

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7505

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | -30.1      |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 9 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 1 mm       |
| Probe Tip to Sensor Y Calibration Point       | 1 mm       |
| Probe Tip to Sensor Z Calibration Point       | 1 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |

**Appendix: Modulation Calibration Parameters**

| UID           | Communication System Name                     |   | A<br>dB | B<br>dB $\sqrt{\mu V}$ | C     | D<br>dB | VR<br>mV | Max<br>Unc <sup>E</sup><br>(k=2) |
|---------------|-----------------------------------------------|---|---------|------------------------|-------|---------|----------|----------------------------------|
| 0             | CW                                            | X | 0.00    | 0.00                   | 1.00  | 0.00    | 159.7    | $\pm 3.0 \%$                     |
|               |                                               | Y | 0.00    | 0.00                   | 1.00  |         | 178.0    |                                  |
|               |                                               | Z | 0.00    | 0.00                   | 1.00  |         | 156.2    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 1.68    | 63.41                  | 8.35  | 10.00   | 20.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.50    | 62.13                  | 7.50  |         | 20.0     |                                  |
|               |                                               | Z | 1.90    | 65.37                  | 9.42  |         | 20.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 1.00    | 67.91                  | 15.41 | 0.00    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 0.81    | 65.17                  | 13.23 |         | 150.0    |                                  |
|               |                                               | Z | 0.99    | 67.65                  | 15.25 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.13    | 63.76                  | 15.09 | 0.41    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.03    | 62.74                  | 14.24 |         | 150.0    |                                  |
|               |                                               | Z | 1.14    | 63.87                  | 15.26 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 4.59    | 66.77                  | 16.91 | 1.46    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 4.56    | 66.53                  | 16.86 |         | 150.0    |                                  |
|               |                                               | Z | 4.69    | 66.87                  | 17.14 |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 100.00  | 106.50                 | 23.16 | 9.39    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 106.17                 | 23.05 |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 112.39                 | 25.80 |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 100.00  | 105.85                 | 22.92 | 9.57    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 105.63                 | 22.86 |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 111.34                 | 25.38 |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 106.80                 | 22.18 | 6.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 104.43                 | 21.08 |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 116.45                 | 26.53 |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 4.14    | 72.21                  | 27.48 | 12.57   | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 3.51    | 66.82                  | 24.41 |         | 50.0     |                                  |
|               |                                               | Z | 5.00    | 79.87                  | 32.66 |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 5.47    | 82.29                  | 29.34 | 9.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 5.45    | 82.21                  | 29.37 |         | 60.0     |                                  |
|               |                                               | Z | 6.53    | 87.94                  | 32.51 |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 109.71                 | 22.67 | 4.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 103.31                 | 19.80 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 123.10                 | 28.58 |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 115.29                 | 24.34 | 3.55    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 101.22                 | 18.27 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 132.41                 | 31.69 |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 3.78    | 73.91                  | 24.45 | 7.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 3.75    | 73.91                  | 24.56 |         | 80.0     |                                  |
|               |                                               | Z | 4.26    | 77.16                  | 26.54 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 104.91                 | 20.87 | 5.30    | 70.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 101.13                 | 19.15 |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 115.57                 | 25.66 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 113.64                 | 22.37 | 1.88    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 0.20    | 60.00                  | 3.89  |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 132.77                 | 30.15 |         | 100.0    |                                  |

|           |                                                     |   |        |        |       |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 134.78 | 29.64 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 14.42  | 211.06 | 8.06  |       | 100.0 |         |
|           |                                                     | Z | 100.00 | 152.93 | 36.71 |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 5.68   | 83.34  | 20.11 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 6.05   | 84.33  | 20.46 |       | 70.0  |         |
|           |                                                     | Z | 100.00 | 129.52 | 34.07 |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 1.84   | 71.35  | 14.09 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 1.30   | 67.13  | 11.88 |       | 100.0 |         |
|           |                                                     | Z | 5.22   | 85.25  | 20.02 |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 1.39   | 69.13  | 12.93 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 0.95   | 64.72  | 10.36 |       | 100.0 |         |
|           |                                                     | Z | 2.38   | 75.94  | 16.43 |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 7.70   | 87.78  | 21.63 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 8.80   | 89.75  | 22.25 |       | 70.0  |         |
|           |                                                     | Z | 100.00 | 130.21 | 34.37 |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 2.82   | 76.40  | 15.95 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 1.20   | 66.44  | 11.56 |       | 100.0 |         |
|           |                                                     | Z | 4.06   | 82.20  | 19.03 |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 1.40   | 69.39  | 13.19 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 0.96   | 64.93  | 10.60 |       | 100.0 |         |
|           |                                                     | Z | 2.41   | 76.42  | 16.77 |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 1.22   | 68.60  | 12.42 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.73   | 62.70  | 8.74  |       | 150.0 |         |
|           |                                                     | Z | 1.33   | 69.14  | 13.04 |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 100.00 | 103.58 | 21.12 | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 5.22   | 75.59  | 13.44 |       | 50.0  |         |
|           |                                                     | Z | 100.00 | 109.41 | 23.75 |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.00   | 94.40  | 0.05  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.10   | 121.49 | 12.43 |       | 150.0 |         |
|           |                                                     | Z | 0.00   | 100.60 | 3.18  |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 6.77   | 73.47  | 14.93 | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 6.27   | 72.50  | 14.71 |       | 25.0  |         |
|           |                                                     | Z | 100.00 | 105.96 | 24.43 |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 8.48   | 78.70  | 15.77 | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 6.70   | 76.06  | 14.92 |       | 40.0  |         |
|           |                                                     | Z | 481.27 | 125.68 | 28.00 |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 21.85  | 96.65  | 24.26 | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 21.67  | 96.61  | 24.35 |       | 50.0  |         |
|           |                                                     | Z | 100.00 | 123.86 | 32.66 |       | 50.0  |         |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 3.17   | 70.61  | 22.11 | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 3.12   | 70.55  | 22.19 |       | 100.0 |         |
|           |                                                     | Z | 3.49   | 72.98  | 23.72 |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.13   | 64.42  | 15.46 | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.02   | 63.44  | 14.67 |       | 110.0 |         |
|           |                                                     | Z | 1.15   | 64.82  | 15.87 |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 3.24   | 90.28  | 24.32 | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 2.80   | 87.02  | 22.18 |       | 110.0 |         |
|           |                                                     | Z | 35.45  | 129.69 | 35.34 |       | 110.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 1.69 | 73.53 | 19.59 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 1.63 | 73.50 | 19.40 |      | 110.0 |         |
|           |                                                | Z | 2.36 | 80.00 | 22.88 |      | 110.0 |         |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.40 | 66.81 | 16.39 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.36 | 66.46 | 16.24 |      | 100.0 |         |
|           |                                                | Z | 4.49 | 66.82 | 16.52 |      | 100.0 |         |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.41 | 66.89 | 16.47 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.37 | 66.55 | 16.34 |      | 100.0 |         |
|           |                                                | Z | 4.50 | 66.92 | 16.63 |      | 100.0 |         |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 4.63 | 67.05 | 16.65 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.60 | 66.76 | 16.55 |      | 100.0 |         |
|           |                                                | Z | 4.74 | 67.12 | 16.83 |      | 100.0 |         |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 4.50 | 66.84 | 16.69 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.47 | 66.60 | 16.63 |      | 100.0 |         |
|           |                                                | Z | 4.61 | 66.98 | 16.93 |      | 100.0 |         |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 4.50 | 66.79 | 16.81 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.48 | 66.59 | 16.78 |      | 100.0 |         |
|           |                                                | Z | 4.62 | 66.98 | 17.09 |      | 100.0 |         |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 4.77 | 67.04 | 17.26 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.77 | 66.89 | 17.29 |      | 100.0 |         |
|           |                                                | Z | 4.91 | 67.25 | 17.59 |      | 100.0 |         |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 4.79 | 66.92 | 17.40 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.79 | 66.79 | 17.45 |      | 100.0 |         |
|           |                                                | Z | 4.93 | 67.16 | 17.76 |      | 100.0 |         |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 4.85 | 66.92 | 17.57 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.86 | 66.83 | 17.64 |      | 100.0 |         |
|           |                                                | Z | 5.00 | 67.18 | 17.95 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 4.67 | 66.80 | 17.17 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.65 | 66.60 | 17.16 |      | 100.0 |         |
|           |                                                | Z | 4.78 | 66.93 | 17.45 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 4.60 | 66.96 | 17.32 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.60 | 66.80 | 17.34 |      | 100.0 |         |
|           |                                                | Z | 4.73 | 67.18 | 17.65 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 4.65 | 67.11 | 17.63 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.65 | 66.98 | 17.68 |      | 100.0 |         |
|           |                                                | Z | 4.79 | 67.35 | 18.00 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 4.66 | 67.06 | 17.78 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.66 | 66.93 | 17.84 |      | 100.0 |         |
|           |                                                | Z | 4.78 | 67.28 | 18.17 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 4.67 | 67.02 | 18.00 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.67 | 66.91 | 18.08 |      | 90.0  |         |
|           |                                                | Z | 4.79 | 67.26 | 18.42 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 4.71 | 66.89 | 18.16 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.71 | 66.80 | 18.26 |      | 90.0  |         |
|           |                                                | Z | 4.83 | 67.12 | 18.59 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 4.74 | 66.98 | 18.27 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.74 | 66.89 | 18.37 |      | 90.0  |         |
|           |                                                | Z | 4.85 | 67.21 | 18.70 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 0.61   | 64.15  | 9.92  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.40   | 60.14  | 6.60  |      | 150.0 |         |
|           |                                                     | Z | 0.64   | 64.19  | 10.26 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 0.55   | 60.00  | 3.36  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 0.95   | 60.12  | 2.48  |      | 80.0  |         |
|           |                                                     | Z | 0.55   | 60.00  | 3.68  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 106.78 | 22.18 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 104.53 | 21.14 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 116.46 | 26.55 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 1.84   | 69.11  | 15.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.58   | 66.77  | 14.31 |      | 150.0 |         |
|           |                                                     | Z | 1.81   | 68.51  | 15.68 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 1.80   | 69.05  | 15.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.55   | 66.69  | 14.28 |      | 150.0 |         |
|           |                                                     | Z | 1.77   | 68.46  | 15.66 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 5.50   | 82.43  | 29.39 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 5.49   | 82.35  | 29.42 |      | 60.0  |         |
|           |                                                     | Z | 6.58   | 88.15  | 32.59 |      | 60.0  |         |
| 10100-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 2.93   | 70.23  | 16.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.70   | 68.78  | 15.88 |      | 150.0 |         |
|           |                                                     | Z | 2.96   | 70.14  | 16.73 |      | 150.0 |         |
| 10101-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.06   | 67.48  | 15.92 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.93   | 66.65  | 15.37 |      | 150.0 |         |
|           |                                                     | Z | 3.09   | 67.40  | 15.89 |      | 150.0 |         |
| 10102-CAD | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.17   | 67.51  | 16.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.04   | 66.71  | 15.50 |      | 150.0 |         |
|           |                                                     | Z | 3.20   | 67.41  | 15.99 |      | 150.0 |         |
| 10103-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 5.05   | 73.95  | 19.85 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 4.84   | 73.25  | 19.66 |      | 65.0  |         |
|           |                                                     | Z | 5.72   | 76.20  | 21.15 |      | 65.0  |         |
| 10104-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 4.98   | 71.26  | 19.30 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 4.89   | 70.95  | 19.30 |      | 65.0  |         |
|           |                                                     | Z | 5.39   | 72.72  | 20.31 |      | 65.0  |         |
| 10105-CAD | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 4.88   | 70.62  | 19.30 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 4.69   | 69.84  | 19.08 |      | 65.0  |         |
|           |                                                     | Z | 5.23   | 71.88  | 20.22 |      | 65.0  |         |
| 10108-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 2.52   | 69.63  | 16.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.31   | 68.14  | 15.66 |      | 150.0 |         |
|           |                                                     | Z | 2.55   | 69.49  | 16.56 |      | 150.0 |         |
| 10109-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 2.71   | 67.55  | 15.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.56   | 66.54  | 15.11 |      | 150.0 |         |
|           |                                                     | Z | 2.74   | 67.39  | 15.75 |      | 150.0 |         |
| 10110-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.01   | 68.96  | 16.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.81   | 67.19  | 14.90 |      | 150.0 |         |
|           |                                                     | Z | 2.05   | 68.76  | 16.05 |      | 150.0 |         |
| 10111-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.48   | 69.11  | 16.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.25   | 67.38  | 15.01 |      | 150.0 |         |
|           |                                                     | Z | 2.48   | 68.64  | 15.99 |      | 150.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAE | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 2.83 | 67.65 | 15.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.69 | 66.67 | 15.23 |      | 150.0 |         |
|           |                                                | Z | 2.86 | 67.46 | 15.83 |      | 150.0 |         |
| 10113-CAE | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.62 | 69.29 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.39 | 67.63 | 15.19 |      | 150.0 |         |
|           |                                                | Z | 2.62 | 68.81 | 16.12 |      | 150.0 |         |
| 10114-CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 4.90 | 67.23 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.84 | 66.87 | 16.26 |      | 150.0 |         |
|           |                                                | Z | 4.94 | 67.14 | 16.42 |      | 150.0 |         |
| 10115-CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.12 | 67.26 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.08 | 66.94 | 16.29 |      | 150.0 |         |
|           |                                                | Z | 5.18 | 67.20 | 16.45 |      | 150.0 |         |
| 10116-CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 4.96 | 67.38 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.91 | 67.02 | 16.26 |      | 150.0 |         |
|           |                                                | Z | 5.02 | 67.32 | 16.44 |      | 150.0 |         |
| 10117-CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 4.88 | 67.13 | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.82 | 66.76 | 16.22 |      | 150.0 |         |
|           |                                                | Z | 4.93 | 67.09 | 16.41 |      | 150.0 |         |
| 10118-CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.18 | 67.42 | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.16 | 67.16 | 16.41 |      | 150.0 |         |
|           |                                                | Z | 5.25 | 67.39 | 16.56 |      | 150.0 |         |
| 10119-CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 4.97 | 67.41 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.92 | 67.05 | 16.28 |      | 150.0 |         |
|           |                                                | Z | 5.02 | 67.33 | 16.45 |      | 150.0 |         |
| 10140-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.18 | 67.54 | 15.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.05 | 66.73 | 15.41 |      | 150.0 |         |
|           |                                                | Z | 3.22 | 67.43 | 15.90 |      | 150.0 |         |
| 10141-CAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.31 | 67.74 | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.18 | 66.94 | 15.63 |      | 150.0 |         |
|           |                                                | Z | 3.34 | 67.60 | 16.09 |      | 150.0 |         |
| 10142-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 1.78 | 68.98 | 15.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.52 | 66.54 | 13.73 |      | 150.0 |         |
|           |                                                | Z | 1.81 | 68.73 | 15.37 |      | 150.0 |         |
| 10143-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.27 | 69.43 | 15.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.91 | 66.76 | 13.45 |      | 150.0 |         |
|           |                                                | Z | 2.28 | 69.08 | 15.14 |      | 150.0 |         |
| 10144-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 1.85 | 65.81 | 12.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.68 | 64.29 | 11.63 |      | 150.0 |         |
|           |                                                | Z | 1.94 | 65.99 | 13.07 |      | 150.0 |         |
| 10145-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 0.67 | 60.70 | 7.18  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 0.61 | 60.00 | 6.25  |      | 150.0 |         |
|           |                                                | Z | 0.78 | 61.52 | 8.16  |      | 150.0 |         |
| 10146-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 0.85 | 60.00 | 5.81  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 0.80 | 59.25 | 5.38  |      | 150.0 |         |
|           |                                                | Z | 0.99 | 60.63 | 6.76  |      | 150.0 |         |
| 10147-CAE | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 0.86 | 60.00 | 5.87  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 0.87 | 60.00 | 5.93  |      | 150.0 |         |
|           |                                                | Z | 1.04 | 60.99 | 7.05  |      | 150.0 |         |

