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Accreditation No.: **SCS 0108**

Client **Auden**

Certificate No: **EX3-3820\_Jun16**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3820**

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

Calibration date: **June 27, 2016**

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

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

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP            | SN: 104778       | 06-Apr-16 (No. 217-02288/02289)   | Apr-17                 |
| Power sensor NRP-Z91       | SN: 103244       | 06-Apr-16 (No. 217-02288)         | Apr-17                 |
| Power sensor NRP-Z91       | SN: 103245       | 06-Apr-16 (No. 217-02289)         | Apr-17                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 05-Apr-16 (No. 217-02293)         | Apr-17                 |
| Reference Probe ES3DV2     | SN: 3013         | 31-Dec-15 (No. ES3-3013_Dec15)    | Dec-16                 |
| DAE4                       | SN: 660          | 23-Dec-15 (No. DAE4-660_Dec15)    | Dec-16                 |
| Secondary Standards        | ID               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-16) | In house check: Jun-18 |
| Network Analyzer HP 8753E  | SN: US37390585   | 18-Oct-01 (in house check Oct-15) | In house check: Oct-16 |

|                |                               |                                          |                                                                                                    |
|----------------|-------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------|
| Calibrated by: | Name<br><b>Jeton Kastrati</b> | Function<br><b>Laboratory Technician</b> | Signature<br> |
| Approved by:   | Name<br><b>Katja Pokovic</b>  | Function<br><b>Technical Manager</b>     | Signature<br> |

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Issued: June 28, 2016



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### Glossary:

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

### Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Methods Applied and Interpretation of Parameters:

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

# Probe EX3DV4

## SN:3820

Manufactured: September 2, 2011  
Calibrated: June 27, 2016

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

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

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.43     | 0.48     | 0.49     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 101.2    | 97.3     | 95.3     |               |

### 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    | 148.5    | $\pm 3.8 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 134.3    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 135.9    |                           |

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 | 53.59    | 401.9    | 35.94                       | 14.39                               | 1.148                               | 4.979    | 0.834                 | 0.475                 | 1.005 |
| Y | 54.13    | 407.2    | 36.33                       | 11                                  | 1.06                                | 5.036    | 0.269                 | 0.444                 | 1.006 |
| Z | 61.28    | 473.5    | 37.6                        | 7.012                               | 1.239                               | 5.1      | 0.2                   | 0.481                 | 1.017 |

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: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 %  |

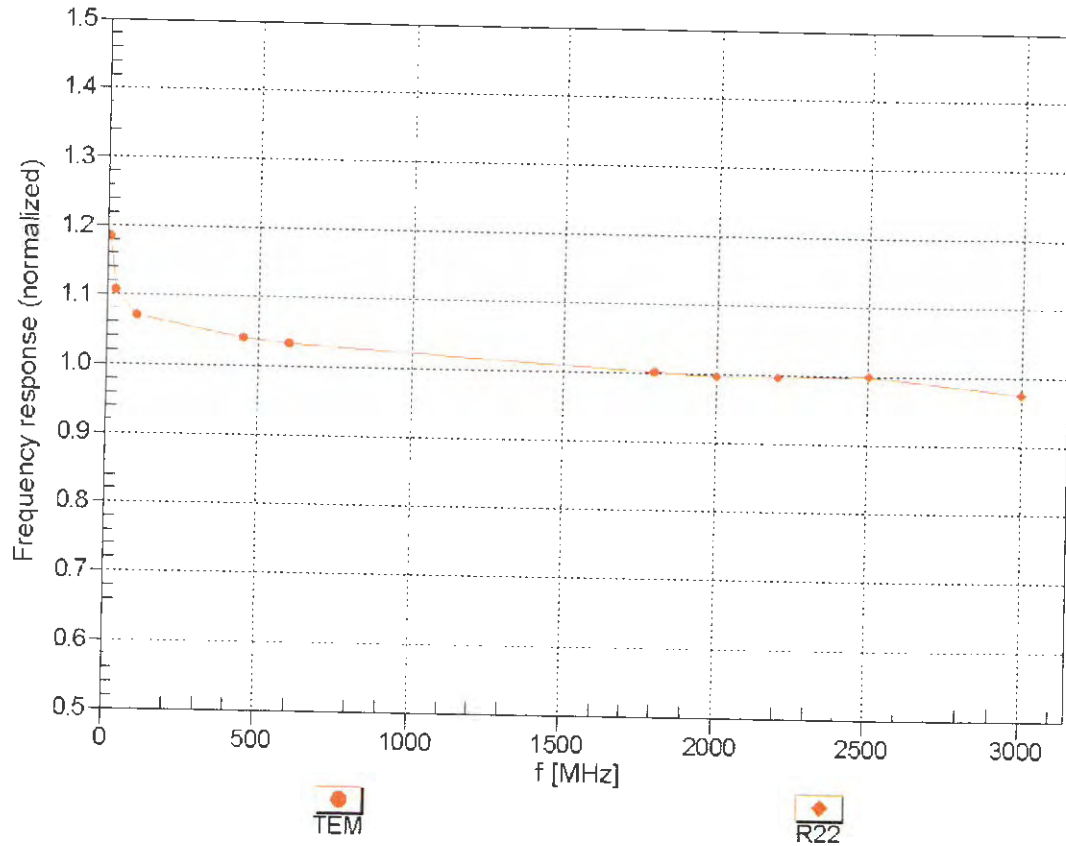
<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below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

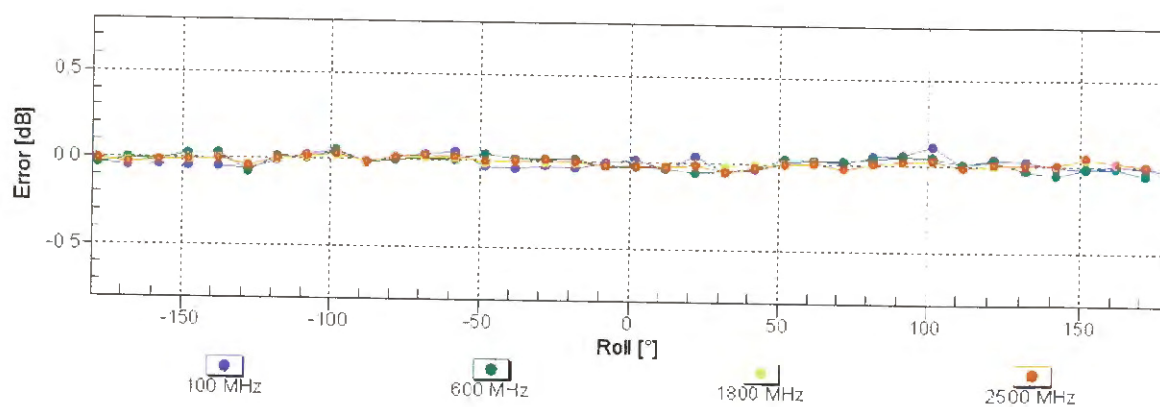
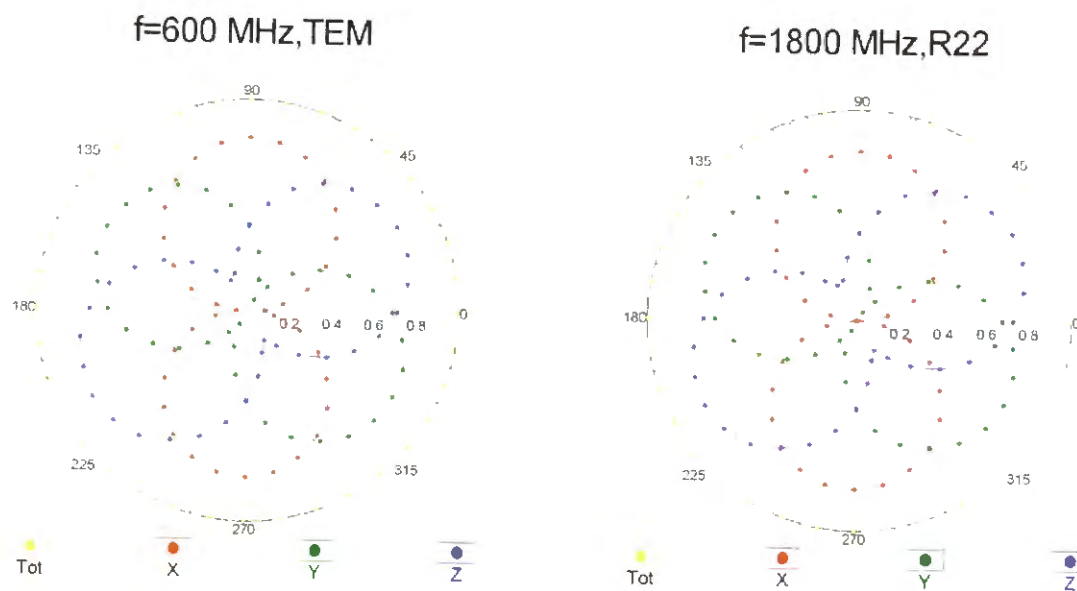
## Frequency Response of E-Field

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



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

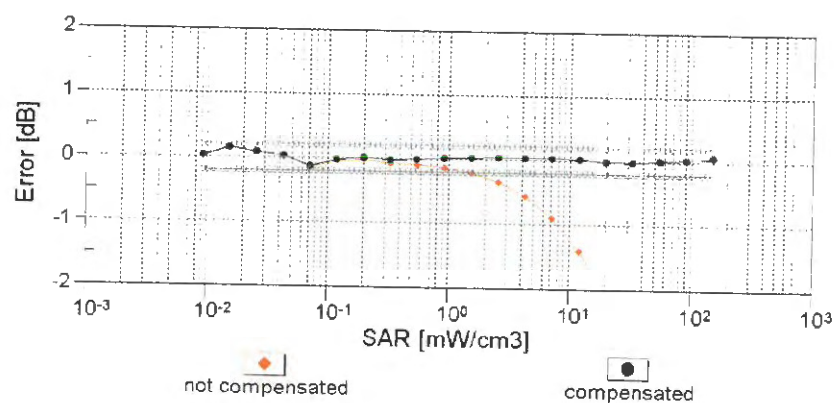
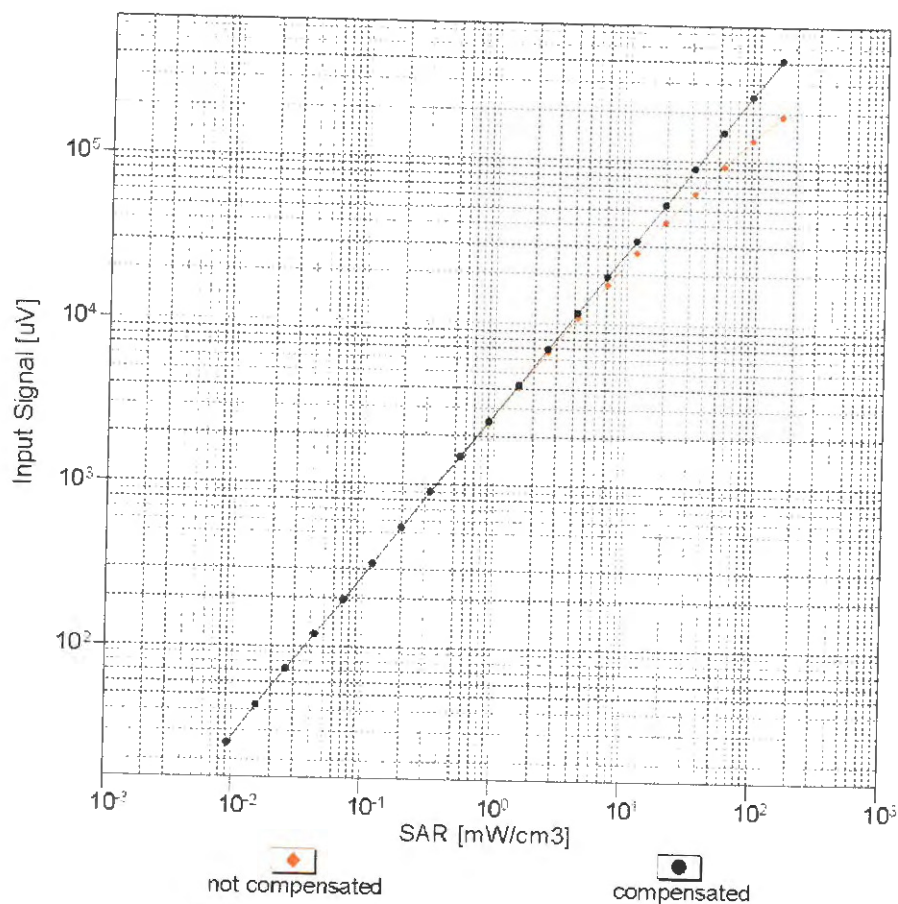
## Receiving Pattern ( $\phi$ ), $\theta = 0^\circ$



