

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3820

### 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                            | 9.42    | 9.42    | 9.42    | 0.34               | 1.06                    | ± 12.0 %  |
| 835                  | 41.5                               | 0.90                            | 9.00    | 9.00    | 9.00    | 0.47               | 0.80                    | ± 12.0 %  |
| 900                  | 41.5                               | 0.97                            | 8.88    | 8.88    | 8.88    | 0.37               | 0.95                    | ± 12.0 %  |
| 1450                 | 40.5                               | 1.20                            | 8.37    | 8.37    | 8.37    | 0.32               | 0.80                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 7.95    | 7.95    | 7.95    | 0.30               | 0.80                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 7.80    | 7.80    | 7.80    | 0.32               | 0.85                    | ± 12.0 %  |
| 2000                 | 40.0                               | 1.40                            | 7.74    | 7.74    | 7.74    | 0.34               | 0.84                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 6.78    | 6.78    | 6.78    | 0.21               | 1.17                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 6.49    | 6.49    | 6.49    | 0.25               | 1.26                    | ± 12.0 %  |
| 5200                 | 36.0                               | 4.66                            | 4.66    | 4.66    | 4.66    | 0.40               | 1.80                    | ± 13.1 %  |
| 5300                 | 35.9                               | 4.76                            | 4.41    | 4.41    | 4.41    | 0.45               | 1.80                    | ± 13.1 %  |
| 5500                 | 35.6                               | 4.96                            | 4.32    | 4.32    | 4.32    | 0.45               | 1.80                    | ± 13.1 %  |
| 5600                 | 35.5                               | 5.07                            | 4.14    | 4.14    | 4.14    | 0.50               | 1.80                    | ± 13.1 %  |
| 5800                 | 35.3                               | 5.27                            | 4.14    | 4.14    | 4.14    | 0.50               | 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:3820

### 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                            | 8.87    | 8.87    | 8.87    | 0.30               | 1.02                    | ± 12.0 %  |
| 835                  | 55.2                               | 0.97                            | 8.86    | 8.86    | 8.86    | 0.27               | 1.13                    | ± 12.0 %  |
| 900                  | 55.0                               | 1.05                            | 8.94    | 8.94    | 8.94    | 0.36               | 0.93                    | ± 12.0 %  |
| 1450                 | 54.0                               | 1.30                            | 8.02    | 8.02    | 8.02    | 0.28               | 0.80                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 7.65    | 7.65    | 7.65    | 0.39               | 0.82                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 7.41    | 7.41    | 7.41    | 0.19               | 1.30                    | ± 12.0 %  |
| 2000                 | 53.3                               | 1.52                            | 7.51    | 7.51    | 7.51    | 0.26               | 1.05                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 6.79    | 6.79    | 6.79    | 0.38               | 0.93                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 6.52    | 6.52    | 6.52    | 0.48               | 0.83                    | ± 12.0 %  |
| 5200                 | 49.0                               | 5.30                            | 4.19    | 4.19    | 4.19    | 0.50               | 1.90                    | ± 13.1 %  |
| 5300                 | 48.9                               | 5.42                            | 3.95    | 3.95    | 3.95    | 0.55               | 1.90                    | ± 13.1 %  |
| 5500                 | 48.6                               | 5.65                            | 3.71    | 3.71    | 3.71    | 0.55               | 1.90                    | ± 13.1 %  |
| 5600                 | 48.5                               | 5.77                            | 3.54    | 3.54    | 3.54    | 0.55               | 1.90                    | ± 13.1 %  |
| 5800                 | 48.2                               | 6.00                            | 3.70    | 3.70    | 3.70    | 0.60               | 1.90                    | ± 13.1 %  |

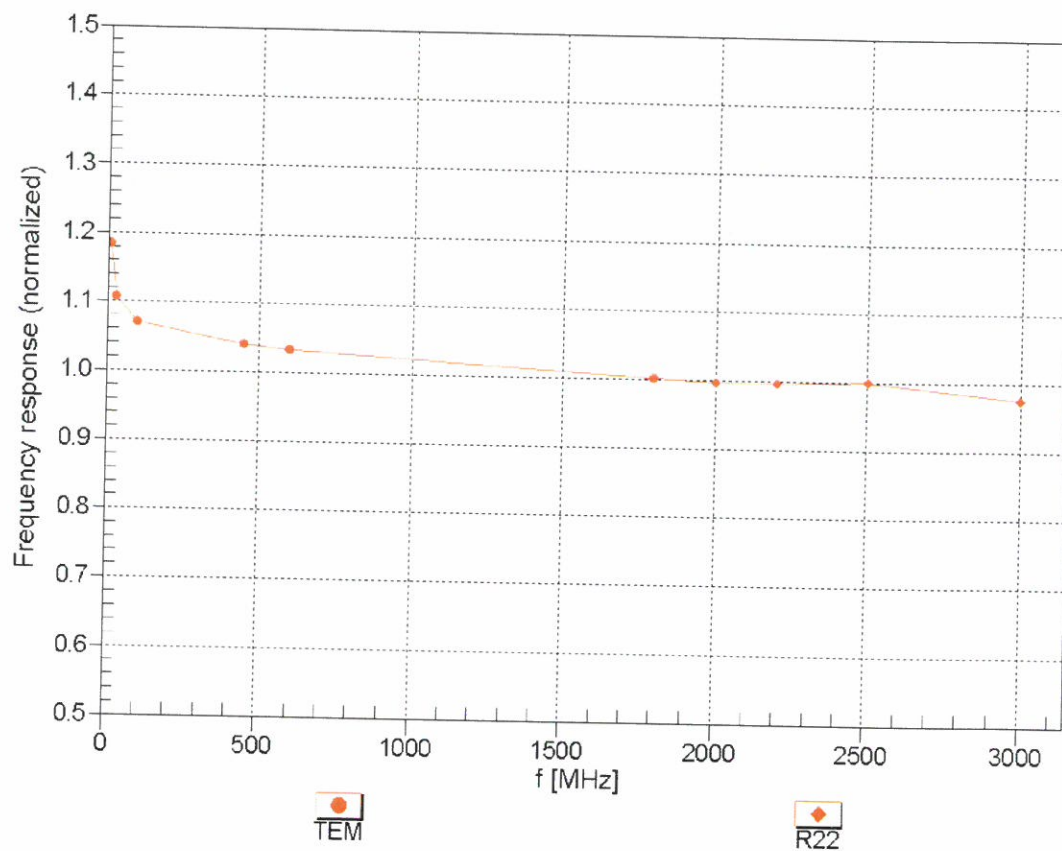
<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 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