|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 2.72 | 67.63 | 15.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.57 | 66.61 | 15.16 |      | 150.0 |         |
|           |                                            | Z | 2.75 | 67.45 | 15.80 |      | 150.0 |         |
| 10150-CAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 2.84 | 67.72 | 15.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.70 | 66.73 | 15.27 |      | 150.0 |         |
|           |                                            | Z | 2.87 | 67.52 | 15.87 |      | 150.0 |         |
| 10151-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 5.10 | 76.07 | 20.73 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 4.99 | 75.77 | 20.72 |      | 65.0  |         |
|           |                                            | Z | 6.02 | 79.15 | 22.41 |      | 65.0  |         |
| 10152-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 4.49 | 71.11 | 18.74 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 4.41 | 70.81 | 18.75 |      | 65.0  |         |
|           |                                            | Z | 4.95 | 72.84 | 19.96 |      | 65.0  |         |
| 10153-CAD | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 4.86 | 72.30 | 19.66 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 4.77 | 72.01 | 19.69 |      | 65.0  |         |
|           |                                            | Z | 5.32 | 73.96 | 20.83 |      | 65.0  |         |
| 10154-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.06 | 69.37 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.84 | 67.52 | 15.12 |      | 150.0 |         |
|           |                                            | Z | 2.09 | 69.13 | 16.28 |      | 150.0 |         |
| 10155-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.49 | 69.16 | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.25 | 67.43 | 15.04 |      | 150.0 |         |
|           |                                            | Z | 2.49 | 68.68 | 16.02 |      | 150.0 |         |
| 10156-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 1.58 | 68.61 | 14.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.30 | 65.70 | 12.73 |      | 150.0 |         |
|           |                                            | Z | 1.62 | 68.44 | 14.78 |      | 150.0 |         |
| 10157-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 1.64 | 65.80 | 12.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.43 | 63.86 | 10.87 |      | 150.0 |         |
|           |                                            | Z | 1.74 | 66.14 | 12.72 |      | 150.0 |         |
| 10158-CAE | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 2.64 | 69.39 | 16.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.40 | 67.71 | 15.25 |      | 150.0 |         |
|           |                                            | Z | 2.63 | 68.90 | 16.18 |      | 150.0 |         |
| 10159-CAE | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 1.71 | 66.10 | 12.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.48 | 64.03 | 11.00 |      | 150.0 |         |
|           |                                            | Z | 1.82 | 66.47 | 12.92 |      | 150.0 |         |
| 10160-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.56 | 69.00 | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.40 | 67.82 | 15.58 |      | 150.0 |         |
|           |                                            | Z | 2.60 | 68.85 | 16.35 |      | 150.0 |         |
| 10161-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 2.73 | 67.72 | 15.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.58 | 66.64 | 15.08 |      | 150.0 |         |
|           |                                            | Z | 2.76 | 67.49 | 15.75 |      | 150.0 |         |
| 10162-CAD | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 2.84 | 67.98 | 15.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.69 | 66.90 | 15.25 |      | 150.0 |         |
|           |                                            | Z | 2.87 | 67.73 | 15.90 |      | 150.0 |         |
| 10166-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 3.04 | 68.67 | 18.74 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.97 | 68.03 | 18.36 |      | 150.0 |         |
|           |                                            | Z | 3.17 | 69.00 | 18.89 |      | 150.0 |         |
| 10167-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 3.58 | 71.75 | 19.27 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.39 | 70.21 | 18.49 |      | 150.0 |         |
|           |                                            | Z | 3.79 | 72.07 | 19.41 |      | 150.0 |         |

|           |                                            |   |       |       |       |      |       |         |
|-----------|--------------------------------------------|---|-------|-------|-------|------|-------|---------|
| 10168-CAE | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 4.10  | 74.76 | 21.02 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.82  | 72.83 | 20.09 |      | 150.0 |         |
|           |                                            | Z | 4.29  | 74.81 | 20.99 |      | 150.0 |         |
| 10169-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 2.51  | 67.32 | 18.11 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.42  | 66.24 | 17.48 |      | 150.0 |         |
|           |                                            | Z | 2.58  | 67.60 | 18.26 |      | 150.0 |         |
| 10170-CAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 3.28  | 73.39 | 20.71 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.96  | 70.57 | 19.34 |      | 150.0 |         |
|           |                                            | Z | 3.39  | 73.47 | 20.71 |      | 150.0 |         |
| 10171-AAD | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 2.66  | 69.07 | 17.68 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.49  | 67.10 | 16.66 |      | 150.0 |         |
|           |                                            | Z | 2.78  | 69.42 | 17.86 |      | 150.0 |         |
| 10172-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 3.24  | 76.83 | 23.43 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 3.24  | 76.17 | 23.30 |      | 65.0  |         |
|           |                                            | Z | 4.42  | 83.40 | 26.78 |      | 65.0  |         |
| 10173-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 5.37  | 84.64 | 24.40 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.06  | 82.69 | 23.95 |      | 65.0  |         |
|           |                                            | Z | 10.52 | 97.59 | 29.55 |      | 65.0  |         |
| 10174-CAD | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 4.30  | 80.23 | 22.22 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 4.10  | 78.42 | 21.79 |      | 65.0  |         |
|           |                                            | Z | 8.02  | 91.51 | 26.95 |      | 65.0  |         |
| 10175-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 2.48  | 67.05 | 17.87 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.40  | 65.99 | 17.25 |      | 150.0 |         |
|           |                                            | Z | 2.55  | 67.34 | 18.03 |      | 150.0 |         |
| 10176-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 3.29  | 73.42 | 20.72 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.96  | 70.59 | 19.35 |      | 150.0 |         |
|           |                                            | Z | 3.39  | 73.50 | 20.72 |      | 150.0 |         |
| 10177-CAG | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 2.50  | 67.16 | 17.94 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.41  | 66.10 | 17.32 |      | 150.0 |         |
|           |                                            | Z | 2.57  | 67.46 | 18.10 |      | 150.0 |         |
| 10178-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 3.27  | 73.27 | 20.64 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.95  | 70.47 | 19.27 |      | 150.0 |         |
|           |                                            | Z | 3.37  | 73.36 | 20.64 |      | 150.0 |         |
| 10179-CAE | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 2.94  | 71.10 | 19.06 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.69  | 68.70 | 17.85 |      | 150.0 |         |
|           |                                            | Z | 3.05  | 71.35 | 19.16 |      | 150.0 |         |
| 10180-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 2.66  | 69.04 | 17.65 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.49  | 67.07 | 16.63 |      | 150.0 |         |
|           |                                            | Z | 2.78  | 69.39 | 17.83 |      | 150.0 |         |
| 10181-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 2.49  | 67.14 | 17.93 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.41  | 66.08 | 17.32 |      | 150.0 |         |
|           |                                            | Z | 2.57  | 67.44 | 18.10 |      | 150.0 |         |
| 10182-CAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 3.26  | 73.25 | 20.62 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.94  | 70.45 | 19.26 |      | 150.0 |         |
|           |                                            | Z | 3.36  | 73.33 | 20.63 |      | 150.0 |         |
| 10183-AAC | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 2.66  | 69.02 | 17.64 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.49  | 67.06 | 16.62 |      | 150.0 |         |
|           |                                            | Z | 2.78  | 69.37 | 17.82 |      | 150.0 |         |

|           |                                               |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 2.50 | 67.18 | 17.95 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.42 | 66.12 | 17.33 |      | 150.0 |         |
|           |                                               | Z | 2.58 | 67.48 | 18.12 |      | 150.0 |         |
| 10185-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 3.28 | 73.32 | 20.67 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.96 | 70.51 | 19.30 |      | 150.0 |         |
|           |                                               | Z | 3.38 | 73.40 | 20.67 |      | 150.0 |         |
| 10186-AAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 2.67 | 69.08 | 17.68 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.50 | 67.11 | 16.65 |      | 150.0 |         |
|           |                                               | Z | 2.79 | 69.43 | 17.86 |      | 150.0 |         |
| 10187-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 2.51 | 67.27 | 18.04 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.43 | 66.19 | 17.42 |      | 150.0 |         |
|           |                                               | Z | 2.59 | 67.55 | 18.20 |      | 150.0 |         |
| 10188-CAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 3.37 | 73.94 | 21.04 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.03 | 71.02 | 19.63 |      | 150.0 |         |
|           |                                               | Z | 3.48 | 73.99 | 21.02 |      | 150.0 |         |
| 10189-AAE | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 2.72 | 69.47 | 17.95 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.54 | 67.42 | 16.89 |      | 150.0 |         |
|           |                                               | Z | 2.84 | 69.81 | 18.12 |      | 150.0 |         |
| 10193-CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.31 | 66.99 | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.22 | 66.48 | 15.87 |      | 150.0 |         |
|           |                                               | Z | 4.35 | 66.82 | 16.13 |      | 150.0 |         |
| 10194-CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.43 | 67.19 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.36 | 66.69 | 16.01 |      | 150.0 |         |
|           |                                               | Z | 4.49 | 67.05 | 16.26 |      | 150.0 |         |
| 10195-CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.46 | 67.18 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.39 | 66.71 | 16.03 |      | 150.0 |         |
|           |                                               | Z | 4.52 | 67.06 | 16.27 |      | 150.0 |         |
| 10196-CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.29 | 66.97 | 16.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.21 | 66.46 | 15.85 |      | 150.0 |         |
|           |                                               | Z | 4.33 | 66.81 | 16.11 |      | 150.0 |         |
| 10197-CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.44 | 67.18 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.36 | 66.70 | 16.02 |      | 150.0 |         |
|           |                                               | Z | 4.50 | 67.05 | 16.27 |      | 150.0 |         |
| 10198-CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.45 | 67.17 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.38 | 66.70 | 16.03 |      | 150.0 |         |
|           |                                               | Z | 4.52 | 67.06 | 16.28 |      | 150.0 |         |
| 10219-CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.24 | 67.02 | 16.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.16 | 66.49 | 15.82 |      | 150.0 |         |
|           |                                               | Z | 4.29 | 66.85 | 16.09 |      | 150.0 |         |
| 10220-CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.43 | 67.14 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.36 | 66.66 | 16.00 |      | 150.0 |         |
|           |                                               | Z | 4.49 | 67.01 | 16.25 |      | 150.0 |         |
| 10221-CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.47 | 67.13 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.40 | 66.66 | 16.02 |      | 150.0 |         |
|           |                                               | Z | 4.53 | 67.00 | 16.26 |      | 150.0 |         |
| 10222-CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 4.85 | 67.14 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.80 | 66.76 | 16.21 |      | 150.0 |         |
|           |                                               | Z | 4.90 | 67.07 | 16.40 |      | 150.0 |         |