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

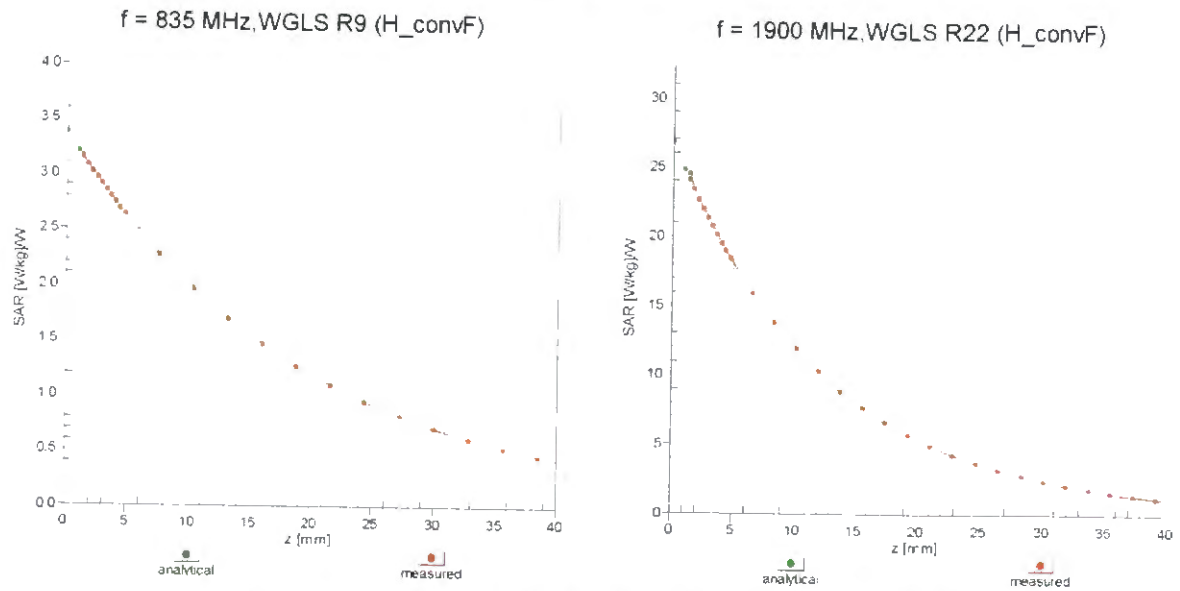
## Dynamic Range f(SAR<sub>head</sub>)

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



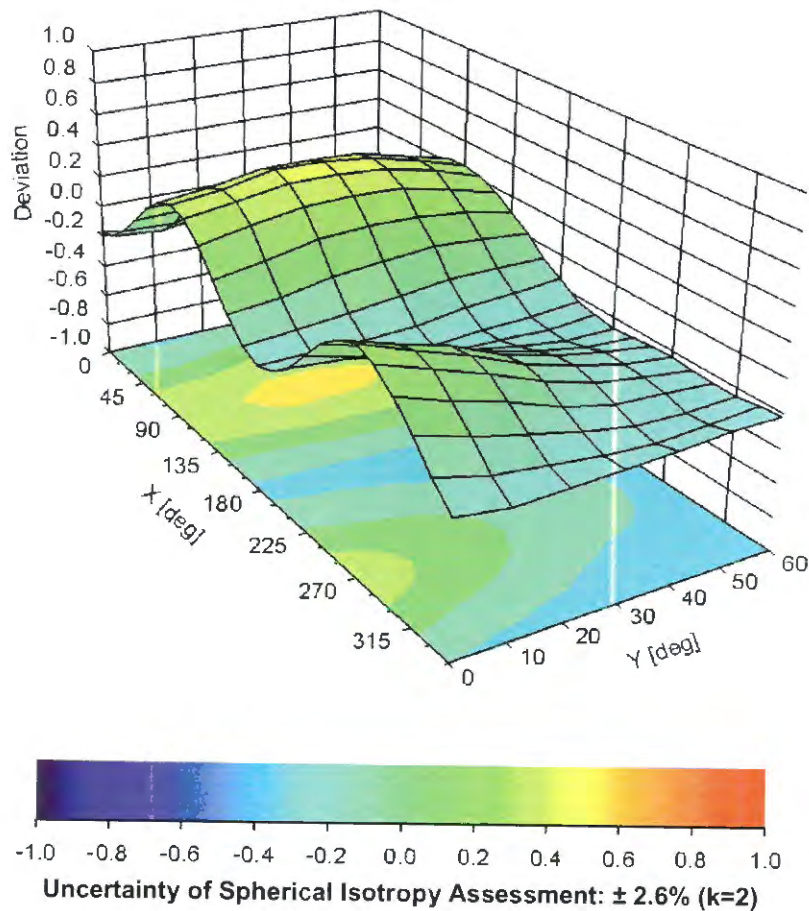
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

## 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 $\backslash$ $\mu$ 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 |         |

|           |                                               |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAC | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 3.21 | 69.72 | 18.99 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.06 | 69.78 | 19.54 |      | 150.0 |         |
|           |                                               | Z | 3.22 | 69.22 | 19.29 |      | 150.0 |         |
| 10185-CAC | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 4.74 | 76.69 | 21.73 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.29 | 76.42 | 22.22 |      | 150.0 |         |
|           |                                               | Z | 4.32 | 75.05 | 21.72 |      | 150.0 |         |
| 10186-AAC | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 3.74 | 71.73 | 18.65 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.51 | 72.04 | 19.36 |      | 150.0 |         |
|           |                                               | Z | 3.61 | 71.10 | 19.06 |      | 150.0 |         |
| 10187-CAC | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 3.22 | 69.76 | 19.05 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.07 | 69.83 | 19.59 |      | 150.0 |         |
|           |                                               | Z | 3.22 | 69.24 | 19.33 |      | 150.0 |         |
| 10188-CAC | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 4.95 | 77.59 | 22.21 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.45 | 77.20 | 22.64 |      | 150.0 |         |
|           |                                               | Z | 4.48 | 75.81 | 22.15 |      | 150.0 |         |
| 10189-AAC | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 3.84 | 72.24 | 18.96 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.59 | 72.52 | 19.66 |      | 150.0 |         |
|           |                                               | Z | 3.69 | 71.56 | 19.35 |      | 150.0 |         |
| 10193-CAB | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.60 | 66.63 | 16.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.65 | 66.97 | 16.59 |      | 150.0 |         |
|           |                                               | Z | 4.65 | 66.08 | 15.87 |      | 150.0 |         |
| 10194-CAB | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.79 | 66.97 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.84 | 67.32 | 16.70 |      | 150.0 |         |
|           |                                               | Z | 4.84 | 66.44 | 15.98 |      | 150.0 |         |
| 10195-CAB | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.83 | 66.99 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.88 | 67.33 | 16.71 |      | 150.0 |         |
|           |                                               | Z | 4.88 | 66.46 | 16.00 |      | 150.0 |         |
| 10196-CAB | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.61 | 66.71 | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.66 | 67.06 | 16.62 |      | 150.0 |         |
|           |                                               | Z | 4.67 | 66.17 | 15.90 |      | 150.0 |         |
| 10197-CAB | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.80 | 66.99 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.85 | 67.34 | 16.71 |      | 150.0 |         |
|           |                                               | Z | 4.86 | 66.46 | 15.99 |      | 150.0 |         |
| 10198-CAB | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.83 | 67.01 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.88 | 67.35 | 16.72 |      | 150.0 |         |
|           |                                               | Z | 4.89 | 66.47 | 16.01 |      | 150.0 |         |
| 10219-CAB | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.56 | 66.73 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.61 | 67.09 | 16.59 |      | 150.0 |         |
|           |                                               | Z | 4.61 | 66.17 | 15.85 |      | 150.0 |         |
| 10220-CAB | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.80 | 66.97 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.85 | 67.32 | 16.71 |      | 150.0 |         |
|           |                                               | Z | 4.86 | 66.45 | 15.99 |      | 150.0 |         |
| 10221-CAB | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.84 | 66.94 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.89 | 67.27 | 16.71 |      | 150.0 |         |
|           |                                               | Z | 4.90 | 66.42 | 16.00 |      | 150.0 |         |
| 10222-CAB | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 5.15 | 67.16 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.20 | 67.47 | 16.79 |      | 150.0 |         |
|           |                                               | Z | 5.21 | 66.73 | 16.15 |      | 150.0 |         |

|           |                                           |   |       |        |       |      |       |         |
|-----------|-------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10223-CAB | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.47  | 67.34  | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.51  | 67.63  | 16.88 |      | 150.0 |         |
|           |                                           | Z | 5.59  | 67.12  | 16.38 |      | 150.0 |         |
| 10224-CAB | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.20  | 67.26  | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.25  | 67.57  | 16.77 |      | 150.0 |         |
|           |                                           | Z | 5.25  | 66.82  | 16.13 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.88  | 66.22  | 15.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.97  | 67.09  | 16.26 |      | 150.0 |         |
|           |                                           | Z | 2.87  | 65.11  | 14.86 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 12.20 | 90.44  | 25.26 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 23.20 | 105.60 | 31.19 |      | 65.0  |         |
|           |                                           | Z | 17.85 | 102.44 | 31.67 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 10.85 | 87.30  | 23.69 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 19.71 | 100.90 | 29.16 |      | 65.0  |         |
|           |                                           | Z | 17.17 | 100.20 | 30.40 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 9.09  | 89.40  | 26.73 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 13.31 | 100.40 | 31.73 |      | 65.0  |         |
|           |                                           | Z | 9.00  | 92.29  | 30.06 |      | 65.0  |         |
| 10229-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 11.53 | 89.36  | 24.82 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 21.40 | 103.96 | 30.63 |      | 65.0  |         |
|           |                                           | Z | 16.83 | 101.14 | 31.18 |      | 65.0  |         |
| 10230-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 10.28 | 86.36  | 23.30 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 18.29 | 99.48  | 28.66 |      | 65.0  |         |
|           |                                           | Z | 16.16 | 98.96  | 29.94 |      | 65.0  |         |
| 10231-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 8.68  | 88.47  | 26.33 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 12.60 | 99.20  | 31.27 |      | 65.0  |         |
|           |                                           | Z | 8.68  | 91.47  | 29.70 |      | 65.0  |         |
| 10232-CAB | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 11.51 | 89.34  | 24.82 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 21.38 | 103.95 | 30.62 |      | 65.0  |         |
|           |                                           | Z | 16.80 | 101.12 | 31.17 |      | 65.0  |         |
| 10233-CAB | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 10.26 | 86.35  | 23.29 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 18.26 | 99.47  | 28.66 |      | 65.0  |         |
|           |                                           | Z | 16.12 | 98.94  | 29.93 |      | 65.0  |         |
| 10234-CAB | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 8.32  | 87.56  | 25.91 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 12.01 | 98.07  | 30.79 |      | 65.0  |         |
|           |                                           | Z | 8.43  | 90.73  | 29.33 |      | 65.0  |         |
| 10235-CAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 11.51 | 89.37  | 24.82 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 21.43 | 104.01 | 30.64 |      | 65.0  |         |
|           |                                           | Z | 16.80 | 101.15 | 31.18 |      | 65.0  |         |
| 10236-CAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 10.35 | 86.45  | 23.32 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 18.53 | 99.69  | 28.72 |      | 65.0  |         |
|           |                                           | Z | 16.34 | 99.16  | 29.99 |      | 65.0  |         |
| 10237-CAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 8.69  | 88.52  | 26.35 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 12.66 | 99.34  | 31.31 |      | 65.0  |         |
|           |                                           | Z | 8.69  | 91.53  | 29.72 |      | 65.0  |         |
| 10238-CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 11.48 | 89.32  | 24.81 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 21.34 | 103.94 | 30.62 |      | 65.0  |         |
|           |                                           | Z | 16.76 | 101.10 | 31.16 |      | 65.0  |         |

