |                     |
| 10                          | 64QAM      | 25      | 0         | 18.30       | 18.39          | 18.45        | 19.5                |
| 10                          | 64QAM      | 25      | 12        | 18.36       | 18.46          | 18.42        |                     |
| 10                          | 64QAM      | 25      | 25        | 18.38       | 18.37          | 18.40        |                     |
| 10                          | 64QAM      | 50      | 0         | 18.35       | 18.46          | 18.39        |                     |
| Channel                     |            |         |           | 20775       | 21100          | 21425        |                     |
| Frequency (MHz)             |            |         |           | 2502.5      | 2535           | 2567.5       |                     |
| 5                           | QPSK       | 1       | 0         | 21.29       | 21.35          | 21.29        | 22.5                |
| 5                           | QPSK       | 1       | 12        | 21.25       | 21.34          | 21.19        |                     |
| 5                           | QPSK       | 1       | 24        | 21.07       | 21.33          | 21.19        |                     |
| 5                           | QPSK       | 12      | 0         | 20.27       | 20.39          | 20.35        | 21.5                |
| 5                           | QPSK       | 12      | 7         | 20.39       | 20.40          | 20.36        |                     |
| 5                           | QPSK       | 12      | 13        | 20.39       | 20.41          | 20.30        |                     |
| 5                           | QPSK       | 25      | 0         | 20.29       | 20.39          | 20.29        | 21.5                |
| 5                           | 16QAM      | 1       | 0         | 19.92       | 20.03          | 19.96        |                     |
| 5                           | 16QAM      | 1       | 12        | 20.27       | 20.26          | 20.26        |                     |
| 5                           | 16QAM      | 1       | 24        | 20.23       | 20.25          | 20.11        |                     |
| 5                           | 16QAM      | 12      | 0         | 19.41       | 19.39          | 19.36        |                     |
| 5                           | 16QAM      | 12      | 7         | 19.46       | 19.46          | 19.44        | 20.5                |
| 5                           | 16QAM      | 12      | 13        | 19.37       | 19.36          | 19.38        |                     |
| 5                           | 16QAM      | 25      | 0         | 19.25       | 19.31          | 19.23        |                     |
| 5                           | 64QAM      | 1       | 0         | 19.30       | 19.36          | 19.30        | 20.5                |
| 5                           | 64QAM      | 1       | 12        | 19.41       | 19.42          | 19.29        |                     |
| 5                           | 64QAM      | 1       | 24        | 19.43       | 19.46          | 19.45        |                     |
| 5                           | 64QAM      | 12      | 0         | 18.27       | 18.36          | 18.42        | 19.5                |
| 5                           | 64QAM      | 12      | 7         | 18.33       | 18.43          | 18.39        |                     |
| 5                           | 64QAM      | 12      | 13        | 18.35       | 18.34          | 18.37        |                     |
| 5                           | 64QAM      | 25      | 0         | 18.32       | 18.43          | 18.36        |                     |

