

# Probe EX3DV4

## SN:7472

Manufactured: October 25, 2016  
Calibrated: August 29, 2018

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

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7472

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.59     | 0.49     | 0.42     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 95.3     | 94.3     | 99.8     |               |

### 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    | 133.5    | $\pm 3.0 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 133.6    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 144.4    |                           |

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 | 43.47    | 329.2    | 36.72                       | 10.64                               | 0.000                               | 5.100    | 0.525                 | 0.376                 | 1.006 |
| Y | 31.96    | 249.6    | 38.64                       | 3.696                               | 0.054                               | 5.076    | 0.000                 | 0.365                 | 1.009 |
| Z | 31.17    | 231.4    | 35.20                       | 4.593                               | 0.000                               | 5.009    | 0.488                 | 0.187                 | 1.003 |

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:7472

### 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                            | 10.53   | 10.53   | 10.53   | 0.55               | 0.82                    | ± 12.0 %  |
| 835                  | 41.5                               | 0.90                            | 10.13   | 10.13   | 10.13   | 0.39               | 0.92                    | ± 12.0 %  |
| 900                  | 41.5                               | 0.97                            | 9.93    | 9.93    | 9.93    | 0.34               | 1.01                    | ± 12.0 %  |
| 1450                 | 40.5                               | 1.20                            | 9.18    | 9.18    | 9.18    | 0.37               | 0.80                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 8.79    | 8.79    | 8.79    | 0.31               | 0.85                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 8.44    | 8.44    | 8.44    | 0.23               | 1.08                    | ± 12.0 %  |
| 2000                 | 40.0                               | 1.40                            | 8.38    | 8.38    | 8.38    | 0.31               | 0.84                    | ± 12.0 %  |
| 2100                 | 39.8                               | 1.49                            | 8.47    | 8.47    | 8.47    | 0.27               | 0.96                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 8.13    | 8.13    | 8.13    | 0.30               | 0.88                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 7.71    | 7.71    | 7.71    | 0.36               | 0.93                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 7.53    | 7.53    | 7.53    | 0.37               | 0.84                    | ± 12.0 %  |
| 3500                 | 37.9                               | 2.91                            | 7.54    | 7.54    | 7.54    | 0.29               | 1.20                    | ± 13.1 %  |
| 3700                 | 37.7                               | 3.12                            | 7.38    | 7.38    | 7.38    | 0.24               | 1.20                    | ± 13.1 %  |
| 5250                 | 35.9                               | 4.71                            | 5.62    | 5.62    | 5.62    | 0.40               | 1.80                    | ± 13.1 %  |
| 5600                 | 35.5                               | 5.07                            | 5.16    | 5.16    | 5.16    | 0.40               | 1.80                    | ± 13.1 %  |
| 5750                 | 35.4                               | 5.22                            | 5.32    | 5.32    | 5.32    | 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:7472

### Calibration Parameter Determined in Body Tissue Simulating Media

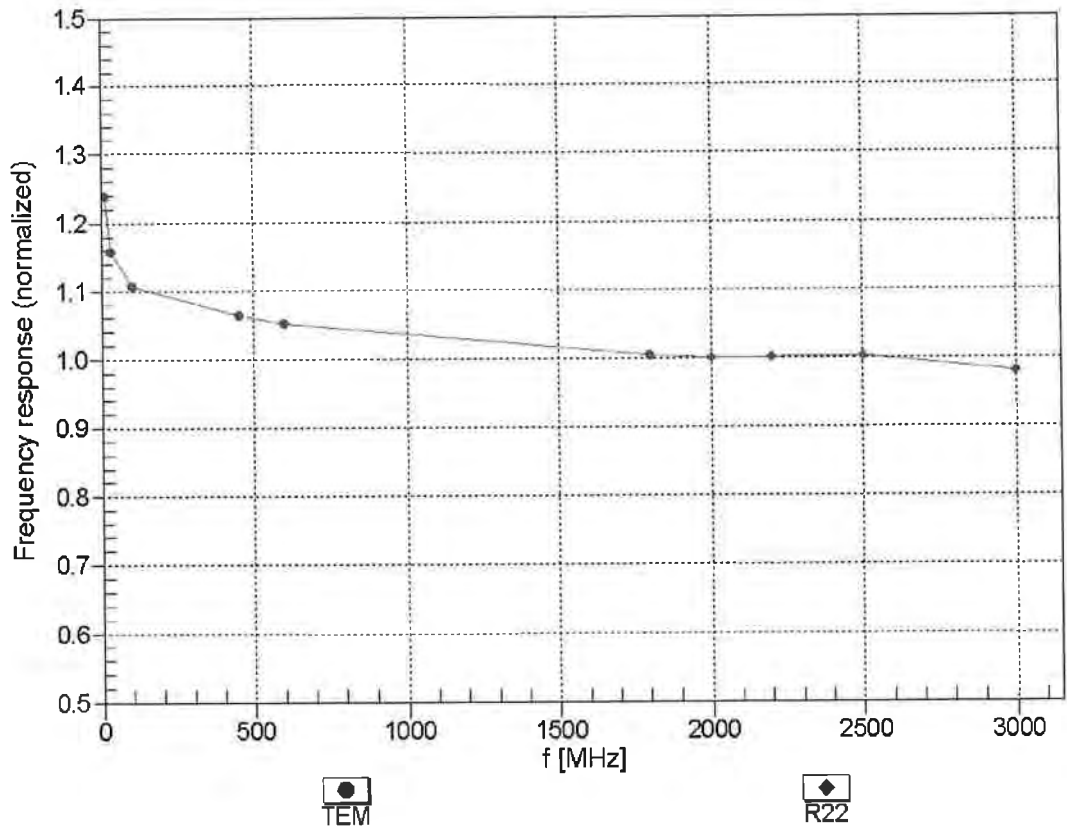
| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 55.5                               | 0.96                            | 10.66   | 10.66   | 10.66   | 0.47               | 0.85                    | ± 12.0 %  |
| 835                  | 55.2                               | 0.97                            | 10.35   | 10.35   | 10.35   | 0.34               | 0.98                    | ± 12.0 %  |
| 1640                 | 53.7                               | 1.42                            | 8.94    | 8.94    | 8.94    | 0.36               | 0.84                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 8.42    | 8.42    | 8.42    | 0.34               | 0.99                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 8.07    | 8.07    | 8.07    | 0.41               | 0.90                    | ± 12.0 %  |
| 2300                 | 52.9                               | 1.81                            | 8.11    | 8.11    | 8.11    | 0.43               | 0.88                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 7.84    | 7.84    | 7.84    | 0.37               | 1.02                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 7.70    | 7.70    | 7.70    | 0.24               | 1.05                    | ± 12.0 %  |
| 3500                 | 51.3                               | 3.31                            | 7.23    | 7.23    | 7.23    | 0.27               | 1.25                    | ± 13.1 %  |
| 5250                 | 48.9                               | 5.36                            | 4.90    | 4.90    | 4.90    | 0.50               | 1.90                    | ± 13.1 %  |
| 5600                 | 48.5                               | 5.77                            | 4.37    | 4.37    | 4.37    | 0.50               | 1.90                    | ± 13.1 %  |
| 5750                 | 48.3                               | 5.94                            | 4.56    | 4.56    | 4.56    | 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.

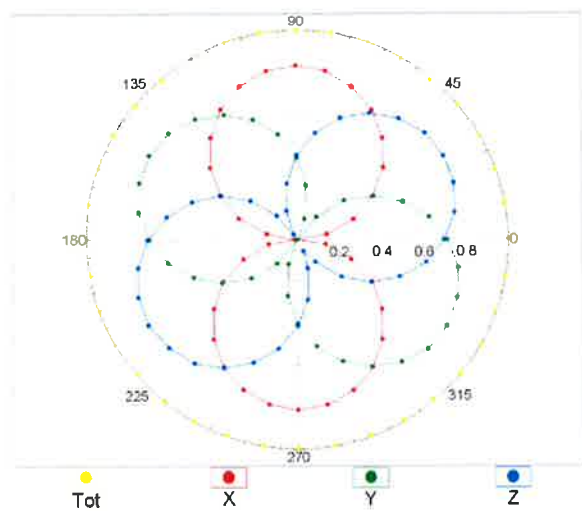
**Frequency Response of E-Field**  
(TEM-Cell:ifi110 EXX, Waveguide: R22)



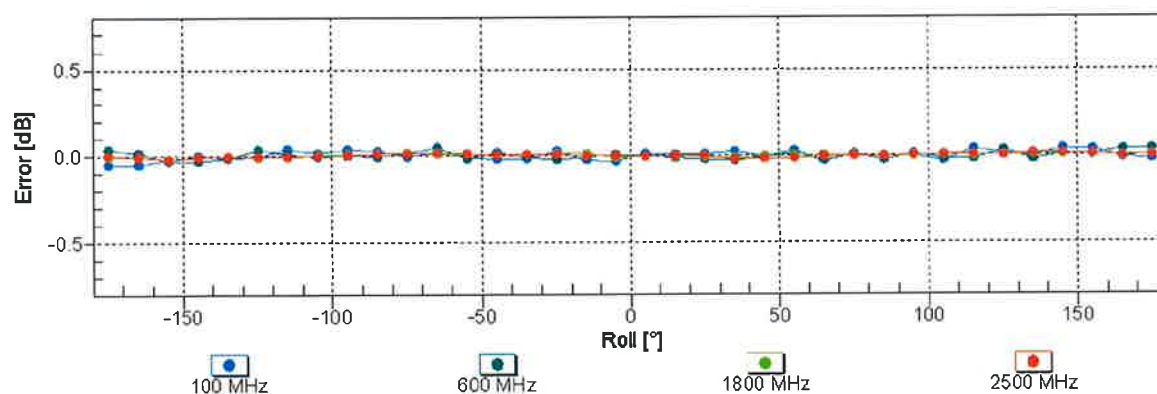
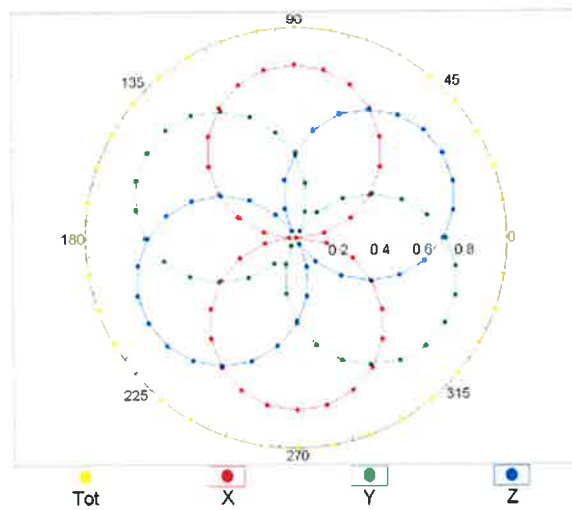
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  (k=2)

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

$f=600$  MHz, TEM



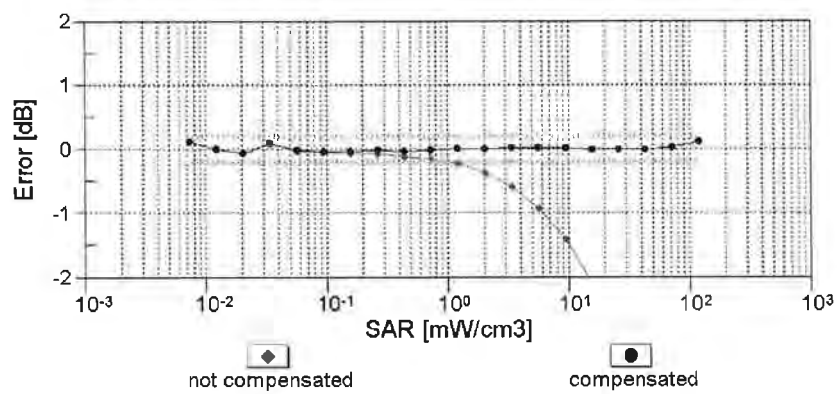
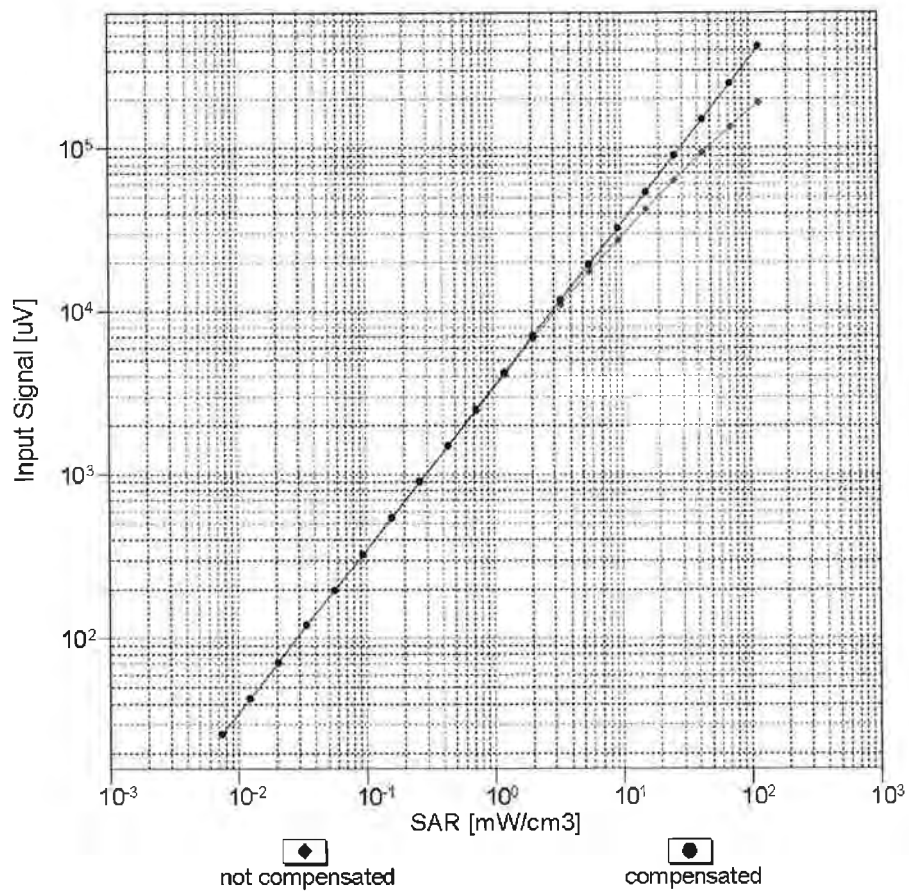
$f=1800$  MHz, R22