|           |                                           |   |       |       |       |      |       |         |
|-----------|-------------------------------------------|---|-------|-------|-------|------|-------|---------|
| 10223-CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.09  | 67.25 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.04  | 66.93 | 16.31 |      | 150.0 |         |
|           |                                           | Z | 5.16  | 67.26 | 16.50 |      | 150.0 |         |
| 10224-CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 4.89  | 67.27 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 4.83  | 66.88 | 16.20 |      | 150.0 |         |
|           |                                           | Z | 4.94  | 67.19 | 16.38 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.59  | 66.48 | 14.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.45  | 65.47 | 14.17 |      | 150.0 |         |
|           |                                           | Z | 2.63  | 66.29 | 14.92 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 5.74  | 85.91 | 24.95 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 5.35  | 83.79 | 24.45 |      | 65.0  |         |
|           |                                           | Z | 11.53 | 99.45 | 30.23 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 5.63  | 84.55 | 23.75 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 5.33  | 82.82 | 23.43 |      | 65.0  |         |
|           |                                           | Z | 12.05 | 98.61 | 29.18 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 3.54  | 78.69 | 24.23 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.68  | 79.05 | 24.57 |      | 65.0  |         |
|           |                                           | Z | 4.98  | 86.11 | 27.87 |      | 65.0  |         |
| 10229-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 5.41  | 84.75 | 24.45 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 5.09  | 82.78 | 23.99 |      | 65.0  |         |
|           |                                           | Z | 10.61 | 97.73 | 29.60 |      | 65.0  |         |
| 10230-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 5.26  | 83.33 | 23.25 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 5.02  | 81.76 | 22.98 |      | 65.0  |         |
|           |                                           | Z | 10.89 | 96.71 | 28.53 |      | 65.0  |         |
| 10231-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 3.43  | 78.00 | 23.87 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.56  | 78.34 | 24.20 |      | 65.0  |         |
|           |                                           | Z | 4.79  | 85.23 | 27.46 |      | 65.0  |         |
| 10232-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 5.40  | 84.73 | 24.44 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 5.08  | 82.77 | 23.99 |      | 65.0  |         |
|           |                                           | Z | 10.59 | 97.70 | 29.59 |      | 65.0  |         |
| 10233-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 5.24  | 83.29 | 23.24 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 5.01  | 81.72 | 22.97 |      | 65.0  |         |
|           |                                           | Z | 10.84 | 96.65 | 28.51 |      | 65.0  |         |
| 10234-CAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 3.34  | 77.47 | 23.54 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.47  | 77.79 | 23.85 |      | 65.0  |         |
|           |                                           | Z | 4.66  | 84.57 | 27.09 |      | 65.0  |         |
| 10235-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 5.40  | 84.75 | 24.45 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 5.09  | 82.79 | 24.00 |      | 65.0  |         |
|           |                                           | Z | 10.61 | 97.75 | 29.61 |      | 65.0  |         |
| 10236-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 5.30  | 83.45 | 23.29 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 5.06  | 81.86 | 23.01 |      | 65.0  |         |
|           |                                           | Z | 11.04 | 96.93 | 28.59 |      | 65.0  |         |
| 10237-CAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 3.42  | 78.00 | 23.88 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.55  | 78.35 | 24.21 |      | 65.0  |         |
|           |                                           | Z | 4.79  | 85.26 | 27.47 |      | 65.0  |         |
| 10238-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 5.39  | 84.70 | 24.43 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 5.07  | 82.74 | 23.98 |      | 65.0  |         |
|           |                                           | Z | 10.56 | 97.67 | 29.58 |      | 65.0  |         |

|           |                                            |   |       |       |       |      |      |         |
|-----------|--------------------------------------------|---|-------|-------|-------|------|------|---------|
| 10239-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 5.22  | 83.24 | 23.23 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.99  | 81.68 | 22.95 |      | 65.0 |         |
|           |                                            | Z | 10.79 | 96.58 | 28.49 |      | 65.0 |         |
| 10240-CAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 3.42  | 77.99 | 23.87 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.55  | 78.33 | 24.20 |      | 65.0 |         |
|           |                                            | Z | 4.78  | 85.24 | 27.46 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 6.03  | 79.03 | 24.50 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.99  | 78.20 | 24.27 |      | 65.0 |         |
|           |                                            | Z | 6.91  | 81.54 | 25.98 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 5.61  | 77.68 | 23.88 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.48  | 76.43 | 23.45 |      | 65.0 |         |
|           |                                            | Z | 6.47  | 80.22 | 25.37 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 4.68  | 74.02 | 23.19 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.62  | 73.24 | 22.93 |      | 65.0 |         |
|           |                                            | Z | 5.17  | 75.84 | 24.42 |      | 65.0 |         |
| 10244-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 2.74  | 66.25 | 12.09 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 2.83  | 66.65 | 12.62 |      | 65.0 |         |
|           |                                            | Z | 3.89  | 71.11 | 15.27 |      | 65.0 |         |
| 10245-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 2.69  | 65.82 | 11.81 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 2.79  | 66.19 | 12.34 |      | 65.0 |         |
|           |                                            | Z | 3.74  | 70.27 | 14.83 |      | 65.0 |         |
| 10246-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 2.71  | 69.60 | 14.50 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 2.65  | 69.37 | 14.47 |      | 65.0 |         |
|           |                                            | Z | 4.53  | 77.42 | 18.70 |      | 65.0 |         |
| 10247-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 3.23  | 68.75 | 14.84 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.17  | 68.55 | 14.89 |      | 65.0 |         |
|           |                                            | Z | 4.07  | 72.45 | 17.33 |      | 65.0 |         |
| 10248-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 3.18  | 68.09 | 14.51 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.14  | 67.96 | 14.60 |      | 65.0 |         |
|           |                                            | Z | 3.94  | 71.47 | 16.87 |      | 65.0 |         |
| 10249-CAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 4.13  | 75.96 | 18.72 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.08  | 75.93 | 18.81 |      | 65.0 |         |
|           |                                            | Z | 6.51  | 83.87 | 22.57 |      | 65.0 |         |
| 10250-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 4.44  | 73.32 | 19.40 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.35  | 73.11 | 19.48 |      | 65.0 |         |
|           |                                            | Z | 5.07  | 75.80 | 21.05 |      | 65.0 |         |
| 10251-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 4.15  | 70.97 | 17.89 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.08  | 70.75 | 17.95 |      | 65.0 |         |
|           |                                            | Z | 4.72  | 73.21 | 19.48 |      | 65.0 |         |
| 10252-CAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 4.94  | 78.12 | 21.27 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.87  | 78.03 | 21.35 |      | 65.0 |         |
|           |                                            | Z | 6.38  | 82.94 | 23.73 |      | 65.0 |         |
| 10253-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 4.44  | 70.81 | 18.46 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.36  | 70.51 | 18.47 |      | 65.0 |         |
|           |                                            | Z | 4.88  | 72.47 | 19.69 |      | 65.0 |         |
| 10254-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 4.75  | 71.80 | 19.23 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.66  | 71.51 | 19.26 |      | 65.0 |         |
|           |                                            | Z | 5.20  | 73.43 | 20.42 |      | 65.0 |         |

|           |                                             |   |      |       |       |      |      |         |
|-----------|---------------------------------------------|---|------|-------|-------|------|------|---------|
| 10255-CAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 4.86 | 75.38 | 20.55 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.76 | 75.09 | 20.55 |      | 65.0 |         |
|           |                                             | Z | 5.67 | 78.23 | 22.19 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 1.94 | 62.51 | 8.81  | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 2.02 | 62.80 | 9.28  |      | 65.0 |         |
|           |                                             | Z | 2.54 | 65.42 | 11.23 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 1.92 | 62.19 | 8.52  | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 2.00 | 62.46 | 8.99  |      | 65.0 |         |
|           |                                             | Z | 2.46 | 64.77 | 10.78 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 1.81 | 64.16 | 10.53 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 1.77 | 63.92 | 10.47 |      | 65.0 |         |
|           |                                             | Z | 2.64 | 69.03 | 13.85 |      | 65.0 |         |
| 10259-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 3.71 | 70.67 | 16.60 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.65 | 70.47 | 16.67 |      | 65.0 |         |
|           |                                             | Z | 4.51 | 73.99 | 18.81 |      | 65.0 |         |
| 10260-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 3.74 | 70.39 | 16.45 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.67 | 70.19 | 16.52 |      | 65.0 |         |
|           |                                             | Z | 4.50 | 73.55 | 18.60 |      | 65.0 |         |
| 10261-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 4.32 | 76.29 | 19.50 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.25 | 76.22 | 19.59 |      | 65.0 |         |
|           |                                             | Z | 6.04 | 82.37 | 22.61 |      | 65.0 |         |
| 10262-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 4.42 | 73.23 | 19.34 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.33 | 73.02 | 19.41 |      | 65.0 |         |
|           |                                             | Z | 5.05 | 75.71 | 20.99 |      | 65.0 |         |
| 10263-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 4.14 | 70.95 | 17.88 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.08 | 70.73 | 17.94 |      | 65.0 |         |
|           |                                             | Z | 4.71 | 73.18 | 19.47 |      | 65.0 |         |
| 10264-CAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 4.89 | 77.89 | 21.15 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.81 | 77.79 | 21.23 |      | 65.0 |         |
|           |                                             | Z | 6.29 | 82.67 | 23.60 |      | 65.0 |         |
| 10265-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 4.49 | 71.11 | 18.75 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.41 | 70.82 | 18.76 |      | 65.0 |         |
|           |                                             | Z | 4.95 | 72.85 | 19.97 |      | 65.0 |         |
| 10266-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 4.85 | 72.28 | 19.65 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.76 | 71.99 | 19.68 |      | 65.0 |         |
|           |                                             | Z | 5.32 | 73.95 | 20.82 |      | 65.0 |         |
| 10267-CAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 5.09 | 76.02 | 20.70 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.98 | 75.72 | 20.69 |      | 65.0 |         |
|           |                                             | Z | 6.00 | 79.09 | 22.39 |      | 65.0 |         |
| 10268-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 5.16 | 71.38 | 19.42 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.07 | 71.04 | 19.41 |      | 65.0 |         |
|           |                                             | Z | 5.56 | 72.69 | 20.37 |      | 65.0 |         |
| 10269-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 5.20 | 71.09 | 19.31 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.10 | 70.73 | 19.29 |      | 65.0 |         |
|           |                                             | Z | 5.56 | 72.30 | 20.21 |      | 65.0 |         |
| 10270-CAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 5.21 | 73.75 | 19.93 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.08 | 73.36 | 19.88 |      | 65.0 |         |
|           |                                             | Z | 5.78 | 75.66 | 21.10 |      | 65.0 |         |

|           |                                                                    |   |       |        |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.46  | 67.20  | 14.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.29  | 65.96  | 14.16 |      | 150.0 |         |
|           |                                                                    | Z | 2.48  | 66.94  | 15.01 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.54  | 68.58  | 15.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.31  | 66.24  | 13.95 |      | 150.0 |         |
|           |                                                                    | Z | 1.54  | 68.25  | 15.48 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 1.33  | 58.93  | 4.19  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 1.37  | 58.90  | 4.25  |      | 50.0  |         |
|           |                                                                    | Z | 1.36  | 59.42  | 4.72  |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 2.37  | 63.88  | 9.45  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 2.43  | 64.05  | 9.67  |      | 50.0  |         |
|           |                                                                    | Z | 3.05  | 67.73  | 12.08 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 2.43  | 64.06  | 9.61  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 2.50  | 64.26  | 9.85  |      | 50.0  |         |
|           |                                                                    | Z | 3.15  | 68.07  | 12.32 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 0.88  | 64.92  | 10.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.63  | 61.39  | 7.73  |      | 150.0 |         |
|           |                                                                    | Z | 0.99  | 65.63  | 11.10 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 0.60  | 63.94  | 9.79  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.39  | 60.07  | 6.53  |      | 150.0 |         |
|           |                                                                    | Z | 0.63  | 64.00  | 10.14 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 1.00  | 70.34  | 13.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.43  | 61.37  | 7.58  |      | 150.0 |         |
|           |                                                                    | Z | 0.93  | 69.22  | 13.03 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 7.53  | 94.02  | 21.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.57  | 63.96  | 9.42  |      | 150.0 |         |
|           |                                                                    | Z | 2.77  | 82.61  | 18.52 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 18.59 | 93.20  | 24.03 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 24.82 | 97.30  | 25.31 |      | 50.0  |         |
|           |                                                                    | Z | 48.50 | 112.42 | 30.92 |      | 50.0  |         |
| 10297-AAC | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 2.53  | 69.75  | 16.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.33  | 68.24  | 15.73 |      | 150.0 |         |
|           |                                                                    | Z | 2.57  | 69.60  | 16.63 |      | 150.0 |         |
| 10298-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 1.06  | 64.69  | 11.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.86  | 62.17  | 9.08  |      | 150.0 |         |
|           |                                                                    | Z | 1.16  | 65.29  | 11.68 |      | 150.0 |         |
| 10299-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 1.26  | 62.62  | 8.65  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.18  | 61.75  | 8.20  |      | 150.0 |         |
|           |                                                                    | Z | 1.52  | 64.05  | 9.95  |      | 150.0 |         |
| 10300-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 1.04  | 60.54  | 6.80  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.02  | 60.16  | 6.63  |      | 150.0 |         |
|           |                                                                    | Z | 1.22  | 61.45  | 7.84  |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 4.13  | 64.77  | 16.75 | 4.17 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.32  | 65.36  | 17.00 |      | 50.0  |         |
|           |                                                                    | Z | 4.41  | 65.47  | 17.23 |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 4.66  | 65.59  | 17.57 | 4.96 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.72  | 65.53  | 17.47 |      | 50.0  |         |
|           |                                                                    | Z | 4.89  | 66.01  | 17.89 |      | 50.0  |         |

|           |                                                                     |   |      |       |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.42 | 65.22 | 17.34 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.52 | 65.59 | 17.54 |       | 50.0  |         |
|           |                                                                     | Z | 4.64 | 65.63 | 17.67 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.27 | 65.27 | 16.95 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.31 | 65.11 | 16.79 |       | 50.0  |         |
|           |                                                                     | Z | 4.48 | 65.61 | 17.22 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 3.69 | 65.82 | 17.72 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 3.87 | 66.56 | 18.00 |       | 35.0  |         |
|           |                                                                     | Z | 3.96 | 66.74 | 18.50 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 4.10 | 65.48 | 17.88 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.23 | 65.97 | 18.08 |       | 35.0  |         |
|           |                                                                     | Z | 4.34 | 66.18 | 18.49 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 3.97 | 65.41 | 17.73 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.10 | 65.93 | 17.94 |       | 35.0  |         |
|           |                                                                     | Z | 4.21 | 66.14 | 18.35 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 3.94 | 65.56 | 17.86 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.08 | 66.12 | 18.08 |       | 35.0  |         |
|           |                                                                     | Z | 4.18 | 66.33 | 18.50 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 4.11 | 65.51 | 17.95 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.24 | 66.02 | 18.17 |       | 35.0  |         |
|           |                                                                     | Z | 4.36 | 66.26 | 18.58 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 4.05 | 65.51 | 17.86 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.18 | 66.01 | 18.06 |       | 35.0  |         |
|           |                                                                     | Z | 4.28 | 66.21 | 18.46 |       | 35.0  |         |
| 10311-AAC | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 2.89 | 68.95 | 16.38 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 2.68 | 67.53 | 15.48 |       | 150.0 |         |
|           |                                                                     | Z | 2.93 | 68.82 | 16.28 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 2.46 | 71.44 | 15.64 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 2.10 | 69.24 | 14.36 |       | 70.0  |         |
|           |                                                                     | Z | 4.40 | 79.86 | 19.31 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 4.55 | 81.95 | 22.63 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 4.15 | 79.89 | 21.45 |       | 30.0  |         |
|           |                                                                     | Z | 8.62 | 94.53 | 27.52 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.06 | 63.90 | 15.15 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.95 | 62.71 | 14.15 |       | 150.0 |         |
|           |                                                                     | Z | 1.06 | 63.86 | 15.19 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.31 | 66.82 | 16.18 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.25 | 66.41 | 15.98 |       | 150.0 |         |
|           |                                                                     | Z | 4.38 | 66.79 | 16.27 |       | 150.0 |         |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.31 | 66.82 | 16.18 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.25 | 66.41 | 15.98 |       | 150.0 |         |
|           |                                                                     | Z | 4.38 | 66.79 | 16.27 |       | 150.0 |         |
| 10400-AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.38 | 67.13 | 16.22 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.31 | 66.67 | 15.97 |       | 150.0 |         |
|           |                                                                     | Z | 4.45 | 67.05 | 16.24 |       | 150.0 |         |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.04 | 66.84 | 16.21 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.99 | 66.50 | 16.05 |       | 150.0 |         |
|           |                                                                     | Z | 5.11 | 66.83 | 16.25 |       | 150.0 |         |