| Band 38(only on channel required) (dBm) |            |         |           |             |                |              |                     |
|-----------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW (MHz)                                | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                                 |            |         |           | 37850       | 38000          | 38150        |                     |
| Frequency (MHz)                         |            |         |           | 2580        | 2595           | 2610         |                     |
| 20                                      | QPSK       | 1       | 0         | 21.55       | 21.66          | 21.63        | 22.5                |
| 20                                      | QPSK       | 1       | 49        | 21.53       | 21.54          | 21.45        |                     |
| 20                                      | QPSK       | 1       | 99        | 21.51       | 21.60          | 21.58        |                     |
| 20                                      | QPSK       | 50      | 0         | 20.65       | 20.72          | 20.69        | 21.5                |
| 20                                      | QPSK       | 50      | 24        | 20.41       | 20.48          | 20.38        |                     |
| 20                                      | QPSK       | 50      | 50        | 20.46       | 20.50          | 20.41        |                     |
| 20                                      | QPSK       | 100     | 0         | 20.48       | 20.49          | 20.47        | 21.5                |
| 20                                      | 16QAM      | 1       | 0         | 20.44       | 20.45          | 20.36        |                     |
| 20                                      | 16QAM      | 1       | 49        | 20.38       | 20.40          | 20.38        |                     |
| 20                                      | 16QAM      | 1       | 99        | 20.34       | 20.38          | 20.31        | 20.5                |
| 20                                      | 16QAM      | 50      | 0         | 19.72       | 19.76          | 19.67        |                     |
| 20                                      | 16QAM      | 50      | 24        | 19.69       | 19.70          | 19.60        |                     |
| 20                                      | 16QAM      | 50      | 50        | 19.64       | 19.74          | 19.73        | 20.5                |
| 20                                      | 16QAM      | 100     | 0         | 19.61       | 19.66          | 19.57        |                     |
| 20                                      | 64QAM      | 1       | 0         | 19.50       | 19.51          | 19.41        |                     |
| 20                                      | 64QAM      | 1       | 49        | 19.45       | 19.50          | 19.41        | 20.5                |
| 20                                      | 64QAM      | 1       | 99        | 19.39       | 19.47          | 19.44        |                     |
| 20                                      | 64QAM      | 50      | 0         | 18.80       | 18.82          | 18.80        |                     |
| 20                                      | 64QAM      | 50      | 24        | 18.73       | 18.80          | 18.73        | 19.5                |
| 20                                      | 64QAM      | 50      | 50        | 18.74       | 18.77          | 18.70        |                     |
| 20                                      | 64QAM      | 100     | 0         | 18.70       | 18.79          | 18.73        |                     |
| Channel                                 |            |         |           | 37825       | 38000          | 38175        |                     |
| Frequency (MHz)                         |            |         |           | 2577.5      | 2595           | 2612.5       |                     |
| 15                                      | QPSK       | 1       | 0         | 21.50       | 21.61          | 21.58        | 22.5                |
| 15                                      | QPSK       | 1       | 37        | 21.48       | 21.49          | 21.40        |                     |
| 15                                      | QPSK       | 1       | 74        | 21.46       | 21.55          | 21.53        |                     |
| 15                                      | QPSK       | 36      | 0         | 20.60       | 20.67          | 20.64        | 21.5                |
| 15                                      | QPSK       | 36      | 20        | 20.36       | 20.43          | 20.33        |                     |
| 15                                      | QPSK       | 36      | 39        | 20.41       | 20.45          | 20.36        |                     |
| 15                                      | QPSK       | 75      | 0         | 20.43       | 20.44          | 20.42        | 21.5                |
| 15                                      | 16QAM      | 1       | 0         | 20.39       | 20.40          | 20.31        |                     |
| 15                                      | 16QAM      | 1       | 37        | 20.33       | 20.35          | 20.33        |                     |
| 15                                      | 16QAM      | 1       | 74        | 20.29       | 20.33          | 20.26        | 20.5                |
| 15                                      | 16QAM      | 36      | 0         | 19.67       | 19.71          | 19.62        |                     |
| 15                                      | 16QAM      | 36      | 20        | 19.64       | 19.65          | 19.55        |                     |
| 15                                      | 16QAM      | 36      | 39        | 19.59       | 19.69          | 19.68        | 20.5                |
| 15                                      | 16QAM      | 75      | 0         | 19.56       | 19.61          | 19.52        |                     |
| 15                                      | 64QAM      | 1       | 0         | 19.45       | 19.46          | 19.36        |                     |
| 15                                      | 64QAM      | 1       | 37        | 19.40       | 19.45          | 19.36        | 20.5                |
| 15                                      | 64QAM      | 1       | 74        | 19.34       | 19.42          | 19.39        |                     |
| 15                                      | 64QAM      | 36      | 0         | 18.75       | 18.77          | 18.75        |                     |
| 15                                      | 64QAM      | 36      | 20        | 18.68       | 18.75          | 18.68        | 19.5                |
| 15                                      | 64QAM      | 36      | 39        | 18.69       | 18.72          | 18.65        |                     |
| 15                                      | 64QAM      | 75      | 0         | 18.65       | 18.74          | 18.68        |                     |
| Channel                                 |            |         |           | 37800       | 38000          | 38200        |                     |
| Frequency (MHz)                         |            |         |           | 2575        | 2595           | 2615         |                     |
| 10                                      | QPSK       | 1       | 0         | 21.46       | 21.57          | 21.54        | 22.5                |
| 10                                      | QPSK       | 1       | 25        | 21.44       | 21.45          | 21.36        |                     |
| 10                                      | QPSK       | 1       | 49        | 21.42       | 21.51          | 21.49        |                     |
| 10                                      | QPSK       | 25      | 0         | 20.56       | 20.63          | 20.60        | 21.5                |
| 10                                      | QPSK       | 25      | 12        | 20.32       | 20.39          | 20.29        |                     |
| 10                                      | QPSK       | 25      | 25        | 20.37       | 20.41          | 20.32        |                     |
| 10                                      | QPSK       | 50      | 0         | 20.39       | 20.40          | 20.38        | 21.5                |
| 10                                      | 16QAM      | 1       | 0         | 20.35       | 20.36          | 20.27        |                     |
| 10                                      | 16QAM      | 1       | 25        | 20.29       | 20.31          | 20.29        |                     |
| 10                                      | 16QAM      | 1       | 49        | 20.25       | 20.29          | 20.22        | 20.5                |
| 10                                      | 16QAM      | 25      | 0         | 19.63       | 19.67          | 19.58        |                     |
| 10                                      | 16QAM      | 25      | 12        | 19.60       | 19.61          | 19.51        |                     |
| 10                                      | 16QAM      | 25      | 25        | 19.55       | 19.65          | 19.64        | 20.5                |
| 10                                      | 16QAM      | 50      | 0         | 19.52       | 19.57          | 19.48        |                     |
| 10                                      | 64QAM      | 1       | 0         | 19.41       | 19.42          | 19.32        |                     |
| 10                                      | 64QAM      | 1       | 25        | 19.36       | 19.41          | 19.32        | 19.5                |
| 10                                      | 64QAM      | 1       | 49        | 19.30       | 19.38          | 19.35        |                     |
| 10                                      | 64QAM      | 25      | 0         | 18.71       | 18.73          | 18.71        |                     |
| 10                                      | 64QAM      | 25      | 12        | 18.64       | 18.71          | 18.64        | 19.5                |
| 10                                      | 64QAM      | 25      | 25        | 18.65       | 18.68          | 18.61        |                     |
| 10                                      | 64QAM      | 50      | 0         | 18.61       | 18.70          | 18.64        |                     |
| Channel                                 |            |         |           | 37775       | 38000          | 38225        |                     |
| Frequency (MHz)                         |            |         |           | 2572.5      | 2595           | 2617.5       |                     |
| 5                                       | QPSK       | 1       | 0         | 21.40       | 21.51          | 21.48        | 22.5                |
| 5                                       | QPSK       | 1       | 12        | 21.38       | 21.39          | 21.30        |                     |
| 5                                       | QPSK       | 1       | 24        | 21.36       | 21.45          | 21.43        |                     |
| 5                                       | QPSK       | 12      | 0         | 20.50       | 20.57          | 20.54        | 21.5                |
| 5                                       | QPSK       | 12      | 7         | 20.26       | 20.33          | 20.23        |                     |
| 5                                       | QPSK       | 12      | 13        | 20.31       | 20.35          | 20.26        |                     |
| 5                                       | QPSK       | 25      | 0         | 20.33       | 20.34          | 20.32        | 21.5                |
| 5                                       | 16QAM      | 1       | 0         | 20.29       | 20.30          | 20.21        |                     |
| 5                                       | 16QAM      | 1       | 12        | 20.23       | 20.25          | 20.23        |                     |
| 5                                       | 16QAM      | 1       | 24        | 20.19       | 20.23          | 20.16        | 20.5                |
| 5                                       | 16QAM      | 12      | 0         | 19.57       | 19.61          | 19.52        |                     |
| 5                                       | 16QAM      | 12      | 7         | 19.54       | 19.55          | 19.45        |                     |
| 5                                       | 16QAM      | 12      | 13        | 19.49       | 19.59          | 19.58        | 20.5                |
| 5                                       | 16QAM      | 25      | 0         | 19.46       | 19.51          | 19.42        |                     |
| 5                                       | 64QAM      | 1       | 0         | 19.35       | 19.36          | 19.26        |                     |
| 5                                       | 64QAM      | 1       | 12        | 19.30       | 19.35          | 19.26        | 19.5                |
| 5                                       | 64QAM      | 1       | 24        | 19.24       | 19.32          | 19.29        |                     |
| 5                                       | 64QAM      | 12      | 0         | 18.65       | 18.67          | 18.55        |                     |
| 5                                       | 64QAM      | 12      | 7         | 18.58       | 18.65          | 18.58        | 19.5                |
| 5                                       | 64QAM      | 12      | 13        | 18.59       | 18.62          | 18.55        |                     |
| 5                                       | 64QAM      | 25      | 0         | 18.55       | 18.64          | 18.58        |                     |