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

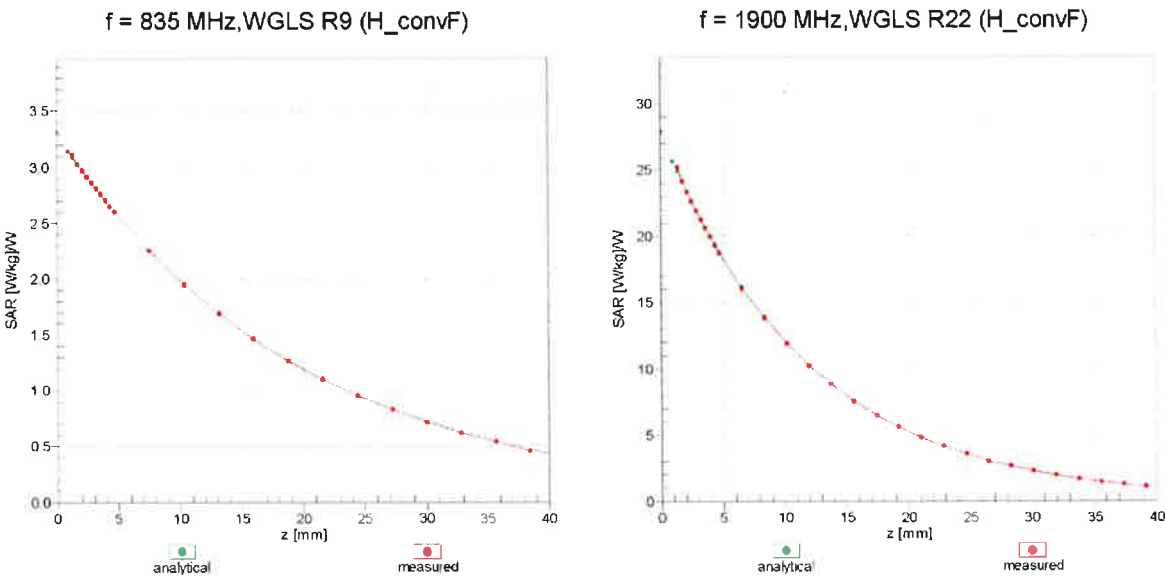
# Dynamic Range f(SAR<sub>head</sub>)

(TEM cell , f<sub>eval</sub>= 1900 MHz)

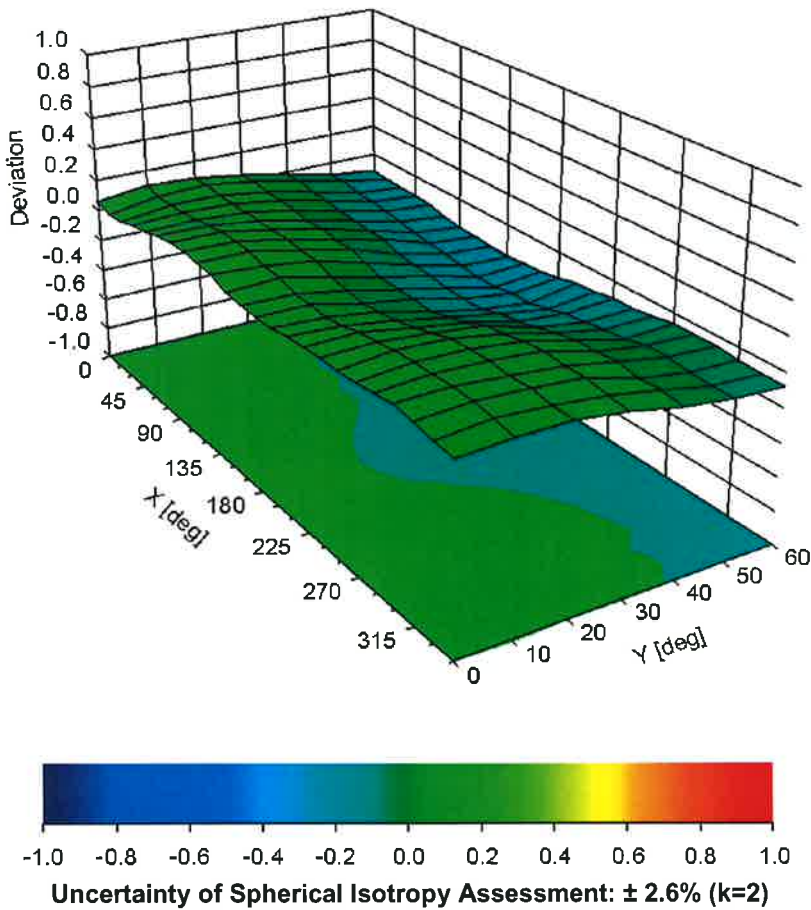


Uncertainty of Linearity Assessment:  $\pm 0.6\%$  (k=2)

# Conversion Factor Assessment



## Deviation from Isotropy in Liquid Error ( $\phi, \theta$ ), f = 900 MHz



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7472

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 85.3       |
| 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     |

**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    | 133.5    | ± 3.0 %                          |
|               |                                               | Y | 0.00    | 0.00                   | 1.00   |         | 133.6    |                                  |
|               |                                               | Z | 0.00    | 0.00                   | 1.00   |         | 144.4    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 2.34    | 67.68                  | 10.56  | 10.00   | 20.0     | ± 9.6 %                          |
|               |                                               | Y | 1.30    | 61.29                  | 6.68   |         | 20.0     |                                  |
|               |                                               | Z | 1.42    | 62.01                  | 7.24   |         | 20.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 1.41    | 74.00                  | 18.97  | 0.00    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 1.10    | 71.14                  | 16.67  |         | 150.0    |                                  |
|               |                                               | Z | 0.89    | 65.99                  | 14.09  |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.20    | 65.33                  | 16.76  | 0.41    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 1.06    | 64.38                  | 15.88  |         | 150.0    |                                  |
|               |                                               | Z | 1.08    | 63.00                  | 14.44  |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 4.86    | 67.03                  | 17.54  | 1.46    | 150.0    | ± 9.6 %                          |
|               |                                               | Y | 4.59    | 66.95                  | 17.35  |         | 150.0    |                                  |
|               |                                               | Z | 4.54    | 66.56                  | 16.75  |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 100.00  | 116.15                 | 27.56  | 9.39    | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 1001.65 | 127.98                 | 26.91  |         | 50.0     |                                  |
|               |                                               | Z | 98.99   | 103.06                 | 21.39  |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 100.00  | 115.11                 | 27.13  | 9.57    | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 104.27                 | 21.99  |         | 50.0     |                                  |
|               |                                               | Z | 11.93   | 82.45                  | 16.15  |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 122.65                 | 29.40  | 6.56    | 60.0     | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 104.83                 | 20.88  |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 102.56                 | 20.00  |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 9.40    | 103.99                 | 44.60  | 12.57   | 50.0     | ± 9.6 %                          |
|               |                                               | Y | 3.39    | 66.95                  | 25.19  |         | 50.0     |                                  |
|               |                                               | Z | 4.22    | 73.78                  | 28.57  |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 10.13   | 100.70                 | 38.02  | 9.56    | 60.0     | ± 9.6 %                          |
|               |                                               | Y | 5.03    | 82.18                  | 30.25  |         | 60.0     |                                  |
|               |                                               | Z | 4.92    | 80.43                  | 28.71  |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 132.53                 | 32.81  | 4.80    | 80.0     | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 105.43                 | 20.23  |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 104.08                 | 19.90  |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 146.99                 | 37.99  | 3.55    | 100.0    | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 102.72                 | 18.37  |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 107.31                 | 20.61  |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 5.41    | 83.48                  | 29.81  | 7.80    | 80.0     | ± 9.6 %                          |
|               |                                               | Y | 3.45    | 73.38                  | 25.11  |         | 80.0     |                                  |
|               |                                               | Z | 3.42    | 72.17                  | 23.73  |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 123.68                 | 29.38  | 5.30    | 70.0     | ± 9.6 %                          |
|               |                                               | Y | 100.00  | 101.00                 | 18.69  |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 100.07                 | 18.46  |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 174.36                 | 46.71  | 1.88    | 100.0    | ± 9.6 %                          |
|               |                                               | Y | 0.01    | 60.14                  | 979.96 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 96.43                  | 15.21  |         | 100.0    |                                  |