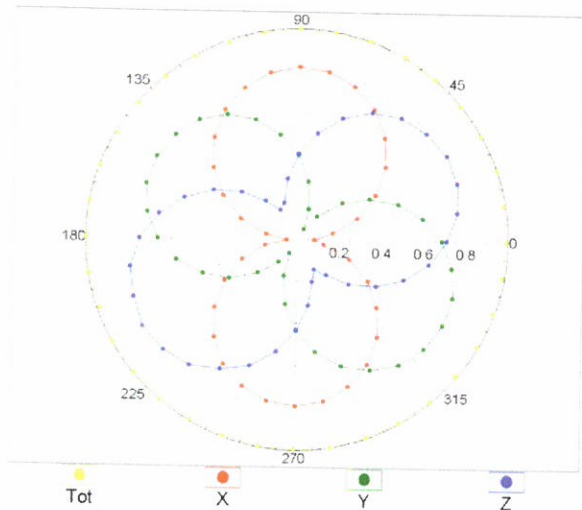
(TEM-Cell:ifi110 EXX, Waveguide: R22)



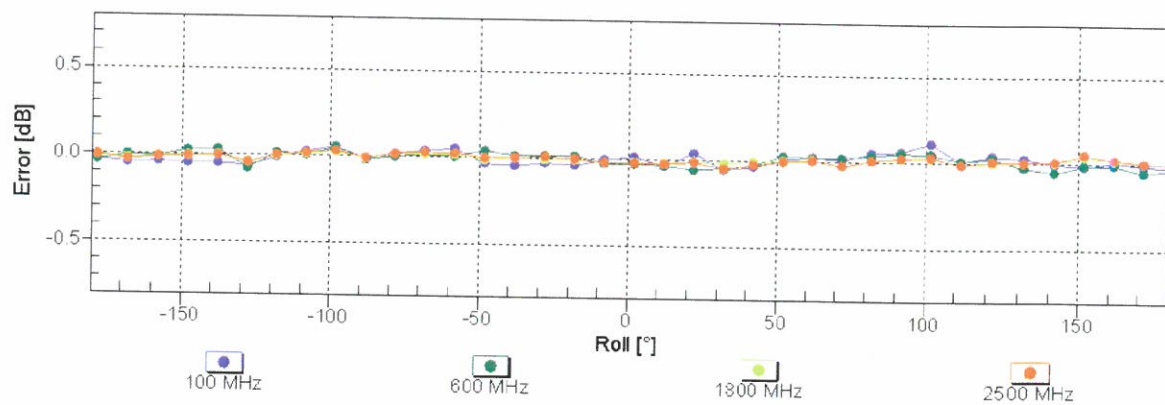
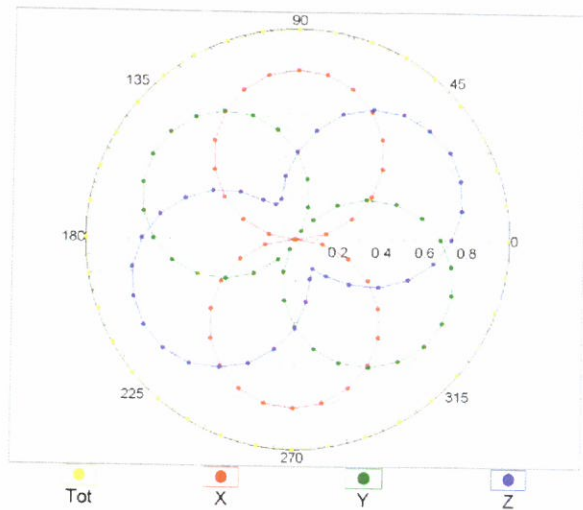
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