| Band 40 (2.3G Band-1) (dBm)<br>Part 27D-1 2305MHz ~ 2315MHz |            |         |           |             |                |              |                     |
|-------------------------------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]                                                    | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                                                     |            |         |           | 38750       |                |              |                     |
| Frequency (MHz)                                             |            |         |           | 2310        |                |              |                     |
| 10                                                          | QPSK       | 1       | 0         | 22.28       |                |              | 23                  |
| 10                                                          | QPSK       | 1       | 25        | 22.24       |                |              |                     |
| 10                                                          | QPSK       | 1       | 49        | 22.19       |                |              |                     |
| 10                                                          | QPSK       | 25      | 0         | 21.41       |                |              | 22                  |
| 10                                                          | QPSK       | 25      | 12        | 21.29       |                |              |                     |
| 10                                                          | QPSK       | 25      | 25        | 21.33       |                |              |                     |
| 10                                                          | QPSK       | 50      | 0         | 21.35       |                |              | 22                  |
| 10                                                          | 16QAM      | 1       | 0         | 21.38       |                |              |                     |
| 10                                                          | 16QAM      | 1       | 25        | 21.34       |                |              |                     |
| 10                                                          | 16QAM      | 1       | 49        | 21.31       |                |              | 22                  |
| 10                                                          | 16QAM      | 25      | 0         | 20.43       |                |              |                     |
| 10                                                          | 16QAM      | 25      | 12        | 20.39       |                |              |                     |
| 10                                                          | 16QAM      | 25      | 25        | 20.30       |                |              | 21                  |
| 10                                                          | 16QAM      | 50      | 0         | 20.36       |                |              |                     |
| 10                                                          | 64QAM      | 1       | 0         | 20.37       |                |              |                     |
| 10                                                          | 64QAM      | 1       | 25        | 20.34       |                |              | 21                  |
| 10                                                          | 64QAM      | 1       | 49        | 20.28       |                |              |                     |
| 10                                                          | 64QAM      | 25      | 0         | 19.42       |                |              |                     |
| 10                                                          | 64QAM      | 25      | 12        | 19.33       |                |              | 20                  |
| 10                                                          | 64QAM      | 25      | 25        | 19.35       |                |              |                     |
| 10                                                          | 64QAM      | 50      | 0         | 19.22       |                |              |                     |
| Channel                                                     |            |         |           | 38725       | 38750          | 38775        |                     |
| Frequency (MHz)                                             |            |         |           | 2307.5      | 2310           | 2312.5       |                     |
| 5                                                           | QPSK       | 1       | 0         | 22.14       | 22.17          | 22.10        | 23                  |
| 5                                                           | QPSK       | 1       | 12        | 22.09       | 22.15          | 22.06        |                     |
| 5                                                           | QPSK       | 1       | 24        | 21.99       | 22.11          | 22.12        |                     |
| 5                                                           | QPSK       | 12      | 0         | 21.28       | 21.39          | 21.29        | 22                  |
| 5                                                           | QPSK       | 12      | 7         | 21.27       | 21.24          | 21.11        |                     |
| 5                                                           | QPSK       | 12      | 13        | 21.11       | 21.35          | 21.13        |                     |
| 5                                                           | QPSK       | 25      | 0         | 21.32       | 21.40          | 21.19        | 22                  |
| 5                                                           | 16QAM      | 1       | 0         | 21.34       | 21.32          | 21.22        |                     |
| 5                                                           | 16QAM      | 1       | 12        | 21.11       | 21.08          | 21.23        |                     |
| 5                                                           | 16QAM      | 1       | 24        | 21.16       | 21.17          | 21.01        | 21                  |
| 5                                                           | 16QAM      | 12      | 0         | 20.26       | 20.38          | 20.35        |                     |
| 5                                                           | 16QAM      | 12      | 7         | 20.09       | 20.19          | 20.12        |                     |
| 5                                                           | 16QAM      | 12      | 13        | 20.12       | 20.36          | 20.07        | 21                  |
| 5                                                           | 16QAM      | 25      | 0         | 20.25       | 20.29          | 20.26        |                     |
| 5                                                           | 64QAM      | 1       | 0         | 20.27       | 20.43          | 20.26        |                     |
| 5                                                           | 64QAM      | 1       | 12        | 20.37       | 20.20          | 20.20        | 21                  |
| 5                                                           | 64QAM      | 1       | 24        | 20.16       | 20.21          | 20.30        |                     |
| 5                                                           | 64QAM      | 12      | 0         | 19.17       | 19.34          | 19.39        |                     |
| 5                                                           | 64QAM      | 12      | 7         | 19.31       | 19.32          | 19.30        | 20                  |
| 5                                                           | 64QAM      | 12      | 13        | 19.29       | 19.33          | 19.37        |                     |
| 5                                                           | 64QAM      | 25      | 0         | 19.09       | 19.20          | 19.19        |                     |