|           |                                                     |   |         |        |       |       |       |         |
|-----------|-----------------------------------------------------|---|---------|--------|-------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00  | 245.97 | 71.95 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 0.00    | 92.67  | 90.27 |       | 100.0 |         |
|           |                                                     | Z | 100.00  | 100.76 | 16.27 |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 100.00  | 137.41 | 38.07 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 100.00  | 126.80 | 32.25 |       | 70.0  |         |
|           |                                                     | Z | 3.77    | 78.36  | 18.23 |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 100.00  | 132.28 | 34.25 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 3.66    | 80.25  | 17.02 |       | 100.0 |         |
|           |                                                     | Z | 1.26    | 67.28  | 12.12 |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 21.39   | 109.23 | 28.33 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 1.38    | 69.89  | 12.73 |       | 100.0 |         |
|           |                                                     | Z | 1.01    | 65.66  | 11.12 |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 100.00  | 138.07 | 38.36 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 100.00  | 127.61 | 32.61 |       | 70.0  |         |
|           |                                                     | Z | 4.69    | 81.58  | 19.44 |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 100.00  | 132.40 | 34.26 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 2.52    | 76.27  | 15.68 |       | 100.0 |         |
|           |                                                     | Z | 1.16    | 66.50  | 11.76 |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 22.19   | 110.53 | 28.87 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 1.49    | 71.00  | 13.35 |       | 100.0 |         |
|           |                                                     | Z | 1.01    | 65.81  | 11.32 |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 5.50    | 87.92  | 21.32 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.77    | 63.84  | 9.15  |       | 150.0 |         |
|           |                                                     | Z | 0.90    | 65.02  | 10.44 |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 100.00  | 113.40 | 25.61 | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 100.00  | 100.13 | 19.26 |       | 50.0  |         |
|           |                                                     | Z | 4.08    | 73.45  | 12.38 |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.00    | 120.40 | 0.60  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.16    | 133.03 | 15.20 |       | 150.0 |         |
|           |                                                     | Z | 0.00    | 98.37  | 5.75  |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 100.00  | 109.59 | 26.01 | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 6.96    | 73.06  | 14.48 |       | 25.0  |         |
|           |                                                     | Z | 4.37    | 68.01  | 12.35 |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 1056.68 | 138.54 | 31.22 | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 9.18    | 78.92  | 15.41 |       | 40.0  |         |
|           |                                                     | Z | 4.47    | 71.30  | 12.55 |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 100.00  | 129.08 | 35.40 | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 100.00  | 118.96 | 30.09 |       | 50.0  |         |
|           |                                                     | Z | 18.65   | 94.06  | 23.16 |       | 50.0  |         |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 4.13    | 77.18  | 26.11 | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 2.91    | 70.18  | 22.76 |       | 100.0 |         |
|           |                                                     | Z | 2.90    | 69.11  | 21.43 |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.25    | 66.80  | 17.66 | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.07    | 65.41  | 16.55 |       | 110.0 |         |
|           |                                                     | Z | 1.07    | 63.48  | 14.73 |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 100.00  | 155.23 | 42.89 | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 100.00  | 153.16 | 41.00 |       | 110.0 |         |
|           |                                                     | Z | 1.52    | 78.78  | 20.03 |       | 110.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 5.91 | 99.09 | 30.59 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 2.44 | 84.32 | 25.12 |      | 110.0 |         |
|           |                                                | Z | 1.36 | 70.30 | 18.03 |      | 110.0 |         |
| 10062-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.67 | 67.04 | 16.94 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.39 | 66.91 | 16.73 |      | 100.0 |         |
|           |                                                | Z | 4.36 | 66.59 | 16.22 |      | 100.0 |         |
| 10063-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.68 | 67.15 | 17.05 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.40 | 67.02 | 16.84 |      | 100.0 |         |
|           |                                                | Z | 4.37 | 66.66 | 16.30 |      | 100.0 |         |
| 10064-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 4.96 | 67.38 | 17.26 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.63 | 67.20 | 17.03 |      | 100.0 |         |
|           |                                                | Z | 4.59 | 66.84 | 16.49 |      | 100.0 |         |
| 10065-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 4.82 | 67.27 | 17.39 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.50 | 67.03 | 17.12 |      | 100.0 |         |
|           |                                                | Z | 4.46 | 66.62 | 16.53 |      | 100.0 |         |
| 10066-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 4.83 | 67.28 | 17.56 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.50 | 67.02 | 17.28 |      | 100.0 |         |
|           |                                                | Z | 4.45 | 66.57 | 16.65 |      | 100.0 |         |
| 10067-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 5.12 | 67.47 | 18.02 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.78 | 67.29 | 17.77 |      | 100.0 |         |
|           |                                                | Z | 4.72 | 66.83 | 17.11 |      | 100.0 |         |
| 10068-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 5.15 | 67.45 | 18.23 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.80 | 67.17 | 17.93 |      | 100.0 |         |
|           |                                                | Z | 4.74 | 66.71 | 17.26 |      | 100.0 |         |
| 10069-CAC | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.23 | 67.45 | 18.42 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.86 | 67.19 | 18.11 |      | 100.0 |         |
|           |                                                | Z | 4.80 | 66.72 | 17.43 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 4.94 | 67.09 | 17.85 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.67 | 67.00 | 17.65 |      | 100.0 |         |
|           |                                                | Z | 4.62 | 66.59 | 17.02 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 4.91 | 67.42 | 18.09 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.61 | 67.22 | 17.85 |      | 100.0 |         |
|           |                                                | Z | 4.55 | 66.73 | 17.16 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 4.96 | 67.57 | 18.44 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.67 | 67.40 | 18.21 |      | 100.0 |         |
|           |                                                | Z | 4.60 | 66.87 | 17.47 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 4.93 | 67.42 | 18.58 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.67 | 67.34 | 18.36 |      | 100.0 |         |
|           |                                                | Z | 4.60 | 66.81 | 17.62 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 4.95 | 67.47 | 18.88 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.67 | 67.28 | 18.59 |      | 90.0  |         |
|           |                                                | Z | 4.60 | 66.76 | 17.83 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 4.96 | 67.23 | 19.00 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.71 | 67.12 | 18.75 |      | 90.0  |         |
|           |                                                | Z | 4.64 | 66.62 | 18.00 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 4.98 | 67.30 | 19.10 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 4.74 | 67.21 | 18.87 |      | 90.0  |         |
|           |                                                | Z | 4.67 | 66.72 | 18.11 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 1.52   | 75.04  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.37   | 60.29  | 6.45  |      | 150.0 |         |
|           |                                                     | Z | 0.51   | 62.07  | 8.44  |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 4.89   | 67.43  | 6.25  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 6.57   | 101.00 | 1.95  |      | 80.0  |         |
|           |                                                     | Z | 6.94   | 60.29  | 1.65  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 122.68 | 29.44 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 105.02 | 20.98 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 102.55 | 20.01 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 2.10   | 70.85  | 17.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.92   | 70.54  | 16.43 |      | 150.0 |         |
|           |                                                     | Z | 1.69   | 67.62  | 14.91 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 2.06   | 70.87  | 17.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.88   | 70.51  | 16.43 |      | 150.0 |         |
|           |                                                     | Z | 1.66   | 67.55  | 14.88 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 10.27  | 101.05 | 38.15 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 5.07   | 82.34  | 30.32 |      | 60.0  |         |
|           |                                                     | Z | 4.95   | 80.57  | 28.77 |      | 60.0  |         |
| 10100-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 3.43   | 72.46  | 18.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.00   | 71.05  | 17.31 |      | 150.0 |         |
|           |                                                     | Z | 2.79   | 69.27  | 16.23 |      | 150.0 |         |
| 10101-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.32   | 68.42  | 16.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.04   | 67.71  | 16.22 |      | 150.0 |         |
|           |                                                     | Z | 2.99   | 66.99  | 15.57 |      | 150.0 |         |
| 10102-CAE | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.42   | 68.30  | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.15   | 67.71  | 16.32 |      | 150.0 |         |
|           |                                                     | Z | 3.10   | 67.04  | 15.69 |      | 150.0 |         |
| 10103-CAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 6.63   | 78.67  | 22.44 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 4.97   | 74.91  | 20.92 |      | 65.0  |         |
|           |                                                     | Z | 4.39   | 71.81  | 18.93 |      | 65.0  |         |
| 10104-CAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 5.97   | 74.45  | 21.43 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 4.74   | 71.27  | 19.92 |      | 65.0  |         |
|           |                                                     | Z | 4.67   | 70.32  | 18.88 |      | 65.0  |         |
| 10105-CAF | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 5.78   | 73.57  | 21.33 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 4.59   | 70.26  | 19.73 |      | 65.0  |         |
|           |                                                     | Z | 4.69   | 70.17  | 19.12 |      | 65.0  |         |
| 10108-CAF | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 2.99   | 71.81  | 17.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.59   | 70.70  | 17.25 |      | 150.0 |         |
|           |                                                     | Z | 2.39   | 68.62  | 16.01 |      | 150.0 |         |
| 10109-CAF | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 2.99   | 68.50  | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.70   | 67.92  | 16.12 |      | 150.0 |         |
|           |                                                     | Z | 2.63   | 66.94  | 15.36 |      | 150.0 |         |
| 10110-CAF | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.46   | 71.37  | 17.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.08   | 70.31  | 16.76 |      | 150.0 |         |
|           |                                                     | Z | 1.89   | 67.77  | 15.34 |      | 150.0 |         |
| 10111-CAF | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.78   | 70.04  | 17.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.51   | 69.83  | 16.46 |      | 150.0 |         |
|           |                                                     | Z | 2.34   | 68.02  | 15.39 |      | 150.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAF | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 3.10 | 68.42 | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.82 | 67.99 | 16.19 |      | 150.0 |         |
|           |                                                | Z | 2.75 | 67.06 | 15.46 |      | 150.0 |         |
| 10113-CAF | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.92 | 70.07 | 17.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.65 | 69.97 | 16.58 |      | 150.0 |         |
|           |                                                | Z | 2.48 | 68.23 | 15.55 |      | 150.0 |         |
| 10114-CAC | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.13 | 67.50 | 16.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.89 | 67.27 | 16.70 |      | 150.0 |         |
|           |                                                | Z | 4.86 | 67.04 | 16.29 |      | 150.0 |         |
| 10115-CAC | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.39 | 67.53 | 16.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.13 | 67.33 | 16.73 |      | 150.0 |         |
|           |                                                | Z | 5.09 | 67.08 | 16.31 |      | 150.0 |         |
| 10116-CAC | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.22 | 67.68 | 16.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.96 | 67.42 | 16.70 |      | 150.0 |         |
|           |                                                | Z | 4.92 | 67.18 | 16.29 |      | 150.0 |         |
| 10117-CAC | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.09 | 67.34 | 16.75 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.85 | 67.11 | 16.64 |      | 150.0 |         |
|           |                                                | Z | 4.84 | 66.94 | 16.26 |      | 150.0 |         |
| 10118-CAC | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.47 | 67.75 | 16.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.22 | 67.61 | 16.87 |      | 150.0 |         |
|           |                                                | Z | 5.15 | 67.25 | 16.40 |      | 150.0 |         |
| 10119-CAC | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.21 | 67.65 | 16.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.97 | 67.47 | 16.73 |      | 150.0 |         |
|           |                                                | Z | 4.93 | 67.21 | 16.32 |      | 150.0 |         |
| 10140-CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.45 | 68.32 | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.16 | 67.74 | 16.22 |      | 150.0 |         |
|           |                                                | Z | 3.11 | 67.06 | 15.60 |      | 150.0 |         |
| 10141-CAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.57 | 68.38 | 16.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.29 | 67.93 | 16.43 |      | 150.0 |         |
|           |                                                | Z | 3.24 | 67.27 | 15.81 |      | 150.0 |         |
| 10142-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 2.31 | 72.19 | 17.70 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.84 | 70.24 | 15.75 |      | 150.0 |         |
|           |                                                | Z | 1.61 | 67.36 | 14.34 |      | 150.0 |         |
| 10143-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.78 | 71.70 | 17.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.23 | 69.60 | 14.92 |      | 150.0 |         |
|           |                                                | Z | 2.04 | 67.76 | 14.06 |      | 150.0 |         |
| 10144-CAE | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 2.37 | 68.34 | 15.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.76 | 65.46 | 12.30 |      | 150.0 |         |
|           |                                                | Z | 1.75 | 64.90 | 12.06 |      | 150.0 |         |
| 10145-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 1.34 | 67.20 | 12.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 0.58 | 60.00 | 6.00  |      | 150.0 |         |
|           |                                                | Z | 0.63 | 60.09 | 6.61  |      | 150.0 |         |
| 10146-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 1.80 | 66.04 | 11.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 0.81 | 60.00 | 5.80  |      | 150.0 |         |
|           |                                                | Z | 0.74 | 59.14 | 5.14  |      | 150.0 |         |
| 10147-CAF | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 2.23 | 68.53 | 12.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 0.82 | 60.00 | 5.86  |      | 150.0 |         |
|           |                                                | Z | 0.82 | 60.00 | 5.75  |      | 150.0 |         |

|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 3.00 | 68.56 | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.71 | 68.01 | 16.18 |      | 150.0 |         |
|           |                                            | Z | 2.64 | 67.00 | 15.41 |      | 150.0 |         |
| 10150-CAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 3.11 | 68.48 | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.83 | 68.06 | 16.25 |      | 150.0 |         |
|           |                                            | Z | 2.76 | 67.12 | 15.51 |      | 150.0 |         |
| 10151-CAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 7.28 | 82.43 | 24.09 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 5.26 | 78.32 | 22.39 |      | 65.0  |         |
|           |                                            | Z | 4.57 | 74.50 | 20.07 |      | 65.0  |         |
| 10152-CAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 5.58 | 74.84 | 21.32 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 4.31 | 71.47 | 19.53 |      | 65.0  |         |
|           |                                            | Z | 4.17 | 70.09 | 18.28 |      | 65.0  |         |
| 10153-CAF | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 5.93 | 75.73 | 22.07 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 4.68 | 72.73 | 20.50 |      | 65.0  |         |
|           |                                            | Z | 4.50 | 71.21 | 19.18 |      | 65.0  |         |
| 10154-CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.52 | 71.87 | 18.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.15 | 70.84 | 17.06 |      | 150.0 |         |
|           |                                            | Z | 1.92 | 68.10 | 15.55 |      | 150.0 |         |
| 10155-CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.78 | 70.07 | 17.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.52 | 69.90 | 16.51 |      | 150.0 |         |
|           |                                            | Z | 2.35 | 68.07 | 15.43 |      | 150.0 |         |
| 10156-CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 2.23 | 72.99 | 17.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.59 | 69.37 | 14.67 |      | 150.0 |         |
|           |                                            | Z | 1.40 | 66.71 | 13.48 |      | 150.0 |         |
| 10157-CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 2.30 | 69.57 | 15.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.50 | 65.00 | 11.47 |      | 150.0 |         |
|           |                                            | Z | 1.51 | 64.64 | 11.43 |      | 150.0 |         |
| 10158-CAF | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 2.93 | 70.15 | 17.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.67 | 70.10 | 16.66 |      | 150.0 |         |
|           |                                            | Z | 2.49 | 68.32 | 15.61 |      | 150.0 |         |
| 10159-CAF | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 2.43 | 70.08 | 15.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 1.56 | 65.18 | 11.60 |      | 150.0 |         |
|           |                                            | Z | 1.57 | 64.86 | 11.57 |      | 150.0 |         |
| 10160-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.95 | 70.60 | 17.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.65 | 70.14 | 17.04 |      | 150.0 |         |
|           |                                            | Z | 2.45 | 68.14 | 15.84 |      | 150.0 |         |
| 10161-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 3.01 | 68.50 | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.72 | 68.08 | 16.09 |      | 150.0 |         |
|           |                                            | Z | 2.64 | 67.06 | 15.33 |      | 150.0 |         |
| 10162-CAE | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 3.12 | 68.65 | 16.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.83 | 68.35 | 16.25 |      | 150.0 |         |
|           |                                            | Z | 2.75 | 67.32 | 15.49 |      | 150.0 |         |
| 10166-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 3.54 | 70.32 | 19.84 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.07 | 69.50 | 19.71 |      | 150.0 |         |
|           |                                            | Z | 2.87 | 67.61 | 18.12 |      | 150.0 |         |
| 10167-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 4.39 | 73.70 | 20.46 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.58 | 72.39 | 20.12 |      | 150.0 |         |
|           |                                            | Z | 3.19 | 69.79 | 18.32 |      | 150.0 |         |

|           |                                            |   |       |        |       |      |       |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10168-CAF | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 4.94  | 76.27  | 21.92 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.16  | 75.85  | 22.10 |      | 150.0 |         |
|           |                                            | Z | 3.56  | 72.23  | 19.84 |      | 150.0 |         |
| 10169-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 2.88  | 69.33  | 19.49 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.45  | 67.37  | 18.76 |      | 150.0 |         |
|           |                                            | Z | 2.30  | 65.76  | 17.24 |      | 150.0 |         |
| 10170-CAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 3.98  | 75.90  | 22.12 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.10  | 72.96  | 21.24 |      | 150.0 |         |
|           |                                            | Z | 2.68  | 69.90  | 19.10 |      | 150.0 |         |
| 10171-AAE | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 3.27  | 71.70  | 19.32 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.54  | 68.67  | 18.14 |      | 150.0 |         |
|           |                                            | Z | 2.28  | 66.68  | 16.51 |      | 150.0 |         |
| 10172-CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 10.27 | 101.18 | 33.63 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 3.35  | 79.67  | 26.16 |      | 65.0  |         |
|           |                                            | Z | 2.73  | 74.07  | 22.30 |      | 65.0  |         |
| 10173-CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 43.84 | 124.70 | 37.83 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 7.48  | 94.47  | 29.63 |      | 65.0  |         |
|           |                                            | Z | 3.47  | 77.82  | 21.95 |      | 65.0  |         |
| 10174-CAF | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 30.33 | 115.31 | 34.56 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 6.12  | 89.48  | 27.22 |      | 65.0  |         |
|           |                                            | Z | 3.20  | 76.04  | 20.65 |      | 65.0  |         |
| 10175-CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 2.85  | 69.05  | 19.26 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.43  | 67.08  | 18.50 |      | 150.0 |         |
|           |                                            | Z | 2.28  | 65.54  | 17.02 |      | 150.0 |         |
| 10176-CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 3.99  | 75.93  | 22.13 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.10  | 72.98  | 21.26 |      | 150.0 |         |
|           |                                            | Z | 2.69  | 69.92  | 19.11 |      | 150.0 |         |
| 10177-CAH | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 2.87  | 69.18  | 19.34 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.44  | 67.20  | 18.58 |      | 150.0 |         |
|           |                                            | Z | 2.29  | 65.63  | 17.08 |      | 150.0 |         |
| 10178-CAF | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 3.95  | 75.74  | 22.03 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.08  | 72.83  | 21.17 |      | 150.0 |         |
|           |                                            | Z | 2.67  | 69.82  | 19.05 |      | 150.0 |         |
| 10179-CAF | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 3.61  | 73.76  | 20.62 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.79  | 70.72  | 19.57 |      | 150.0 |         |
|           |                                            | Z | 2.46  | 68.20  | 17.68 |      | 150.0 |         |
| 10180-CAF | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 3.27  | 71.65  | 19.28 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.54  | 68.64  | 18.11 |      | 150.0 |         |
|           |                                            | Z | 2.28  | 66.66  | 16.49 |      | 150.0 |         |
| 10181-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 2.86  | 69.16  | 19.34 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.44  | 67.18  | 18.57 |      | 150.0 |         |
|           |                                            | Z | 2.29  | 65.62  | 17.08 |      | 150.0 |         |
| 10182-CAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 3.95  | 75.72  | 22.02 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.08  | 72.81  | 21.16 |      | 150.0 |         |
|           |                                            | Z | 2.67  | 69.80  | 19.04 |      | 150.0 |         |
| 10183-AAD | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 3.26  | 71.62  | 19.26 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.53  | 68.62  | 18.09 |      | 150.0 |         |
|           |                                            | Z | 2.27  | 66.64  | 16.48 |      | 150.0 |         |