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

f=600 MHz, TEM

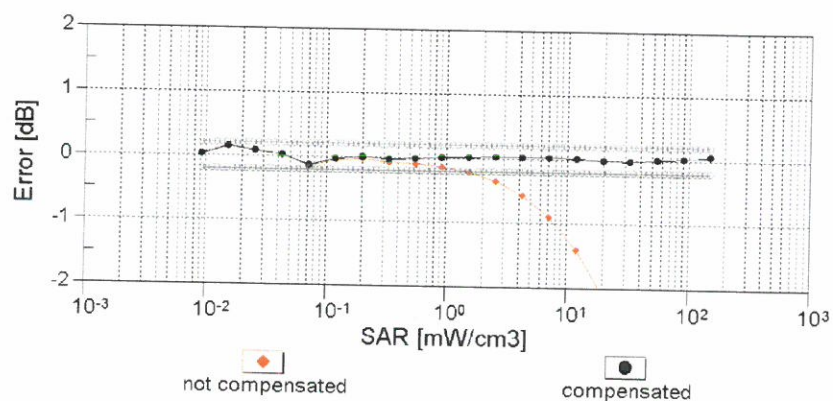
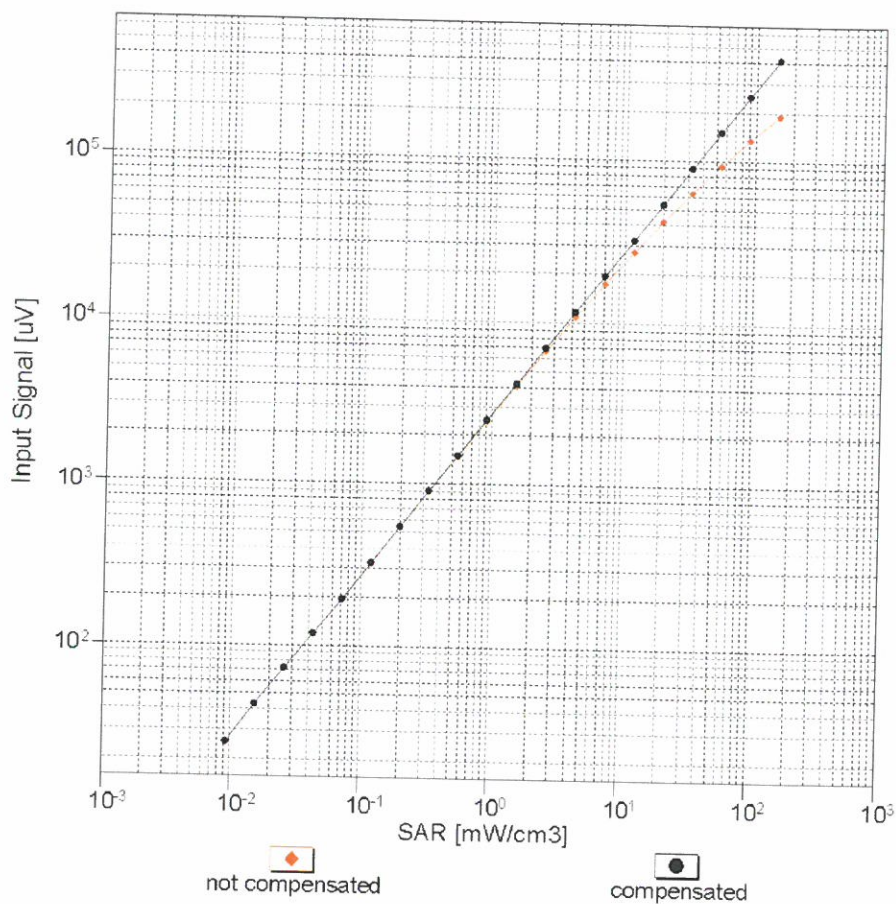


f=1800 MHz, R22



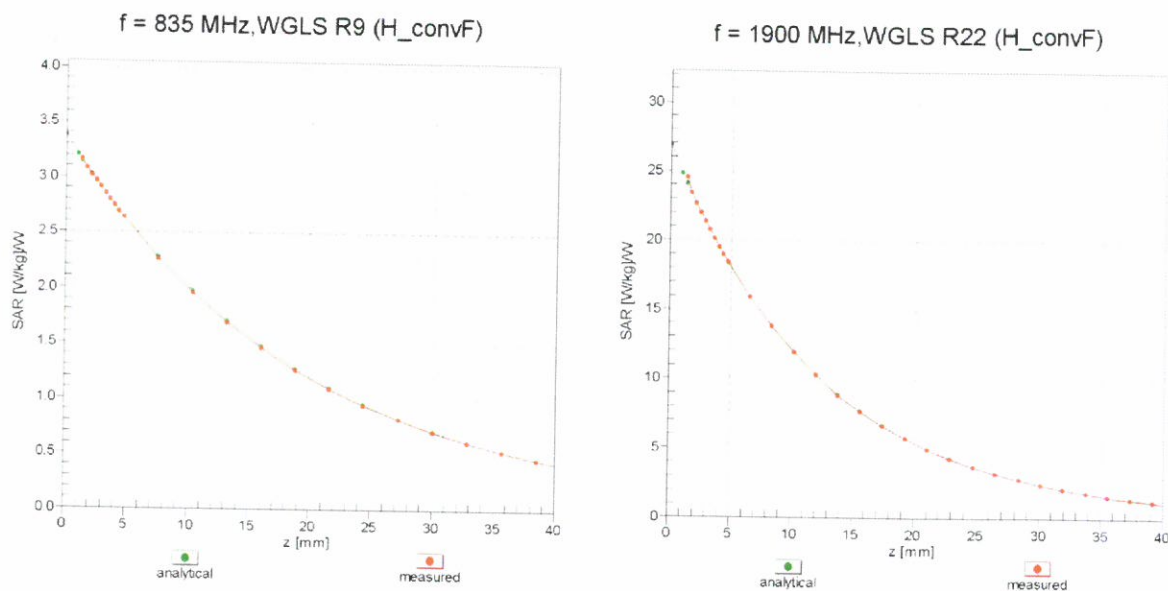
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