|           |                                                                                 |   |        |        |       |      |       |         |
|-----------|---------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                             | X | 5.41   | 67.47  | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.35   | 67.10  | 16.26 |      | 150.0 |         |
|           |                                                                                 | Z | 5.46   | 67.41  | 16.43 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                      | X | 0.88   | 64.92  | 10.38 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.63   | 61.39  | 7.73  |      | 115.0 |         |
|           |                                                                                 | Z | 0.99   | 65.63  | 11.10 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                      | X | 0.88   | 64.92  | 10.38 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.63   | 61.39  | 7.73  |      | 115.0 |         |
|           |                                                                                 | Z | 0.99   | 65.63  | 11.10 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                            | X | 100.00 | 113.75 | 25.65 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                 | Y | 10.59  | 90.72  | 20.89 |      | 100.0 |         |
|           |                                                                                 | Z | 100.00 | 116.07 | 26.93 |      | 100.0 |         |
| 10410-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | X | 6.36   | 89.11  | 21.39 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                 | Y | 5.02   | 86.35  | 20.85 |      | 80.0  |         |
|           |                                                                                 | Z | 100.00 | 128.68 | 32.35 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                       | X | 1.02   | 63.46  | 14.80 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.90   | 62.20  | 13.70 |      | 150.0 |         |
|           |                                                                                 | Z | 1.00   | 63.22  | 14.67 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                   | X | 4.29   | 66.94  | 16.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.21   | 66.45  | 15.94 |      | 150.0 |         |
|           |                                                                                 | Z | 4.34   | 66.80  | 16.19 |      | 150.0 |         |
| 10417-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                       | X | 4.29   | 66.94  | 16.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.21   | 66.45  | 15.94 |      | 150.0 |         |
|           |                                                                                 | Z | 4.34   | 66.80  | 16.19 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)   | X | 4.29   | 67.16  | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.21   | 66.65  | 16.00 |      | 150.0 |         |
|           |                                                                                 | Z | 4.34   | 67.01  | 16.25 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)  | X | 4.30   | 67.08  | 16.25 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.23   | 66.58  | 15.98 |      | 150.0 |         |
|           |                                                                                 | Z | 4.35   | 66.94  | 16.24 |      | 150.0 |         |
| 10422-AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                    | X | 4.40   | 67.05  | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.33   | 66.57  | 16.00 |      | 150.0 |         |
|           |                                                                                 | Z | 4.46   | 66.91  | 16.25 |      | 150.0 |         |
| 10423-AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                 | X | 4.52   | 67.29  | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.45   | 66.81  | 16.09 |      | 150.0 |         |
|           |                                                                                 | Z | 4.58   | 67.16  | 16.33 |      | 150.0 |         |
| 10424-AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                 | X | 4.45   | 67.23  | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.38   | 66.75  | 16.06 |      | 150.0 |         |
|           |                                                                                 | Z | 4.51   | 67.11  | 16.31 |      | 150.0 |         |
| 10425-AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                     | X | 5.06   | 67.29  | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.03   | 67.01  | 16.33 |      | 150.0 |         |
|           |                                                                                 | Z | 5.14   | 67.28  | 16.49 |      | 150.0 |         |
| 10426-AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                   | X | 5.09   | 67.41  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.06   | 67.13  | 16.39 |      | 150.0 |         |
|           |                                                                                 | Z | 5.16   | 67.37  | 16.53 |      | 150.0 |         |

|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.06   | 67.22  | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.01   | 66.87  | 16.25 |      | 150.0 |         |
|           |                                                                | Z | 5.12   | 67.16  | 16.42 |      | 150.0 |         |
| 10430-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.35   | 73.37  | 18.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.99   | 71.63  | 17.72 |      | 150.0 |         |
|           |                                                                | Z | 4.18   | 72.12  | 18.23 |      | 150.0 |         |
| 10431-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 3.89   | 67.56  | 16.04 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.79   | 66.92  | 15.67 |      | 150.0 |         |
|           |                                                                | Z | 3.95   | 67.39  | 16.07 |      | 150.0 |         |
| 10432-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.21   | 67.36  | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.13   | 66.83  | 15.94 |      | 150.0 |         |
|           |                                                                | Z | 4.28   | 67.22  | 16.24 |      | 150.0 |         |
| 10433-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.47   | 67.27  | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.40   | 66.79  | 16.08 |      | 150.0 |         |
|           |                                                                | Z | 4.53   | 67.15  | 16.33 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.47   | 74.21  | 18.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.96   | 71.92  | 17.16 |      | 150.0 |         |
|           |                                                                | Z | 4.28   | 72.95  | 18.00 |      | 150.0 |         |
| 10435-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 5.86   | 87.91  | 20.96 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 4.71   | 85.39  | 20.49 |      | 80.0  |         |
|           |                                                                | Z | 100.00 | 128.38 | 32.21 |      | 80.0  |         |
| 10447-AAB | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.10   | 67.24  | 14.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 2.96   | 66.28  | 14.11 |      | 150.0 |         |
|           |                                                                | Z | 3.19   | 67.18  | 14.90 |      | 150.0 |         |
| 10448-AAB | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 3.76   | 67.37  | 15.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.66   | 66.72  | 15.54 |      | 150.0 |         |
|           |                                                                | Z | 3.82   | 67.20  | 15.94 |      | 150.0 |         |
| 10449-AAB | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.07   | 67.20  | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.98   | 66.65  | 15.83 |      | 150.0 |         |
|           |                                                                | Z | 4.12   | 67.05  | 16.14 |      | 150.0 |         |
| 10450-AAB | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.28   | 67.06  | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.20   | 66.56  | 15.93 |      | 150.0 |         |
|           |                                                                | Z | 4.33   | 66.93  | 16.19 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 2.84   | 66.73  | 13.75 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 2.70   | 65.71  | 13.12 |      | 150.0 |         |
|           |                                                                | Z | 2.98   | 66.89  | 14.12 |      | 150.0 |         |
| 10456-AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.02   | 67.86  | 16.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.99   | 67.57  | 16.52 |      | 150.0 |         |
|           |                                                                | Z | 6.05   | 67.79  | 16.64 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.69   | 65.76  | 15.95 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.60   | 65.25  | 15.67 |      | 150.0 |         |
|           |                                                                | Z | 3.70   | 65.56  | 15.92 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 3.52   | 70.82  | 16.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.18   | 68.98  | 15.08 |      | 150.0 |         |
|           |                                                                | Z | 3.66   | 70.97  | 16.52 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 4.77   | 69.44  | 17.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.65   | 68.77  | 17.40 |      | 150.0 |         |
|           |                                                                | Z | 4.78   | 68.90  | 17.70 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 0.91   | 69.24  | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 0.70   | 65.79  | 13.87 |      | 150.0 |         |
|           |                                                                   | Z | 0.89   | 68.78  | 16.26 |      | 150.0 |         |
| 10461-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 2.44   | 78.85  | 19.29 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 3.62   | 83.78  | 21.00 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 133.99 | 34.86 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 0.64   | 60.00  | 7.01  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.69   | 60.00  | 7.59  |      | 80.0  |         |
|           |                                                                   | Z | 0.89   | 62.55  | 9.23  |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 0.66   | 60.00  | 6.28  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.70   | 60.00  | 6.91  |      | 80.0  |         |
|           |                                                                   | Z | 0.68   | 60.00  | 7.27  |      | 80.0  |         |
| 10464-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 1.77   | 74.23  | 16.89 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 2.37   | 77.49  | 18.13 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 130.40 | 33.02 |      | 80.0  |         |
| 10465-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.64   | 60.00  | 6.94  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.69   | 60.00  | 7.52  |      | 80.0  |         |
|           |                                                                   | Z | 0.80   | 61.54  | 8.68  |      | 80.0  |         |
| 10466-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.67   | 60.00  | 6.24  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.70   | 60.00  | 6.87  |      | 80.0  |         |
|           |                                                                   | Z | 0.69   | 60.00  | 7.21  |      | 80.0  |         |
| 10467-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 1.90   | 75.24  | 17.32 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 2.61   | 78.85  | 18.66 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 130.88 | 33.23 |      | 80.0  |         |
| 10468-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.64   | 60.00  | 6.97  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.69   | 60.00  | 7.54  |      | 80.0  |         |
|           |                                                                   | Z | 0.82   | 61.86  | 8.86  |      | 80.0  |         |
| 10469-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.66   | 60.00  | 6.24  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.70   | 60.00  | 6.87  |      | 80.0  |         |
|           |                                                                   | Z | 0.68   | 60.00  | 7.21  |      | 80.0  |         |
| 10470-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 1.90   | 75.27  | 17.32 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 2.61   | 78.91  | 18.67 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 130.92 | 33.24 |      | 80.0  |         |
| 10471-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.64   | 60.00  | 6.95  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.69   | 60.00  | 7.53  |      | 80.0  |         |
|           |                                                                   | Z | 0.82   | 61.79  | 8.81  |      | 80.0  |         |
| 10472-AAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.66   | 60.00  | 6.22  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.70   | 60.00  | 6.85  |      | 80.0  |         |
|           |                                                                   | Z | 0.68   | 60.00  | 7.19  |      | 80.0  |         |
| 10473-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 1.89   | 75.21  | 17.29 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 2.60   | 78.82  | 18.63 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 130.88 | 33.22 |      | 80.0  |         |
| 10474-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.64   | 60.00  | 6.95  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.69   | 60.00  | 7.53  |      | 80.0  |         |
|           |                                                                   | Z | 0.81   | 61.76  | 8.79  |      | 80.0  |         |
| 10475-AAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.66   | 60.00  | 6.23  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.70   | 60.00  | 6.86  |      | 80.0  |         |
|           |                                                                   | Z | 0.68   | 60.00  | 7.20  |      | 80.0  |         |

|           |                                                                     |   |       |        |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10477-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 0.64  | 60.00  | 6.92  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 0.69  | 60.00  | 7.50  |      | 80.0 |         |
|           |                                                                     | Z | 0.79  | 61.50  | 8.63  |      | 80.0 |         |
| 10478-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 0.66  | 60.00  | 6.21  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 0.70  | 60.00  | 6.84  |      | 80.0 |         |
|           |                                                                     | Z | 0.68  | 60.00  | 7.18  |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.84  | 82.47  | 20.78 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.91  | 84.87  | 21.60 |      | 80.0 |         |
|           |                                                                     | Z | 16.86 | 101.10 | 27.12 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 2.19  | 68.10  | 12.91 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.33  | 68.32  | 13.25 |      | 80.0 |         |
|           |                                                                     | Z | 8.75  | 84.10  | 19.30 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.56  | 64.16  | 10.76 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.70  | 64.50  | 11.15 |      | 80.0 |         |
|           |                                                                     | Z | 4.27  | 74.88  | 15.79 |      | 80.0 |         |
| 10482-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 1.32  | 63.60  | 11.37 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.19  | 62.39  | 10.63 |      | 80.0 |         |
|           |                                                                     | Z | 2.39  | 70.86  | 15.42 |      | 80.0 |         |
| 10483-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.26  | 60.34  | 8.63  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.33  | 60.57  | 8.93  |      | 80.0 |         |
|           |                                                                     | Z | 2.10  | 65.54  | 12.06 |      | 80.0 |         |
| 10484-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.26  | 60.06  | 8.46  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.32  | 60.28  | 8.77  |      | 80.0 |         |
|           |                                                                     | Z | 1.99  | 64.63  | 11.62 |      | 80.0 |         |
| 10485-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 2.08  | 68.90  | 15.45 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.93  | 67.86  | 14.89 |      | 80.0 |         |
|           |                                                                     | Z | 3.16  | 75.00  | 18.64 |      | 80.0 |         |
| 10486-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.91  | 64.46  | 12.42 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.81  | 63.67  | 12.00 |      | 80.0 |         |
|           |                                                                     | Z | 2.66  | 68.65  | 15.04 |      | 80.0 |         |
| 10487-AAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.91  | 64.09  | 12.19 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.82  | 63.36  | 11.82 |      | 80.0 |         |
|           |                                                                     | Z | 2.61  | 68.02  | 14.72 |      | 80.0 |         |
| 10488-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 2.56  | 69.67  | 17.22 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.49  | 69.23  | 17.00 |      | 80.0 |         |
|           |                                                                     | Z | 3.17  | 72.94  | 19.06 |      | 80.0 |         |
| 10489-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 2.73  | 67.35  | 15.89 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.65  | 66.83  | 15.68 |      | 80.0 |         |
|           |                                                                     | Z | 3.13  | 69.27  | 17.22 |      | 80.0 |         |
| 10490-AAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 2.80  | 67.22  | 15.82 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.72  | 66.72  | 15.62 |      | 80.0 |         |
|           |                                                                     | Z | 3.19  | 69.04  | 17.11 |      | 80.0 |         |
| 10491-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 2.89  | 68.72  | 17.11 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.82  | 68.36  | 16.95 |      | 80.0 |         |
|           |                                                                     | Z | 3.35  | 70.94  | 18.43 |      | 80.0 |         |
| 10492-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.11  | 66.89  | 16.25 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.05  | 66.50  | 16.12 |      | 80.0 |         |
|           |                                                                     | Z | 3.42  | 68.16  | 17.19 |      | 80.0 |         |