|           |                                               |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 2.87 | 69.21 | 19.36 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.44 | 67.22 | 18.59 |      | 150.0 |         |
|           |                                               | Z | 2.29 | 65.65 | 17.10 |      | 150.0 |         |
| 10185-CAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 3.97 | 75.79 | 22.06 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.09 | 72.88 | 21.20 |      | 150.0 |         |
|           |                                               | Z | 2.68 | 69.86 | 19.07 |      | 150.0 |         |
| 10186-AAE | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 3.28 | 71.69 | 19.30 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.55 | 68.68 | 18.13 |      | 150.0 |         |
|           |                                               | Z | 2.28 | 66.69 | 16.51 |      | 150.0 |         |
| 10187-CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 2.88 | 69.26 | 19.42 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.46 | 67.31 | 18.69 |      | 150.0 |         |
|           |                                               | Z | 2.30 | 65.72 | 17.18 |      | 150.0 |         |
| 10188-CAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 4.09 | 76.43 | 22.42 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.18 | 73.51 | 21.59 |      | 150.0 |         |
|           |                                               | Z | 2.74 | 70.31 | 19.38 |      | 150.0 |         |
| 10189-AAF | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 3.35 | 72.12 | 19.58 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 2.59 | 69.07 | 18.41 |      | 150.0 |         |
|           |                                               | Z | 2.32 | 66.98 | 16.74 |      | 150.0 |         |
| 10193-CAC | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.52 | 66.99 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.27 | 66.96 | 16.34 |      | 150.0 |         |
|           |                                               | Z | 4.26 | 66.75 | 15.96 |      | 150.0 |         |
| 10194-CAC | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.68 | 67.28 | 16.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.40 | 67.16 | 16.48 |      | 150.0 |         |
|           |                                               | Z | 4.39 | 66.94 | 16.09 |      | 150.0 |         |
| 10195-CAC | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.72 | 67.31 | 16.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.43 | 67.16 | 16.49 |      | 150.0 |         |
|           |                                               | Z | 4.42 | 66.94 | 16.10 |      | 150.0 |         |
| 10196-CAC | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.52 | 67.04 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.25 | 66.93 | 16.32 |      | 150.0 |         |
|           |                                               | Z | 4.24 | 66.72 | 15.93 |      | 150.0 |         |
| 10197-CAC | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.69 | 67.30 | 16.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.40 | 67.16 | 16.49 |      | 150.0 |         |
|           |                                               | Z | 4.40 | 66.94 | 16.09 |      | 150.0 |         |
| 10198-CAC | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.72 | 67.33 | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.42 | 67.15 | 16.49 |      | 150.0 |         |
|           |                                               | Z | 4.41 | 66.93 | 16.09 |      | 150.0 |         |
| 10219-CAC | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.47 | 67.07 | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.20 | 67.00 | 16.31 |      | 150.0 |         |
|           |                                               | Z | 4.20 | 66.76 | 15.91 |      | 150.0 |         |
| 10220-CAC | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.69 | 67.26 | 16.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.40 | 67.12 | 16.47 |      | 150.0 |         |
|           |                                               | Z | 4.39 | 66.90 | 16.08 |      | 150.0 |         |
| 10221-CAC | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.73 | 67.25 | 16.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.44 | 67.10 | 16.48 |      | 150.0 |         |
|           |                                               | Z | 4.43 | 66.89 | 16.09 |      | 150.0 |         |
| 10222-CAC | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 5.07 | 67.35 | 16.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.84 | 67.13 | 16.64 |      | 150.0 |         |
|           |                                               | Z | 4.82 | 66.94 | 16.25 |      | 150.0 |         |

|           |                                           |   |       |        |       |      |       |         |
|-----------|-------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10223-CAC | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.37  | 67.59  | 16.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.07  | 67.25  | 16.70 |      | 150.0 |         |
|           |                                           | Z | 5.05  | 67.07  | 16.32 |      | 150.0 |         |
| 10224-CAC | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.11  | 67.46  | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 4.88  | 67.27  | 16.64 |      | 150.0 |         |
|           |                                           | Z | 4.86  | 67.07  | 16.24 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.85  | 67.06  | 15.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.54  | 66.58  | 14.94 |      | 150.0 |         |
|           |                                           | Z | 2.52  | 65.90  | 14.39 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 50.73 | 127.79 | 38.72 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 8.23  | 96.51  | 30.41 |      | 65.0  |         |
|           |                                           | Z | 3.63  | 78.68  | 22.38 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 53.37 | 125.81 | 37.31 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 9.16  | 97.18  | 29.83 |      | 65.0  |         |
|           |                                           | Z | 3.60  | 77.85  | 21.36 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 11.60 | 104.22 | 34.69 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.85  | 83.17  | 27.72 |      | 65.0  |         |
|           |                                           | Z | 2.78  | 74.50  | 22.51 |      | 65.0  |         |
| 10229-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 44.18 | 124.81 | 37.86 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 7.55  | 94.61  | 29.68 |      | 65.0  |         |
|           |                                           | Z | 3.49  | 77.91  | 21.99 |      | 65.0  |         |
| 10230-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 45.67 | 122.73 | 36.45 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 8.18  | 94.94  | 29.03 |      | 65.0  |         |
|           |                                           | Z | 3.43  | 77.01  | 20.96 |      | 65.0  |         |
| 10231-CAC | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 10.92 | 102.81 | 34.17 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.70  | 82.23  | 27.26 |      | 65.0  |         |
|           |                                           | Z | 2.71  | 73.97  | 22.20 |      | 65.0  |         |
| 10232-CAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 44.14 | 124.82 | 37.86 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 7.53  | 94.57  | 29.67 |      | 65.0  |         |
|           |                                           | Z | 3.49  | 77.89  | 21.98 |      | 65.0  |         |
| 10233-CAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 45.45 | 122.67 | 36.44 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 8.13  | 94.85  | 29.01 |      | 65.0  |         |
|           |                                           | Z | 3.42  | 76.97  | 20.95 |      | 65.0  |         |
| 10234-CAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 10.46 | 101.69 | 33.68 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.60  | 81.60  | 26.88 |      | 65.0  |         |
|           |                                           | Z | 2.66  | 73.56  | 21.91 |      | 65.0  |         |
| 10235-CAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 44.43 | 124.97 | 37.91 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 7.54  | 94.62  | 29.69 |      | 65.0  |         |
|           |                                           | Z | 3.48  | 77.90  | 21.99 |      | 65.0  |         |
| 10236-CAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 47.11 | 123.27 | 36.58 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 8.29  | 95.15  | 29.09 |      | 65.0  |         |
|           |                                           | Z | 3.46  | 77.10  | 21.00 |      | 65.0  |         |
| 10237-CAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 10.97 | 102.96 | 34.22 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 3.69  | 82.24  | 27.27 |      | 65.0  |         |
|           |                                           | Z | 2.71  | 73.97  | 22.20 |      | 65.0  |         |
| 10238-CAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 44.06 | 124.81 | 37.86 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 7.51  | 94.54  | 29.66 |      | 65.0  |         |
|           |                                           | Z | 3.48  | 77.86  | 21.97 |      | 65.0  |         |

|           |                                            |   |       |        |       |      |      |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10239-CAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 45.22 | 122.61 | 36.43 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.09  | 94.78  | 28.99 |      | 65.0 |         |
|           |                                            | Z | 3.41  | 76.93  | 20.94 |      | 65.0 |         |
| 10240-CAE | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 10.93 | 102.89 | 34.20 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.69  | 82.22  | 27.26 |      | 65.0 |         |
|           |                                            | Z | 2.70  | 73.95  | 22.20 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 7.96  | 83.41  | 27.14 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.06  | 80.27  | 25.96 |      | 65.0 |         |
|           |                                            | Z | 5.23  | 76.45  | 23.46 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 7.64  | 82.53  | 26.70 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.62  | 78.66  | 25.19 |      | 65.0 |         |
|           |                                            | Z | 5.13  | 76.23  | 23.31 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 5.90  | 77.79  | 25.69 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.59  | 74.40  | 24.22 |      | 65.0 |         |
|           |                                            | Z | 4.42  | 73.16  | 22.83 |      | 65.0 |         |
| 10244-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 6.81  | 80.04  | 20.38 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.08  | 68.96  | 14.04 |      | 65.0 |         |
|           |                                            | Z | 2.39  | 65.02  | 11.41 |      | 65.0 |         |
| 10245-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 6.37  | 78.66  | 19.78 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 2.93  | 68.04  | 13.53 |      | 65.0 |         |
|           |                                            | Z | 2.37  | 64.68  | 11.18 |      | 65.0 |         |
| 10246-CAC | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 9.78  | 90.51  | 24.65 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.08  | 72.86  | 16.24 |      | 65.0 |         |
|           |                                            | Z | 2.31  | 67.91  | 13.65 |      | 65.0 |         |
| 10247-CAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 5.30  | 76.98  | 20.35 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.24  | 69.99  | 15.81 |      | 65.0 |         |
|           |                                            | Z | 2.91  | 67.60  | 14.25 |      | 65.0 |         |
| 10248-CAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 5.14  | 75.84  | 19.84 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 3.13  | 68.99  | 15.31 |      | 65.0 |         |
|           |                                            | Z | 2.89  | 67.06  | 13.97 |      | 65.0 |         |
| 10249-CAE | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 11.37 | 94.18  | 27.10 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.75  | 83.36  | 22.14 |      | 65.0 |         |
|           |                                            | Z | 3.43  | 73.61  | 17.72 |      | 65.0 |         |
| 10250-CAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 5.86  | 78.36  | 22.81 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.45  | 74.93  | 20.78 |      | 65.0 |         |
|           |                                            | Z | 4.01  | 71.92  | 18.78 |      | 65.0 |         |
| 10251-CAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 5.49  | 75.73  | 21.27 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.06  | 71.83  | 18.86 |      | 65.0 |         |
|           |                                            | Z | 3.81  | 69.88  | 17.38 |      | 65.0 |         |
| 10252-CAE | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 8.57  | 88.42  | 26.34 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.71  | 82.90  | 23.92 |      | 65.0 |         |
|           |                                            | Z | 4.26  | 75.99  | 20.41 |      | 65.0 |         |
| 10253-CAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 5.45  | 74.23  | 21.01 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.27  | 71.17  | 19.23 |      | 65.0 |         |
|           |                                            | Z | 4.13  | 69.83  | 18.01 |      | 65.0 |         |
| 10254-CAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 5.77  | 75.07  | 21.68 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 4.58  | 72.23  | 20.04 |      | 65.0 |         |
|           |                                            | Z | 4.41  | 70.75  | 18.75 |      | 65.0 |         |

|           |                                             |   |      |       |       |      |      |         |
|-----------|---------------------------------------------|---|------|-------|-------|------|------|---------|
| 10255-CAE | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 6.71 | 81.15 | 23.81 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.96 | 77.39 | 22.12 |      | 65.0 |         |
|           |                                             | Z | 4.37 | 73.85 | 19.90 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 4.66 | 73.77 | 16.60 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 1.91 | 63.05 | 9.53  |      | 65.0 |         |
|           |                                             | Z | 1.73 | 61.81 | 8.33  |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 4.29 | 72.19 | 15.81 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 1.87 | 62.57 | 9.13  |      | 65.0 |         |
|           |                                             | Z | 1.72 | 61.55 | 8.07  |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 5.77 | 80.94 | 20.16 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 1.65 | 64.10 | 10.58 |      | 65.0 |         |
|           |                                             | Z | 1.60 | 63.22 | 9.93  |      | 65.0 |         |
| 10259-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 5.56 | 77.62 | 21.29 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.79 | 72.33 | 17.85 |      | 65.0 |         |
|           |                                             | Z | 3.34 | 69.40 | 15.99 |      | 65.0 |         |
| 10260-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 5.51 | 77.02 | 21.02 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 3.78 | 71.85 | 17.60 |      | 65.0 |         |
|           |                                             | Z | 3.38 | 69.18 | 15.86 |      | 65.0 |         |
| 10261-CAC | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 8.86 | 89.53 | 26.06 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.39 | 82.13 | 22.45 |      | 65.0 |         |
|           |                                             | Z | 3.66 | 74.13 | 18.59 |      | 65.0 |         |
| 10262-CAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 5.85 | 78.31 | 22.76 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.43 | 74.82 | 20.70 |      | 65.0 |         |
|           |                                             | Z | 4.00 | 71.84 | 18.72 |      | 65.0 |         |
| 10263-CAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 5.48 | 75.69 | 21.26 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.05 | 71.81 | 18.86 |      | 65.0 |         |
|           |                                             | Z | 3.81 | 69.86 | 17.38 |      | 65.0 |         |
| 10264-CAE | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 8.45 | 88.12 | 26.21 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.62 | 82.56 | 23.76 |      | 65.0 |         |
|           |                                             | Z | 4.22 | 75.80 | 20.30 |      | 65.0 |         |
| 10265-CAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 5.58 | 74.84 | 21.33 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.31 | 71.48 | 19.54 |      | 65.0 |         |
|           |                                             | Z | 4.17 | 70.10 | 18.29 |      | 65.0 |         |
| 10266-CAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 5.92 | 75.72 | 22.06 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.67 | 72.72 | 20.49 |      | 65.0 |         |
|           |                                             | Z | 4.50 | 71.19 | 19.17 |      | 65.0 |         |
| 10267-CAE | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 7.25 | 82.36 | 24.06 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.25 | 78.25 | 22.36 |      | 65.0 |         |
|           |                                             | Z | 4.56 | 74.46 | 20.05 |      | 65.0 |         |
| 10268-CAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 6.09 | 74.15 | 21.38 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.91 | 71.34 | 20.00 |      | 65.0 |         |
|           |                                             | Z | 4.85 | 70.45 | 19.01 |      | 65.0 |         |
| 10269-CAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 6.05 | 73.61 | 21.18 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 4.94 | 70.97 | 19.84 |      | 65.0 |         |
|           |                                             | Z | 4.89 | 70.19 | 18.91 |      | 65.0 |         |
| 10270-CAE | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 6.50 | 77.53 | 22.19 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.09 | 74.56 | 20.95 |      | 65.0 |         |
|           |                                             | Z | 4.80 | 72.58 | 19.43 |      | 65.0 |         |