# Dynamic Range f(SAR<sub>head</sub>) (TEM cell , f<sub>eval</sub>= 1900 MHz)



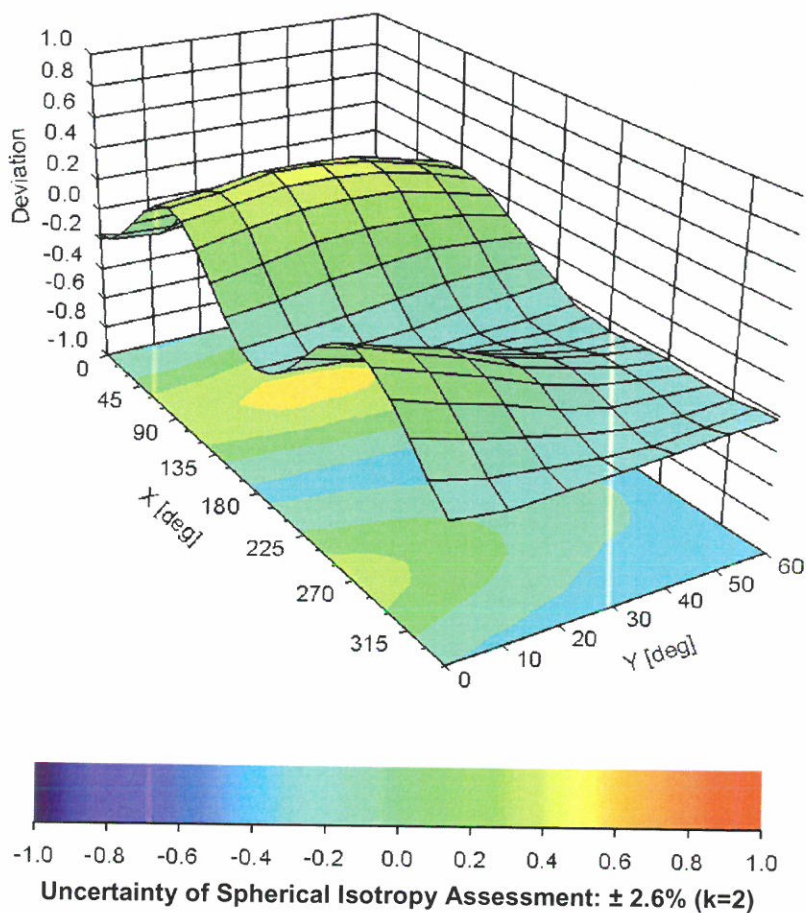
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  (k=2)

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

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



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3820

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 31.9       |
| 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    | 148.5    | $\pm 3.8 \%$                     |
|               |                                               | Y | 0.00    | 0.00                   | 1.00  |         | 134.3    |                                  |
|               |                                               | Z | 0.00    | 0.00                   | 1.00  |         | 135.9    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 2.91    | 66.95                  | 11.40 | 10.00   | 20.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 4.24    | 71.80                  | 13.80 |         | 20.0     |                                  |
|               |                                               | Z | 13.20   | 88.04                  | 20.85 |         | 20.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 1.07    | 67.78                  | 15.67 | 0.00    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.52    | 74.89                  | 19.60 |         | 150.0    |                                  |
|               |                                               | Z | 0.94    | 63.95                  | 13.11 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.19    | 63.84                  | 15.24 | 0.41    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.24    | 65.55                  | 16.88 |         | 150.0    |                                  |
|               |                                               | Z | 1.16    | 62.20                  | 14.01 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 4.91    | 66.44                  | 16.89 | 1.46    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 4.97    | 66.85                  | 17.38 |         | 150.0    |                                  |
|               |                                               | Z | 5.04    | 66.28                  | 16.95 |         | 150.0    |                                  |
| 10021-<br>DAB | GSM-FDD (TDMA, GMSK)                          | X | 12.66   | 85.74                  | 19.85 | 9.39    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 115.62                 | 28.70 |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 123.67                 | 32.95 |         | 50.0     |                                  |
| 10023-<br>DAB | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 10.49   | 83.18                  | 19.06 | 9.57    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 115.37                 | 28.65 |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 123.24                 | 32.82 |         | 50.0     |                                  |
| 10024-<br>DAB | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 30.89   | 96.11                  | 21.36 | 6.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 115.76                 | 27.51 |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 126.38                 | 32.70 |         | 60.0     |                                  |
| 10025-<br>DAB | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 4.99    | 72.36                  | 25.92 | 12.57   | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 12.74   | 102.33                 | 40.28 |         | 50.0     |                                  |
|               |                                               | Z | 5.30    | 73.69                  | 27.65 |         | 50.0     |                                  |
| 10026-<br>DAB | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 9.44    | 89.33                  | 30.51 | 9.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 12.46   | 98.80                  | 35.19 |         | 60.0     |                                  |
|               |                                               | Z | 7.86    | 86.03                  | 30.51 |         | 60.0     |                                  |
| 10027-<br>DAB | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 108.03                 | 23.23 | 4.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 117.95                 | 27.58 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 129.63                 | 33.06 |         | 80.0     |                                  |
| 10028-<br>DAB | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 108.32                 | 22.71 | 3.55    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 122.16                 | 28.60 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 132.93                 | 33.53 |         | 100.0    |                                  |
| 10029-<br>DAB | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 6.28    | 80.96                  | 26.28 | 7.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 6.96    | 85.32                  | 29.11 |         | 80.0     |                                  |
|               |                                               | Z | 5.29    | 77.61                  | 25.92 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 23.05   | 92.26                  | 19.61 | 5.30    | 70.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 115.32                 | 26.76 |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 126.49                 | 32.09 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 107.60                 | 21.20 | 1.88    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 131.06                 | 30.63 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 132.96                 | 31.77 |         | 100.0    |                                  |