|           |                                            |   |       |       |       |      |      |         |
|-----------|--------------------------------------------|---|-------|-------|-------|------|------|---------|
| 10239-CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 10.24 | 86.32 | 23.28 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 18.22 | 99.45 | 28.65 |      | 65.0 |         |
|           |                                            | Z | 16.08 | 98.91 | 29.93 |      | 65.0 |         |
| 10240-CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 8.66  | 88.47 | 26.33 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 12.61 | 99.27 | 31.29 |      | 65.0 |         |
|           |                                            | Z | 8.66  | 91.48 | 29.70 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 8.17  | 79.49 | 24.14 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.14  | 80.81 | 25.43 |      | 65.0 |         |
|           |                                            | Z | 7.67  | 78.70 | 25.18 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 7.49  | 77.70 | 23.32 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.96  | 80.31 | 25.14 |      | 65.0 |         |
|           |                                            | Z | 7.37  | 77.74 | 24.67 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 6.07  | 74.61 | 22.85 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.41  | 76.91 | 24.61 |      | 65.0 |         |
|           |                                            | Z | 6.07  | 74.44 | 23.97 |      | 65.0 |         |
| 10244-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 5.57  | 73.44 | 17.36 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.50  | 77.42 | 19.74 |      | 65.0 |         |
|           |                                            | Z | 6.94  | 79.37 | 21.90 |      | 65.0 |         |
| 10245-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 5.52  | 73.06 | 17.16 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.35  | 76.78 | 19.43 |      | 65.0 |         |
|           |                                            | Z | 6.86  | 78.86 | 21.63 |      | 65.0 |         |
| 10246-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 5.05  | 75.36 | 18.38 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.15  | 82.72 | 22.03 |      | 65.0 |         |
|           |                                            | Z | 5.05  | 76.83 | 20.45 |      | 65.0 |         |
| 10247-CAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 5.02  | 72.57 | 17.90 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.55  | 75.48 | 19.82 |      | 65.0 |         |
|           |                                            | Z | 4.85  | 72.71 | 19.13 |      | 65.0 |         |
| 10248-CAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 5.06  | 72.20 | 17.73 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.52  | 74.84 | 19.52 |      | 65.0 |         |
|           |                                            | Z | 4.92  | 72.36 | 18.93 |      | 65.0 |         |
| 10249-CAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 5.95  | 77.90 | 20.16 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.13  | 85.02 | 23.67 |      | 65.0 |         |
|           |                                            | Z | 5.52  | 77.92 | 21.45 |      | 65.0 |         |
| 10250-CAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 5.90  | 74.87 | 20.31 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.23  | 77.04 | 21.89 |      | 65.0 |         |
|           |                                            | Z | 5.41  | 73.70 | 20.69 |      | 65.0 |         |
| 10251-CAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 5.69  | 73.01 | 19.19 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.94  | 74.85 | 20.61 |      | 65.0 |         |
|           |                                            | Z | 5.33  | 72.15 | 19.66 |      | 65.0 |         |
| 10252-CAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 6.38  | 78.08 | 21.03 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.67  | 82.96 | 23.70 |      | 65.0 |         |
|           |                                            | Z | 5.74  | 77.07 | 21.63 |      | 65.0 |         |
| 10253-CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 5.79  | 72.35 | 19.22 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 5.93  | 73.72 | 20.41 |      | 65.0 |         |
|           |                                            | Z | 5.43  | 71.38 | 19.51 |      | 65.0 |         |
| 10254-CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 6.14  | 73.24 | 19.93 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.26  | 74.52 | 21.06 |      | 65.0 |         |
|           |                                            | Z | 5.72  | 72.08 | 20.13 |      | 65.0 |         |

|           |                                             |   |      |       |       |      |      |         |
|-----------|---------------------------------------------|---|------|-------|-------|------|------|---------|
| 10255-CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 6.17 | 75.63 | 20.29 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.74 | 78.48 | 22.14 |      | 65.0 |         |
|           |                                             | Z | 5.66 | 74.60 | 20.69 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 4.49 | 70.22 | 15.02 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.27 | 74.00 | 17.36 |      | 65.0 |         |
|           |                                             | Z | 6.50 | 78.47 | 20.78 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 4.45 | 69.76 | 14.73 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.11 | 73.14 | 16.90 |      | 65.0 |         |
|           |                                             | Z | 6.35 | 77.62 | 20.33 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 4.06 | 71.93 | 16.23 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.53 | 78.22 | 19.57 |      | 65.0 |         |
|           |                                             | Z | 4.44 | 74.89 | 19.09 |      | 65.0 |         |
| 10259-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 5.36 | 73.40 | 18.76 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.82 | 76.04 | 20.55 |      | 65.0 |         |
|           |                                             | Z | 5.07 | 73.02 | 19.65 |      | 65.0 |         |
| 10260-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 5.42 | 73.25 | 18.71 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.84 | 75.71 | 20.42 |      | 65.0 |         |
|           |                                             | Z | 5.14 | 72.89 | 19.60 |      | 65.0 |         |
| 10261-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 5.88 | 77.32 | 20.30 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.40 | 83.00 | 23.29 |      | 65.0 |         |
|           |                                             | Z | 5.39 | 76.83 | 21.26 |      | 65.0 |         |
| 10262-CAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 5.89 | 74.82 | 20.27 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.22 | 77.00 | 21.85 |      | 65.0 |         |
|           |                                             | Z | 5.41 | 73.67 | 20.66 |      | 65.0 |         |
| 10263-CAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 5.68 | 73.00 | 19.19 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 5.93 | 74.83 | 20.61 |      | 65.0 |         |
|           |                                             | Z | 5.33 | 72.14 | 19.66 |      | 65.0 |         |
| 10264-CAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 6.33 | 77.92 | 20.95 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.59 | 82.77 | 23.60 |      | 65.0 |         |
|           |                                             | Z | 5.71 | 76.94 | 21.56 |      | 65.0 |         |
| 10265-CAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 5.91 | 72.87 | 19.43 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.09 | 74.39 | 20.69 |      | 65.0 |         |
|           |                                             | Z | 5.56 | 71.98 | 19.75 |      | 65.0 |         |
| 10266-CAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 6.28 | 73.80 | 20.20 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.43 | 75.18 | 21.38 |      | 65.0 |         |
|           |                                             | Z | 5.84 | 72.66 | 20.39 |      | 65.0 |         |
| 10267-CAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 6.42 | 76.12 | 20.26 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.14 | 79.30 | 22.22 |      | 65.0 |         |
|           |                                             | Z | 5.94 | 75.35 | 20.77 |      | 65.0 |         |
| 10268-CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 6.57 | 72.98 | 19.88 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.64 | 73.99 | 20.85 |      | 65.0 |         |
|           |                                             | Z | 6.18 | 71.97 | 20.03 |      | 65.0 |         |
| 10269-CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 6.55 | 72.62 | 19.79 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.59 | 73.51 | 20.70 |      | 65.0 |         |
|           |                                             | Z | 6.15 | 71.57 | 19.91 |      | 65.0 |         |
| 10270-CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 6.47 | 74.25 | 19.67 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.78 | 76.11 | 21.03 |      | 65.0 |         |
|           |                                             | Z | 6.05 | 73.48 | 20.03 |      | 65.0 |         |

|           |                                                                    |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.64   | 66.51  | 15.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.77   | 67.69  | 16.31 |      | 150.0 |         |
|           |                                                                    | Z | 2.58   | 65.09  | 14.55 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.67   | 68.21  | 15.87 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.04   | 72.26  | 18.22 |      | 150.0 |         |
|           |                                                                    | Z | 1.52   | 65.18  | 13.96 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 2.71   | 62.64  | 8.38  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 2.82   | 63.41  | 9.03  |      | 50.0  |         |
|           |                                                                    | Z | 3.45   | 66.25  | 11.57 |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 4.78   | 71.25  | 15.25 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 7.00   | 77.90  | 18.58 |      | 50.0  |         |
|           |                                                                    | Z | 10.55  | 86.47  | 23.24 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 4.91   | 71.52  | 15.41 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 7.20   | 78.20  | 18.73 |      | 50.0  |         |
|           |                                                                    | Z | 10.71  | 86.55  | 23.29 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 1.66   | 70.15  | 15.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 3.07   | 79.82  | 19.45 |      | 150.0 |         |
|           |                                                                    | Z | 1.35   | 65.52  | 12.90 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 0.93   | 66.93  | 13.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.74   | 77.07  | 18.51 |      | 150.0 |         |
|           |                                                                    | Z | 0.82   | 63.14  | 11.46 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 1.25   | 72.13  | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 7.02   | 99.56  | 26.47 |      | 150.0 |         |
|           |                                                                    | Z | 0.86   | 64.56  | 12.55 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 2.16   | 80.46  | 20.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 142.85 | 37.68 |      | 150.0 |         |
|           |                                                                    | Z | 0.99   | 66.39  | 13.90 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 6.98   | 78.27  | 20.94 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 9.68   | 85.51  | 24.45 |      | 50.0  |         |
|           |                                                                    | Z | 8.07   | 82.82  | 24.49 |      | 50.0  |         |
| 10297-AAA | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 2.87   | 70.04  | 16.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 3.24   | 72.58  | 18.30 |      | 150.0 |         |
|           |                                                                    | Z | 2.66   | 67.61  | 15.36 |      | 150.0 |         |
| 10298-AAB | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 1.75   | 68.79  | 15.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.37   | 74.11  | 17.84 |      | 150.0 |         |
|           |                                                                    | Z | 1.56   | 65.42  | 13.36 |      | 150.0 |         |
| 10299-AAB | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 2.97   | 70.66  | 15.07 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 3.69   | 74.89  | 17.32 |      | 150.0 |         |
|           |                                                                    | Z | 3.50   | 73.22  | 17.37 |      | 150.0 |         |
| 10300-AAB | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 2.22   | 65.96  | 12.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.36   | 67.63  | 13.36 |      | 150.0 |         |
|           |                                                                    | Z | 2.62   | 67.98  | 14.25 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 4.83   | 65.40  | 17.53 | 4.17 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 4.93   | 65.87  | 17.92 |      | 50.0  |         |
|           |                                                                    | Z | 5.01   | 65.02  | 17.25 |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 5.25   | 65.75  | 18.09 | 4.96 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.44   | 66.62  | 18.71 |      | 50.0  |         |
|           |                                                                    | Z | 5.55   | 65.86  | 18.09 |      | 50.0  |         |