|           |                                                                    |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.69   | 67.85  | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.43   | 67.48  | 15.13 |      | 150.0 |         |
|           |                                                                    | Z | 2.37   | 66.48  | 14.46 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.93   | 71.87  | 17.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.61   | 70.34  | 16.31 |      | 150.0 |         |
|           |                                                                    | Z | 1.41   | 67.03  | 14.59 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 1.55   | 60.36  | 5.79  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 1.19   | 58.00  | 3.22  |      | 50.0  |         |
|           |                                                                    | Z | 1.19   | 58.34  | 3.50  |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 8.18   | 81.96  | 18.94 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 2.23   | 63.61  | 9.17  |      | 50.0  |         |
|           |                                                                    | Z | 2.17   | 63.21  | 8.83  |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 8.52   | 82.49  | 19.21 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 2.29   | 63.84  | 9.37  |      | 50.0  |         |
|           |                                                                    | Z | 2.22   | 63.40  | 9.01  |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 2.49   | 76.91  | 17.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.61   | 61.72  | 7.72  |      | 150.0 |         |
|           |                                                                    | Z | 0.74   | 62.98  | 9.09  |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 1.43   | 74.29  | 16.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.37   | 60.19  | 6.37  |      | 150.0 |         |
|           |                                                                    | Z | 0.50   | 61.95  | 8.36  |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 11.21  | 103.35 | 25.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.44   | 62.36  | 7.89  |      | 150.0 |         |
|           |                                                                    | Z | 0.62   | 64.80  | 10.23 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 100.00 | 136.90 | 34.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.36   | 72.74  | 12.86 |      | 150.0 |         |
|           |                                                                    | Z | 1.08   | 70.91  | 13.43 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 36.72  | 113.12 | 33.04 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 117.40 | 30.34 |      | 50.0  |         |
|           |                                                                    | Z | 18.29  | 92.71  | 23.63 |      | 50.0  |         |
| 10297-AAD | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 3.00   | 71.94  | 18.02 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.61   | 70.85  | 17.34 |      | 150.0 |         |
|           |                                                                    | Z | 2.40   | 68.73  | 16.08 |      | 150.0 |         |
| 10298-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 1.96   | 71.97  | 16.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.87   | 62.93  | 9.42  |      | 150.0 |         |
|           |                                                                    | Z | 0.95   | 63.23  | 9.98  |      | 150.0 |         |
| 10299-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 2.95   | 71.95  | 15.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.22   | 62.64  | 8.78  |      | 150.0 |         |
|           |                                                                    | Z | 1.11   | 61.60  | 7.96  |      | 150.0 |         |
| 10300-AAD | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 1.84   | 65.12  | 11.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 0.98   | 60.32  | 6.73  |      | 150.0 |         |
|           |                                                                    | Z | 0.95   | 60.03  | 6.39  |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 4.75   | 66.04  | 17.88 | 4.17 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.37   | 65.92  | 17.44 |      | 50.0  |         |
|           |                                                                    | Z | 4.09   | 64.54  | 16.57 |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 5.20   | 66.56  | 18.56 | 4.96 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.73   | 65.90  | 17.82 |      | 50.0  |         |
|           |                                                                    | Z | 4.58   | 65.24  | 17.35 |      | 50.0  |         |

|           |                                                                     |   |       |        |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|-------|--------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.93  | 66.16  | 18.37 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.53  | 66.02  | 17.92 |       | 50.0  |         |
|           |                                                                     | Z | 4.34  | 64.84  | 17.10 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.77  | 66.10  | 17.89 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.33  | 65.57  | 17.19 |       | 50.0  |         |
|           |                                                                     | Z | 4.19  | 64.88  | 16.70 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 4.26  | 67.64  | 19.75 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 3.85  | 66.93  | 18.26 |       | 35.0  |         |
|           |                                                                     | Z | 3.54  | 64.98  | 17.22 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 4.62  | 66.78  | 19.42 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.22  | 66.33  | 18.38 |       | 35.0  |         |
|           |                                                                     | Z | 3.98  | 64.89  | 17.51 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 4.50  | 66.86  | 19.35 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.09  | 66.28  | 18.23 |       | 35.0  |         |
|           |                                                                     | Z | 3.85  | 64.77  | 17.34 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 4.48  | 67.08  | 19.51 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.07  | 66.49  | 18.38 |       | 35.0  |         |
|           |                                                                     | Z | 3.81  | 64.90  | 17.46 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 4.67  | 66.99  | 19.57 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.23  | 66.38  | 18.47 |       | 35.0  |         |
|           |                                                                     | Z | 3.99  | 64.92  | 17.59 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 4.56  | 66.82  | 19.39 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.17  | 66.39  | 18.37 |       | 35.0  |         |
|           |                                                                     | Z | 3.93  | 64.89  | 17.48 |       | 35.0  |         |
| 10311-AAD | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 3.37  | 70.90  | 17.49 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 2.96  | 69.72  | 16.88 |       | 150.0 |         |
|           |                                                                     | Z | 2.76  | 68.01  | 15.80 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 12.92 | 95.50  | 24.61 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 2.79  | 75.33  | 17.37 |       | 70.0  |         |
|           |                                                                     | Z | 1.89  | 68.76  | 14.38 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 29.11 | 117.11 | 34.35 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 23.55 | 110.51 | 31.28 |       | 30.0  |         |
|           |                                                                     | Z | 3.32  | 77.50  | 20.87 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.12  | 65.39  | 16.76 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.99  | 64.60  | 15.94 |       | 150.0 |         |
|           |                                                                     | Z | 1.02  | 63.09  | 14.44 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.57  | 67.05  | 16.70 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.29  | 66.89  | 16.47 |       | 150.0 |         |
|           |                                                                     | Z | 4.27  | 66.58  | 16.00 |       | 150.0 |         |
| 10317-AAC | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.57  | 67.05  | 16.70 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.29  | 66.89  | 16.47 |       | 150.0 |         |
|           |                                                                     | Z | 4.27  | 66.58  | 16.00 |       | 150.0 |         |
| 10400-AAD | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.67  | 67.36  | 16.66 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.34  | 67.13  | 16.44 |       | 150.0 |         |
|           |                                                                     | Z | 4.33  | 66.89  | 16.04 |       | 150.0 |         |
| 10401-AAD | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.40  | 67.51  | 16.81 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.01  | 66.77  | 16.42 |       | 150.0 |         |
|           |                                                                     | Z | 5.00  | 66.67  | 16.08 |       | 150.0 |         |

|           |                                                                                 |   |        |        |       |      |       |         |
|-----------|---------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAD | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                             | X | 5.63   | 67.66  | 16.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.39   | 67.40  | 16.64 |      | 150.0 |         |
|           |                                                                                 | Z | 5.38   | 67.29  | 16.30 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                      | X | 2.49   | 76.91  | 17.23 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.61   | 61.72  | 7.72  |      | 115.0 |         |
|           |                                                                                 | Z | 0.74   | 62.98  | 9.09  |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                      | X | 2.49   | 76.91  | 17.23 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.61   | 61.72  | 7.72  |      | 115.0 |         |
|           |                                                                                 | Z | 0.74   | 62.98  | 9.09  |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                            | X | 100.00 | 124.66 | 31.41 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 124.13 | 30.20 |      | 100.0 |         |
|           |                                                                                 | Z | 28.32  | 101.34 | 22.91 |      | 100.0 |         |
| 10410-AAE | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | X | 100.00 | 133.35 | 35.02 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                 | Y | 100.00 | 140.53 | 37.12 |      | 80.0  |         |
|           |                                                                                 | Z | 1.93   | 74.89  | 16.58 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                       | X | 1.05   | 64.55  | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 0.94   | 63.97  | 15.39 |      | 150.0 |         |
|           |                                                                                 | Z | 0.98   | 62.74  | 14.12 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                   | X | 4.52   | 67.02  | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.25   | 66.91  | 16.41 |      | 150.0 |         |
|           |                                                                                 | Z | 4.25   | 66.69  | 16.02 |      | 150.0 |         |
| 10417-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                       | X | 4.52   | 67.02  | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.25   | 66.91  | 16.41 |      | 150.0 |         |
|           |                                                                                 | Z | 4.25   | 66.69  | 16.02 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)   | X | 4.52   | 67.23  | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.25   | 67.16  | 16.49 |      | 150.0 |         |
|           |                                                                                 | Z | 4.24   | 66.90  | 16.08 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)  | X | 4.53   | 67.16  | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.27   | 67.07  | 16.47 |      | 150.0 |         |
|           |                                                                                 | Z | 4.26   | 66.83  | 16.06 |      | 150.0 |         |
| 10422-AAB | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                    | X | 4.64   | 67.12  | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.37   | 67.02  | 16.47 |      | 150.0 |         |
|           |                                                                                 | Z | 4.36   | 66.81  | 16.08 |      | 150.0 |         |
| 10423-AAB | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                 | X | 4.80   | 67.42  | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.48   | 67.27  | 16.55 |      | 150.0 |         |
|           |                                                                                 | Z | 4.48   | 67.05  | 16.16 |      | 150.0 |         |
| 10424-AAB | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                 | X | 4.72   | 67.38  | 16.72 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 4.42   | 67.22  | 16.53 |      | 150.0 |         |
|           |                                                                                 | Z | 4.41   | 66.99  | 16.13 |      | 150.0 |         |
| 10425-AAB | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                     | X | 5.33   | 67.58  | 16.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.06   | 67.34  | 16.73 |      | 150.0 |         |
|           |                                                                                 | Z | 5.03   | 67.11  | 16.33 |      | 150.0 |         |
| 10426-AAB | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                   | X | 5.35   | 67.68  | 16.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                 | Y | 5.12   | 67.57  | 16.84 |      | 150.0 |         |
|           |                                                                                 | Z | 5.06   | 67.23  | 16.38 |      | 150.0 |         |

|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAB | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.35   | 67.58  | 16.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.05   | 67.24  | 16.67 |      | 150.0 |         |
|           |                                                                | Z | 5.03   | 67.04  | 16.28 |      | 150.0 |         |
| 10430-AAC | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.37   | 72.10  | 18.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.47   | 74.18  | 19.05 |      | 150.0 |         |
|           |                                                                | Z | 4.08   | 72.11  | 17.90 |      | 150.0 |         |
| 10431-AAC | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.20   | 67.76  | 16.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.86   | 67.64  | 16.25 |      | 150.0 |         |
|           |                                                                | Z | 3.83   | 67.21  | 15.78 |      | 150.0 |         |
| 10432-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.50   | 67.51  | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.18   | 67.39  | 16.45 |      | 150.0 |         |
|           |                                                                | Z | 4.17   | 67.08  | 16.03 |      | 150.0 |         |
| 10433-AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.74   | 67.41  | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.44   | 67.26  | 16.55 |      | 150.0 |         |
|           |                                                                | Z | 4.43   | 67.03  | 16.16 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.56   | 73.29  | 18.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.60   | 74.94  | 18.61 |      | 150.0 |         |
|           |                                                                | Z | 4.09   | 72.57  | 17.43 |      | 150.0 |         |
| 10435-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 133.09 | 34.90 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 100.00 | 140.15 | 36.94 |      | 80.0  |         |
|           |                                                                | Z | 1.87   | 74.40  | 16.34 |      | 80.0  |         |
| 10447-AAC | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.52   | 68.05  | 16.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.05   | 67.23  | 14.72 |      | 150.0 |         |
|           |                                                                | Z | 3.01   | 66.67  | 14.29 |      | 150.0 |         |
| 10448-AAC | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 4.05   | 67.56  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.73   | 67.45  | 16.13 |      | 150.0 |         |
|           |                                                                | Z | 3.70   | 67.02  | 15.66 |      | 150.0 |         |
| 10449-AAC | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.32   | 67.35  | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.03   | 67.22  | 16.36 |      | 150.0 |         |
|           |                                                                | Z | 4.02   | 66.91  | 15.93 |      | 150.0 |         |
| 10450-AAC | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.51   | 67.20  | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.25   | 67.04  | 16.41 |      | 150.0 |         |
|           |                                                                | Z | 4.24   | 66.81  | 16.01 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.41   | 68.26  | 15.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 2.78   | 66.55  | 13.62 |      | 150.0 |         |
|           |                                                                | Z | 2.74   | 66.10  | 13.32 |      | 150.0 |         |
| 10456-AAB | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.23   | 68.13  | 16.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.06   | 67.94  | 16.93 |      | 150.0 |         |
|           |                                                                | Z | 5.99   | 67.72  | 16.54 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.80   | 65.66  | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.64   | 65.71  | 16.17 |      | 150.0 |         |
|           |                                                                | Z | 3.65   | 65.53  | 15.76 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 4.19   | 72.59  | 18.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.44   | 70.63  | 15.88 |      | 150.0 |         |
|           |                                                                | Z | 3.25   | 69.44  | 15.28 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 5.05   | 68.97  | 18.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.78   | 69.64  | 17.90 |      | 150.0 |         |
|           |                                                                | Z | 4.61   | 68.72  | 17.22 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 1.38   | 77.31  | 21.02 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 1.15   | 75.32  | 18.99 |      | 150.0 |         |
|           |                                                                   | Z | 0.79   | 66.71  | 14.85 |      | 150.0 |         |
| 10461-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 141.33 | 38.66 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 148.68 | 40.83 |      | 80.0  |         |
|           |                                                                   | Z | 1.05   | 68.19  | 14.98 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 112.90 | 25.54 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 105.38 | 21.47 |      | 80.0  |         |
|           |                                                                   | Z | 0.58   | 60.00  | 6.71  |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 106.35 | 22.57 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.58   | 60.00  | 7.34  |      | 80.0  |         |
|           |                                                                   | Z | 0.29   | 55.62  | 3.67  |      | 80.0  |         |
| 10464-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 138.78 | 37.26 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 145.19 | 38.97 |      | 80.0  |         |
|           |                                                                   | Z | 0.84   | 65.53  | 13.12 |      | 80.0  |         |
| 10465-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 111.89 | 25.08 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.12   | 66.09  | 10.88 |      | 80.0  |         |
|           |                                                                   | Z | 0.58   | 60.00  | 6.63  |      | 80.0  |         |
| 10466-AAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 105.47 | 22.18 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.59   | 60.00  | 7.28  |      | 80.0  |         |
|           |                                                                   | Z | 0.62   | 60.00  | 5.90  |      | 80.0  |         |
| 10467-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 139.20 | 37.44 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 145.91 | 39.28 |      | 80.0  |         |
|           |                                                                   | Z | 0.86   | 65.95  | 13.36 |      | 80.0  |         |
| 10468-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 112.24 | 25.24 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.51   | 68.80  | 11.95 |      | 80.0  |         |
|           |                                                                   | Z | 0.58   | 60.00  | 6.66  |      | 80.0  |         |
| 10469-AAD | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 105.51 | 22.19 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.58   | 60.00  | 7.28  |      | 80.0  |         |
|           |                                                                   | Z | 0.62   | 60.00  | 5.90  |      | 80.0  |         |
| 10470-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 139.29 | 37.47 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 146.03 | 39.32 |      | 80.0  |         |
|           |                                                                   | Z | 0.86   | 65.94  | 13.35 |      | 80.0  |         |
| 10471-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 112.14 | 25.19 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.42   | 68.21  | 11.71 |      | 80.0  |         |
|           |                                                                   | Z | 0.58   | 60.00  | 6.64  |      | 80.0  |         |
| 10472-AAD | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 105.38 | 22.13 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.58   | 60.00  | 7.26  |      | 80.0  |         |
|           |                                                                   | Z | 0.62   | 60.00  | 5.88  |      | 80.0  |         |
| 10473-AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 139.25 | 37.45 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 145.99 | 39.30 |      | 80.0  |         |
|           |                                                                   | Z | 0.85   | 65.91  | 13.34 |      | 80.0  |         |
| 10474-AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 112.15 | 25.19 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 1.38   | 67.99  | 11.63 |      | 80.0  |         |
|           |                                                                   | Z | 0.58   | 60.00  | 6.64  |      | 80.0  |         |
| 10475-AAD | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 105.41 | 22.14 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 0.58   | 60.00  | 7.26  |      | 80.0  |         |
|           |                                                                   | Z | 0.62   | 60.00  | 5.88  |      | 80.0  |         |