|           |                                                     |   |        |        |       |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 113.22 | 22.67 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 159.51 | 40.57 |       | 100.0 |         |
|           |                                                     | Z | 4.77   | 98.55  | 23.61 |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 5.95   | 81.54  | 20.62 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 31.39  | 111.74 | 31.08 |       | 70.0  |         |
|           |                                                     | Z | 6.92   | 88.40  | 25.43 |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 2.53   | 73.78  | 16.91 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 8.40   | 94.30  | 25.11 |       | 100.0 |         |
|           |                                                     | Z | 2.04   | 71.57  | 17.30 |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 1.92   | 71.48  | 15.91 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 4.80   | 87.19  | 22.72 |       | 100.0 |         |
|           |                                                     | Z | 1.52   | 68.13  | 15.29 |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 7.00   | 84.17  | 21.61 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 60.53  | 122.86 | 33.97 |       | 70.0  |         |
|           |                                                     | Z | 8.35   | 92.00  | 26.74 |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 2.42   | 73.25  | 16.65 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 7.51   | 92.72  | 24.60 |       | 100.0 |         |
|           |                                                     | Z | 1.97   | 71.19  | 17.10 |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 1.94   | 71.83  | 16.15 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 4.97   | 88.11  | 23.16 |       | 100.0 |         |
|           |                                                     | Z | 1.52   | 68.29  | 15.45 |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 2.15   | 73.98  | 17.06 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.64   | 89.14  | 22.94 |       | 150.0 |         |
|           |                                                     | Z | 1.50   | 66.92  | 13.82 |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 9.98   | 82.49  | 17.56 | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 112.59 | 26.38 |       | 50.0  |         |
|           |                                                     | Z | 100.00 | 121.68 | 30.94 |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.00   | 97.86  | 1.75  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.00   | 115.28 | 0.17  |       | 150.0 |         |
|           |                                                     | Z | 0.01   | 89.38  | 7.52  |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 7.18   | 75.26  | 17.75 | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 19.36  | 89.79  | 23.13 |       | 25.0  |         |
|           |                                                     | Z | 100.00 | 119.10 | 32.85 |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 7.58   | 78.05  | 17.57 | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 40.47  | 102.30 | 25.68 |       | 40.0  |         |
|           |                                                     | Z | 100.00 | 121.63 | 32.57 |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 9.03   | 82.76  | 21.27 | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 27.06  | 102.61 | 28.44 |       | 50.0  |         |
|           |                                                     | Z | 20.85  | 101.14 | 29.48 |       | 50.0  |         |
| 10058-DAB | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 4.87   | 76.45  | 23.78 | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 5.10   | 79.07  | 25.85 |       | 100.0 |         |
|           |                                                     | Z | 4.21   | 73.47  | 23.33 |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.23   | 64.84  | 15.71 | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.31   | 67.04  | 17.67 |       | 110.0 |         |
|           |                                                     | Z | 1.18   | 62.94  | 14.51 |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 5.37   | 91.70  | 23.52 | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 145.92 | 39.22 |       | 110.0 |         |
|           |                                                     | Z | 1.66   | 75.92  | 19.25 |       | 110.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 2.59 | 76.69 | 20.10 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 5.25 | 92.34 | 27.22 |      | 110.0 |         |
|           |                                                | Z | 1.92 | 72.23 | 19.28 |      | 110.0 |         |
| 10062-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.73 | 66.55 | 16.45 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.79 | 66.94 | 16.88 |      | 100.0 |         |
|           |                                                | Z | 4.83 | 66.22 | 16.30 |      | 100.0 |         |
| 10063-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.74 | 66.61 | 16.52 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.81 | 67.03 | 16.98 |      | 100.0 |         |
|           |                                                | Z | 4.85 | 66.32 | 16.42 |      | 100.0 |         |
| 10064-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 5.05 | 66.89 | 16.74 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.11 | 67.30 | 17.20 |      | 100.0 |         |
|           |                                                | Z | 5.19 | 66.70 | 16.71 |      | 100.0 |         |
| 10065-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 4.90 | 66.75 | 16.79 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.97 | 67.20 | 17.29 |      | 100.0 |         |
|           |                                                | Z | 5.05 | 66.61 | 16.83 |      | 100.0 |         |
| 10066-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 4.92 | 66.75 | 16.92 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.99 | 67.21 | 17.44 |      | 100.0 |         |
|           |                                                | Z | 5.08 | 66.65 | 17.02 |      | 100.0 |         |
| 10067-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 5.19 | 66.81 | 17.28 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.27 | 67.26 | 17.81 |      | 100.0 |         |
|           |                                                | Z | 5.38 | 66.77 | 17.47 |      | 100.0 |         |
| 10068-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 5.26 | 66.92 | 17.50 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.33 | 67.41 | 18.07 |      | 100.0 |         |
|           |                                                | Z | 5.46 | 66.99 | 17.77 |      | 100.0 |         |
| 10069-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.33 | 66.87 | 17.66 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.41 | 67.34 | 18.23 |      | 100.0 |         |
|           |                                                | Z | 5.54 | 66.91 | 17.94 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 4.99 | 66.49 | 17.14 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.06 | 66.92 | 17.66 |      | 100.0 |         |
|           |                                                | Z | 5.15 | 66.40 | 17.28 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 4.98 | 66.81 | 17.32 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.05 | 67.30 | 17.89 |      | 100.0 |         |
|           |                                                | Z | 5.14 | 66.77 | 17.52 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 5.03 | 66.92 | 17.59 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.11 | 67.44 | 18.20 |      | 100.0 |         |
|           |                                                | Z | 5.21 | 66.91 | 17.86 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 5.01 | 66.80 | 17.71 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.08 | 67.31 | 18.34 |      | 100.0 |         |
|           |                                                | Z | 5.18 | 66.81 | 18.04 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 5.06 | 66.97 | 18.03 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.14 | 67.49 | 18.68 |      | 90.0  |         |
|           |                                                | Z | 5.25 | 67.05 | 18.43 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 5.06 | 66.71 | 18.10 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.13 | 67.20 | 18.74 |      | 90.0  |         |
|           |                                                | Z | 5.23 | 66.74 | 18.50 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 5.08 | 66.77 | 18.18 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.15 | 67.26 | 18.83 |      | 90.0  |         |
|           |                                                | Z | 5.25 | 66.77 | 18.58 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 0.95   | 67.20  | 13.72 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.84   | 77.86  | 18.83 |      | 150.0 |         |