| Band 40 (2.3G Band-2) (dBm)  |            |         |           |             |                |              |                     |                     |
|------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|---------------------|
| Part 27D-2 2350MHz ~ 2360MHz |            |         |           |             |                |              |                     |                     |
| BW [MHz]                     | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |                     |
| Channel                      |            |         |           | 39200       |                |              |                     |                     |
| Frequency (MHz)              |            |         |           | 2355        |                |              | 23                  |                     |
| 10                           | QPSK       | 1       | 0         | 22.36       |                |              |                     |                     |
| 10                           | QPSK       | 1       | 25        | 22.32       |                |              |                     |                     |
| 10                           | QPSK       | 1       | 49        | 22.23       |                |              |                     |                     |
| 10                           | QPSK       | 25      | 0         | 21.47       |                |              | 22                  |                     |
| 10                           | QPSK       | 25      | 12        | 21.33       |                |              |                     |                     |
| 10                           | QPSK       | 25      | 25        | 21.38       |                |              |                     |                     |
| 10                           | QPSK       | 50      | 0         | 21.30       |                |              |                     |                     |
| 10                           | 16QAM      | 1       | 0         | 21.39       |                |              | 22                  |                     |
| 10                           | 16QAM      | 1       | 25        | 21.38       |                |              |                     |                     |
| 10                           | 16QAM      | 1       | 49        | 21.29       |                |              |                     |                     |
| 10                           | 16QAM      | 25      | 0         | 20.35       |                |              |                     |                     |
| 10                           | 16QAM      | 25      | 12        | 20.46       |                |              | 21                  |                     |
| 10                           | 16QAM      | 25      | 25        | 20.32       |                |              |                     |                     |
| 10                           | 16QAM      | 50      | 0         | 20.39       |                |              |                     |                     |
| 10                           | 64QAM      | 1       | 0         | 20.41       |                |              |                     |                     |
| 10                           | 64QAM      | 1       | 25        | 20.37       |                |              | 21                  |                     |
| 10                           | 64QAM      | 1       | 49        | 20.30       |                |              |                     |                     |
| 10                           | 64QAM      | 25      | 0         | 19.49       |                |              |                     |                     |
| 10                           | 64QAM      | 25      | 12        | 19.45       |                |              |                     |                     |
| 10                           | 64QAM      | 25      | 25        | 19.36       |                |              | 20                  |                     |
| 10                           | 64QAM      | 50      | 0         | 19.41       |                |              |                     |                     |
| Channel                      |            |         |           | 39175       | 39200          | 39225        |                     | Tune-up limit (dBm) |
| Frequency (MHz)              |            |         |           | 2352.5      | 2355           | 2357.5       |                     |                     |
| 5                            | QPSK       | 1       | 0         | 22.25       | 22.28          | 22.23        | 23                  |                     |
| 5                            | QPSK       | 1       | 12        | 22.09       | 22.26          | 22.12        |                     |                     |
| 5                            | QPSK       | 1       | 24        | 22.17       | 22.15          | 21.99        |                     |                     |
| 5                            | QPSK       | 12      | 0         | 21.36       | 21.46          | 21.43        |                     |                     |
| 5                            | QPSK       | 12      | 7         | 21.20       | 21.46          | 21.23        | 22                  |                     |
| 5                            | QPSK       | 12      | 13        | 21.26       | 21.24          | 21.18        |                     |                     |
| 5                            | QPSK       | 25      | 0         | 21.20       | 21.34          | 21.21        |                     |                     |
| 5                            | 16QAM      | 1       | 0         | 21.36       | 21.33          | 21.31        |                     |                     |
| 5                            | 16QAM      | 1       | 12        | 21.21       | 21.34          | 21.32        | 22                  |                     |
| 5                            | 16QAM      | 1       | 24        | 21.17       | 21.18          | 21.21        |                     |                     |
| 5                            | 16QAM      | 12      | 0         | 20.32       | 20.37          | 20.36        |                     |                     |
| 5                            | 16QAM      | 12      | 7         | 20.36       | 20.23          | 20.23        |                     |                     |
| 5                            | 16QAM      | 12      | 13        | 20.30       | 20.21          | 20.38        | 21                  |                     |
| 5                            | 16QAM      | 25      | 0         | 20.25       | 20.38          | 20.19        |                     |                     |
| 5                            | 64QAM      | 1       | 0         | 20.34       | 20.48          | 20.26        |                     |                     |
| 5                            | 64QAM      | 1       | 12        | 20.27       | 20.41          | 20.27        |                     |                     |
| 5                            | 64QAM      | 1       | 24        | 20.26       | 20.31          | 20.24        | 21                  |                     |
| 5                            | 64QAM      | 12      | 0         | 19.25       | 19.29          | 19.37        |                     |                     |
| 5                            | 64QAM      | 12      | 7         | 19.21       | 19.39          | 19.33        |                     |                     |
| 5                            | 64QAM      | 12      | 13        | 19.28       | 19.18          | 19.18        |                     |                     |
| 5                            | 64QAM      | 25      | 0         | 19.11       | 19.24          | 19.23        | 20                  |                     |