|           |                                                                     |   |        |        |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10477-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 111.83 | 25.04 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.12   | 66.05  | 10.84 |      | 80.0 |         |
|           |                                                                     | Z | 0.58   | 60.00  | 6.61  |      | 80.0 |         |
| 10478-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 105.29 | 22.09 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 0.58   | 60.00  | 7.25  |      | 80.0 |         |
|           |                                                                     | Z | 0.62   | 60.00  | 5.86  |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 131.47 | 36.03 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 133.85 | 36.04 |      | 80.0 |         |
|           |                                                                     | Z | 2.59   | 74.04  | 17.62 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 118.25 | 29.83 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 114.82 | 27.22 |      | 80.0 |         |
|           |                                                                     | Z | 1.46   | 64.13  | 11.07 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 115.63 | 28.54 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 110.65 | 25.24 |      | 80.0 |         |
|           |                                                                     | Z | 1.18   | 61.71  | 9.46  |      | 80.0 |         |
| 10482-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 8.79   | 89.83  | 23.47 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.73   | 67.69  | 13.23 |      | 80.0 |         |
|           |                                                                     | Z | 1.10   | 61.75  | 10.28 |      | 80.0 |         |
| 10483-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 10.12  | 86.17  | 21.31 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.79   | 64.61  | 11.19 |      | 80.0 |         |
|           |                                                                     | Z | 1.19   | 60.00  | 8.30  |      | 80.0 |         |
| 10484-AAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 7.67   | 82.22  | 20.04 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.64   | 63.35  | 10.58 |      | 80.0 |         |
|           |                                                                     | Z | 1.22   | 60.00  | 8.29  |      | 80.0 |         |
| 10485-AAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 6.22   | 85.94  | 23.66 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.22   | 80.39  | 20.24 |      | 80.0 |         |
|           |                                                                     | Z | 1.70   | 66.32  | 14.15 |      | 80.0 |         |
| 10486-AAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.24   | 75.38  | 18.95 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.24   | 67.28  | 13.89 |      | 80.0 |         |
|           |                                                                     | Z | 1.69   | 63.02  | 11.59 |      | 80.0 |         |
| 10487-AAD | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.06   | 74.32  | 18.50 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.17   | 66.44  | 13.47 |      | 80.0 |         |
|           |                                                                     | Z | 1.70   | 62.76  | 11.41 |      | 80.0 |         |
| 10488-AAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 4.49   | 78.56  | 21.91 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.36   | 75.61  | 20.31 |      | 80.0 |         |
|           |                                                                     | Z | 2.26   | 67.84  | 16.31 |      | 80.0 |         |
| 10489-AAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.73   | 71.82  | 19.01 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.07   | 70.26  | 17.69 |      | 80.0 |         |
|           |                                                                     | Z | 2.50   | 66.09  | 15.22 |      | 80.0 |         |
| 10490-AAD | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.78   | 71.41  | 18.82 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.12   | 69.88  | 17.50 |      | 80.0 |         |
|           |                                                                     | Z | 2.58   | 66.02  | 15.17 |      | 80.0 |         |
| 10491-AAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 4.22   | 74.55  | 20.40 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.28   | 72.04  | 19.15 |      | 80.0 |         |
|           |                                                                     | Z | 2.64   | 67.39  | 16.42 |      | 80.0 |         |
| 10492-AAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.88   | 69.90  | 18.48 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.27   | 68.53  | 17.52 |      | 80.0 |         |
|           |                                                                     | Z | 2.92   | 65.96  | 15.74 |      | 80.0 |         |

|           |                                                                      |   |      |       |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAD | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.92 | 69.66 | 18.37 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.31 | 68.32 | 17.41 |      | 80.0 |         |
|           |                                                                      | Z | 2.98 | 65.89 | 15.70 |      | 80.0 |         |
| 10494-AAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.83 | 77.03 | 21.23 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.62 | 73.79 | 19.81 |      | 80.0 |         |
|           |                                                                      | Z | 2.77 | 68.33 | 16.78 |      | 80.0 |         |
| 10495-AAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.92 | 70.31 | 18.72 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.29 | 68.74 | 17.78 |      | 80.0 |         |
|           |                                                                      | Z | 2.94 | 66.14 | 15.96 |      | 80.0 |         |
| 10496-AAE | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.97 | 69.85 | 18.53 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.35 | 68.43 | 17.65 |      | 80.0 |         |
|           |                                                                      | Z | 3.03 | 66.06 | 15.95 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 5.80 | 81.90 | 19.36 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 0.84 | 60.00 | 7.66  |      | 80.0 |         |
|           |                                                                      | Z | 0.88 | 60.00 | 7.71  |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.60 | 62.99 | 10.51 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.04 | 60.00 | 6.28  |      | 80.0 |         |
|           |                                                                      | Z | 1.06 | 60.00 | 6.38  |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.47 | 61.85 | 9.76  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.06 | 60.00 | 6.10  |      | 80.0 |         |
|           |                                                                      | Z | 1.08 | 60.00 | 6.21  |      | 80.0 |         |
| 10500-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 5.02 | 81.67 | 22.56 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.72 | 78.19 | 20.22 |      | 80.0 |         |
|           |                                                                      | Z | 1.93 | 67.09 | 15.09 |      | 80.0 |         |
| 10501-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.99 | 73.87 | 18.94 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.79 | 69.67 | 15.87 |      | 80.0 |         |
|           |                                                                      | Z | 2.05 | 64.65 | 13.18 |      | 80.0 |         |
| 10502-AAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 4.01 | 73.50 | 18.70 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.77 | 69.14 | 15.53 |      | 80.0 |         |
|           |                                                                      | Z | 2.08 | 64.49 | 13.01 |      | 80.0 |         |
| 10503-AAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.42 | 78.28 | 21.78 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.29 | 75.28 | 20.16 |      | 80.0 |         |
|           |                                                                      | Z | 2.23 | 67.68 | 16.21 |      | 80.0 |         |
| 10504-AAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.71 | 71.71 | 18.95 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.05 | 70.10 | 17.60 |      | 80.0 |         |
|           |                                                                      | Z | 2.49 | 66.00 | 15.15 |      | 80.0 |         |
| 10505-AAD | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.76 | 71.31 | 18.76 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.09 | 69.74 | 17.41 |      | 80.0 |         |
|           |                                                                      | Z | 2.56 | 65.93 | 15.11 |      | 80.0 |         |
| 10506-AAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 4.78 | 76.84 | 21.14 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.58 | 73.59 | 19.71 |      | 80.0 |         |
|           |                                                                      | Z | 2.75 | 68.21 | 16.72 |      | 80.0 |         |
| 10507-AAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.90 | 70.25 | 18.68 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.27 | 68.67 | 17.73 |      | 80.0 |         |
|           |                                                                      | Z | 2.93 | 66.09 | 15.93 |      | 80.0 |         |

|           |                                                                     |   |      |        |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|------|--------|-------|------|-------|---------|
| 10508-AAD | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.95 | 69.78  | 18.49 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.34 | 68.34  | 17.59 |      | 80.0  |         |
|           |                                                                     | Z | 3.03 | 65.99  | 15.91 |      | 80.0  |         |
| 10509-AAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.79 | 73.94  | 19.90 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.82 | 71.41  | 18.81 |      | 80.0  |         |
|           |                                                                     | Z | 3.24 | 67.91  | 16.65 |      | 80.0  |         |
| 10510-AAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.31 | 69.40  | 18.36 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.67 | 67.84  | 17.55 |      | 80.0  |         |
|           |                                                                     | Z | 3.43 | 66.09  | 16.17 |      | 80.0  |         |
| 10511-AAD | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.34 | 69.03  | 18.22 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.74 | 67.62  | 17.47 |      | 80.0  |         |
|           |                                                                     | Z | 3.51 | 66.01  | 16.16 |      | 80.0  |         |
| 10512-AAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 5.32 | 76.60  | 20.83 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.01 | 73.10  | 19.38 |      | 80.0  |         |
|           |                                                                     | Z | 3.23 | 68.69  | 16.86 |      | 80.0  |         |
| 10513-AAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.22 | 69.78  | 18.55 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.57 | 67.99  | 17.66 |      | 80.0  |         |
|           |                                                                     | Z | 3.31 | 66.12  | 16.20 |      | 80.0  |         |
| 10514-AAE | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.21 | 69.19  | 18.32 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 3.61 | 67.58  | 17.50 |      | 80.0  |         |
|           |                                                                     | Z | 3.38 | 65.91  | 16.14 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 1.02 | 64.92  | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.91 | 64.28  | 15.53 |      | 150.0 |         |
|           |                                                                     | Z | 0.94 | 62.87  | 14.14 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 2.93 | 102.46 | 30.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 2.68 | 98.97  | 27.33 |      | 150.0 |         |
|           |                                                                     | Z | 0.51 | 67.38  | 15.40 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.94 | 68.96  | 18.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.80 | 67.69  | 16.88 |      | 150.0 |         |
|           |                                                                     | Z | 0.77 | 64.18  | 14.46 |      | 150.0 |         |
| 10518-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.51 | 67.12  | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.25 | 67.04  | 16.42 |      | 150.0 |         |
|           |                                                                     | Z | 4.24 | 66.81  | 16.01 |      | 150.0 |         |
| 10519-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.68 | 67.32  | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.38 | 67.19  | 16.49 |      | 150.0 |         |
|           |                                                                     | Z | 4.37 | 66.95  | 16.09 |      | 150.0 |         |
| 10520-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.54 | 67.29  | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.24 | 67.12  | 16.42 |      | 150.0 |         |
|           |                                                                     | Z | 4.23 | 66.87  | 16.00 |      | 150.0 |         |
| 10521-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.47 | 67.29  | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.17 | 67.07  | 16.39 |      | 150.0 |         |
|           |                                                                     | Z | 4.16 | 66.82  | 15.97 |      | 150.0 |         |
| 10522-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.54 | 67.42  | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.21 | 67.17  | 16.46 |      | 150.0 |         |
|           |                                                                     | Z | 4.20 | 66.89  | 16.04 |      | 150.0 |         |