|           |                                                                     |   |      |       |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 5.01 | 65.43 | 17.96 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 5.19 | 66.33 | 18.61 |       | 50.0  |         |
|           |                                                                     | Z | 5.32 | 65.61 | 18.00 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.80 | 65.28 | 17.45 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 4.98 | 66.11 | 18.04 |       | 50.0  |         |
|           |                                                                     | Z | 5.07 | 65.28 | 17.37 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 4.52 | 67.36 | 19.68 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.86 | 69.35 | 20.97 |       | 35.0  |         |
|           |                                                                     | Z | 4.96 | 68.30 | 20.25 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 4.80 | 66.24 | 19.14 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.04 | 67.64 | 20.13 |       | 35.0  |         |
|           |                                                                     | Z | 5.19 | 67.01 | 19.62 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 4.72 | 66.53 | 19.17 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.98 | 68.03 | 20.21 |       | 35.0  |         |
|           |                                                                     | Z | 5.13 | 67.35 | 19.66 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 4.69 | 66.69 | 19.29 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 4.96 | 68.27 | 20.37 |       | 35.0  |         |
|           |                                                                     | Z | 5.09 | 67.49 | 19.76 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 4.87 | 66.48 | 19.28 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.12 | 67.94 | 20.31 |       | 35.0  |         |
|           |                                                                     | Z | 5.28 | 67.31 | 19.78 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 4.76 | 66.33 | 19.12 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.00 | 67.77 | 20.13 |       | 35.0  |         |
|           |                                                                     | Z | 5.15 | 67.10 | 19.59 |       | 35.0  |         |
| 10311-AAA | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 3.24 | 69.36 | 16.48 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 3.62 | 71.63 | 17.79 |       | 150.0 |         |
|           |                                                                     | Z | 2.98 | 67.05 | 15.11 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 3.22 | 70.19 | 14.64 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 4.79 | 77.43 | 18.23 |       | 70.0  |         |
|           |                                                                     | Z | 3.34 | 73.51 | 17.67 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 4.15 | 74.95 | 19.25 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 8.27 | 87.72 | 24.54 |       | 30.0  |         |
|           |                                                                     | Z | 4.83 | 79.76 | 22.77 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.10 | 63.80 | 15.26 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.15 | 65.64 | 16.96 |       | 150.0 |         |
|           |                                                                     | Z | 1.07 | 62.00 | 13.79 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.64 | 66.58 | 16.26 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.70 | 66.99 | 16.68 |       | 150.0 |         |
|           |                                                                     | Z | 4.72 | 66.18 | 16.03 |       | 150.0 |         |
| 10317-AAB | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.64 | 66.58 | 16.26 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.70 | 66.99 | 16.68 |       | 150.0 |         |
|           |                                                                     | Z | 5.87 | 75.33 | 23.62 |       | 150.0 |         |
| 10400-AAC | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.78 | 67.01 | 16.33 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.84 | 67.38 | 16.70 |       | 150.0 |         |
|           |                                                                     | Z | 4.85 | 66.49 | 15.97 |       | 150.0 |         |
| 10401-AAC | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.45 | 67.13 | 16.44 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.49 | 67.42 | 16.76 |       | 150.0 |         |
|           |                                                                     | Z | 5.50 | 66.70 | 16.15 |       | 150.0 |         |

|           |                                                                                |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAC | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                            | X | 5.73   | 67.57  | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.77   | 67.84  | 16.81 |      | 150.0 |         |
|           |                                                                                | Z | 5.79   | 67.21  | 16.26 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                     | X | 1.66   | 70.15  | 15.14 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                | Y | 3.07   | 79.82  | 19.45 |      | 115.0 |         |
|           |                                                                                | Z | 1.35   | 65.52  | 12.90 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                     | X | 1.66   | 70.15  | 15.14 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                | Y | 3.07   | 79.82  | 19.45 |      | 115.0 |         |
|           |                                                                                | Z | 1.35   | 65.52  | 12.90 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                           | X | 91.18  | 119.62 | 29.99 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                | Y | 100.00 | 127.97 | 33.29 |      | 100.0 |         |
|           |                                                                                | Z | 40.06  | 115.65 | 31.34 |      | 100.0 |         |
| 10410-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                 | X | 0.79   | 60.00  | 4.21  | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                                | Y | 0.70   | 60.00  | 4.19  |      | 80.0  |         |
|           |                                                                                | Z | 0.91   | 61.02  | 6.31  |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                      | X | 1.03   | 63.10  | 14.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 1.07   | 64.77  | 16.41 |      | 150.0 |         |
|           |                                                                                | Z | 1.01   | 61.45  | 13.30 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                  | X | 4.61   | 66.67  | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.65   | 67.01  | 16.64 |      | 150.0 |         |
|           |                                                                                | Z | 4.65   | 66.11  | 15.91 |      | 150.0 |         |
| 10417-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                      | X | 4.61   | 66.67  | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.65   | 67.01  | 16.64 |      | 150.0 |         |
|           |                                                                                | Z | 4.65   | 66.11  | 15.91 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)  | X | 4.59   | 66.82  | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.64   | 67.18  | 16.67 |      | 150.0 |         |
|           |                                                                                | Z | 4.63   | 66.22  | 15.90 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble) | X | 4.62   | 66.77  | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.66   | 67.13  | 16.67 |      | 150.0 |         |
|           |                                                                                | Z | 4.66   | 66.19  | 15.91 |      | 150.0 |         |
| 10422-AAA | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                   | X | 4.74   | 66.78  | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.78   | 67.11  | 16.67 |      | 150.0 |         |
|           |                                                                                | Z | 4.79   | 66.23  | 15.95 |      | 150.0 |         |
| 10423-AAA | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                | X | 4.92   | 67.11  | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.97   | 67.46  | 16.79 |      | 150.0 |         |
|           |                                                                                | Z | 4.99   | 66.60  | 16.09 |      | 150.0 |         |
| 10424-AAA | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                | X | 4.84   | 67.06  | 16.41 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.89   | 67.41  | 16.77 |      | 150.0 |         |
|           |                                                                                | Z | 4.89   | 66.53  | 16.04 |      | 150.0 |         |
| 10425-AAA | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                    | X | 5.42   | 67.38  | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.47   | 67.68  | 16.89 |      | 150.0 |         |
|           |                                                                                | Z | 5.48   | 66.94  | 16.26 |      | 150.0 |         |
| 10426-AAA | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                  | X | 5.43   | 67.38  | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.47   | 67.69  | 16.89 |      | 150.0 |         |
|           |                                                                                | Z | 5.49   | 66.98  | 16.28 |      | 150.0 |         |

|           |                                                                |   |      |       |       |      |       |         |
|-----------|----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10427-AAA | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.44 | 67.37 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.49 | 67.67 | 16.87 |      | 150.0 |         |
|           |                                                                | Z | 5.51 | 66.98 | 16.28 |      | 150.0 |         |
| 10430-AAA | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.44 | 71.23 | 18.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.53 | 71.79 | 19.05 |      | 150.0 |         |
|           |                                                                | Z | 4.24 | 69.11 | 17.48 |      | 150.0 |         |
| 10431-AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.31 | 67.24 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.38 | 67.73 | 16.77 |      | 150.0 |         |
|           |                                                                | Z | 4.36 | 66.51 | 15.88 |      | 150.0 |         |
| 10432-AAA | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.61 | 67.11 | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.66 | 67.51 | 16.76 |      | 150.0 |         |
|           |                                                                | Z | 4.66 | 66.50 | 15.97 |      | 150.0 |         |
| 10433-AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.85 | 67.10 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.90 | 67.45 | 16.79 |      | 150.0 |         |
|           |                                                                | Z | 4.91 | 66.57 | 16.07 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.59 | 72.22 | 18.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.72 | 72.95 | 19.19 |      | 150.0 |         |
|           |                                                                | Z | 4.29 | 69.66 | 17.40 |      | 150.0 |         |
| 10435-AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 0.80 | 60.00 | 4.20  | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 0.70 | 60.00 | 4.18  |      | 80.0  |         |
|           |                                                                | Z | 0.91 | 60.96 | 6.26  |      | 80.0  |         |
| 10447-AAA | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.62 | 67.31 | 15.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.73 | 68.10 | 16.39 |      | 150.0 |         |
|           |                                                                | Z | 3.63 | 66.28 | 15.23 |      | 150.0 |         |
| 10448-AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 4.14 | 67.01 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.21 | 67.52 | 16.65 |      | 150.0 |         |
|           |                                                                | Z | 4.18 | 66.26 | 15.72 |      | 150.0 |         |
| 10449-AAA | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.41 | 66.94 | 16.27 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.47 | 67.37 | 16.68 |      | 150.0 |         |
|           |                                                                | Z | 4.45 | 66.30 | 15.85 |      | 150.0 |         |
| 10450-AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.60 | 66.87 | 16.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.65 | 67.24 | 16.66 |      | 150.0 |         |
|           |                                                                | Z | 4.64 | 66.29 | 15.90 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.53 | 67.56 | 15.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.68 | 68.51 | 16.16 |      | 150.0 |         |
|           |                                                                | Z | 3.54 | 66.45 | 14.93 |      | 150.0 |         |
| 10456-AAA | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.28 | 67.94 | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.32 | 68.18 | 16.98 |      | 150.0 |         |
|           |                                                                | Z | 6.35 | 67.64 | 16.50 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.83 | 65.30 | 16.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.86 | 65.63 | 16.38 |      | 150.0 |         |
|           |                                                                | Z | 3.85 | 64.75 | 15.60 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 3.35 | 66.84 | 14.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.49 | 67.77 | 15.60 |      | 150.0 |         |
|           |                                                                | Z | 3.38 | 65.79 | 14.47 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 4.41 | 64.94 | 15.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.61 | 65.89 | 16.34 |      | 150.0 |         |
|           |                                                                | Z | 4.53 | 64.40 | 15.42 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 0.94   | 68.59  | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 1.48   | 78.27  | 21.72 |      | 150.0 |         |
|           |                                                                   | Z | 0.79   | 63.73  | 13.28 |      | 150.0 |         |
| 10461-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 5.33   | 81.78  | 19.63 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 129.32 | 33.85 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 135.97 | 37.68 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.41   | 62.43  | 9.49  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 32.54  | 96.24  | 21.16 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 119.77 | 29.87 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.17   | 60.42  | 8.07  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 2.98   | 70.70  | 13.11 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 115.85 | 28.02 |      | 80.0  |         |
| 10464-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.01   | 77.58  | 17.68 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 126.69 | 32.46 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 134.28 | 36.71 |      | 80.0  |         |
| 10465-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.34   | 61.91  | 9.17  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 10.61  | 84.58  | 18.04 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 119.05 | 29.52 |      | 80.0  |         |
| 10466-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.14   | 60.13  | 7.88  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 2.28   | 68.07  | 12.06 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 115.12 | 27.68 |      | 80.0  |         |
| 10467-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.25   | 78.38  | 17.99 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 127.00 | 32.60 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 134.55 | 36.83 |      | 80.0  |         |
| 10468-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.35   | 62.02  | 9.25  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 13.43  | 87.05  | 18.74 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 119.27 | 29.62 |      | 80.0  |         |
| 10469-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.14   | 60.13  | 7.88  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 2.30   | 68.16  | 12.09 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 115.16 | 27.69 |      | 80.0  |         |
| 10470-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 4.24   | 78.37  | 17.98 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 127.04 | 32.60 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 134.61 | 36.85 |      | 80.0  |         |
| 10471-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 1.35   | 61.99  | 9.22  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 13.13  | 86.77  | 18.65 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 119.23 | 29.60 |      | 80.0  |         |
| 10472-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 1.13   | 60.10  | 7.85  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 2.27   | 68.04  | 12.04 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 115.11 | 27.66 |      | 80.0  |         |
| 10473-AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 4.23   | 78.32  | 17.96 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 127.00 | 32.59 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 134.58 | 36.83 |      | 80.0  |         |
| 10474-AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 1.34   | 61.97  | 9.21  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 12.83  | 86.55  | 18.59 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 119.25 | 29.60 |      | 80.0  |         |
| 10475-AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 1.13   | 60.10  | 7.85  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 2.26   | 67.99  | 12.02 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 115.13 | 27.67 |      | 80.0  |         |