|           |                                                     | Z | 0.83   | 63.27  | 11.54 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 0.72   | 58.34  | 3.85  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 0.80   | 60.00  | 5.01  |      | 80.0  |         |
|           |                                                     | Z | 0.78   | 60.02  | 5.75  |      | 80.0  |         |
| 10090-DAB | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 29.15  | 95.48  | 21.21 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 115.79 | 27.54 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 126.41 | 32.74 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 1.88   | 67.87  | 15.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.14   | 70.75  | 17.79 |      | 150.0 |         |
|           |                                                     | Z | 1.73   | 65.15  | 14.30 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 1.84   | 67.81  | 15.95 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.11   | 70.78  | 17.80 |      | 150.0 |         |
|           |                                                     | Z | 1.69   | 65.08  | 14.24 |      | 150.0 |         |
| 10099-DAB | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 9.47   | 89.38  | 30.52 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 12.54  | 98.89  | 35.21 |      | 60.0  |         |
|           |                                                     | Z | 7.89   | 86.11  | 30.54 |      | 60.0  |         |
| 10100-CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 3.25   | 70.73  | 16.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.69   | 73.26  | 18.35 |      | 150.0 |         |
|           |                                                     | Z | 2.98   | 68.29  | 15.50 |      | 150.0 |         |
| 10101-CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.32   | 67.71  | 16.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.47   | 68.78  | 16.86 |      | 150.0 |         |
|           |                                                     | Z | 3.27   | 66.54  | 15.28 |      | 150.0 |         |
| 10102-CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.43   | 67.67  | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.56   | 68.63  | 16.89 |      | 150.0 |         |
|           |                                                     | Z | 3.38   | 66.55  | 15.41 |      | 150.0 |         |
| 10103-CAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 6.21   | 74.23  | 19.42 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 6.88   | 77.07  | 21.19 |      | 65.0  |         |
|           |                                                     | Z | 5.98   | 74.05  | 20.08 |      | 65.0  |         |
| 10104-CAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 6.42   | 73.10  | 19.79 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 6.52   | 74.28  | 20.86 |      | 65.0  |         |
|           |                                                     | Z | 6.03   | 72.15  | 19.99 |      | 65.0  |         |
| 10105-CAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 6.09   | 72.02  | 19.63 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 5.92   | 72.21  | 20.23 |      | 65.0  |         |
|           |                                                     | Z | 5.85   | 71.37  | 19.93 |      | 65.0  |         |
| 10108-CAC | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 2.85   | 69.93  | 16.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.22   | 72.45  | 18.22 |      | 150.0 |         |
|           |                                                     | Z | 2.65   | 67.54  | 15.31 |      | 150.0 |         |
| 10109-CAC | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 2.99   | 67.57  | 16.02 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.14   | 68.79  | 16.90 |      | 150.0 |         |
|           |                                                     | Z | 2.93   | 66.22  | 15.13 |      | 150.0 |         |
| 10110-CAC | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.32   | 68.97  | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.65   | 71.77  | 18.06 |      | 150.0 |         |
|           |                                                     | Z | 2.18   | 66.50  | 14.87 |      | 150.0 |         |
| 10111-CAC | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.72   | 68.46  | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.92   | 70.13  | 17.54 |      | 150.0 |         |
|           |                                                     | Z | 2.60   | 66.41  | 15.21 |      | 150.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAC | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 3.11 | 67.54 | 16.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.25 | 68.64 | 16.88 |      | 150.0 |         |
|           |                                                | Z | 3.06 | 66.25 | 15.23 |      | 150.0 |         |
| 10113-CAC | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.88 | 68.57 | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.07 | 70.09 | 17.57 |      | 150.0 |         |
|           |                                                | Z | 2.76 | 66.60 | 15.38 |      | 150.0 |         |
| 10114-CAB | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.19 | 67.21 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.24 | 67.52 | 16.81 |      | 150.0 |         |
|           |                                                | Z | 5.22 | 66.70 | 16.13 |      | 150.0 |         |
| 10115-CAB | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.53 | 67.47 | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.58 | 67.77 | 16.93 |      | 150.0 |         |
|           |                                                | Z | 5.60 | 67.06 | 16.32 |      | 150.0 |         |
| 10116-CAB | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.31 | 67.45 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.36 | 67.78 | 16.86 |      | 150.0 |         |
|           |                                                | Z | 5.35 | 66.97 | 16.19 |      | 150.0 |         |
| 10117-CAB | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.18 | 67.14 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.22 | 67.45 | 16.79 |      | 150.0 |         |
|           |                                                | Z | 5.23 | 66.72 | 16.16 |      | 150.0 |         |
| 10118-CAB | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.61 | 67.65 | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.66 | 67.96 | 17.03 |      | 150.0 |         |
|           |                                                | Z | 5.67 | 67.22 | 16.41 |      | 150.0 |         |
| 10119-CAB | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.28 | 67.38 | 16.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.33 | 67.70 | 16.84 |      | 150.0 |         |
|           |                                                | Z | 5.33 | 66.93 | 16.18 |      | 150.0 |         |
| 10140-CAB | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.47 | 67.67 | 16.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.60 | 68.62 | 16.81 |      | 150.0 |         |
|           |                                                | Z | 3.43 | 66.56 | 15.35 |      | 150.0 |         |
| 10141-CAB | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.59 | 67.76 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.72 | 68.63 | 16.93 |      | 150.0 |         |
|           |                                                | Z | 3.55 | 66.67 | 15.53 |      | 150.0 |         |
| 10142-CAC | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 2.11 | 69.04 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.50 | 72.47 | 18.16 |      | 150.0 |         |
|           |                                                | Z | 1.95 | 66.19 | 14.52 |      | 150.0 |         |
| 10143-CAC | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.62 | 69.39 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.95 | 71.82 | 17.79 |      | 150.0 |         |
|           |                                                | Z | 2.42 | 66.67 | 14.90 |      | 150.0 |         |
| 10144-CAC | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 2.37 | 66.97 | 14.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.59 | 68.81 | 15.89 |      | 150.0 |         |
|           |                                                | Z | 2.31 | 65.30 | 13.79 |      | 150.0 |         |
| 10145-CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 1.44 | 66.90 | 13.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.00 | 72.14 | 16.10 |      | 150.0 |         |
|           |                                                | Z | 1.34 | 64.27 | 12.14 |      | 150.0 |         |
| 10146-CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 2.34 | 68.02 | 13.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.00 | 72.25 | 15.28 |      | 150.0 |         |
|           |                                                | Z | 3.24 | 72.73 | 16.47 |      | 150.0 |         |
| 10147-CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 2.87 | 70.69 | 14.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.47 | 77.69 | 17.60 |      | 150.0 |         |
|           |                                                | Z | 4.29 | 77.00 | 18.41 |      | 150.0 |         |