|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.43 | 67.32 | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.17 | 67.29 | 16.45 |      | 150.0 |         |
|           |                                                            | Z | 4.16 | 67.00 | 16.03 |      | 150.0 |         |
| 10524-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.48 | 67.34 | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.17 | 67.19 | 16.50 |      | 150.0 |         |
|           |                                                            | Z | 4.16 | 66.91 | 16.07 |      | 150.0 |         |
| 10525-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.49 | 66.40 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.23 | 66.32 | 16.13 |      | 150.0 |         |
|           |                                                            | Z | 4.21 | 66.07 | 15.72 |      | 150.0 |         |
| 10526-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.64 | 66.74 | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.34 | 66.57 | 16.24 |      | 150.0 |         |
|           |                                                            | Z | 4.31 | 66.30 | 15.81 |      | 150.0 |         |
| 10527-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.57 | 66.72 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.27 | 66.55 | 16.18 |      | 150.0 |         |
|           |                                                            | Z | 4.25 | 66.27 | 15.75 |      | 150.0 |         |
| 10528-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.58 | 66.73 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.29 | 66.57 | 16.21 |      | 150.0 |         |
|           |                                                            | Z | 4.26 | 66.29 | 15.79 |      | 150.0 |         |
| 10529-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.58 | 66.73 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.29 | 66.57 | 16.21 |      | 150.0 |         |
|           |                                                            | Z | 4.26 | 66.29 | 15.79 |      | 150.0 |         |
| 10531-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.56 | 66.82 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.24 | 66.56 | 16.18 |      | 150.0 |         |
|           |                                                            | Z | 4.22 | 66.27 | 15.74 |      | 150.0 |         |
| 10532-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.43 | 66.68 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.13 | 66.43 | 16.12 |      | 150.0 |         |
|           |                                                            | Z | 4.11 | 66.14 | 15.68 |      | 150.0 |         |
| 10533-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.59 | 66.80 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.29 | 66.66 | 16.22 |      | 150.0 |         |
|           |                                                            | Z | 4.26 | 66.37 | 15.79 |      | 150.0 |         |
| 10534-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.12 | 66.70 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.86 | 66.45 | 16.27 |      | 150.0 |         |
|           |                                                            | Z | 4.84 | 66.26 | 15.88 |      | 150.0 |         |
| 10535-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.19 | 66.90 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.90 | 66.57 | 16.33 |      | 150.0 |         |
|           |                                                            | Z | 4.86 | 66.35 | 15.93 |      | 150.0 |         |
| 10536-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.06 | 66.87 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.79 | 66.55 | 16.29 |      | 150.0 |         |
|           |                                                            | Z | 4.76 | 66.36 | 15.91 |      | 150.0 |         |
| 10537-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.11 | 66.81 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.88 | 66.66 | 16.35 |      | 150.0 |         |
|           |                                                            | Z | 4.84 | 66.41 | 15.94 |      | 150.0 |         |
| 10538-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.19 | 66.80 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.92 | 66.52 | 16.32 |      | 150.0 |         |
|           |                                                            | Z | 4.89 | 66.32 | 15.93 |      | 150.0 |         |
| 10540-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.13 | 66.80 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.85 | 66.47 | 16.32 |      | 150.0 |         |
|           |                                                            | Z | 4.82 | 66.28 | 15.93 |      | 150.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)  | X | 5.10 | 66.68 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 4.84 | 66.40 | 16.26 |      | 150.0 |         |
|           |                                                    | Z | 4.82 | 66.24 | 15.89 |      | 150.0 |         |
| 10542-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)  | X | 5.26 | 66.75 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 4.99 | 66.50 | 16.32 |      | 150.0 |         |
|           |                                                    | Z | 4.96 | 66.33 | 15.95 |      | 150.0 |         |
| 10543-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)  | X | 5.32 | 66.76 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.08 | 66.66 | 16.44 |      | 150.0 |         |
|           |                                                    | Z | 5.04 | 66.44 | 16.04 |      | 150.0 |         |
| 10544-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)  | X | 5.44 | 66.76 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.22 | 66.43 | 16.22 |      | 150.0 |         |
|           |                                                    | Z | 5.20 | 66.33 | 15.88 |      | 150.0 |         |
| 10545-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)  | X | 5.64 | 67.23 | 16.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.43 | 67.01 | 16.47 |      | 150.0 |         |
|           |                                                    | Z | 5.36 | 66.74 | 16.05 |      | 150.0 |         |
| 10546-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)  | X | 5.49 | 66.94 | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.25 | 66.55 | 16.25 |      | 150.0 |         |
|           |                                                    | Z | 5.22 | 66.43 | 15.91 |      | 150.0 |         |
| 10547-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)  | X | 5.57 | 67.00 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.39 | 66.88 | 16.41 |      | 150.0 |         |
|           |                                                    | Z | 5.32 | 66.61 | 15.99 |      | 150.0 |         |
| 10548-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)  | X | 5.80 | 67.92 | 16.87 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.49 | 67.39 | 16.64 |      | 150.0 |         |
|           |                                                    | Z | 5.40 | 67.04 | 16.19 |      | 150.0 |         |
| 10550-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)  | X | 5.54 | 67.04 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.38 | 67.02 | 16.50 |      | 150.0 |         |
|           |                                                    | Z | 5.30 | 66.69 | 16.05 |      | 150.0 |         |
| 10551-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)  | X | 5.52 | 67.00 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.22 | 66.47 | 16.19 |      | 150.0 |         |
|           |                                                    | Z | 5.21 | 66.38 | 15.86 |      | 150.0 |         |
| 10552-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)  | X | 5.45 | 66.84 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.23 | 66.57 | 16.23 |      | 150.0 |         |
|           |                                                    | Z | 5.21 | 66.47 | 15.90 |      | 150.0 |         |
| 10553-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)  | X | 5.52 | 66.83 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.27 | 66.48 | 16.22 |      | 150.0 |         |
|           |                                                    | Z | 5.25 | 66.39 | 15.89 |      | 150.0 |         |
| 10554-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.86 | 67.10 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.67 | 66.76 | 16.30 |      | 150.0 |         |
|           |                                                    | Z | 5.63 | 66.66 | 15.97 |      | 150.0 |         |
| 10555-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 5.98 | 67.40 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.75 | 66.99 | 16.40 |      | 150.0 |         |
|           |                                                    | Z | 5.70 | 66.83 | 16.04 |      | 150.0 |         |
| 10556-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 6.01 | 67.47 | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.83 | 67.21 | 16.50 |      | 150.0 |         |
|           |                                                    | Z | 5.75 | 66.98 | 16.10 |      | 150.0 |         |
| 10557-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 5.96 | 67.33 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                    | Y | 5.74 | 66.95 | 16.39 |      | 150.0 |         |
|           |                                                    | Z | 5.70 | 66.85 | 16.06 |      | 150.0 |         |

|           |                                                                 |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10558-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)              | X | 6.01   | 67.49  | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.72   | 66.92  | 16.39 |      | 150.0 |         |
|           |                                                                 | Z | 5.69   | 66.82  | 16.06 |      | 150.0 |         |
| 10560-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)              | X | 6.00   | 67.33  | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.75   | 66.89  | 16.41 |      | 150.0 |         |
|           |                                                                 | Z | 5.72   | 66.81  | 16.09 |      | 150.0 |         |
| 10561-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)              | X | 5.93   | 67.33  | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.70   | 66.91  | 16.45 |      | 150.0 |         |
|           |                                                                 | Z | 5.66   | 66.79  | 16.11 |      | 150.0 |         |
| 10562-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)              | X | 6.02   | 67.63  | 16.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.73   | 67.02  | 16.51 |      | 150.0 |         |
|           |                                                                 | Z | 5.69   | 66.91  | 16.17 |      | 150.0 |         |
| 10563-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)              | X | 6.11   | 67.54  | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.86   | 67.10  | 16.52 |      | 150.0 |         |
|           |                                                                 | Z | 5.80   | 66.92  | 16.15 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.83   | 67.14  | 16.72 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.56   | 67.00  | 16.52 |      | 150.0 |         |
|           |                                                                 | Z | 4.55   | 66.81  | 16.14 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.05   | 67.55  | 17.02 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.74   | 67.42  | 16.85 |      | 150.0 |         |
|           |                                                                 | Z | 4.73   | 67.21  | 16.46 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 4.88   | 67.41  | 16.85 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.58   | 67.22  | 16.65 |      | 150.0 |         |
|           |                                                                 | Z | 4.57   | 67.00  | 16.25 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 4.91   | 67.80  | 17.21 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.62   | 67.67  | 17.07 |      | 150.0 |         |
|           |                                                                 | Z | 4.61   | 67.41  | 16.64 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.80   | 67.23  | 16.65 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.45   | 66.86  | 16.32 |      | 150.0 |         |
|           |                                                                 | Z | 4.44   | 66.64  | 15.93 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 4.89   | 67.96  | 17.31 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.63   | 68.00  | 17.26 |      | 150.0 |         |
|           |                                                                 | Z | 4.60   | 67.68  | 16.80 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 4.91   | 67.78  | 17.22 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.61   | 67.70  | 17.10 |      | 150.0 |         |
|           |                                                                 | Z | 4.59   | 67.42  | 16.66 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.19   | 65.93  | 17.12 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.03   | 64.76  | 16.11 |      | 130.0 |         |
|           |                                                                 | Z | 1.04   | 63.12  | 14.48 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.21   | 66.68  | 17.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.05   | 65.50  | 16.59 |      | 130.0 |         |
|           |                                                                 | Z | 1.05   | 63.55  | 14.78 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 100.00 | 163.98 | 45.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 100.00 | 159.03 | 42.70 |      | 130.0 |         |
|           |                                                                 | Z | 0.80   | 72.06  | 17.88 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.52   | 75.94  | 22.26 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.27   | 74.58  | 21.26 |      | 130.0 |         |
|           |                                                                 | Z | 1.02   | 67.35  | 16.93 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.61 | 66.95 | 16.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.33 | 66.78 | 16.56 |      | 130.0 |         |
|           |                                                                 | Z | 4.31 | 66.49 | 16.09 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.64 | 67.13 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.37 | 67.03 | 16.68 |      | 130.0 |         |
|           |                                                                 | Z | 4.34 | 66.72 | 16.19 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.83 | 67.39 | 17.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.52 | 67.25 | 16.81 |      | 130.0 |         |
|           |                                                                 | Z | 4.49 | 66.93 | 16.33 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.73 | 67.55 | 17.13 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.43 | 67.43 | 16.95 |      | 130.0 |         |
|           |                                                                 | Z | 4.40 | 67.07 | 16.44 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.49 | 66.83 | 16.45 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.16 | 66.46 | 16.10 |      | 130.0 |         |
|           |                                                                 | Z | 4.14 | 66.18 | 15.64 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.54 | 66.91 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.19 | 66.49 | 16.10 |      | 130.0 |         |
|           |                                                                 | Z | 4.16 | 66.19 | 15.63 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.63 | 67.63 | 17.10 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.35 | 67.57 | 16.97 |      | 130.0 |         |
|           |                                                                 | Z | 4.32 | 67.17 | 16.43 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.43 | 66.61 | 16.25 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.08 | 66.21 | 15.86 |      | 130.0 |         |
|           |                                                                 | Z | 4.07 | 65.94 | 15.41 |      | 130.0 |         |
| 10583-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.61 | 66.95 | 16.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.33 | 66.78 | 16.56 |      | 130.0 |         |
|           |                                                                 | Z | 4.31 | 66.49 | 16.09 |      | 130.0 |         |
| 10584-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.64 | 67.13 | 16.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.37 | 67.03 | 16.68 |      | 130.0 |         |
|           |                                                                 | Z | 4.34 | 66.72 | 16.19 |      | 130.0 |         |
| 10585-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 4.83 | 67.39 | 17.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.52 | 67.25 | 16.81 |      | 130.0 |         |
|           |                                                                 | Z | 4.49 | 66.93 | 16.33 |      | 130.0 |         |
| 10586-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.73 | 67.55 | 17.13 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.43 | 67.43 | 16.95 |      | 130.0 |         |
|           |                                                                 | Z | 4.40 | 67.07 | 16.44 |      | 130.0 |         |
| 10587-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.49 | 66.83 | 16.45 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.16 | 66.46 | 16.10 |      | 130.0 |         |
|           |                                                                 | Z | 4.14 | 66.18 | 15.64 |      | 130.0 |         |
| 10588-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.54 | 66.91 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.19 | 66.49 | 16.10 |      | 130.0 |         |
|           |                                                                 | Z | 4.16 | 66.19 | 15.63 |      | 130.0 |         |
| 10589-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.63 | 67.63 | 17.10 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.35 | 67.57 | 16.97 |      | 130.0 |         |
|           |                                                                 | Z | 4.32 | 67.17 | 16.43 |      | 130.0 |         |
| 10590-AAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.43 | 66.61 | 16.25 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.08 | 66.21 | 15.86 |      | 130.0 |         |
|           |                                                                 | Z | 4.07 | 65.94 | 15.41 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.76 | 66.98 | 16.88 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.49 | 66.88 | 16.70 |      | 130.0 |         |
|           |                                                       | Z | 4.48 | 66.62 | 16.25 |      | 130.0 |         |
| 10592-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 4.91 | 67.32 | 17.01 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.60 | 67.16 | 16.82 |      | 130.0 |         |
|           |                                                       | Z | 4.58 | 66.88 | 16.36 |      | 130.0 |         |
| 10593-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 4.83 | 67.22 | 16.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.52 | 67.02 | 16.67 |      | 130.0 |         |
|           |                                                       | Z | 4.49 | 66.75 | 16.21 |      | 130.0 |         |
| 10594-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 4.88 | 67.39 | 17.05 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.57 | 67.22 | 16.86 |      | 130.0 |         |
|           |                                                       | Z | 4.55 | 66.93 | 16.38 |      | 130.0 |         |
| 10595-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 4.85 | 67.36 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.54 | 67.21 | 16.77 |      | 130.0 |         |
|           |                                                       | Z | 4.51 | 66.90 | 16.29 |      | 130.0 |         |
| 10596-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.79 | 67.36 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.46 | 67.14 | 16.75 |      | 130.0 |         |
|           |                                                       | Z | 4.44 | 66.83 | 16.26 |      | 130.0 |         |
| 10597-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.74 | 67.25 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.42 | 66.99 | 16.58 |      | 130.0 |         |
|           |                                                       | Z | 4.39 | 66.70 | 16.11 |      | 130.0 |         |
| 10598-AAB | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.72 | 67.47 | 17.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.42 | 67.29 | 16.89 |      | 130.0 |         |
|           |                                                       | Z | 4.40 | 66.96 | 16.39 |      | 130.0 |         |
| 10599-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.44 | 67.44 | 17.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.23 | 67.40 | 17.02 |      | 130.0 |         |
|           |                                                       | Z | 5.17 | 67.08 | 16.54 |      | 130.0 |         |
| 10600-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.58 | 67.92 | 17.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.36 | 67.90 | 17.25 |      | 130.0 |         |
|           |                                                       | Z | 5.23 | 67.33 | 16.64 |      | 130.0 |         |
| 10601-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.46 | 67.64 | 17.15 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.25 | 67.64 | 17.14 |      | 130.0 |         |
|           |                                                       | Z | 5.19 | 67.28 | 16.64 |      | 130.0 |         |
| 10602-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.59 | 67.79 | 17.14 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.32 | 67.58 | 17.02 |      | 130.0 |         |
|           |                                                       | Z | 5.23 | 67.13 | 16.48 |      | 130.0 |         |
| 10603-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.65 | 68.04 | 17.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.35 | 67.77 | 17.26 |      | 130.0 |         |
|           |                                                       | Z | 5.28 | 67.38 | 16.74 |      | 130.0 |         |
| 10604-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.52 | 67.67 | 17.20 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.20 | 67.22 | 16.96 |      | 130.0 |         |
|           |                                                       | Z | 5.15 | 66.92 | 16.48 |      | 130.0 |         |
| 10605-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.58 | 67.84 | 17.29 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.30 | 67.57 | 17.14 |      | 130.0 |         |
|           |                                                       | Z | 5.22 | 67.18 | 16.61 |      | 130.0 |         |
| 10606-AAB | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.30 | 67.08 | 16.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.12 | 67.11 | 16.75 |      | 130.0 |         |
|           |                                                       | Z | 5.05 | 66.75 | 16.25 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAB | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.62 | 66.38 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.36 | 66.29 | 16.39 |      | 130.0 |         |
|           |                                                   | Z | 4.32 | 65.96 | 15.89 |      | 130.0 |         |
| 10608-AAB | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.79 | 66.77 | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.48 | 66.59 | 16.52 |      | 130.0 |         |
|           |                                                   | Z | 4.44 | 66.24 | 16.02 |      | 130.0 |         |
| 10609-AAB | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.69 | 66.62 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.38 | 66.42 | 16.33 |      | 130.0 |         |
|           |                                                   | Z | 4.34 | 66.07 | 15.83 |      | 130.0 |         |
| 10610-AAB | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.74 | 66.78 | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.43 | 66.62 | 16.53 |      | 130.0 |         |
|           |                                                   | Z | 4.39 | 66.25 | 16.01 |      | 130.0 |         |
| 10611-AAB | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.65 | 66.59 | 16.56 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.34 | 66.38 | 16.35 |      | 130.0 |         |
|           |                                                   | Z | 4.30 | 66.02 | 15.84 |      | 130.0 |         |
| 10612-AAB | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.66 | 66.77 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.32 | 66.49 | 16.38 |      | 130.0 |         |
|           |                                                   | Z | 4.28 | 66.10 | 15.86 |      | 130.0 |         |
| 10613-AAB | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.65 | 66.61 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.31 | 66.27 | 16.20 |      | 130.0 |         |
|           |                                                   | Z | 4.27 | 65.92 | 15.70 |      | 130.0 |         |
| 10614-AAB | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.61 | 66.80 | 16.72 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.30 | 66.57 | 16.50 |      | 130.0 |         |
|           |                                                   | Z | 4.26 | 66.18 | 15.97 |      | 130.0 |         |
| 10615-AAB | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.65 | 66.44 | 16.35 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.33 | 66.19 | 16.09 |      | 130.0 |         |
|           |                                                   | Z | 4.29 | 65.85 | 15.60 |      | 130.0 |         |
| 10616-AAB | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.27 | 66.73 | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.01 | 66.49 | 16.56 |      | 130.0 |         |
|           |                                                   | Z | 4.96 | 66.22 | 16.10 |      | 130.0 |         |
| 10617-AAB | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.35 | 66.96 | 16.78 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.05 | 66.62 | 16.60 |      | 130.0 |         |
|           |                                                   | Z | 4.98 | 66.29 | 16.11 |      | 130.0 |         |
| 10618-AAB | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.23 | 66.97 | 16.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.95 | 66.64 | 16.63 |      | 130.0 |         |
|           |                                                   | Z | 4.90 | 66.35 | 16.15 |      | 130.0 |         |
| 10619-AAB | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.24 | 66.75 | 16.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.02 | 66.64 | 16.56 |      | 130.0 |         |
|           |                                                   | Z | 4.94 | 66.26 | 16.04 |      | 130.0 |         |
| 10620-AAB | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.32 | 66.76 | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.04 | 66.47 | 16.52 |      | 130.0 |         |
|           |                                                   | Z | 4.99 | 66.18 | 16.05 |      | 130.0 |         |
| 10621-AAB | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.33 | 66.89 | 16.85 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.05 | 66.58 | 16.71 |      | 130.0 |         |
|           |                                                   | Z | 5.01 | 66.34 | 16.25 |      | 130.0 |         |
| 10622-AAB | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.35 | 67.10 | 16.96 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.04 | 66.69 | 16.76 |      | 130.0 |         |
|           |                                                   | Z | 4.99 | 66.41 | 16.29 |      | 130.0 |         |