| Band 41 (2555~2655MHz) (dBm) |            |         |           |             |                    |                |                     |              |                     |
|------------------------------|------------|---------|-----------|-------------|--------------------|----------------|---------------------|--------------|---------------------|
| BW [MHz]                     | Modulation | RB Size | RB Offset | Low channel | Middle Low Channel | Middle Channel | Middle High Channel | High Channel | Tune-up limit (dBm) |
| Channel                      |            |         |           | 40340       | 40050              | 40740          | 41010               | 41140        |                     |
| Frequency (MHz)              |            |         |           | 2565        | 2536               | 2605           | 2632                | 2645         |                     |
| 20                           | QPSK       | 1       | 0         | 21.53       | 21.57              | 21.62          | 21.58               | 21.56        | 22.5                |
| 20                           | QPSK       | 1       | 49        | 21.33       | 21.61              | 21.51          | 21.56               | 21.51        |                     |
| 20                           | QPSK       | 1       | 99        | 21.31       | 21.56              | 21.49          | 21.46               | 21.38        |                     |
| 20                           | QPSK       | 50      | 0         | 20.41       | 20.62              | 20.67          | 20.45               | 20.46        | 21.5                |
| 20                           | QPSK       | 50      | 24        | 20.39       | 20.62              | 20.51          | 20.41               | 20.38        |                     |
| 20                           | QPSK       | 50      | 50        | 20.38       | 20.58              | 20.48          | 20.39               | 20.33        |                     |
| 20                           | QPSK       | 100     | 0         | 20.35       | 20.56              | 20.47          | 20.44               | 20.31        | 21.5                |
| 20                           | 16QAM      | 1       | 0         | 20.17       | 20.32              | 20.22          | 20.32               | 20.29        |                     |
| 20                           | 16QAM      | 1       | 49        | 20.14       | 20.29              | 20.20          | 20.29               | 20.21        |                     |
| 20                           | 16QAM      | 1       | 99        | 20.10       | 20.23              | 20.13          | 20.01               | 20.09        | 20.5                |
| 20                           | 16QAM      | 50      | 0         | 19.46       | 19.67              | 19.60          | 19.59               | 19.50        |                     |
| 20                           | 16QAM      | 50      | 24        | 19.44       | 19.62              | 19.57          | 19.54               | 19.45        |                     |
| 20                           | 16QAM      | 50      | 50        | 19.43       | 19.59              | 19.54          | 19.51               | 19.49        | 20.5                |
| 20                           | 16QAM      | 100     | 0         | 19.42       | 19.56              | 19.44          | 19.49               | 19.46        |                     |
| 20                           | 64QAM      | 1       | 0         | 19.18       | 19.51              | 19.54          | 19.57               | 19.42        |                     |
| 20                           | 64QAM      | 1       | 49        | 19.13       | 19.46              | 19.55          | 19.51               | 19.39        | 20.5                |
| 20                           | 64QAM      | 1       | 99        | 19.10       | 19.40              | 19.25          | 19.32               | 19.24        |                     |
| 20                           | 64QAM      | 50      | 0         | 18.52       | 18.81              | 18.49          | 18.68               | 18.63        |                     |
| 20                           | 64QAM      | 50      | 24        | 18.49       | 18.76              | 18.69          | 18.63               | 18.54        | 19.5                |
| 20                           | 64QAM      | 50      | 50        | 18.50       | 18.75              | 18.72          | 18.60               | 18.52        |                     |
| 20                           | 64QAM      | 100     | 0         | 18.39       | 18.73              | 18.65          | 18.56               | 18.49        |                     |
| Channel                      |            |         |           | 40315       | 40045              | 40740          | 41030               | 41165        | Tune-up limit (dBm) |
| Frequency (MHz)              |            |         |           | 2562.5      | 2535.5             | 2605           | 2634                | 2647.5       |                     |
| 15                           | QPSK       | 1       | 0         | 21.48       | 21.52              | 21.57          | 21.53               | 21.51        | 22.5                |
| 15                           | QPSK       | 1       | 37        | 21.28       | 21.56              | 21.46          | 21.51               | 21.46        |                     |
| 15                           | QPSK       | 1       | 74        | 21.26       | 21.51              | 21.44          | 21.41               | 21.33        |                     |
| 15                           | QPSK       | 36      | 0         | 20.36       | 20.62              | 20.47          | 20.40               | 20.41        | 21.5                |
| 15                           | QPSK       | 36      | 20        | 20.34       | 20.57              | 20.46          | 20.36               | 20.33        |                     |
| 15                           | QPSK       | 36      | 39        | 20.33       | 20.53              | 20.43          | 20.34               | 20.28        |                     |
| 15                           | QPSK       | 75      | 0         | 20.30       | 20.51              | 20.42          | 20.39               | 20.26        | 21.5                |
| 15                           | 16QAM      | 1       | 0         | 20.12       | 20.27              | 20.17          | 20.27               | 20.24        |                     |
| 15                           | 16QAM      | 1       | 37        | 20.09       | 20.24              | 20.15          | 20.24               | 20.16        |                     |
| 15                           | 16QAM      | 1       | 74        | 20.05       | 20.18              | 20.08          | 19.96               | 20.04        | 20.5                |
| 15                           | 16QAM      | 36      | 0         | 19.41       | 19.62              | 19.55          | 19.54               | 19.45        |                     |
| 15                           | 16QAM      | 36      | 20        | 19.39       | 19.57              | 19.52          | 19.49               | 19.40        |                     |
| 15                           | 16QAM      | 36      | 39        | 19.38       | 19.54              | 19.49          | 19.46               | 19.44        | 20.5                |
| 15                           | 16QAM      | 75      | 0         | 19.37       | 19.51              | 19.39          | 19.44               | 19.41        |                     |
| 15                           | 64QAM      | 1       | 0         | 19.13       | 19.46              | 19.49          | 19.52               | 19.37        |                     |
| 15                           | 64QAM      | 1       | 37        | 19.08       | 19.41              | 19.50          | 19.46               | 19.34        | 20.5                |
| 15                           | 64QAM      | 1       | 74        | 19.05       | 19.35              | 19.20          | 19.27               | 19.19        |                     |
| 15                           | 64QAM      | 36      | 0         | 18.47       | 18.76              | 18.44          | 18.63               | 18.58        |                     |
| 15                           | 64QAM      | 36      | 20        | 18.44       | 18.71              | 18.64          | 18.58               | 18.49        | 19.5                |
| 15                           | 64QAM      | 36      | 39        | 18.45       | 18.70              | 18.67          | 18.55               | 18.47        |                     |