|           |                                                                     |   |        |        |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10477-AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 1.33   | 61.86  | 9.13  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 10.69  | 84.62  | 18.03 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 119.05 | 29.50 |      | 80.0 |         |
| 10478-AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 1.13   | 60.07  | 7.82  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 2.23   | 67.84  | 11.95 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 115.07 | 27.64 |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 1.01   | 60.00  | 6.83  | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 0.91   | 60.00  | 7.34  |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 111.62 | 25.63 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.32   | 60.00  | 6.16  | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.20   | 60.00  | 6.41  |      | 80.0 |         |
|           |                                                                     | Z | 1.57   | 62.08  | 9.17  |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.36   | 60.00  | 5.93  | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 1.24   | 60.00  | 6.15  |      | 80.0 |         |
|           |                                                                     | Z | 1.30   | 60.07  | 7.86  |      | 80.0 |         |
| 10482-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 2.23   | 67.51  | 14.06 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 6.06   | 82.43  | 20.48 |      | 80.0 |         |
|           |                                                                     | Z | 2.43   | 68.81  | 15.73 |      | 80.0 |         |
| 10483-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.89   | 67.22  | 13.57 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 6.15   | 78.40  | 18.64 |      | 80.0 |         |
|           |                                                                     | Z | 8.18   | 83.76  | 21.96 |      | 80.0 |         |
| 10484-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.85   | 66.82  | 13.42 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.46   | 76.60  | 18.03 |      | 80.0 |         |
|           |                                                                     | Z | 7.29   | 81.75  | 21.28 |      | 80.0 |         |
| 10485-AAA | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 2.77   | 70.22  | 16.16 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 6.11   | 83.48  | 21.98 |      | 80.0 |         |
|           |                                                                     | Z | 2.72   | 69.97  | 16.95 |      | 80.0 |         |
| 10486-AAA | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.74   | 66.95  | 14.50 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.91   | 73.07  | 17.76 |      | 80.0 |         |
|           |                                                                     | Z | 2.83   | 67.25  | 15.49 |      | 80.0 |         |
| 10487-AAA | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.77   | 66.72  | 14.41 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.81   | 72.31  | 17.46 |      | 80.0 |         |
|           |                                                                     | Z | 2.87   | 67.05  | 15.40 |      | 80.0 |         |
| 10488-AAA | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.28   | 70.79  | 17.17 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.03   | 78.88  | 21.13 |      | 80.0 |         |
|           |                                                                     | Z | 3.14   | 69.98  | 17.44 |      | 80.0 |         |
| 10489-AAA | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.23   | 67.82  | 16.16 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.83   | 71.44  | 18.39 |      | 80.0 |         |
|           |                                                                     | Z | 3.17   | 67.19  | 16.43 |      | 80.0 |         |
| 10490-AAA | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.34   | 67.72  | 16.16 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.88   | 71.01  | 18.23 |      | 80.0 |         |
|           |                                                                     | Z | 3.28   | 67.10  | 16.42 |      | 80.0 |         |
| 10491-AAA | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.56   | 69.76  | 16.97 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.56   | 74.79  | 19.73 |      | 80.0 |         |
|           |                                                                     | Z | 3.44   | 69.04  | 17.15 |      | 80.0 |         |
| 10492-AAA | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.63   | 67.47  | 16.38 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.01   | 69.85  | 18.01 |      | 80.0 |         |
|           |                                                                     | Z | 3.57   | 66.82  | 16.51 |      | 80.0 |         |

|           |                                                                      |   |      |       |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAA | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.71 | 67.38 | 16.37 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.06 | 69.59 | 17.92 |      | 80.0 |         |
|           |                                                                      | Z | 3.65 | 66.74 | 16.50 |      | 80.0 |         |
| 10494-AAA | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.83 | 71.05 | 17.30 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.38 | 77.52 | 20.55 |      | 80.0 |         |
|           |                                                                      | Z | 3.69 | 70.41 | 17.53 |      | 80.0 |         |
| 10495-AAA | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.67 | 67.87 | 16.56 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.09 | 70.47 | 18.28 |      | 80.0 |         |
|           |                                                                      | Z | 3.59 | 67.24 | 16.69 |      | 80.0 |         |
| 10496-AAA | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.75 | 67.66 | 16.53 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.12 | 69.95 | 18.10 |      | 80.0 |         |
|           |                                                                      | Z | 3.68 | 67.02 | 16.64 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 1.52 | 63.17 | 11.11 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.23 | 73.40 | 16.16 |      | 80.0 |         |
|           |                                                                      | Z | 1.88 | 65.84 | 13.66 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.40 | 60.12 | 8.72  | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.72 | 62.92 | 10.65 |      | 80.0 |         |
|           |                                                                      | Z | 1.79 | 62.59 | 11.20 |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.41 | 60.00 | 8.54  | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 1.65 | 62.20 | 10.15 |      | 80.0 |         |
|           |                                                                      | Z | 1.78 | 62.28 | 10.92 |      | 80.0 |         |
| 10500-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 2.94 | 70.25 | 16.52 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.23 | 80.45 | 21.29 |      | 80.0 |         |
|           |                                                                      | Z | 2.84 | 69.66 | 17.05 |      | 80.0 |         |
| 10501-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.97 | 67.41 | 15.20 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.87 | 72.37 | 17.99 |      | 80.0 |         |
|           |                                                                      | Z | 2.99 | 67.22 | 15.85 |      | 80.0 |         |
| 10502-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.03 | 67.30 | 15.12 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.89 | 72.00 | 17.79 |      | 80.0 |         |
|           |                                                                      | Z | 3.05 | 67.15 | 15.78 |      | 80.0 |         |
| 10503-AAA | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.23 | 70.58 | 17.07 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.93 | 78.55 | 20.99 |      | 80.0 |         |
|           |                                                                      | Z | 3.10 | 69.81 | 17.35 |      | 80.0 |         |
| 10504-AAA | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.22 | 67.73 | 16.10 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.80 | 71.33 | 18.32 |      | 80.0 |         |
|           |                                                                      | Z | 3.16 | 67.12 | 16.38 |      | 80.0 |         |
| 10505-AAA | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.32 | 67.63 | 16.10 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.85 | 70.89 | 18.16 |      | 80.0 |         |
|           |                                                                      | Z | 3.27 | 67.02 | 16.36 |      | 80.0 |         |
| 10506-AAA | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.80 | 70.90 | 17.22 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.31 | 77.29 | 20.45 |      | 80.0 |         |
|           |                                                                      | Z | 3.67 | 70.28 | 17.46 |      | 80.0 |         |
| 10507-AAA | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.65 | 67.81 | 16.52 | 1.99 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.07 | 70.39 | 18.24 |      | 80.0 |         |
|           |                                                                      | Z | 3.58 | 67.18 | 16.65 |      | 80.0 |         |

|           |                                                                     |   |      |        |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|------|--------|-------|------|-------|---------|
| 10508-AAA | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.74 | 67.58  | 16.48 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.11 | 69.87  | 18.06 |      | 80.0  |         |
|           |                                                                     | Z | 3.67 | 66.96  | 16.60 |      | 80.0  |         |
| 10509-AAA | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.16 | 69.96  | 16.94 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.10 | 74.10  | 19.24 |      | 80.0  |         |
|           |                                                                     | Z | 4.05 | 69.43  | 17.13 |      | 80.0  |         |
| 10510-AAA | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.16 | 67.74  | 16.64 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.48 | 69.63  | 17.99 |      | 80.0  |         |
|           |                                                                     | Z | 4.09 | 67.18  | 16.73 |      | 80.0  |         |
| 10511-AAA | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.21 | 67.52  | 16.60 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.49 | 69.21  | 17.86 |      | 80.0  |         |
|           |                                                                     | Z | 4.15 | 66.95  | 16.68 |      | 80.0  |         |
| 10512-AAA | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.30 | 71.24  | 17.25 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.83 | 77.00  | 20.15 |      | 80.0  |         |
|           |                                                                     | Z | 4.17 | 70.77  | 17.51 |      | 80.0  |         |
| 10513-AAA | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.04 | 67.99  | 16.71 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.41 | 70.16  | 18.20 |      | 80.0  |         |
|           |                                                                     | Z | 3.97 | 67.45  | 16.82 |      | 80.0  |         |
| 10514-AAA | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.07 | 67.62  | 16.63 | 1.99 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.37 | 69.50  | 17.99 |      | 80.0  |         |
|           |                                                                     | Z | 3.99 | 67.05  | 16.72 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 0.99 | 63.29  | 14.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.04 | 65.17  | 16.62 |      | 150.0 |         |
|           |                                                                     | Z | 0.97 | 61.52  | 13.27 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 0.62 | 70.77  | 17.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 3.40 | 106.01 | 32.13 |      | 150.0 |         |
|           |                                                                     | Z | 0.47 | 63.18  | 12.64 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.84 | 65.31  | 15.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.99 | 69.60  | 18.67 |      | 150.0 |         |
|           |                                                                     | Z | 0.79 | 62.35  | 13.19 |      | 150.0 |         |
| 10518-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.60 | 66.75  | 16.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.65 | 67.10  | 16.63 |      | 150.0 |         |
|           |                                                                     | Z | 4.65 | 66.18  | 15.88 |      | 150.0 |         |
| 10519-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.80 | 67.00  | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.85 | 67.35  | 16.75 |      | 150.0 |         |
|           |                                                                     | Z | 4.86 | 66.48  | 16.03 |      | 150.0 |         |
| 10520-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.65 | 66.97  | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.70 | 67.35  | 16.69 |      | 150.0 |         |
|           |                                                                     | Z | 4.71 | 66.42  | 15.94 |      | 150.0 |         |
| 10521-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.58 | 66.97  | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.64 | 67.36  | 16.69 |      | 150.0 |         |
|           |                                                                     | Z | 4.64 | 66.41  | 15.92 |      | 150.0 |         |
| 10522-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.64 | 67.02  | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.69 | 67.41  | 16.75 |      | 150.0 |         |
|           |                                                                     | Z | 4.68 | 66.40  | 15.96 |      | 150.0 |         |

|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.51 | 66.90 | 16.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.57 | 67.30 | 16.61 |      | 150.0 |         |
|           |                                                            | Z | 4.55 | 66.28 | 15.80 |      | 150.0 |         |
| 10524-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.58 | 66.95 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.64 | 67.34 | 16.73 |      | 150.0 |         |
|           |                                                            | Z | 4.64 | 66.36 | 15.94 |      | 150.0 |         |
| 10525-AAA | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.56 | 66.00 | 15.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.62 | 66.38 | 16.32 |      | 150.0 |         |
|           |                                                            | Z | 4.59 | 65.38 | 15.52 |      | 150.0 |         |
| 10526-AAA | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.74 | 66.38 | 16.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.80 | 66.78 | 16.46 |      | 150.0 |         |
|           |                                                            | Z | 4.78 | 65.77 | 15.67 |      | 150.0 |         |
| 10527-AAA | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.66 | 66.35 | 16.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.72 | 66.76 | 16.42 |      | 150.0 |         |
|           |                                                            | Z | 4.70 | 65.72 | 15.61 |      | 150.0 |         |
| 10528-AAA | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.68 | 66.37 | 16.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.74 | 66.77 | 16.45 |      | 150.0 |         |
|           |                                                            | Z | 4.71 | 65.75 | 15.64 |      | 150.0 |         |
| 10529-AAA | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.68 | 66.37 | 16.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.74 | 66.77 | 16.45 |      | 150.0 |         |
|           |                                                            | Z | 4.71 | 65.75 | 15.64 |      | 150.0 |         |
| 10531-AAA | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.68 | 66.49 | 16.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.75 | 66.92 | 16.48 |      | 150.0 |         |
|           |                                                            | Z | 4.72 | 65.87 | 15.66 |      | 150.0 |         |
| 10532-AAA | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.53 | 66.35 | 16.02 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.60 | 66.79 | 16.43 |      | 150.0 |         |
|           |                                                            | Z | 4.57 | 65.72 | 15.59 |      | 150.0 |         |
| 10533-AAA | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.69 | 66.40 | 16.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.75 | 66.82 | 16.44 |      | 150.0 |         |
|           |                                                            | Z | 4.73 | 65.77 | 15.62 |      | 150.0 |         |
| 10534-AAA | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.20 | 66.49 | 16.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.26 | 66.81 | 16.44 |      | 150.0 |         |
|           |                                                            | Z | 5.24 | 66.00 | 15.77 |      | 150.0 |         |
| 10535-AAA | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.27 | 66.64 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.32 | 66.97 | 16.51 |      | 150.0 |         |
|           |                                                            | Z | 5.31 | 66.13 | 15.82 |      | 150.0 |         |
| 10536-AAA | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.14 | 66.61 | 16.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.20 | 66.96 | 16.49 |      | 150.0 |         |
|           |                                                            | Z | 5.17 | 66.09 | 15.78 |      | 150.0 |         |
| 10537-AAA | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.20 | 66.58 | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.25 | 66.91 | 16.47 |      | 150.0 |         |
|           |                                                            | Z | 5.24 | 66.09 | 15.79 |      | 150.0 |         |
| 10538-AAA | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.30 | 66.61 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.35 | 66.94 | 16.52 |      | 150.0 |         |
|           |                                                            | Z | 5.36 | 66.18 | 15.87 |      | 150.0 |         |
| 10540-AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.22 | 66.60 | 16.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.27 | 66.94 | 16.54 |      | 150.0 |         |
|           |                                                            | Z | 5.26 | 66.11 | 15.85 |      | 150.0 |         |