|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAB | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 3.00 | 67.63 | 16.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.15 | 68.86 | 16.95 |      | 150.0 |         |
|           |                                            | Z | 2.94 | 66.27 | 15.17 |      | 150.0 |         |
| 10150-CAB | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 3.12 | 67.60 | 16.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.26 | 68.70 | 16.93 |      | 150.0 |         |
|           |                                            | Z | 3.07 | 66.29 | 15.26 |      | 150.0 |         |
| 10151-CAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 6.43 | 76.15 | 20.27 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 7.16 | 79.35 | 22.24 |      | 65.0  |         |
|           |                                            | Z | 5.94 | 75.38 | 20.78 |      | 65.0  |         |
| 10152-CAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 5.92 | 72.87 | 19.42 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 6.10 | 74.39 | 20.68 |      | 65.0  |         |
|           |                                            | Z | 5.56 | 71.98 | 19.74 |      | 65.0  |         |
| 10153-CAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 6.29 | 73.82 | 20.21 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 6.43 | 75.19 | 21.39 |      | 65.0  |         |
|           |                                            | Z | 5.85 | 72.67 | 20.40 |      | 65.0  |         |
| 10154-CAC | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.39 | 69.50 | 16.72 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.74 | 72.40 | 18.41 |      | 150.0 |         |
|           |                                            | Z | 2.22 | 66.84 | 15.10 |      | 150.0 |         |
| 10155-CAC | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.72 | 68.46 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.92 | 70.13 | 17.55 |      | 150.0 |         |
|           |                                            | Z | 2.60 | 66.41 | 15.21 |      | 150.0 |         |
| 10156-CAC | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 1.98 | 69.33 | 16.15 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.45 | 73.51 | 18.44 |      | 150.0 |         |
|           |                                            | Z | 1.79 | 66.10 | 14.32 |      | 150.0 |         |
| 10157-CAC | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 2.23 | 67.73 | 14.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.54 | 70.30 | 16.41 |      | 150.0 |         |
|           |                                            | Z | 2.11 | 65.52 | 13.74 |      | 150.0 |         |
| 10158-CAC | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 2.88 | 68.64 | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.08 | 70.16 | 17.62 |      | 150.0 |         |
|           |                                            | Z | 2.76 | 66.63 | 15.41 |      | 150.0 |         |
| 10159-CAC | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 2.36 | 68.30 | 15.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.70 | 70.92 | 16.76 |      | 150.0 |         |
|           |                                            | Z | 2.21 | 65.90 | 14.00 |      | 150.0 |         |
| 10160-CAB | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.83 | 68.81 | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.09 | 70.73 | 17.69 |      | 150.0 |         |
|           |                                            | Z | 2.71 | 66.91 | 15.27 |      | 150.0 |         |
| 10161-CAB | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 3.02 | 67.54 | 16.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.16 | 68.68 | 16.91 |      | 150.0 |         |
|           |                                            | Z | 2.96 | 66.16 | 15.18 |      | 150.0 |         |
| 10162-CAB | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 3.13 | 67.64 | 16.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.27 | 68.74 | 16.97 |      | 150.0 |         |
|           |                                            | Z | 3.07 | 66.26 | 15.28 |      | 150.0 |         |
| 10166-CAC | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 3.72 | 69.56 | 19.03 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.68 | 69.96 | 19.60 |      | 150.0 |         |
|           |                                            | Z | 3.81 | 69.11 | 19.25 |      | 150.0 |         |
| 10167-CAC | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 4.69 | 72.65 | 19.56 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.55 | 72.98 | 20.12 |      | 150.0 |         |
|           |                                            | Z | 4.61 | 71.80 | 19.74 |      | 150.0 |         |