| 15                           | 64QAM      | 75      | 0         | 18.34       | 18.68              | 18.60          | 18.51               | 18.44        |                     |
| Channel                      |            |         |           | 40290       | 40040              | 40740          | 41040               | 41190        | Tune-up limit (dBm) |
| Frequency (MHz)              |            |         |           | 2560        | 2535               | 2605           | 2635                | 2650         |                     |
| 10                           | QPSK       | 1       | 0         | 21.45       | 21.49              | 21.54          | 21.50               | 21.48        | 22.5                |
| 10                           | QPSK       | 1       | 25        | 21.25       | 21.53              | 21.43          | 21.48               | 21.43        |                     |
| 10                           | QPSK       | 1       | 49        | 21.23       | 21.48              | 21.41          | 21.38               | 21.30        |                     |
| 10                           | QPSK       | 25      | 0         | 20.33       | 20.59              | 20.44          | 20.37               | 20.38        | 21.5                |
| 10                           | QPSK       | 25      | 12        | 20.31       | 20.54              | 20.43          | 20.33               | 20.30        |                     |
| 10                           | QPSK       | 25      | 25        | 20.30       | 20.50              | 20.40          | 20.31               | 20.25        |                     |
| 10                           | QPSK       | 50      | 0         | 20.27       | 20.48              | 20.39          | 20.36               | 20.23        | 21.5                |
| 10                           | 16QAM      | 1       | 0         | 20.09       | 20.24              | 20.14          | 20.24               | 20.21        |                     |
| 10                           | 16QAM      | 1       | 25        | 20.06       | 20.21              | 20.12          | 20.21               | 20.13        |                     |
| 10                           | 16QAM      | 1       | 49        | 20.02       | 20.15              | 20.05          | 19.93               | 20.01        | 20.5                |
| 10                           | 16QAM      | 25      | 0         | 19.38       | 19.59              | 19.52          | 19.51               | 19.42        |                     |
| 10                           | 16QAM      | 25      | 12        | 19.36       | 19.54              | 19.49          | 19.46               | 19.37        |                     |
| 10                           | 16QAM      | 25      | 25        | 19.35       | 19.51              | 19.46          | 19.43               | 19.41        | 20.5                |
| 10                           | 16QAM      | 50      | 0         | 19.34       | 19.48              | 19.36          | 19.41               | 19.38        |                     |
| 10                           | 64QAM      | 1       | 0         | 19.10       | 19.43              | 19.46          | 19.49               | 19.34        |                     |
| 10                           | 64QAM      | 1       | 25        | 19.05       | 19.38              | 19.47          | 19.43               | 19.31        | 19.5                |
| 10                           | 64QAM      | 1       | 49        | 19.02       | 19.32              | 19.17          | 19.24               | 19.16        |                     |
| 10                           | 64QAM      | 25      | 0         | 18.44       | 18.73              | 18.41          | 18.60               | 18.55        |                     |
| 10                           | 64QAM      | 25      | 12        | 18.41       | 18.68              | 18.61          | 18.55               | 18.46        | 19.5                |
| 10                           | 64QAM      | 25      | 25        | 18.42       | 18.67              | 18.64          | 18.52               | 18.44        |                     |
| 10                           | 64QAM      | 50      | 0         | 18.31       | 18.65              | 18.57          | 18.48               | 18.41        |                     |
| Channel                      |            |         |           | 40265       | 40035              | 40740          | 41060               | 41215        | Tune-up limit (dBm) |
| Frequency (MHz)              |            |         |           | 2557.5      | 2534.5             | 2605           | 2637                | 2652.5       |                     |
| 5                            | QPSK       | 1       | 0         | 21.40       | 21.44              | 21.49          | 21.45               | 21.43        | 22.5                |
| 5                            | QPSK       | 1       | 12        | 21.20       | 21.48              | 21.38          | 21.43               | 21.38        |                     |
| 5                            | QPSK       | 1       | 24        | 21.18       | 21.43              | 21.36          | 21.33               | 21.25        |                     |
| 5                            | QPSK       | 12      | 0         | 20.28       | 20.54              | 20.39          | 20.32               | 20.33        | 21.5                |
| 5                            | QPSK       | 12      | 7         | 20.26       | 20.49              | 20.38          | 20.28               | 20.25        |                     |
| 5                            | QPSK       | 12      | 13        | 20.25       | 20.45              | 20.35          | 20.26               | 20.20        |                     |
| 5                            | QPSK       | 25      | 0         | 20.22       | 20.43              | 20.34          | 20.31               | 20.18        | 21.5                |
| 5                            | 16QAM      | 1       | 0         | 20.04       | 20.19              | 20.09          | 20.19               | 20.16        |                     |
| 5                            | 16QAM      | 1       | 12        | 20.01       | 20.16              | 20.07          | 20.16               | 20.08        |                     |
| 5                            | 16QAM      | 1       | 24        | 19.97       | 20.10              | 20.00          | 19.88               | 19.96        | 20.5                |
| 5                            | 16QAM      | 12      | 0         | 19.33       | 19.54              | 19.47          | 19.46               | 19.37        |                     |
| 5                            | 16QAM      | 12      | 7         | 19.31       | 19.49              | 19.44          | 19.41               | 19.32        |                     |
| 5                            | 16QAM      | 12      | 13        | 19.30       | 19.46              | 19.41          | 19.38               | 19.36        | 20.5                |
| 5                            | 16QAM      | 25      | 0         | 19.29       | 19.43              | 19.31          | 19.36               | 19.33        |                     |
| 5                            | 64QAM      | 1       | 0         | 19.05       | 19.38              | 19.41          | 19.44               | 19.29        |                     |
| 5                            | 64QAM      | 1       | 12        | 19.00       | 19.33              | 19.42          | 19.38               | 19.26        | 19.5                |
| 5                            | 64QAM      | 1       | 24        | 18.97       | 19.27              | 19.12          | 19.19               | 19.11        |                     |
| 5                            | 64QAM      | 12      | 0         | 18.39       | 18.68              | 18.36          | 18.55               | 18.50        |                     |
| 5                            | 64QAM      | 12      | 7         | 18.36       | 18.63              | 18.56          | 18.50               | 18.41        | 19.5                |
| 5                            | 64QAM      | 12      | 13        | 18.37       | 18.62              | 18.59          | 18.47               | 18.39        |                     |
| 5                            | 64QAM      | 25      | 0         | 18.26       | 18.60              | 18.52          | 18.43               | 18.36        |                     |