|           |                                                    |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAB | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)  | X | 5.22 | 66.58 | 16.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 4.94 | 66.25 | 16.38 |      | 130.0 |         |
|           |                                                    | Z | 4.90 | 66.00 | 15.94 |      | 130.0 |         |
| 10624-AAB | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)  | X | 5.41 | 66.77 | 16.72 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.13 | 66.51 | 16.58 |      | 130.0 |         |
|           |                                                    | Z | 5.08 | 66.25 | 16.13 |      | 130.0 |         |
| 10625-AAB | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)  | X | 5.67 | 67.47 | 17.13 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.24 | 66.76 | 16.78 |      | 130.0 |         |
|           |                                                    | Z | 5.18 | 66.46 | 16.30 |      | 130.0 |         |
| 10626-AAB | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)  | X | 5.58 | 66.75 | 16.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.35 | 66.42 | 16.47 |      | 130.0 |         |
|           |                                                    | Z | 5.31 | 66.24 | 16.06 |      | 130.0 |         |
| 10627-AAB | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)  | X | 5.83 | 67.40 | 16.91 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.63 | 67.24 | 16.86 |      | 130.0 |         |
|           |                                                    | Z | 5.52 | 66.81 | 16.33 |      | 130.0 |         |
| 10628-AAB | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)  | X | 5.60 | 66.81 | 16.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.34 | 66.39 | 16.35 |      | 130.0 |         |
|           |                                                    | Z | 5.30 | 66.19 | 15.94 |      | 130.0 |         |
| 10629-AAB | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)  | X | 5.68 | 66.90 | 16.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.54 | 66.91 | 16.62 |      | 130.0 |         |
|           |                                                    | Z | 5.42 | 66.48 | 16.08 |      | 130.0 |         |
| 10630-AAB | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)  | X | 6.08 | 68.33 | 17.31 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.70 | 67.61 | 16.97 |      | 130.0 |         |
|           |                                                    | Z | 5.55 | 67.05 | 16.38 |      | 130.0 |         |
| 10631-AAB | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)  | X | 5.97 | 68.08 | 17.36 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.66 | 67.59 | 17.16 |      | 130.0 |         |
|           |                                                    | Z | 5.57 | 67.23 | 16.66 |      | 130.0 |         |
| 10632-AAB | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)  | X | 5.80 | 67.45 | 17.07 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.69 | 67.64 | 17.20 |      | 130.0 |         |
|           |                                                    | Z | 5.55 | 67.10 | 16.61 |      | 130.0 |         |
| 10633-AAB | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)  | X | 5.66 | 67.00 | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.35 | 66.42 | 16.41 |      | 130.0 |         |
|           |                                                    | Z | 5.31 | 66.26 | 16.01 |      | 130.0 |         |
| 10634-AAB | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)  | X | 5.64 | 67.00 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.39 | 66.68 | 16.59 |      | 130.0 |         |
|           |                                                    | Z | 5.35 | 66.50 | 16.18 |      | 130.0 |         |
| 10635-AAB | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)  | X | 5.52 | 66.33 | 16.14 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.23 | 65.84 | 15.88 |      | 130.0 |         |
|           |                                                    | Z | 5.20 | 65.70 | 15.50 |      | 130.0 |         |
| 10636-AAC | IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 6.01 | 67.10 | 16.69 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.81 | 66.78 | 16.56 |      | 130.0 |         |
|           |                                                    | Z | 5.76 | 66.60 | 16.16 |      | 130.0 |         |
| 10637-AAC | IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.16 | 67.51 | 16.88 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.94 | 67.13 | 16.72 |      | 130.0 |         |
|           |                                                    | Z | 5.85 | 66.83 | 16.27 |      | 130.0 |         |
| 10638-AAC | IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.16 | 67.47 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                    | Y | 5.99 | 67.25 | 16.76 |      | 130.0 |         |
|           |                                                    | Z | 5.90 | 66.99 | 16.32 |      | 130.0 |         |

|           |                                                        |   |        |        |       |       |       |         |
|-----------|--------------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10639-AAC | IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)     | X | 6.13   | 67.38  | 16.83 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.90   | 67.00  | 16.68 |       | 130.0 |         |
|           |                                                        | Z | 5.84   | 66.81  | 16.27 |       | 130.0 |         |
| 10640-AAC | IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)     | X | 6.13   | 67.41  | 16.79 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.83   | 66.79  | 16.51 |       | 130.0 |         |
|           |                                                        | Z | 5.77   | 66.61  | 16.12 |       | 130.0 |         |
| 10641-AAC | IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)     | X | 6.20   | 67.37  | 16.80 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.99   | 67.07  | 16.68 |       | 130.0 |         |
|           |                                                        | Z | 5.89   | 66.77  | 16.22 |       | 130.0 |         |
| 10642-AAC | IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)     | X | 6.21   | 67.55  | 17.04 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.96   | 67.13  | 16.88 |       | 130.0 |         |
|           |                                                        | Z | 5.91   | 66.95  | 16.48 |       | 130.0 |         |
| 10643-AAC | IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)     | X | 6.07   | 67.29  | 16.82 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.82   | 66.83  | 16.61 |       | 130.0 |         |
|           |                                                        | Z | 5.75   | 66.62  | 16.20 |       | 130.0 |         |
| 10644-AAC | IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)     | X | 6.18   | 67.64  | 17.01 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 5.86   | 66.97  | 16.70 |       | 130.0 |         |
|           |                                                        | Z | 5.80   | 66.78  | 16.30 |       | 130.0 |         |
| 10645-AAC | IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)     | X | 6.32   | 67.71  | 17.01 | 0.46  | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.02   | 67.15  | 16.76 |       | 130.0 |         |
|           |                                                        | Z | 5.94   | 66.88  | 16.32 |       | 130.0 |         |
| 10646-AAE | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 29.01  | 129.72 | 45.71 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 5.69   | 90.29  | 32.95 |       | 60.0  |         |
|           |                                                        | Z | 4.56   | 83.05  | 28.64 |       | 60.0  |         |
| 10647-AAE | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 21.51  | 122.78 | 43.90 | 9.30  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 4.97   | 87.32  | 31.93 |       | 60.0  |         |
|           |                                                        | Z | 4.08   | 80.83  | 27.85 |       | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.81   | 66.86  | 12.34 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.34   | 60.00  | 5.68  |       | 150.0 |         |
|           |                                                        | Z | 0.41   | 60.33  | 6.86  |       | 150.0 |         |
| 10652-AAC | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | X | 3.65   | 68.11  | 17.48 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.21   | 67.42  | 16.62 |       | 80.0  |         |
|           |                                                        | Z | 2.95   | 65.45  | 15.23 |       | 80.0  |         |
| 10653-AAC | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | X | 4.08   | 66.78  | 17.31 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.68   | 66.09  | 16.72 |       | 80.0  |         |
|           |                                                        | Z | 3.55   | 65.09  | 15.78 |       | 80.0  |         |
| 10654-AAC | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | X | 4.05   | 66.29  | 17.25 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.70   | 65.54  | 16.72 |       | 80.0  |         |
|           |                                                        | Z | 3.61   | 64.74  | 15.87 |       | 80.0  |         |
| 10655-AAD | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | X | 4.11   | 66.21  | 17.27 | 2.23  | 80.0  | ± 9.6 % |
|           |                                                        | Y | 3.77   | 65.36  | 16.73 |       | 80.0  |         |
|           |                                                        | Z | 3.69   | 64.66  | 15.92 |       | 80.0  |         |
| 10658-AAA | Pulse Waveform (200Hz, 10%)                            | X | 100.00 | 110.76 | 25.43 | 10.00 | 50.0  | ± 9.6 % |
|           |                                                        | Y | 4.64   | 72.25  | 12.92 |       | 50.0  |         |
|           |                                                        | Z | 3.17   | 68.15  | 11.10 |       | 50.0  |         |
| 10659-AAA | Pulse Waveform (200Hz, 20%)                            | X | 100.00 | 113.44 | 25.61 | 6.99  | 60.0  | ± 9.6 % |
|           |                                                        | Y | 100.00 | 99.40  | 18.82 |       | 60.0  |         |
|           |                                                        | Z | 2.21   | 68.18  | 10.16 |       | 60.0  |         |

|           |                             |   |        |        |       |      |       |         |
|-----------|-----------------------------|---|--------|--------|-------|------|-------|---------|
| 10660-AAA | Pulse Waveform (200Hz, 40%) | X | 100.00 | 123.86 | 28.72 | 3.98 | 80.0  | ± 9.6 % |
|           |                             | Y | 100.00 | 91.99  | 14.37 |      | 80.0  |         |
|           |                             | Z | 16.70  | 84.37  | 13.73 |      | 80.0  |         |
| 10661-AAA | Pulse Waveform (200Hz, 60%) | X | 100.00 | 148.43 | 37.17 | 2.22 | 100.0 | ± 9.6 % |
|           |                             | Y | 0.23   | 60.00  | 3.27  |      | 100.0 |         |
|           |                             | Z | 100.00 | 93.94  | 14.56 |      | 100.0 |         |
| 10662-AAA | Pulse Waveform (200Hz, 80%) | X | 100.00 | 271.45 | 80.22 | 0.97 | 120.0 | ± 9.6 % |
|           |                             | Y | 0.00   | 84.29  | 98.51 |      | 120.0 |         |
|           |                             | Z | 99.98  | 85.52  | 10.49 |      | 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.

### Appendix D. Photographs of EUT and Setup

The setup photographs for SAR testing are shown as follows.