|           |                                                                      |   |      |       |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.17 | 66.79 | 16.19 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.11 | 66.41 | 16.07 |      | 80.0 |         |
|           |                                                                      | Z | 3.47 | 68.01 | 17.12 |      | 80.0 |         |
| 10494-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.06 | 69.80 | 17.52 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.99 | 69.44 | 17.35 |      | 80.0 |         |
|           |                                                                      | Z | 3.62 | 72.42 | 18.96 |      | 80.0 |         |
| 10495-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.13 | 67.08 | 16.48 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.07 | 66.72 | 16.35 |      | 80.0 |         |
|           |                                                                      | Z | 3.43 | 68.40 | 17.40 |      | 80.0 |         |
| 10496-AAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.22 | 66.95 | 16.44 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.16 | 66.59 | 16.32 |      | 80.0 |         |
|           |                                                                      | Z | 3.51 | 68.15 | 17.31 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 0.90 | 60.00 | 7.91  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 0.90 | 60.00 | 7.75  |      | 80.0 |         |
|           |                                                                      | Z | 1.18 | 62.35 | 10.06 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.08 | 60.00 | 6.56  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.09 | 60.00 | 6.51  |      | 80.0 |         |
|           |                                                                      | Z | 1.12 | 60.00 | 7.45  |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.10 | 60.00 | 6.38  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.11 | 60.00 | 6.34  |      | 80.0 |         |
|           |                                                                      | Z | 1.14 | 60.00 | 7.27  |      | 80.0 |         |
| 10500-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 2.29 | 69.34 | 16.22 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.17 | 68.59 | 15.82 |      | 80.0 |         |
|           |                                                                      | Z | 3.12 | 73.96 | 18.75 |      | 80.0 |         |
| 10501-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.31 | 66.13 | 13.99 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.20 | 65.39 | 13.64 |      | 80.0 |         |
|           |                                                                      | Z | 2.94 | 69.39 | 16.09 |      | 80.0 |         |
| 10502-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.33 | 65.91 | 13.79 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.23 | 65.19 | 13.46 |      | 80.0 |         |
|           |                                                                      | Z | 2.96 | 69.12 | 15.88 |      | 80.0 |         |
| 10503-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 2.53 | 69.47 | 17.12 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.45 | 69.03 | 16.89 |      | 80.0 |         |
|           |                                                                      | Z | 3.13 | 72.72 | 18.95 |      | 80.0 |         |
| 10504-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.72 | 67.24 | 15.82 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.63 | 66.72 | 15.61 |      | 80.0 |         |
|           |                                                                      | Z | 3.11 | 69.15 | 17.15 |      | 80.0 |         |
| 10505-AAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.79 | 67.12 | 15.75 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.71 | 66.62 | 15.56 |      | 80.0 |         |
|           |                                                                      | Z | 3.18 | 68.94 | 17.05 |      | 80.0 |         |
| 10506-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.04 | 69.67 | 17.45 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.97 | 69.31 | 17.27 |      | 80.0 |         |
|           |                                                                      | Z | 3.59 | 72.27 | 18.88 |      | 80.0 |         |
| 10507-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.12 | 67.02 | 16.43 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.06 | 66.66 | 16.31 |      | 80.0 |         |
|           |                                                                      | Z | 3.42 | 68.34 | 17.37 |      | 80.0 |         |

|           |                                                                     |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10508-AAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.21 | 66.88 | 16.39 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.15 | 66.52 | 16.27 |      | 80.0  |         |
|           |                                                                     | Z | 3.50 | 68.08 | 17.27 |      | 80.0  |         |
| 10509-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 3.49 | 69.04 | 17.23 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.42 | 68.66 | 17.06 |      | 80.0  |         |
|           |                                                                     | Z | 3.95 | 70.90 | 18.30 |      | 80.0  |         |
| 10510-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.60 | 66.84 | 16.58 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.54 | 66.53 | 16.49 |      | 80.0  |         |
|           |                                                                     | Z | 3.87 | 67.88 | 17.32 |      | 80.0  |         |
| 10511-AAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.68 | 66.73 | 16.55 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.62 | 66.41 | 16.47 |      | 80.0  |         |
|           |                                                                     | Z | 3.94 | 67.68 | 17.25 |      | 80.0  |         |
| 10512-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 3.52 | 70.00 | 17.52 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.45 | 69.60 | 17.33 |      | 80.0  |         |
|           |                                                                     | Z | 4.10 | 72.38 | 18.79 |      | 80.0  |         |
| 10513-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.49 | 66.90 | 16.63 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.43 | 66.59 | 16.53 |      | 80.0  |         |
|           |                                                                     | Z | 3.76 | 68.04 | 17.40 |      | 80.0  |         |
| 10514-AAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.55 | 66.65 | 16.55 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.49 | 66.33 | 16.46 |      | 80.0  |         |
|           |                                                                     | Z | 3.80 | 67.66 | 17.28 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 0.98 | 63.65 | 14.87 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.86 | 62.32 | 13.70 |      | 150.0 |         |
|           |                                                                     | Z | 0.96 | 63.40 | 14.74 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 0.63 | 71.22 | 17.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.43 | 66.87 | 14.14 |      | 150.0 |         |
|           |                                                                     | Z | 0.62 | 71.22 | 17.71 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.82 | 65.51 | 15.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.69 | 63.55 | 13.81 |      | 150.0 |         |
|           |                                                                     | Z | 0.81 | 65.28 | 15.38 |      | 150.0 |         |
| 10518-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.28 | 67.06 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.20 | 66.55 | 15.93 |      | 150.0 |         |
|           |                                                                     | Z | 4.33 | 66.90 | 16.19 |      | 150.0 |         |
| 10519-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.41 | 67.20 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.34 | 66.71 | 16.02 |      | 150.0 |         |
|           |                                                                     | Z | 4.48 | 67.06 | 16.27 |      | 150.0 |         |
| 10520-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.28 | 67.13 | 16.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.20 | 66.62 | 15.92 |      | 150.0 |         |
|           |                                                                     | Z | 4.33 | 67.00 | 16.19 |      | 150.0 |         |
| 10521-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.21 | 67.08 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.13 | 66.57 | 15.89 |      | 150.0 |         |
|           |                                                                     | Z | 4.27 | 66.96 | 16.17 |      | 150.0 |         |
| 10522-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.24 | 67.15 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.17 | 66.67 | 15.97 |      | 150.0 |         |
|           |                                                                     | Z | 4.31 | 67.07 | 16.26 |      | 150.0 |         |