## 2.4GHz WLAN ANT 1

| Mode              | Channel           | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|-------------------|-----------------|---------------------|---------------|---------------|--------------|
| 2.4GHz WLAN ANT 1 | 802.11b 1Mbps     | CH 1            | 2412                | 13.99         | 15.00         | default      |
|                   |                   | CH 6            | 2437                | 15.40         | 16.00         | default      |
|                   |                   | CH 11           | 2462                | 16.71         | 16.50         | default      |
|                   | 802.11g 6Mbps     | CH 1            | 2412                | 11.99         | 13.00         | default      |
|                   |                   | CH 6            | 2437                | 13.52         | 14.50         | default      |
|                   |                   | CH 11           | 2462                | 14.46         | 15.00         | default      |
|                   | 802.11n-HT20 MCS0 | CH 1            | 2412                | 12.33         | 13.00         | default      |
|                   |                   | CH 6            | 2437                | 14.30         | 15.00         | default      |
|                   |                   | CH 11           | 2462                | 14.73         | 15.50         | default      |
|                   | 802.11n-HT40 MCS0 | CH 3            | 2422                | 12.35         | 13.00         | default      |
|                   |                   | CH 6            | 2437                | 14.12         | 15.00         | default      |
|                   |                   | CH 9            | 2452                | 14.18         | 15.00         | default      |

## 5GHz WLAN ANT 1

| Mode              | Channel             | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|-----------------|---------------------|---------------|---------------|--------------|
| 5.2GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 36           | 5180                | 13.00         | 14.00         | default      |
|                   |                     | CH 44           | 5220                | 12.43         | 13.00         | default      |
|                   |                     | CH 48           | 5240                | 11.93         | 12.50         | default      |
|                   | 802.11n-HT20 MCS0   | CH 36           | 5180                | 14.42         | 15.00         | default      |
|                   |                     | CH 44           | 5220                | 14.00         | 14.50         | default      |
|                   |                     | CH 48           | 5240                | 13.41         | 14.00         | default      |
|                   | 802.11n-HT40 MCS0   | CH 38           | 5190                | 14.10         | 15.00         | default      |
|                   |                     | CH 46           | 5230                | 13.50         | 14.50         | default      |
|                   |                     | CH 36           | 5180                | 14.20         | 15.00         | default      |
|                   | 802.11ac-VHT20 MCS0 | CH 44           | 5220                | 13.94         | 15.00         | default      |
|                   |                     | CH 48           | 5240                | 13.42         | 14.50         | default      |
|                   |                     | CH 38           | 5190                | 14.10         | 15.00         | default      |
|                   | 802.11ac-VHT40 MCS0 | CH 46           | 5230                | 13.40         | 14.00         | default      |
|                   |                     | CH 42           | 5210                | 13.93         | 14.50         | default      |