|           |                                                     |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)   | X | 5.19 | 66.49 | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.25 | 66.81 | 16.46 |      | 150.0 |         |
|           |                                                     | Z | 5.24 | 66.02 | 15.80 |      | 150.0 |         |
| 10542-AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)   | X | 5.35 | 66.55 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.40 | 66.85 | 16.50 |      | 150.0 |         |
|           |                                                     | Z | 5.40 | 66.09 | 15.86 |      | 150.0 |         |
| 10543-AAA | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)   | X | 5.43 | 66.58 | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.48 | 66.88 | 16.52 |      | 150.0 |         |
|           |                                                     | Z | 5.48 | 66.12 | 15.89 |      | 150.0 |         |
| 10544-AAA | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)   | X | 5.50 | 66.60 | 16.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.55 | 66.88 | 16.40 |      | 150.0 |         |
|           |                                                     | Z | 5.53 | 66.14 | 15.78 |      | 150.0 |         |
| 10545-AAA | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)   | X | 5.70 | 66.99 | 16.24 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.76 | 67.31 | 16.56 |      | 150.0 |         |
|           |                                                     | Z | 5.74 | 66.55 | 15.93 |      | 150.0 |         |
| 10546-AAA | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)   | X | 5.58 | 66.83 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.63 | 67.14 | 16.50 |      | 150.0 |         |
|           |                                                     | Z | 5.62 | 66.41 | 15.88 |      | 150.0 |         |
| 10547-AAA | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)   | X | 5.65 | 66.88 | 16.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.71 | 67.19 | 16.51 |      | 150.0 |         |
|           |                                                     | Z | 5.71 | 66.49 | 15.91 |      | 150.0 |         |
| 10548-AAA | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)   | X | 5.91 | 67.80 | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 6.01 | 68.24 | 17.00 |      | 150.0 |         |
|           |                                                     | Z | 6.02 | 67.55 | 16.41 |      | 150.0 |         |
| 10550-AAA | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)   | X | 5.60 | 66.82 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.65 | 67.12 | 16.49 |      | 150.0 |         |
|           |                                                     | Z | 5.64 | 66.37 | 15.87 |      | 150.0 |         |
| 10551-AAA | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)   | X | 5.61 | 66.87 | 16.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.66 | 67.18 | 16.48 |      | 150.0 |         |
|           |                                                     | Z | 5.66 | 66.46 | 15.87 |      | 150.0 |         |
| 10552-AAA | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)   | X | 5.52 | 66.67 | 16.08 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.57 | 66.96 | 16.39 |      | 150.0 |         |
|           |                                                     | Z | 5.56 | 66.22 | 15.77 |      | 150.0 |         |
| 10553-AAA | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)   | X | 5.61 | 66.71 | 16.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.66 | 67.00 | 16.43 |      | 150.0 |         |
|           |                                                     | Z | 5.65 | 66.29 | 15.83 |      | 150.0 |         |
| 10554-AAA | IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.90 | 66.96 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.95 | 67.23 | 16.47 |      | 150.0 |         |
|           |                                                     | Z | 5.93 | 66.55 | 15.91 |      | 150.0 |         |
| 10555-AAA | IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 6.03 | 67.25 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 6.09 | 67.55 | 16.60 |      | 150.0 |         |
|           |                                                     | Z | 6.08 | 66.88 | 16.04 |      | 150.0 |         |
| 10556-AAA | IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 6.05 | 67.30 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 6.11 | 67.59 | 16.62 |      | 150.0 |         |
|           |                                                     | Z | 6.09 | 66.89 | 16.04 |      | 150.0 |         |
| 10557-AAA | IEEE 1602.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 6.03 | 67.23 | 16.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 6.08 | 67.51 | 16.60 |      | 150.0 |         |
|           |                                                     | Z | 6.07 | 66.85 | 16.05 |      | 150.0 |         |

|           |                                                                 |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10558-AAA | IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)             | X | 6.08   | 67.39  | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.14   | 67.69  | 16.70 |      | 150.0 |         |
|           |                                                                 | Z | 6.13   | 67.04  | 16.15 |      | 150.0 |         |
| 10560-AAA | IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)             | X | 6.08   | 67.24  | 16.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.13   | 67.52  | 16.66 |      | 150.0 |         |
|           |                                                                 | Z | 6.13   | 66.88  | 16.11 |      | 150.0 |         |
| 10561-AAA | IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)             | X | 5.99   | 67.20  | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.05   | 67.49  | 16.68 |      | 150.0 |         |
|           |                                                                 | Z | 6.04   | 66.82  | 16.12 |      | 150.0 |         |
| 10562-AAA | IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)             | X | 6.13   | 67.61  | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.19   | 67.94  | 16.91 |      | 150.0 |         |
|           |                                                                 | Z | 6.20   | 67.30  | 16.36 |      | 150.0 |         |
| 10563-AAA | IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)             | X | 6.44   | 68.12  | 16.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.53   | 68.51  | 17.13 |      | 150.0 |         |
|           |                                                                 | Z | 6.52   | 67.81  | 16.56 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.92   | 66.79  | 16.38 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.97   | 67.12  | 16.74 |      | 150.0 |         |
|           |                                                                 | Z | 4.99   | 66.34  | 16.10 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.17   | 67.27  | 16.72 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.21   | 67.59  | 17.06 |      | 150.0 |         |
|           |                                                                 | Z | 5.25   | 66.83  | 16.44 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 5.00   | 67.11  | 16.53 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.04   | 67.45  | 16.89 |      | 150.0 |         |
|           |                                                                 | Z | 5.07   | 66.67  | 16.25 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 5.03   | 67.53  | 16.91 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.08   | 67.88  | 17.26 |      | 150.0 |         |
|           |                                                                 | Z | 5.09   | 67.02  | 16.57 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.90   | 66.82  | 16.26 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.95   | 67.20  | 16.65 |      | 150.0 |         |
|           |                                                                 | Z | 4.98   | 66.39  | 16.00 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 4.97   | 67.58  | 16.94 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.03   | 67.94  | 17.31 |      | 150.0 |         |
|           |                                                                 | Z | 5.03   | 67.03  | 16.59 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 5.02   | 67.44  | 16.89 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.07   | 67.77  | 17.23 |      | 150.0 |         |
|           |                                                                 | Z | 5.08   | 66.91  | 16.54 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.17   | 64.20  | 15.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.24   | 66.16  | 17.20 |      | 130.0 |         |
|           |                                                                 | Z | 1.13   | 62.43  | 14.14 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.19   | 64.76  | 15.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.26   | 66.94  | 17.67 |      | 130.0 |         |
|           |                                                                 | Z | 1.14   | 62.77  | 14.37 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 1.58   | 80.73  | 21.33 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 100.00 | 160.16 | 44.33 |      | 130.0 |         |
|           |                                                                 | Z | 0.77   | 67.46  | 15.45 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.29   | 70.32  | 18.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.65   | 76.70  | 22.45 |      | 130.0 |         |
|           |                                                                 | Z | 1.08   | 65.57  | 15.83 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.69 | 66.49 | 16.35 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.74 | 66.88 | 16.77 |      | 130.0 |         |
|           |                                                                 | Z | 4.78 | 66.12 | 16.16 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.71 | 66.66 | 16.42 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.77 | 67.05 | 16.84 |      | 130.0 |         |
|           |                                                                 | Z | 4.80 | 66.27 | 16.21 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.93 | 66.97 | 16.60 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.99 | 67.36 | 17.01 |      | 130.0 |         |
|           |                                                                 | Z | 5.03 | 66.62 | 16.41 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.83 | 67.15 | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.89 | 67.55 | 17.13 |      | 130.0 |         |
|           |                                                                 | Z | 4.92 | 66.75 | 16.49 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.58 | 66.38 | 15.98 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.65 | 66.84 | 16.45 |      | 130.0 |         |
|           |                                                                 | Z | 4.69 | 66.09 | 15.84 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.63 | 66.39 | 15.99 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.69 | 66.85 | 16.45 |      | 130.0 |         |
|           |                                                                 | Z | 4.74 | 66.08 | 15.84 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.72 | 67.17 | 16.64 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.78 | 67.60 | 17.08 |      | 130.0 |         |
|           |                                                                 | Z | 4.81 | 66.76 | 16.41 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.53 | 66.12 | 15.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.59 | 66.59 | 16.23 |      | 130.0 |         |
|           |                                                                 | Z | 4.65 | 65.87 | 15.64 |      | 130.0 |         |
| 10583-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.69 | 66.49 | 16.35 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.74 | 66.88 | 16.77 |      | 130.0 |         |
|           |                                                                 | Z | 4.78 | 66.12 | 16.16 |      | 130.0 |         |
| 10584-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.71 | 66.66 | 16.42 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.77 | 67.05 | 16.84 |      | 130.0 |         |
|           |                                                                 | Z | 4.80 | 66.27 | 16.21 |      | 130.0 |         |
| 10585-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 4.93 | 66.97 | 16.60 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.99 | 67.36 | 17.01 |      | 130.0 |         |
|           |                                                                 | Z | 5.03 | 66.62 | 16.41 |      | 130.0 |         |
| 10586-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.83 | 67.15 | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.89 | 67.55 | 17.13 |      | 130.0 |         |
|           |                                                                 | Z | 4.92 | 66.75 | 16.49 |      | 130.0 |         |
| 10587-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.58 | 66.38 | 15.98 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.65 | 66.84 | 16.45 |      | 130.0 |         |
|           |                                                                 | Z | 4.69 | 66.09 | 15.84 |      | 130.0 |         |
| 10588-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.63 | 66.39 | 15.99 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.69 | 66.85 | 16.45 |      | 130.0 |         |
|           |                                                                 | Z | 4.74 | 66.08 | 15.84 |      | 130.0 |         |
| 10589-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.72 | 67.17 | 16.64 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.78 | 67.60 | 17.08 |      | 130.0 |         |
|           |                                                                 | Z | 4.81 | 66.76 | 16.41 |      | 130.0 |         |
| 10590-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.53 | 66.12 | 15.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.59 | 66.59 | 16.23 |      | 130.0 |         |
|           |                                                                 | Z | 4.65 | 65.87 | 15.64 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.84 | 66.56 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.89 | 66.92 | 16.85 |      | 130.0 |         |
|           |                                                       | Z | 4.93 | 66.22 | 16.27 |      | 130.0 |         |
| 10592-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 5.00 | 66.91 | 16.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.06 | 67.27 | 16.98 |      | 130.0 |         |
|           |                                                       | Z | 5.10 | 66.56 | 16.40 |      | 130.0 |         |
| 10593-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 4.92 | 66.82 | 16.47 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.98 | 67.20 | 16.88 |      | 130.0 |         |
|           |                                                       | Z | 5.03 | 66.49 | 16.30 |      | 130.0 |         |
| 10594-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 4.98 | 66.99 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.04 | 67.36 | 17.03 |      | 130.0 |         |
|           |                                                       | Z | 5.08 | 66.64 | 16.44 |      | 130.0 |         |
| 10595-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 4.94 | 66.93 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.00 | 67.32 | 16.93 |      | 130.0 |         |
|           |                                                       | Z | 5.05 | 66.60 | 16.34 |      | 130.0 |         |
| 10596-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.88 | 66.92 | 16.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.94 | 67.33 | 16.94 |      | 130.0 |         |
|           |                                                       | Z | 4.99 | 66.58 | 16.33 |      | 130.0 |         |
| 10597-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.83 | 66.83 | 16.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.89 | 67.25 | 16.83 |      | 130.0 |         |
|           |                                                       | Z | 4.94 | 66.50 | 16.23 |      | 130.0 |         |
| 10598-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.82 | 67.10 | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.88 | 67.50 | 17.11 |      | 130.0 |         |
|           |                                                       | Z | 4.91 | 66.73 | 16.48 |      | 130.0 |         |
| 10599-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.50 | 67.12 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.56 | 67.44 | 17.01 |      | 130.0 |         |
|           |                                                       | Z | 5.62 | 66.91 | 16.54 |      | 130.0 |         |
| 10600-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.65 | 67.56 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.72 | 67.95 | 17.24 |      | 130.0 |         |
|           |                                                       | Z | 5.81 | 67.48 | 16.80 |      | 130.0 |         |
| 10601-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.53 | 67.30 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.60 | 67.65 | 17.11 |      | 130.0 |         |
|           |                                                       | Z | 5.67 | 67.13 | 16.63 |      | 130.0 |         |
| 10602-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.62 | 67.27 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.68 | 67.63 | 17.01 |      | 130.0 |         |
|           |                                                       | Z | 5.76 | 67.14 | 16.56 |      | 130.0 |         |
| 10603-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.72 | 67.65 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.78 | 67.99 | 17.32 |      | 130.0 |         |
|           |                                                       | Z | 5.85 | 67.45 | 16.84 |      | 130.0 |         |
| 10604-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.51 | 67.08 | 16.66 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.56 | 67.40 | 17.01 |      | 130.0 |         |
|           |                                                       | Z | 5.62 | 66.87 | 16.54 |      | 130.0 |         |
| 10605-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.61 | 67.38 | 16.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.68 | 67.74 | 17.18 |      | 130.0 |         |
|           |                                                       | Z | 5.73 | 67.16 | 16.69 |      | 130.0 |         |
| 10606-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.39 | 66.83 | 16.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.44 | 67.18 | 16.77 |      | 130.0 |         |
|           |                                                       | Z | 5.50 | 66.63 | 16.29 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAA | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.67 | 65.87 | 16.07 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.74 | 66.28 | 16.50 |      | 130.0 |         |
|           |                                                   | Z | 4.75 | 65.46 | 15.85 |      | 130.0 |         |
| 10608-AAA | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.87 | 66.28 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.94 | 66.71 | 16.67 |      | 130.0 |         |
|           |                                                   | Z | 4.96 | 65.88 | 16.02 |      | 130.0 |         |
| 10609-AAA | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.76 | 66.12 | 16.08 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.83 | 66.58 | 16.53 |      | 130.0 |         |
|           |                                                   | Z | 4.84 | 65.74 | 15.86 |      | 130.0 |         |
| 10610-AAA | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.81 | 66.29 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.88 | 66.74 | 16.69 |      | 130.0 |         |
|           |                                                   | Z | 4.90 | 65.89 | 16.02 |      | 130.0 |         |
| 10611-AAA | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.72 | 66.09 | 16.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.80 | 66.55 | 16.54 |      | 130.0 |         |
|           |                                                   | Z | 4.82 | 65.72 | 15.88 |      | 130.0 |         |
| 10612-AAA | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.73 | 66.22 | 16.11 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.81 | 66.72 | 16.59 |      | 130.0 |         |
|           |                                                   | Z | 4.83 | 65.85 | 15.91 |      | 130.0 |         |
| 10613-AAA | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.74 | 66.13 | 16.01 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.82 | 66.61 | 16.48 |      | 130.0 |         |
|           |                                                   | Z | 4.84 | 65.78 | 15.82 |      | 130.0 |         |
| 10614-AAA | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.68 | 66.34 | 16.26 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.76 | 66.81 | 16.72 |      | 130.0 |         |
|           |                                                   | Z | 4.77 | 65.93 | 16.03 |      | 130.0 |         |
| 10615-AAA | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.72 | 65.89 | 15.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.80 | 66.37 | 16.31 |      | 130.0 |         |
|           |                                                   | Z | 4.82 | 65.55 | 15.67 |      | 130.0 |         |
| 10616-AAA | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.33 | 66.40 | 16.28 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.39 | 66.76 | 16.66 |      | 130.0 |         |
|           |                                                   | Z | 5.42 | 66.11 | 16.11 |      | 130.0 |         |
| 10617-AAA | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.39 | 66.52 | 16.31 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.45 | 66.90 | 16.70 |      | 130.0 |         |
|           |                                                   | Z | 5.47 | 66.20 | 16.13 |      | 130.0 |         |
| 10618-AAA | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.28 | 66.57 | 16.35 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.35 | 66.96 | 16.75 |      | 130.0 |         |
|           |                                                   | Z | 5.36 | 66.25 | 16.17 |      | 130.0 |         |
| 10619-AAA | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.30 | 66.38 | 16.19 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.37 | 66.78 | 16.59 |      | 130.0 |         |
|           |                                                   | Z | 5.39 | 66.09 | 16.03 |      | 130.0 |         |
| 10620-AAA | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.40 | 66.44 | 16.27 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.47 | 66.82 | 16.66 |      | 130.0 |         |
|           |                                                   | Z | 5.52 | 66.23 | 16.15 |      | 130.0 |         |
| 10621-AAA | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.39 | 66.57 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.45 | 66.91 | 16.82 |      | 130.0 |         |
|           |                                                   | Z | 5.48 | 66.27 | 16.28 |      | 130.0 |         |
| 10622-AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.40 | 66.70 | 16.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.46 | 67.08 | 16.90 |      | 130.0 |         |
|           |                                                   | Z | 5.48 | 66.38 | 16.32 |      | 130.0 |         |