|           |                                            |   |       |        |       |      |       |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10168-CAC | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 5.27  | 75.16  | 21.00 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.05  | 75.30  | 21.47 |      | 150.0 |         |
|           |                                            | Z | 5.04  | 73.81  | 20.97 |      | 150.0 |         |
| 10169-CAB | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 3.22  | 69.88  | 19.14 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.06  | 69.92  | 19.68 |      | 150.0 |         |
|           |                                            | Z | 3.23  | 69.35  | 19.43 |      | 150.0 |         |
| 10170-CAB | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 4.79  | 76.94  | 21.86 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.33  | 76.63  | 22.33 |      | 150.0 |         |
|           |                                            | Z | 4.36  | 75.29  | 21.86 |      | 150.0 |         |
| 10171-AAB | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 3.75  | 71.79  | 18.69 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.50  | 72.08  | 19.40 |      | 150.0 |         |
|           |                                            | Z | 3.61  | 71.16  | 19.10 |      | 150.0 |         |
| 10172-CAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 7.59  | 85.78  | 25.41 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.66  | 91.52  | 28.76 |      | 65.0  |         |
|           |                                            | Z | 8.16  | 89.81  | 29.06 |      | 65.0  |         |
| 10173-CAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 11.44 | 89.26  | 24.78 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 21.26 | 103.86 | 30.59 |      | 65.0  |         |
|           |                                            | Z | 16.70 | 101.03 | 31.14 |      | 65.0  |         |
| 10174-CAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 8.79  | 84.03  | 22.55 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 16.93 | 98.20  | 28.28 |      | 65.0  |         |
|           |                                            | Z | 14.42 | 96.84  | 29.27 |      | 65.0  |         |
| 10175-CAC | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 3.18  | 69.49  | 18.85 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.03  | 69.58  | 19.42 |      | 150.0 |         |
|           |                                            | Z | 3.18  | 69.01  | 19.16 |      | 150.0 |         |
| 10176-CAC | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 4.80  | 76.97  | 21.87 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.34  | 76.66  | 22.34 |      | 150.0 |         |
|           |                                            | Z | 4.37  | 75.31  | 21.87 |      | 150.0 |         |
| 10177-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 3.21  | 69.69  | 18.97 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.05  | 69.76  | 19.52 |      | 150.0 |         |
|           |                                            | Z | 3.21  | 69.20  | 19.28 |      | 150.0 |         |
| 10178-CAC | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 4.72  | 76.63  | 21.70 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.28  | 76.37  | 22.19 |      | 150.0 |         |
|           |                                            | Z | 4.31  | 75.00  | 21.70 |      | 150.0 |         |
| 10179-CAC | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 4.19  | 74.10  | 20.08 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.89  | 74.25  | 20.74 |      | 150.0 |         |
|           |                                            | Z | 3.95  | 73.09  | 20.34 |      | 150.0 |         |
| 10180-CAC | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 3.73  | 71.68  | 18.62 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.49  | 71.99  | 19.34 |      | 150.0 |         |
|           |                                            | Z | 3.60  | 71.06  | 19.03 |      | 150.0 |         |
| 10181-CAB | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 3.20  | 69.67  | 18.96 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.05  | 69.74  | 19.51 |      | 150.0 |         |
|           |                                            | Z | 3.21  | 69.17  | 19.27 |      | 150.0 |         |
| 10182-CAB | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 4.71  | 76.60  | 21.69 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.27  | 76.34  | 22.18 |      | 150.0 |         |
|           |                                            | Z | 4.30  | 74.97  | 21.69 |      | 150.0 |         |
| 10183-AAA | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 3.72  | 71.66  | 18.61 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.49  | 71.96  | 19.32 |      | 150.0 |         |
|           |                                            | Z | 3.59  | 71.03  | 19.02 |      | 150.0 |         |