|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.20 | 67.28 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.12 | 66.73 | 15.93 |      | 150.0 |         |
|           |                                                            | Z | 4.25 | 67.10 | 16.20 |      | 150.0 |         |
| 10524-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.21 | 67.18 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.13 | 66.67 | 15.99 |      | 150.0 |         |
|           |                                                            | Z | 4.27 | 67.05 | 16.26 |      | 150.0 |         |
| 10525-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.26 | 66.34 | 15.92 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.18 | 65.79 | 15.63 |      | 150.0 |         |
|           |                                                            | Z | 4.31 | 66.17 | 15.89 |      | 150.0 |         |
| 10526-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.36 | 66.57 | 16.02 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.28 | 66.04 | 15.73 |      | 150.0 |         |
|           |                                                            | Z | 4.42 | 66.44 | 16.00 |      | 150.0 |         |
| 10527-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.30 | 66.55 | 15.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.22 | 66.01 | 15.67 |      | 150.0 |         |
|           |                                                            | Z | 4.36 | 66.41 | 15.94 |      | 150.0 |         |
| 10528-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.31 | 66.56 | 15.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.23 | 66.02 | 15.70 |      | 150.0 |         |
|           |                                                            | Z | 4.37 | 66.43 | 15.97 |      | 150.0 |         |
| 10529-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.31 | 66.56 | 15.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.23 | 66.02 | 15.70 |      | 150.0 |         |
|           |                                                            | Z | 4.37 | 66.43 | 15.97 |      | 150.0 |         |
| 10531-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.27 | 66.55 | 15.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.19 | 66.02 | 15.66 |      | 150.0 |         |
|           |                                                            | Z | 4.33 | 66.44 | 15.95 |      | 150.0 |         |
| 10532-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.16 | 66.43 | 15.89 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.08 | 65.87 | 15.59 |      | 150.0 |         |
|           |                                                            | Z | 4.22 | 66.31 | 15.88 |      | 150.0 |         |
| 10533-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.32 | 66.66 | 16.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.23 | 66.10 | 15.70 |      | 150.0 |         |
|           |                                                            | Z | 4.38 | 66.51 | 15.98 |      | 150.0 |         |
| 10534-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 4.88 | 66.48 | 16.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.81 | 66.06 | 15.83 |      | 150.0 |         |
|           |                                                            | Z | 4.93 | 66.40 | 16.03 |      | 150.0 |         |
| 10535-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 4.90 | 66.57 | 16.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.85 | 66.16 | 15.89 |      | 150.0 |         |
|           |                                                            | Z | 4.97 | 66.51 | 16.09 |      | 150.0 |         |
| 10536-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 4.81 | 66.59 | 16.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.74 | 66.14 | 15.85 |      | 150.0 |         |
|           |                                                            | Z | 4.86 | 66.52 | 16.07 |      | 150.0 |         |
| 10537-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 4.88 | 66.63 | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.82 | 66.21 | 15.89 |      | 150.0 |         |
|           |                                                            | Z | 4.93 | 66.53 | 16.08 |      | 150.0 |         |
| 10538-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 4.93 | 66.53 | 16.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.87 | 66.13 | 15.89 |      | 150.0 |         |
|           |                                                            | Z | 4.99 | 66.47 | 16.09 |      | 150.0 |         |
| 10540-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 4.86 | 66.49 | 16.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.80 | 66.08 | 15.88 |      | 150.0 |         |
|           |                                                            | Z | 4.92 | 66.43 | 16.09 |      | 150.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  | X | 4.86 | 66.45 | 16.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 4.79 | 66.01 | 15.83 |      | 150.0 |         |
|           |                                                    | Z | 4.91 | 66.36 | 16.03 |      | 150.0 |         |
| 10542-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)  | X | 5.00 | 66.53 | 16.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 4.94 | 66.13 | 15.90 |      | 150.0 |         |
|           |                                                    | Z | 5.06 | 66.46 | 16.10 |      | 150.0 |         |
| 10543-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)  | X | 5.08 | 66.64 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.03 | 66.27 | 16.01 |      | 150.0 |         |
|           |                                                    | Z | 5.14 | 66.55 | 16.17 |      | 150.0 |         |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)  | X | 5.24 | 66.52 | 16.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.17 | 66.12 | 15.84 |      | 150.0 |         |
|           |                                                    | Z | 5.28 | 66.47 | 16.02 |      | 150.0 |         |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)  | X | 5.39 | 66.92 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.36 | 66.62 | 16.05 |      | 150.0 |         |
|           |                                                    | Z | 5.45 | 66.90 | 16.20 |      | 150.0 |         |
| 10546-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)  | X | 5.26 | 66.62 | 16.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.20 | 66.24 | 15.86 |      | 150.0 |         |
|           |                                                    | Z | 5.31 | 66.58 | 16.05 |      | 150.0 |         |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)  | X | 5.35 | 66.79 | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.31 | 66.45 | 15.97 |      | 150.0 |         |
|           |                                                    | Z | 5.39 | 66.71 | 16.11 |      | 150.0 |         |
| 10548-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)  | X | 5.44 | 67.23 | 16.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.42 | 66.97 | 16.20 |      | 150.0 |         |
|           |                                                    | Z | 5.52 | 67.28 | 16.37 |      | 150.0 |         |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)  | X | 5.33 | 66.87 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.29 | 66.56 | 16.04 |      | 150.0 |         |
|           |                                                    | Z | 5.37 | 66.79 | 16.17 |      | 150.0 |         |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)  | X | 5.25 | 66.58 | 16.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.18 | 66.18 | 15.81 |      | 150.0 |         |
|           |                                                    | Z | 5.30 | 66.55 | 16.01 |      | 150.0 |         |
| 10552-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)  | X | 5.25 | 66.67 | 16.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.18 | 66.25 | 15.84 |      | 150.0 |         |
|           |                                                    | Z | 5.29 | 66.59 | 16.03 |      | 150.0 |         |
| 10553-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)  | X | 5.29 | 66.58 | 16.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.23 | 66.18 | 15.84 |      | 150.0 |         |
|           |                                                    | Z | 5.34 | 66.53 | 16.03 |      | 150.0 |         |
| 10554-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.66 | 66.84 | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.61 | 66.48 | 15.93 |      | 150.0 |         |
|           |                                                    | Z | 5.70 | 66.80 | 16.10 |      | 150.0 |         |
| 10555-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 5.74 | 67.01 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.69 | 66.69 | 16.02 |      | 150.0 |         |
|           |                                                    | Z | 5.79 | 67.01 | 16.19 |      | 150.0 |         |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 5.78 | 67.15 | 16.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.75 | 66.85 | 16.10 |      | 150.0 |         |
|           |                                                    | Z | 5.83 | 67.13 | 16.24 |      | 150.0 |         |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 5.74 | 67.03 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.69 | 66.66 | 16.02 |      | 150.0 |         |
|           |                                                    | Z | 5.78 | 67.00 | 16.19 |      | 150.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10558-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)              | X | 5.72 | 67.01 | 16.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.67 | 66.66 | 16.04 |      | 150.0 |         |
|           |                                                                 | Z | 5.79 | 67.04 | 16.23 |      | 150.0 |         |
| 10560-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)              | X | 5.76 | 66.98 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.71 | 66.63 | 16.06 |      | 150.0 |         |
|           |                                                                 | Z | 5.81 | 66.98 | 16.24 |      | 150.0 |         |
| 10561-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)              | X | 5.69 | 66.96 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.65 | 66.63 | 16.09 |      | 150.0 |         |
|           |                                                                 | Z | 5.75 | 66.96 | 16.26 |      | 150.0 |         |
| 10562-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)              | X | 5.73 | 67.09 | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.68 | 66.74 | 16.15 |      | 150.0 |         |
|           |                                                                 | Z | 5.79 | 67.11 | 16.34 |      | 150.0 |         |
| 10563-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)              | X | 5.83 | 67.09 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.81 | 66.82 | 16.15 |      | 150.0 |         |
|           |                                                                 | Z | 5.90 | 67.12 | 16.31 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.59 | 67.02 | 16.31 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.52 | 66.58 | 16.08 |      | 150.0 |         |
|           |                                                                 | Z | 4.65 | 66.92 | 16.33 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 4.77 | 67.43 | 16.63 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.71 | 67.00 | 16.41 |      | 150.0 |         |
|           |                                                                 | Z | 4.84 | 67.33 | 16.64 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 4.61 | 67.23 | 16.42 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.55 | 66.79 | 16.20 |      | 150.0 |         |
|           |                                                                 | Z | 4.68 | 67.14 | 16.45 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 4.65 | 67.65 | 16.82 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.58 | 67.20 | 16.59 |      | 150.0 |         |
|           |                                                                 | Z | 4.71 | 67.54 | 16.82 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.48 | 66.84 | 16.09 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.43 | 66.46 | 15.89 |      | 150.0 |         |
|           |                                                                 | Z | 4.57 | 66.86 | 16.18 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 4.65 | 67.94 | 16.99 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.58 | 67.47 | 16.75 |      | 150.0 |         |
|           |                                                                 | Z | 4.70 | 67.79 | 16.97 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 4.63 | 67.66 | 16.85 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.57 | 67.21 | 16.61 |      | 150.0 |         |
|           |                                                                 | Z | 4.70 | 67.55 | 16.85 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.10 | 63.97 | 15.18 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 0.99 | 62.95 | 14.33 |      | 130.0 |         |
|           |                                                                 | Z | 1.11 | 64.21 | 15.46 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.11 | 64.49 | 15.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.00 | 63.41 | 14.64 |      | 130.0 |         |
|           |                                                                 | Z | 1.12 | 64.76 | 15.82 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 1.17 | 78.55 | 21.12 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 0.86 | 73.84 | 17.85 |      | 130.0 |         |
|           |                                                                 | Z | 1.62 | 84.15 | 23.27 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.15 | 69.50 | 18.30 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 0.99 | 67.71 | 16.95 |      | 130.0 |         |
|           |                                                                 | Z | 1.19 | 70.20 | 18.75 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.35 | 66.71 | 16.26 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.30 | 66.33 | 16.09 |      | 130.0 |         |
|           |                                                                 | Z | 4.43 | 66.70 | 16.37 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.39 | 66.95 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.33 | 66.56 | 16.19 |      | 130.0 |         |
|           |                                                                 | Z | 4.46 | 66.91 | 16.46 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.53 | 67.16 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.48 | 66.78 | 16.33 |      | 130.0 |         |
|           |                                                                 | Z | 4.62 | 67.14 | 16.60 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.45 | 67.33 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.39 | 66.92 | 16.44 |      | 130.0 |         |
|           |                                                                 | Z | 4.52 | 67.28 | 16.71 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.18 | 66.40 | 15.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.14 | 66.03 | 15.63 |      | 130.0 |         |
|           |                                                                 | Z | 4.28 | 66.46 | 15.95 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.20 | 66.40 | 15.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.16 | 66.06 | 15.64 |      | 130.0 |         |
|           |                                                                 | Z | 4.31 | 66.50 | 15.97 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.37 | 67.44 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.30 | 67.01 | 16.42 |      | 130.0 |         |
|           |                                                                 | Z | 4.44 | 67.38 | 16.70 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.10 | 66.14 | 15.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.06 | 65.79 | 15.40 |      | 130.0 |         |
|           |                                                                 | Z | 4.20 | 66.22 | 15.73 |      | 130.0 |         |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.35 | 66.71 | 16.26 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.30 | 66.33 | 16.09 |      | 130.0 |         |
|           |                                                                 | Z | 4.43 | 66.70 | 16.37 |      | 130.0 |         |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.39 | 66.95 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.33 | 66.56 | 16.19 |      | 130.0 |         |
|           |                                                                 | Z | 4.46 | 66.91 | 16.46 |      | 130.0 |         |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 4.53 | 67.16 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.48 | 66.78 | 16.33 |      | 130.0 |         |
|           |                                                                 | Z | 4.62 | 67.14 | 16.60 |      | 130.0 |         |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.45 | 67.33 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.39 | 66.92 | 16.44 |      | 130.0 |         |
|           |                                                                 | Z | 4.52 | 67.28 | 16.71 |      | 130.0 |         |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.18 | 66.40 | 15.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.14 | 66.03 | 15.63 |      | 130.0 |         |
|           |                                                                 | Z | 4.28 | 66.46 | 15.95 |      | 130.0 |         |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.20 | 66.40 | 15.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.16 | 66.06 | 15.64 |      | 130.0 |         |
|           |                                                                 | Z | 4.31 | 66.50 | 15.97 |      | 130.0 |         |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.37 | 67.44 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.30 | 67.01 | 16.42 |      | 130.0 |         |
|           |                                                                 | Z | 4.44 | 67.38 | 16.70 |      | 130.0 |         |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.10 | 66.14 | 15.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.06 | 65.79 | 15.40 |      | 130.0 |         |
|           |                                                                 | Z | 4.20 | 66.22 | 15.73 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.52 | 66.84 | 16.41 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.46 | 66.46 | 16.24 |      | 130.0 |         |
|           |                                                       | Z | 4.59 | 66.79 | 16.49 |      | 130.0 |         |
| 10592-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 4.62 | 67.09 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.57 | 66.73 | 16.36 |      | 130.0 |         |
|           |                                                       | Z | 4.70 | 67.07 | 16.61 |      | 130.0 |         |
| 10593-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 4.54 | 66.96 | 16.37 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.48 | 66.59 | 16.20 |      | 130.0 |         |
|           |                                                       | Z | 4.62 | 66.95 | 16.47 |      | 130.0 |         |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 4.59 | 67.15 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.54 | 66.78 | 16.38 |      | 130.0 |         |
|           |                                                       | Z | 4.68 | 67.13 | 16.64 |      | 130.0 |         |
| 10595-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 4.55 | 67.13 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.50 | 66.75 | 16.29 |      | 130.0 |         |
|           |                                                       | Z | 4.64 | 67.11 | 16.55 |      | 130.0 |         |
| 10596-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.48 | 67.05 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.43 | 66.69 | 16.26 |      | 130.0 |         |
|           |                                                       | Z | 4.57 | 67.07 | 16.54 |      | 130.0 |         |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.43 | 66.92 | 16.28 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.38 | 66.55 | 16.10 |      | 130.0 |         |
|           |                                                       | Z | 4.52 | 66.94 | 16.39 |      | 130.0 |         |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.44 | 67.20 | 16.58 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.38 | 66.80 | 16.39 |      | 130.0 |         |
|           |                                                       | Z | 4.52 | 67.17 | 16.66 |      | 130.0 |         |
| 10599-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.20 | 67.24 | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.18 | 67.00 | 16.58 |      | 130.0 |         |
|           |                                                       | Z | 5.27 | 67.24 | 16.74 |      | 130.0 |         |
| 10600-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.26 | 67.48 | 16.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.28 | 67.39 | 16.75 |      | 130.0 |         |
|           |                                                       | Z | 5.36 | 67.57 | 16.88 |      | 130.0 |         |
| 10601-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.22 | 67.44 | 16.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.19 | 67.20 | 16.67 |      | 130.0 |         |
|           |                                                       | Z | 5.27 | 67.38 | 16.80 |      | 130.0 |         |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.25 | 67.28 | 16.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.26 | 67.13 | 16.55 |      | 130.0 |         |
|           |                                                       | Z | 5.35 | 67.37 | 16.71 |      | 130.0 |         |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.31 | 67.54 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.31 | 67.39 | 16.83 |      | 130.0 |         |
|           |                                                       | Z | 5.42 | 67.67 | 17.00 |      | 130.0 |         |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.18 | 67.09 | 16.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.17 | 66.89 | 16.55 |      | 130.0 |         |
|           |                                                       | Z | 5.30 | 67.26 | 16.77 |      | 130.0 |         |
| 10605-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.25 | 67.33 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.25 | 67.17 | 16.69 |      | 130.0 |         |
|           |                                                       | Z | 5.35 | 67.43 | 16.86 |      | 130.0 |         |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.07 | 66.89 | 16.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.06 | 66.68 | 16.29 |      | 130.0 |         |
|           |                                                       | Z | 5.15 | 66.91 | 16.45 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.37 | 66.21 | 16.07 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.31 | 65.78 | 15.88 |      | 130.0 |         |
|           |                                                   | Z | 4.44 | 66.16 | 16.15 |      | 130.0 |         |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.48 | 66.49 | 16.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.43 | 66.08 | 16.01 |      | 130.0 |         |
|           |                                                   | Z | 4.57 | 66.48 | 16.29 |      | 130.0 |         |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.38 | 66.32 | 16.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.33 | 65.90 | 15.82 |      | 130.0 |         |
|           |                                                   | Z | 4.47 | 66.31 | 16.11 |      | 130.0 |         |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.44 | 66.50 | 16.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.38 | 66.09 | 16.00 |      | 130.0 |         |
|           |                                                   | Z | 4.52 | 66.48 | 16.28 |      | 130.0 |         |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.35 | 66.27 | 16.03 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.29 | 65.86 | 15.83 |      | 130.0 |         |
|           |                                                   | Z | 4.43 | 66.28 | 16.13 |      | 130.0 |         |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.32 | 66.35 | 16.04 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.27 | 65.96 | 15.85 |      | 130.0 |         |
|           |                                                   | Z | 4.42 | 66.40 | 16.16 |      | 130.0 |         |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.32 | 66.16 | 15.88 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.27 | 65.77 | 15.69 |      | 130.0 |         |
|           |                                                   | Z | 4.42 | 66.21 | 16.00 |      | 130.0 |         |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.31 | 66.45 | 16.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.25 | 66.02 | 15.97 |      | 130.0 |         |
|           |                                                   | Z | 4.39 | 66.45 | 16.26 |      | 130.0 |         |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.33 | 66.09 | 15.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.28 | 65.68 | 15.58 |      | 130.0 |         |
|           |                                                   | Z | 4.43 | 66.11 | 15.90 |      | 130.0 |         |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.00 | 66.41 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.96 | 66.09 | 16.11 |      | 130.0 |         |
|           |                                                   | Z | 5.08 | 66.43 | 16.32 |      | 130.0 |         |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.02 | 66.47 | 16.25 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.99 | 66.20 | 16.14 |      | 130.0 |         |
|           |                                                   | Z | 5.11 | 66.54 | 16.35 |      | 130.0 |         |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 4.94 | 66.56 | 16.31 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.90 | 66.23 | 16.17 |      | 130.0 |         |
|           |                                                   | Z | 5.03 | 66.61 | 16.40 |      | 130.0 |         |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 4.98 | 66.45 | 16.18 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.95 | 66.17 | 16.07 |      | 130.0 |         |
|           |                                                   | Z | 5.05 | 66.46 | 16.26 |      | 130.0 |         |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.02 | 66.37 | 16.19 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.00 | 66.10 | 16.08 |      | 130.0 |         |
|           |                                                   | Z | 5.11 | 66.43 | 16.29 |      | 130.0 |         |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.05 | 66.54 | 16.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.01 | 66.21 | 16.27 |      | 130.0 |         |
|           |                                                   | Z | 5.12 | 66.55 | 16.47 |      | 130.0 |         |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.03 | 66.60 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.99 | 66.30 | 16.31 |      | 130.0 |         |
|           |                                                   | Z | 5.11 | 66.63 | 16.51 |      | 130.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 4.93 | 66.19 | 16.08 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 4.89 | 65.86 | 15.94 |      | 130.0 |         |
|           |                                                    | Z | 5.01 | 66.20 | 16.16 |      | 130.0 |         |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.12 | 66.43 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.08 | 66.13 | 16.15 |      | 130.0 |         |
|           |                                                    | Z | 5.20 | 66.46 | 16.35 |      | 130.0 |         |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 5.22 | 66.64 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.19 | 66.35 | 16.33 |      | 130.0 |         |
|           |                                                    | Z | 5.28 | 66.57 | 16.47 |      | 130.0 |         |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.35 | 66.41 | 16.19 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.31 | 66.11 | 16.07 |      | 130.0 |         |
|           |                                                    | Z | 5.41 | 66.44 | 16.27 |      | 130.0 |         |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 5.55 | 66.98 | 16.45 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.55 | 66.80 | 16.40 |      | 130.0 |         |
|           |                                                    | Z | 5.63 | 67.04 | 16.54 |      | 130.0 |         |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.33 | 66.36 | 16.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.29 | 66.07 | 15.96 |      | 130.0 |         |
|           |                                                    | Z | 5.40 | 66.42 | 16.16 |      | 130.0 |         |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 5.45 | 66.63 | 16.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.44 | 66.42 | 16.13 |      | 130.0 |         |
|           |                                                    | Z | 5.51 | 66.62 | 16.26 |      | 130.0 |         |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 5.58 | 67.21 | 16.50 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.62 | 67.16 | 16.51 |      | 130.0 |         |
|           |                                                    | Z | 5.72 | 67.46 | 16.68 |      | 130.0 |         |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 5.60 | 67.42 | 16.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.59 | 67.20 | 16.72 |      | 130.0 |         |
|           |                                                    | Z | 5.70 | 67.52 | 16.90 |      | 130.0 |         |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 5.58 | 67.27 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.58 | 67.08 | 16.68 |      | 130.0 |         |
|           |                                                    | Z | 5.64 | 67.24 | 16.78 |      | 130.0 |         |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 5.35 | 66.43 | 16.14 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.31 | 66.13 | 16.03 |      | 130.0 |         |
|           |                                                    | Z | 5.43 | 66.50 | 16.23 |      | 130.0 |         |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 5.39 | 66.68 | 16.32 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.35 | 66.35 | 16.19 |      | 130.0 |         |
|           |                                                    | Z | 5.46 | 66.70 | 16.38 |      | 130.0 |         |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.23 | 65.85 | 15.61 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.20 | 65.57 | 15.51 |      | 130.0 |         |
|           |                                                    | Z | 5.31 | 65.95 | 15.74 |      | 130.0 |         |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 5.79 | 66.75 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.75 | 66.48 | 16.18 |      | 130.0 |         |
|           |                                                    | Z | 5.85 | 66.79 | 16.35 |      | 130.0 |         |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 5.87 | 66.98 | 16.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.87 | 66.78 | 16.32 |      | 130.0 |         |
|           |                                                    | Z | 5.96 | 67.08 | 16.48 |      | 130.0 |         |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 5.93 | 67.13 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.90 | 66.89 | 16.35 |      | 130.0 |         |
|           |                                                    | Z | 5.99 | 67.17 | 16.50 |      | 130.0 |         |