## 5GHz WLAN ANT 1

| Mode              | Channel             | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|-----------------|---------------------|---------------|---------------|--------------|
| 5.3GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 52           | 5260                | 11.05         | 12.00         | default      |
|                   |                     | CH 60           | 5300                | 10.45         | 11.00         | default      |
|                   |                     | CH 64           | 5320                | 9.76          | 10.50         | default      |
|                   | 802.11n-HT20 MCS0   | CH 52           | 5260                | 12.41         | 13.00         | default      |
|                   |                     | CH 60           | 5300                | 11.79         | 12.50         | default      |
|                   |                     | CH 64           | 5320                | 11.08         | 12.00         | default      |
|                   | 802.11n-HT40 MCS0   | CH 54           | 5270                | 12.04         | 13.00         | default      |
|                   |                     | CH 62           | 5310                | 11.45         | 12.00         | default      |
|                   |                     | CH 52           | 5260                | 12.50         | 13.50         | default      |
|                   | 802.11ac-VHT20 MCS0 | CH 60           | 5300                | 11.97         | 13.00         | default      |
|                   |                     | CH 64           | 5320                | 11.35         | 12.50         | default      |
|                   |                     | CH 54           | 5270                | 11.91         | 12.50         | default      |
|                   | 802.11ac-VHT40 MCS0 | CH 62           | 5310                | 11.36         | 12.50         | default      |
|                   |                     | CH 58           | 5290                | 11.89         | 12.50         | default      |

## 5GHz WLAN ANT 1

| Mode              | Channel             | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|-----------------|---------------------|---------------|---------------|--------------|
| 5.5GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 100          | 5500                | 10.99         | 12.00         | default      |
|                   |                     | CH 116          | 5580                | 11.85         | 12.50         | default      |
|                   |                     | CH 144          | 5720                | 11.01         | 12.00         | default      |
|                   | 802.11n-HT20 MCS0   | CH 100          | 5500                | 11.99         | 12.50         | default      |
|                   |                     | CH 116          | 5580                | 13.02         | 14.00         | default      |
|                   |                     | CH 144          | 5720                | 12.48         | 13.00         | default      |
|                   | 802.11n-HT40 MCS0   | CH 102          | 5510                | 12.13         | 13.00         | default      |
|                   |                     | CH 110          | 5550                | 12.32         | 13.00         | default      |
|                   |                     | CH 142          | 5710                | 12.31         | 13.00         | default      |
|                   | 802.11ac-VHT20 MCS0 | CH 100          | 5500                | 12.28         | 13.00         | default      |
|                   |                     | CH 116          | 5580                | 13.36         | 14.00         | default      |
|                   |                     | CH 144          | 5720                | 12.31         | 13.00         | default      |
|                   | 802.11ac-VHT40 MCS0 | CH 102          | 5510                | 12.09         | 13.00         | default      |
|                   |                     | CH 110          | 5550                | 12.28         | 13.00         | default      |
|                   |                     | CH 142          | 5710                | 12.31         | 13.00         | default      |
|                   | 802.11ac-VHT80 MCS0 | CH 106          | 5630                | 12.41         | 13.00         | default      |
|                   |                     | CH 122          | 5610                | 13.33         | 14.00         | default      |
|                   |                     | CH 138          | 5690                | 12.79         | 13.00         | default      |

## 5GHz WLAN ANT 1

| Mode              | Channel             | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|-----------------|---------------------|---------------|---------------|--------------|
| 5.8GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 149          | 5745                | 10.99         | 11.50         | default      |
|                   |                     | CH 157          | 5785                | 9.49          | 10.50         | default      |
|                   |                     | CH 165          | 5825                | 8.48          | 9.50          | default      |
|                   | 802.11n-HT20 MCS0   | CH 149          | 5745                | 12.28         | 13.00         | default      |
|                   |                     | CH 157          | 5785                | 11.11         | 12.00         | default      |
|                   |                     | CH 165          | 5825                | 10.66         | 12.00         | default      |
|                   | 802.11n-HT40 MCS0   | CH 151          | 5755                | 11.91         | 13.00         | default      |
|                   |                     | CH 159          | 5795                | 10.82         | 12.00         | default      |
|                   |                     | CH 149          | 5745                | 12.12         | 13.00         | default      |
|                   | 802.11ac-VHT20 MCS0 | CH 157          | 5785                | 10.93         | 11.50         | default      |
|                   |                     | CH 165          | 5825                | 10.45         | 11.50         | default      |
|                   |                     | CH 151          | 5755                | 11.93         | 12.50         | default      |
|                   | 802.11ac-VHT40 MCS0 | CH 159          | 5795                | 10.62         | 11.50         | default      |
|                   |                     | CH 155          | 5775                | 11.29         | 12.00         | default      |

| Mode     | Channel | Frequency (MHz) | 1Mbps | 2Mbps | 3Mbps |
|----------|---------|-----------------|-------|-------|-------|
| BR / EDR | CH 00   | 2402            | 10.12 | 7.53  | 7.42  |
|          |         | 2441            | 9.89  | 6.73  | 6.78  |
|          | CH 78   | 2480            | 8.67  | 6.46  | 6.37  |
|          |         |                 | 78.91 | 77.05 | 77.17 |

| Mode         | Channel      | Frequency (MHz) | Average power (dBm) | Average power (dBm) |
|--------------|--------------|-----------------|---------------------|---------------------|
|              |              |                 | GFSK                | 2M                  |
| LE           | CH 00        | 2402            | -3.60               | -5.27               |
|              | CH 19        | 2440            | -3.36               | -4.95               |
|              | CH 39        | 2480            | -3.78               | -5.35               |
|              | Turnup Limit |                 | -3                  | -4                  |
| Duty Cycle % |              |                 | 85.2                | 57.22               |