|           |                                                     |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)   | X | 5.27 | 66.23 | 16.15 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.34 | 66.60 | 16.54 |      | 130.0 |         |
|           |                                                     | Z | 5.37 | 65.97 | 16.01 |      | 130.0 |         |
| 10624-AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)   | X | 5.47 | 66.44 | 16.32 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.53 | 66.79 | 16.69 |      | 130.0 |         |
|           |                                                     | Z | 5.57 | 66.18 | 16.17 |      | 130.0 |         |
| 10625-AAA | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)   | X | 5.86 | 67.46 | 16.88 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.95 | 67.90 | 17.29 |      | 130.0 |         |
|           |                                                     | Z | 5.98 | 67.24 | 16.75 |      | 130.0 |         |
| 10626-AAA | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)   | X | 5.61 | 66.46 | 16.23 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.67 | 66.78 | 16.59 |      | 130.0 |         |
|           |                                                     | Z | 5.68 | 66.18 | 16.08 |      | 130.0 |         |
| 10627-AAA | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)   | X | 5.85 | 66.99 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.92 | 67.36 | 16.83 |      | 130.0 |         |
|           |                                                     | Z | 5.94 | 66.74 | 16.31 |      | 130.0 |         |
| 10628-AAA | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)   | X | 5.65 | 66.56 | 16.18 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.72 | 66.93 | 16.55 |      | 130.0 |         |
|           |                                                     | Z | 5.75 | 66.35 | 16.06 |      | 130.0 |         |
| 10629-AAA | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)   | X | 5.74 | 66.66 | 16.22 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.81 | 67.02 | 16.59 |      | 130.0 |         |
|           |                                                     | Z | 5.84 | 66.42 | 16.08 |      | 130.0 |         |
| 10630-AAA | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)   | X | 6.19 | 68.15 | 16.96 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.32 | 68.72 | 17.44 |      | 130.0 |         |
|           |                                                     | Z | 6.40 | 68.23 | 16.98 |      | 130.0 |         |
| 10631-AAA | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)   | X | 6.10 | 68.02 | 17.10 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.19 | 68.43 | 17.48 |      | 130.0 |         |
|           |                                                     | Z | 6.25 | 67.89 | 17.01 |      | 130.0 |         |
| 10632-AAA | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)   | X | 5.82 | 67.09 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.89 | 67.42 | 16.99 |      | 130.0 |         |
|           |                                                     | Z | 5.91 | 66.80 | 16.48 |      | 130.0 |         |
| 10633-AAA | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)   | X | 5.72 | 66.75 | 16.30 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.79 | 67.09 | 16.66 |      | 130.0 |         |
|           |                                                     | Z | 5.84 | 66.59 | 16.21 |      | 130.0 |         |
| 10634-AAA | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)   | X | 5.71 | 66.79 | 16.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.77 | 67.12 | 16.74 |      | 130.0 |         |
|           |                                                     | Z | 5.81 | 66.56 | 16.25 |      | 130.0 |         |
| 10635-AAA | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)   | X | 5.58 | 66.08 | 15.75 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.65 | 66.45 | 16.14 |      | 130.0 |         |
|           |                                                     | Z | 5.71 | 65.95 | 15.68 |      | 130.0 |         |
| 10636-AAA | IEEE 1602.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 6.02 | 66.84 | 16.33 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.08 | 67.15 | 16.67 |      | 130.0 |         |
|           |                                                     | Z | 6.10 | 66.61 | 16.21 |      | 130.0 |         |
| 10637-AAA | IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.17 | 67.20 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.25 | 67.55 | 16.84 |      | 130.0 |         |
|           |                                                     | Z | 6.27 | 67.00 | 16.38 |      | 130.0 |         |
| 10638-AAA | IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.17 | 67.18 | 16.45 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.25 | 67.52 | 16.80 |      | 130.0 |         |
|           |                                                     | Z | 6.27 | 66.97 | 16.34 |      | 130.0 |         |

|           |                                                     |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10639-AAA | IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle) | X | 6.16 | 67.16 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.23 | 67.49 | 16.84 |      | 130.0 |         |
|           |                                                     | Z | 6.27 | 66.98 | 16.39 |      | 130.0 |         |
| 10640-AAA | IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle) | X | 6.17 | 67.17 | 16.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.25 | 67.53 | 16.80 |      | 130.0 |         |
|           |                                                     | Z | 6.29 | 67.06 | 16.37 |      | 130.0 |         |
| 10641-AAA | IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle) | X | 6.20 | 67.02 | 16.38 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.26 | 67.35 | 16.72 |      | 130.0 |         |
|           |                                                     | Z | 6.29 | 66.81 | 16.27 |      | 130.0 |         |
| 10642-AAA | IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle) | X | 6.26 | 67.35 | 16.72 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.32 | 67.65 | 17.04 |      | 130.0 |         |
|           |                                                     | Z | 6.36 | 67.13 | 16.59 |      | 130.0 |         |
| 10643-AAA | IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle) | X | 6.08 | 66.98 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.15 | 67.33 | 16.78 |      | 130.0 |         |
|           |                                                     | Z | 6.18 | 66.81 | 16.33 |      | 130.0 |         |
| 10644-AAA | IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle) | X | 6.27 | 67.55 | 16.73 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.35 | 67.94 | 17.11 |      | 130.0 |         |
|           |                                                     | Z | 6.41 | 67.48 | 16.69 |      | 130.0 |         |
| 10645-AAA | IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle) | X | 6.70 | 68.38 | 17.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.82 | 68.87 | 17.52 |      | 130.0 |         |
|           |                                                     | Z | 6.77 | 68.08 | 16.94 |      | 130.0 |         |

<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.