|           |                                                        |   |        |        |       |       |       |         |
|-----------|--------------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 5.87   | 66.97  | 16.39 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.84   | 66.71  | 16.30 |       | 130.0 |         |
|           |                                                        | Z | 5.94   | 67.03  | 16.47 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 5.80   | 66.76  | 16.23 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.78   | 66.52  | 16.15 |       | 130.0 |         |
|           |                                                        | Z | 5.89   | 66.90  | 16.36 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 5.92   | 66.91  | 16.32 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.92   | 66.73  | 16.28 |       | 130.0 |         |
|           |                                                        | Z | 6.00   | 67.00  | 16.43 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 5.94   | 67.12  | 16.60 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.91   | 66.86  | 16.51 |       | 130.0 |         |
|           |                                                        | Z | 6.02   | 67.19  | 16.68 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 5.78   | 66.77  | 16.31 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.76   | 66.54  | 16.24 |       | 130.0 |         |
|           |                                                        | Z | 5.87   | 66.88  | 16.43 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 5.83   | 66.93  | 16.41 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.81   | 66.68  | 16.33 |       | 130.0 |         |
|           |                                                        | Z | 5.92   | 67.05  | 16.53 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 5.96   | 67.02  | 16.42 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.95   | 66.81  | 16.36 |       | 130.0 |         |
|           |                                                        | Z | 6.04   | 67.10  | 16.52 |       | 130.0 |         |
| 10646-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 5.44   | 86.39  | 29.87 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 5.81   | 87.60  | 30.48 |       | 60.0  |         |
|           |                                                        | Z | 8.19   | 97.49  | 34.99 |       | 60.0  |         |
| 10647-AAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 4.80   | 83.95  | 29.04 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 5.16   | 85.32  | 29.73 |       | 60.0  |         |
|           |                                                        | Z | 6.96   | 93.94  | 33.85 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.46   | 61.39  | 7.82  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.37   | 60.00  | 5.96  |       | 150.0 |         |
|           |                                                        | Z | 0.50   | 61.65  | 8.29  |       | 150.0 |         |
| 10652-AAB | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 3.12   | 66.28  | 15.70 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.02   | 65.66  | 15.43 |       | 80.0  |         |
|           |                                                        | Z | 3.33   | 67.03  | 16.40 |       | 80.0  |         |
| 10653-AAB | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 3.68   | 65.65  | 16.11 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.61   | 65.21  | 15.95 |       | 80.0  |         |
|           |                                                        | Z | 3.84   | 66.09  | 16.56 |       | 80.0  |         |
| 10654-AAB | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 3.72   | 65.26  | 16.17 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.65   | 64.85  | 16.03 |       | 80.0  |         |
|           |                                                        | Z | 3.85   | 65.65  | 16.58 |       | 80.0  |         |
| 10655-AAB | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 3.80   | 65.15  | 16.21 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.73   | 64.76  | 16.08 |       | 80.0  |         |
|           |                                                        | Z | 3.92   | 65.55  | 16.60 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 4.75   | 72.59  | 13.37 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 4.19   | 71.13  | 12.85 |       | 50.0  |         |
|           |                                                        | Z | 100.00 | 107.57 | 23.92 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 22.00  | 88.58  | 17.14 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 3.94   | 73.01  | 12.37 |       | 60.0  |         |
|           |                                                        | Z | 100.00 | 108.47 | 23.27 |       | 60.0  |         |

|           |                             |   |        |        |       |      |       |         |
|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 102.05 | 19.10 | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 1.41   | 67.41  | 8.85  |      | 80.0  |         |
|           |                             | Z | 100.00 | 113.17 | 24.00 |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 106.07 | 19.76 | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 0.27   | 60.00  | 4.29  |      | 100.0 |         |
|           |                             | Z | 100.00 | 121.09 | 26.01 |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 100.00 | 125.21 | 25.72 | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 8.44   | 216.63 | 6.72  |      | 120.0 |         |
|           |                             | Z | 100.00 | 139.04 | 31.03 |      | 120.0 |         |

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

The Swiss Accreditation Service is one of the signatories to the EA  
 Multilateral Agreement for the recognition of calibration certificates

Client **Huawei-SZ (Auden)**

Certificate No: **EX3-7381\_Sep18**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:7381**

Calibration procedure(s) **QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6**  
 Calibration procedure for dosimetric E-field probes

Calibration date: **September 28, 2018**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature  $(22 \pm 3)^{\circ}\text{C}$  and humidity  $< 70\%$ .

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP            | SN: 104778       | 04-Apr-18 (No. 217-02672/02673)   | Apr-19                 |
| Power sensor NRP-Z91       | SN: 103244       | 04-Apr-18 (No. 217-02672)         | Apr-19                 |
| Power sensor NRP-Z91       | SN: 103245       | 04-Apr-18 (No. 217-02673)         | Apr-19                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 04-Apr-18 (No. 217-02682)         | Apr-19                 |
| Reference Probe ES3DV2     | SN: 3013         | 30-Dec-17 (No. ES3-3013_Dec17)    | Dec-18                 |
| DAE4                       | SN: 660          | 21-Dec-17 (No. DAE4-660_Dec17)    | Dec-18                 |
| Secondary Standards        | ID               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-18) | In house check: Jun-20 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-18) | In house check: Jun-20 |
| Network Analyzer E8358A    | SN: US41080477   | 31-Mar-14 (in house check Oct-17) | In house check: Oct-18 |

|                                                                                                                 | Name          | Function              | Signature                  |
|-----------------------------------------------------------------------------------------------------------------|---------------|-----------------------|----------------------------|
| Calibrated by:                                                                                                  | Michael Weber | Laboratory Technician |                            |
| Approved by:                                                                                                    | Katja Pokovic | Technical Manager     |                            |
|                                                                                                                 |               |                       | Issued: September 29, 2018 |
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## Glossary:

|                          |                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| TSL                      | tissue simulating liquid                                                                                                                                |
| NORM <sub>x,y,z</sub>    | sensitivity in free space                                                                                                                               |
| ConvF                    | sensitivity in TSL / NORM <sub>x,y,z</sub>                                                                                                              |
| DCP                      | diode compression point                                                                                                                                 |
| CF                       | crest factor (1/duty_cycle) of the RF signal                                                                                                            |
| A, B, C, D               | modulation dependent linearization parameters                                                                                                           |
| Polarization $\varphi$   | $\varphi$ rotation around probe axis                                                                                                                    |
| Polarization $\vartheta$ | $\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center),<br>i.e., $\vartheta = 0$ is normal to probe axis |
| Connector Angle          | information used in DASY system to align probe sensor X to the robot coordinate system                                                                  |

## Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

## Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)<sub>x,y,z</sub>** = NORM<sub>x,y,z</sub> \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).

# Probe EX3DV4

## SN:7381

|               |                    |
|---------------|--------------------|
| Manufactured: | April 13, 2015     |
| Repaired:     | September 20, 2018 |
| Calibrated:   | September 28, 2018 |

Calibrated for DASY/EASY Systems  
(Note: non-compatible with DASY2 system!)

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7381

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.64     | 0.53     | 0.36     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 95.1     | 93.1     | 95.0     |               |

### Modulation Calibration Parameters

| UID | Communication System Name |   | A<br>dB | B<br>dB $\sqrt{\mu\text{V}}$ | C   | D<br>dB | VR<br>mV | Unc <sup>E</sup><br>(k=2) |
|-----|---------------------------|---|---------|------------------------------|-----|---------|----------|---------------------------|
| 0   | CW                        | X | 0.0     | 0.0                          | 1.0 | 0.00    | 182.9    | $\pm 3.0 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 190.3    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 176.1    |                           |

Note: For details on UID parameters see Appendix.

### Sensor Model Parameters

|   | C1<br>fF | C2<br>fF | $\alpha$<br>$\text{V}^{-1}$ | T1<br>$\text{ms}\cdot\text{V}^{-2}$ | T2<br>$\text{ms}\cdot\text{V}^{-1}$ | T3<br>ms | T4<br>$\text{V}^{-2}$ | T5<br>$\text{V}^{-1}$ | T6    |
|---|----------|----------|-----------------------------|-------------------------------------|-------------------------------------|----------|-----------------------|-----------------------|-------|
| X | 35.70    | 266.3    | 35.57                       | 9.330                               | 0.900                               | 5.00     | 0.100                 | 0.005                 | 1.020 |
| Y | 40.50    | 334.6    | 44.32                       | 5.164                               | 0.417                               | 5.10     | 0.100                 | 0.600                 | 1.014 |
| Z | 52.87    | 417.1    | 39.84                       | 7.817                               | 0.237                               | 5.10     | 0.291                 | 0.427                 | 1.011 |

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.

<sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the  $E^2$ -field uncertainty inside TSL (see Pages 5 and 6).

<sup>B</sup> Numerical linearization parameter; uncertainty not required.

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7381

### Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 41.9                               | 0.89                            | 10.66   | 10.66   | 10.66   | 0.40               | 0.92                    | ± 12.0 %  |
| 850                  | 41.5                               | 0.92                            | 10.30   | 10.30   | 10.30   | 0.34               | 0.98                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 8.79    | 8.79    | 8.79    | 0.38               | 0.84                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 8.32    | 8.32    | 8.32    | 0.34               | 0.87                    | ± 12.0 %  |
| 2000                 | 40.0                               | 1.40                            | 8.15    | 8.15    | 8.15    | 0.34               | 0.85                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 7.95    | 7.95    | 7.95    | 0.35               | 0.90                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 7.61    | 7.61    | 7.61    | 0.25               | 1.18                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 7.35    | 7.35    | 7.35    | 0.29               | 1.15                    | ± 12.0 %  |
| 5250                 | 35.9                               | 4.71                            | 5.67    | 5.67    | 5.67    | 0.40               | 1.80                    | ± 13.1 %  |
| 5600                 | 35.5                               | 5.07                            | 5.04    | 5.04    | 5.04    | 0.40               | 1.80                    | ± 13.1 %  |
| 5800                 | 35.3                               | 5.27                            | 5.23    | 5.23    | 5.23    | 0.40               | 1.80                    | ± 13.1 %  |

<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7381

### Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 55.5                               | 0.96                            | 10.74   | 10.74   | 10.74   | 0.24               | 1.24                    | ± 12.0 %  |
| 850                  | 55.2                               | 0.99                            | 10.46   | 10.46   | 10.46   | 0.25               | 1.17                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 8.61    | 8.61    | 8.61    | 0.27               | 1.03                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 8.22    | 8.22    | 8.22    | 0.31               | 0.95                    | ± 12.0 %  |
| 2300                 | 52.9                               | 1.81                            | 8.03    | 8.03    | 8.03    | 0.36               | 0.93                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 7.76    | 7.76    | 7.76    | 0.41               | 0.90                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 7.53    | 7.53    | 7.53    | 0.42               | 0.88                    | ± 12.0 %  |
| 5250                 | 48.9                               | 5.36                            | 4.75    | 4.75    | 4.75    | 0.50               | 1.90                    | ± 13.1 %  |
| 5600                 | 48.5                               | 5.77                            | 4.26    | 4.26    | 4.26    | 0.50               | 1.90                    | ± 13.1 %  |
| 5750                 | 48.3                               | 5.94                            | 4.37    | 4.37    | 4.37    | 0.50               | 1.90                    | ± 13.1 %  |

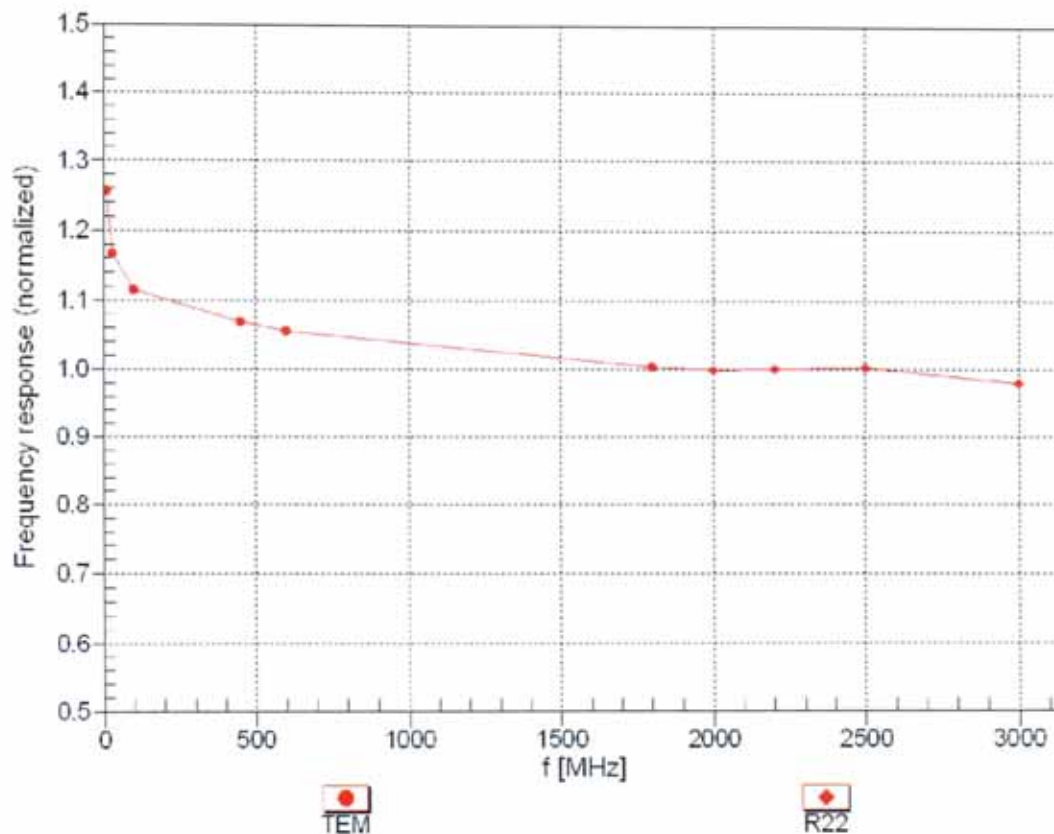
<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## Frequency Response of E-Field

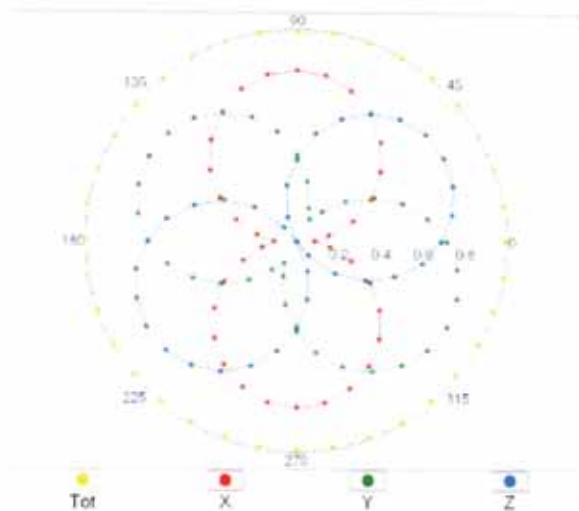
(TEM-Cell:ifi110 EXX, Waveguide: R22)



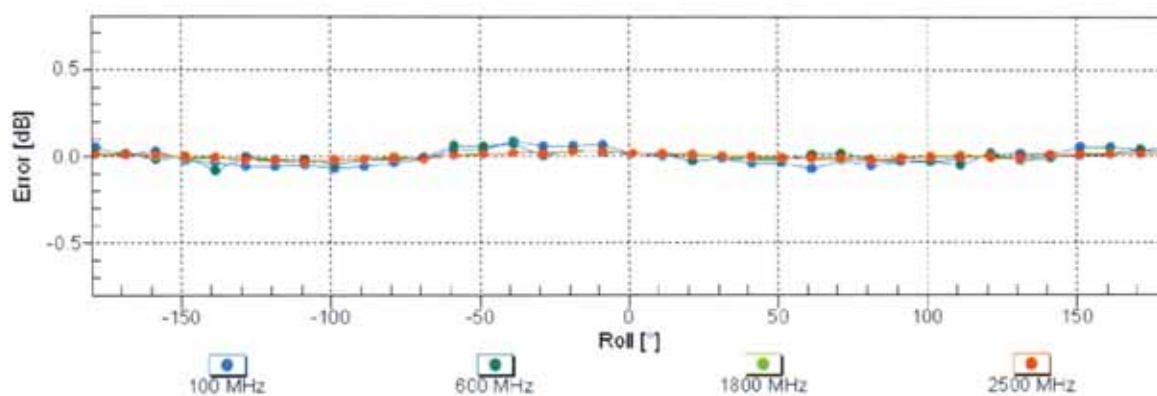
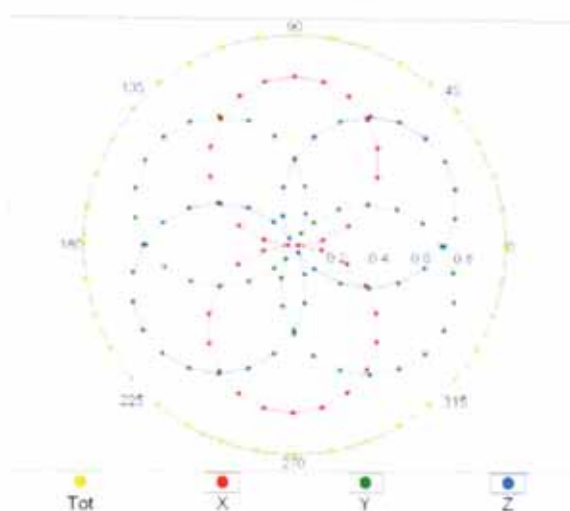
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

## Receiving Pattern ( $\phi$ ), $\theta = 0^\circ$

f=600 MHz,TEM

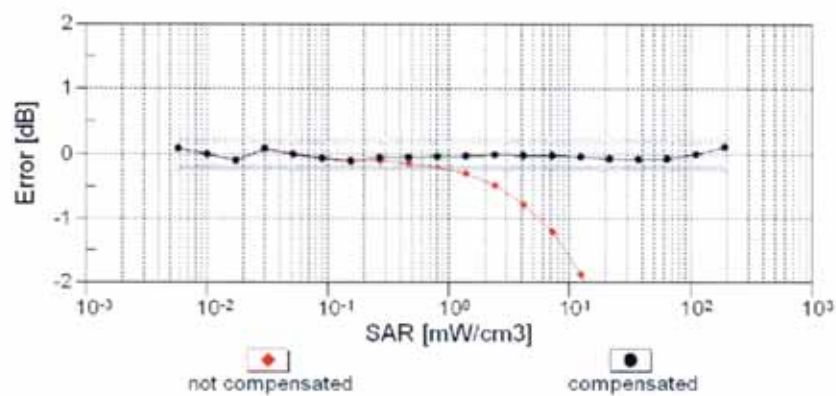
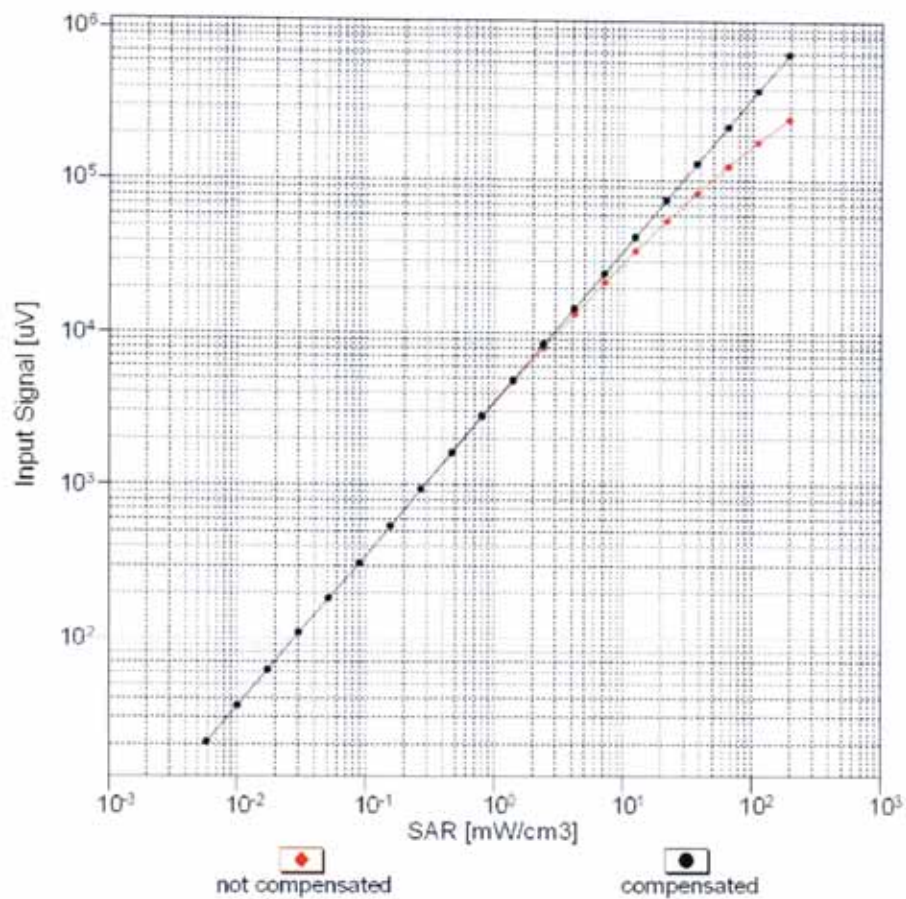


f=1800 MHz,R22



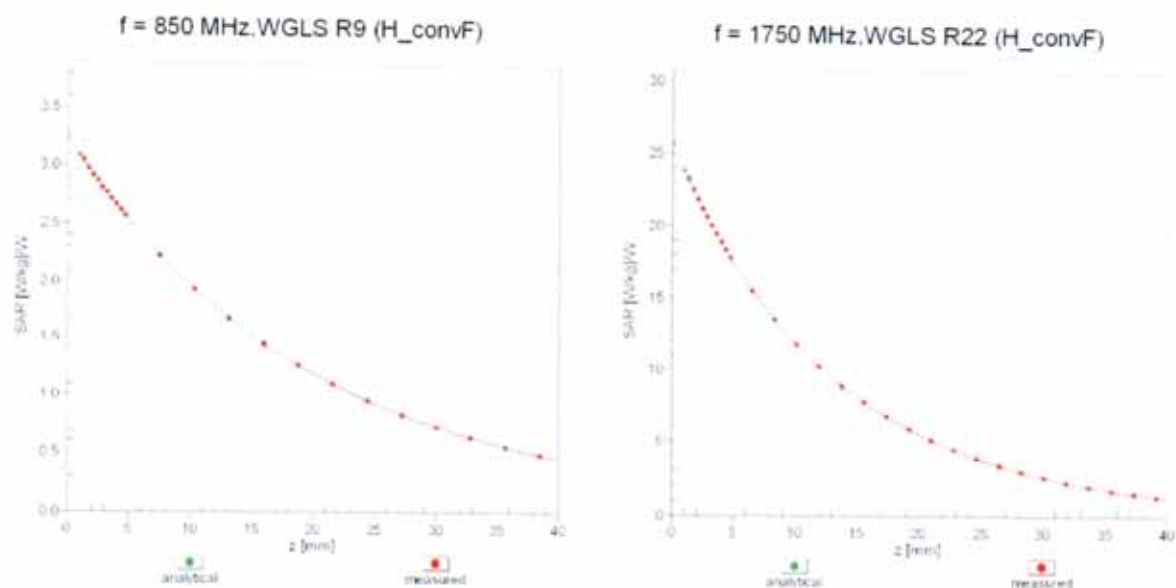
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

# Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell, $f_{\text{eval}} = 1900 \text{ MHz}$ )



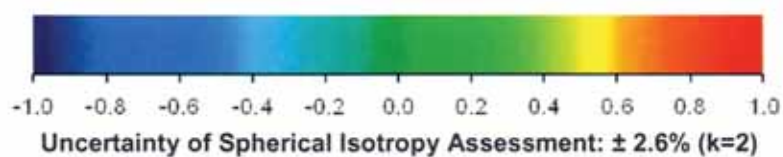
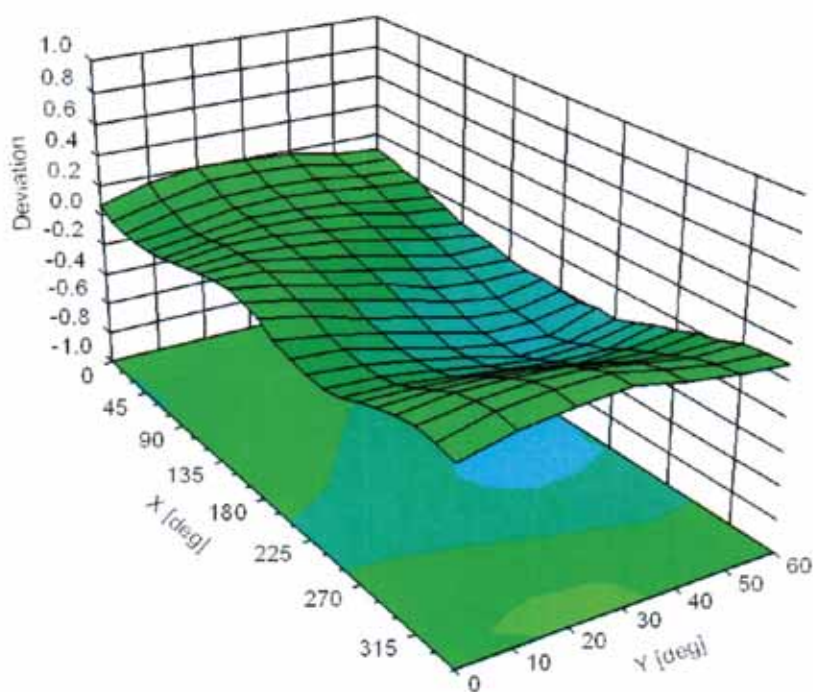
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

Error ( $\phi$ ,  $\theta$ ),  $f = 900 \text{ MHz}$



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7381

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 131.3      |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | disabled   |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 9 mm       |
| Tip Diameter                                  | 2.5 mm     |
| Probe Tip to Sensor X Calibration Point       | 1 mm       |
| Probe Tip to Sensor Y Calibration Point       | 1 mm       |
| Probe Tip to Sensor Z Calibration Point       | 1 mm       |
| Recommended Measurement Distance from Surface | 1.4 mm     |