Accreditation No.: **SCS 0108**

Accredited by the Swiss Accreditation Service (SAS)

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

Client **Sporton-TW (Auden)**

Certificate No: **EX3-3931\_Oct16**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3931**

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

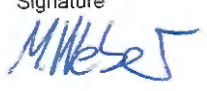
Calibration date: **October 3, 2016**

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

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

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP            | SN: 104778       | 06-Apr-16 (No. 217-02288/02289)   | Apr-17                 |
| Power sensor NRP-Z91       | SN: 103244       | 06-Apr-16 (No. 217-02288)         | Apr-17                 |
| Power sensor NRP-Z91       | SN: 103245       | 06-Apr-16 (No. 217-02289)         | Apr-17                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 05-Apr-16 (No. 217-02293)         | Apr-17                 |
| Reference Probe ES3DV2     | SN: 3013         | 31-Dec-15 (No. ES3-3013_Dec15)    | Dec-16                 |
| DAE4                       | SN: 660          | 23-Dec-15 (No. DAE4-660_Dec15)    | Dec-16                 |
| Secondary Standards        | ID               | Check Date (in house)             | Scheduled Check        |
| Power meter E4419B         | SN: GB41293874   | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A        | SN: MY41498087   | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| Power sensor E4412A        | SN: 000110210    | 06-Apr-16 (in house check Jun-16) | In house check: Jun-18 |
| RF generator HP 8648C      | SN: US3642U01700 | 04-Aug-99 (in house check Jun-16) | In house check: Jun-18 |
| Network Analyzer HP 8753E  | SN: US37390585   | 18-Oct-01 (in house check Oct-15) | In house check: Oct-16 |

|                                                                                                                 |                       |                                   |                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|----------------------------------------------------------------------------------------------------|
| Calibrated by:                                                                                                  | Name<br>Michael Weber | Function<br>Laboratory Technician | Signature<br> |
| Approved by:                                                                                                    | Katja Pokovic         | Technical Manager                 |               |
|                                                                                                                 |                       |                                   | Issued: October 4, 2016                                                                            |
| This calibration certificate shall not be reproduced except in full without written approval of the laboratory. |                       |                                   |                                                                                                    |



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 0108**

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

### Glossary:

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

### Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Methods Applied and Interpretation of Parameters:

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

# Probe EX3DV4

## SN:3931

|               |                    |
|---------------|--------------------|
| Manufactured: | July 24, 2013      |
| Repaired:     | September 27, 2016 |
| Calibrated:   | October 3, 2016    |

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

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3931

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.50     | 0.56     | 0.47     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 99.3     | 102.3    | 99.2     |               |

### 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    | 165.2    | $\pm 2.2 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 169.6    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 158.4    |                           |

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 | 39.73    | 299.4    | 36.38                       | 13.81                               | 1.099                               | 5.004    | 0.119                 | 0.351                 | 1.005 |
| Y | 59.82    | 447.7    | 35.85                       | 21.83                               | 1.546                               | 5.045    | 0.719                 | 0.472                 | 1.007 |
| Z | 54.23    | 405.8    | 35.74                       | 19.34                               | 1.491                               | 5.007    | 0.433                 | 0.514                 | 1.005 |

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:3931

### 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                            | 10.68   | 10.68   | 10.68   | 0.47               | 0.86                    | ± 12.0 %  |
| 835                  | 41.5                               | 0.90                            | 10.35   | 10.35   | 10.35   | 0.43               | 0.80                    | ± 12.0 %  |
| 900                  | 41.5                               | 0.97                            | 10.09   | 10.09   | 10.09   | 0.44               | 0.86                    | ± 12.0 %  |
| 1450                 | 40.5                               | 1.20                            | 8.73    | 8.73    | 8.73    | 0.45               | 0.80                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 8.68    | 8.68    | 8.68    | 0.37               | 0.80                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 8.42    | 8.42    | 8.42    | 0.34               | 0.80                    | ± 12.0 %  |
| 2000                 | 40.0                               | 1.40                            | 8.43    | 8.43    | 8.43    | 0.37               | 0.80                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 7.94    | 7.94    | 7.94    | 0.28               | 0.86                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 7.60    | 7.60    | 7.60    | 0.36               | 0.84                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 7.37    | 7.37    | 7.37    | 0.31               | 0.97                    | ± 12.0 %  |
| 5250                 | 35.9                               | 4.71                            | 5.38    | 5.38    | 5.38    | 0.35               | 1.80                    | ± 13.1 %  |
| 5600                 | 35.5                               | 5.07                            | 4.68    | 4.68    | 4.68    | 0.40               | 1.80                    | ± 13.1 %  |
| 5750                 | 35.4                               | 5.22                            | 4.84    | 4.84    | 4.84    | 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:3931

### 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                            | 10.37   | 10.37   | 10.37   | 0.38               | 0.97                    | ± 12.0 %  |
| 835                  | 55.2                               | 0.97                            | 10.14   | 10.14   | 10.14   | 0.36               | 0.99                    | ± 12.0 %  |
| 1450                 | 54.0                               | 1.30                            | 8.53    | 8.53    | 8.53    | 0.31               | 0.80                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 8.45    | 8.45    | 8.45    | 0.37               | 0.80                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 8.14    | 8.14    | 8.14    | 0.33               | 0.90                    | ± 12.0 %  |
| 2300                 | 52.9                               | 1.81                            | 7.96    | 7.96    | 7.96    | 0.39               | 0.80                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 7.73    | 7.73    | 7.73    | 0.38               | 0.85                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 7.46    | 7.46    | 7.46    | 0.25               | 0.95                    | ± 12.0 %  |
| 5250                 | 48.9                               | 5.36                            | 4.57    | 4.57    | 4.57    | 0.50               | 1.90                    | ± 13.1 %  |
| 5600                 | 48.5                               | 5.77                            | 3.71    | 3.71    | 3.71    | 0.60               | 1.90                    | ± 13.1 %  |
| 5750                 | 48.3                               | 5.94                            | 4.01    | 4.01    | 4.01    | 0.60               | 1.90                    | ± 13.1 %  |

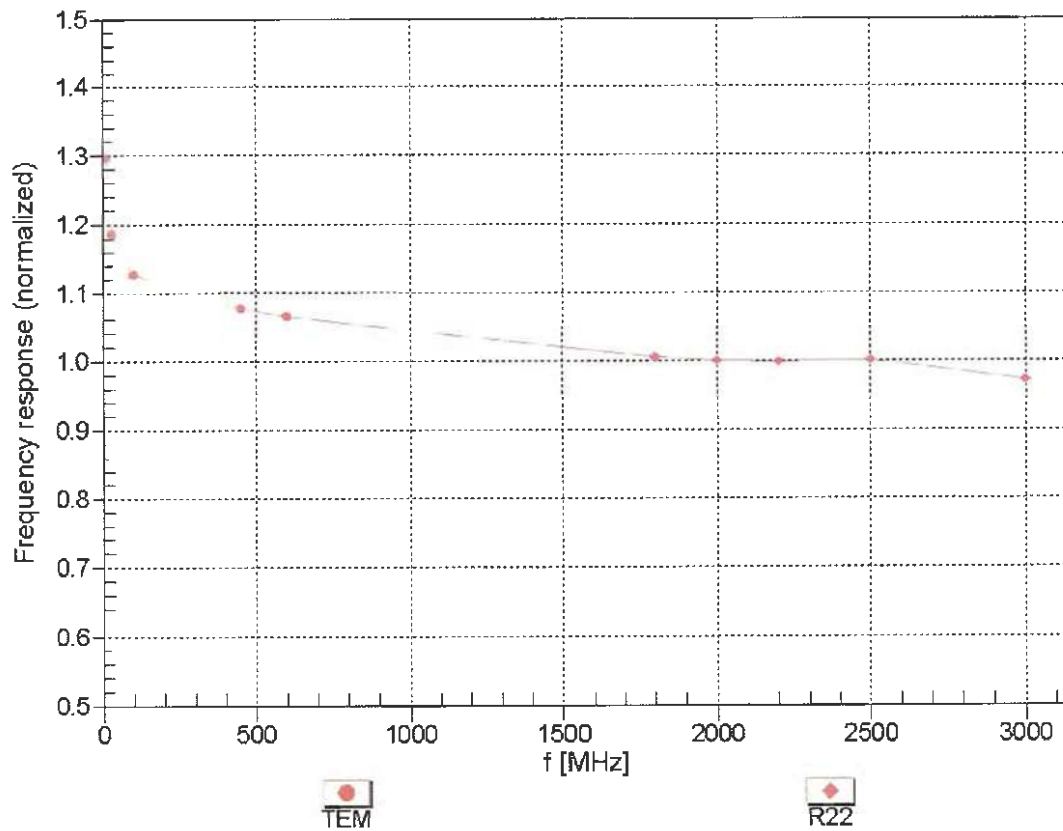
<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below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

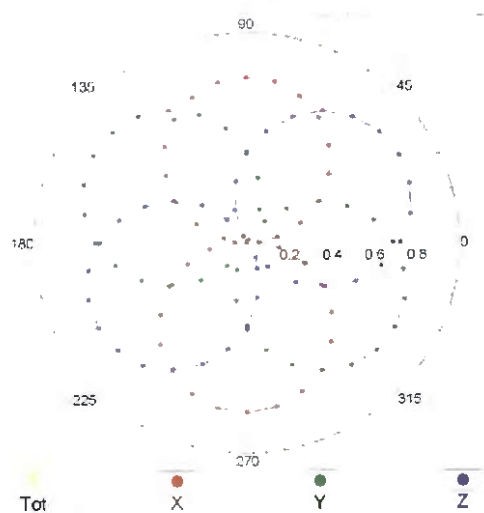
(TEM-Cell:ifi110 EXX, Waveguide: R22)



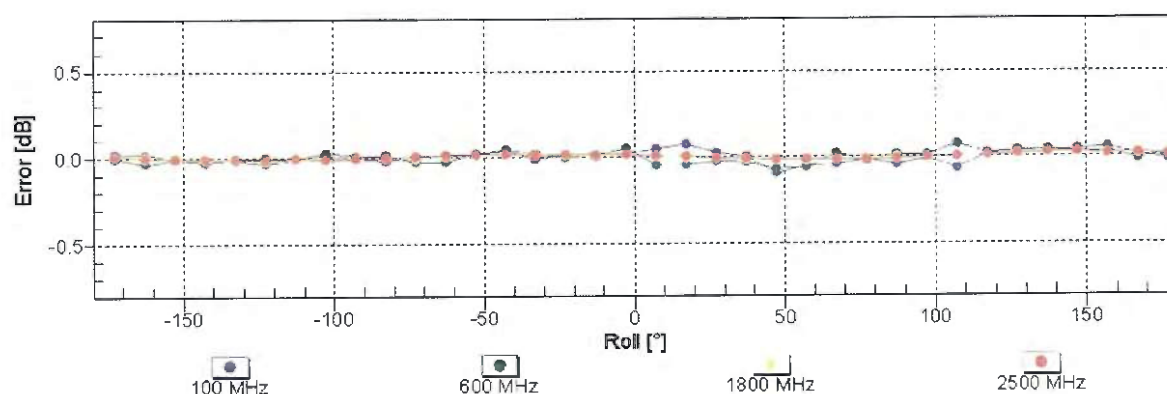
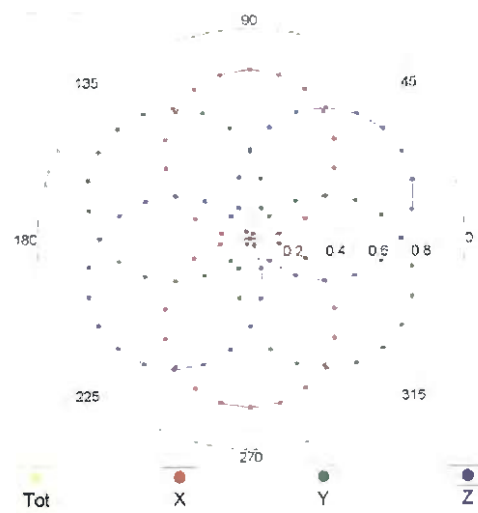
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

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

f=600 MHz,TEM

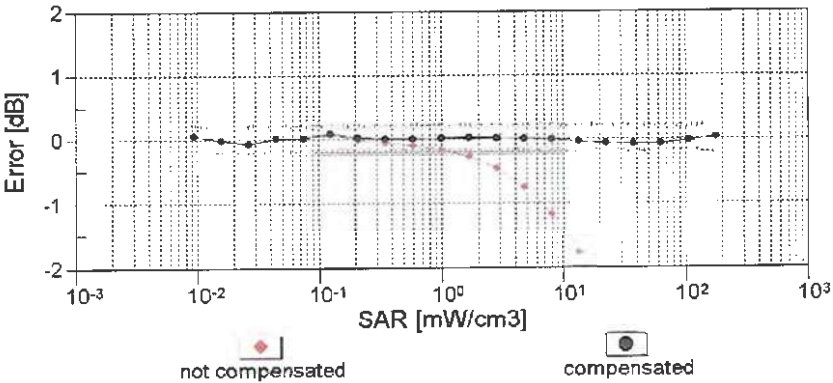
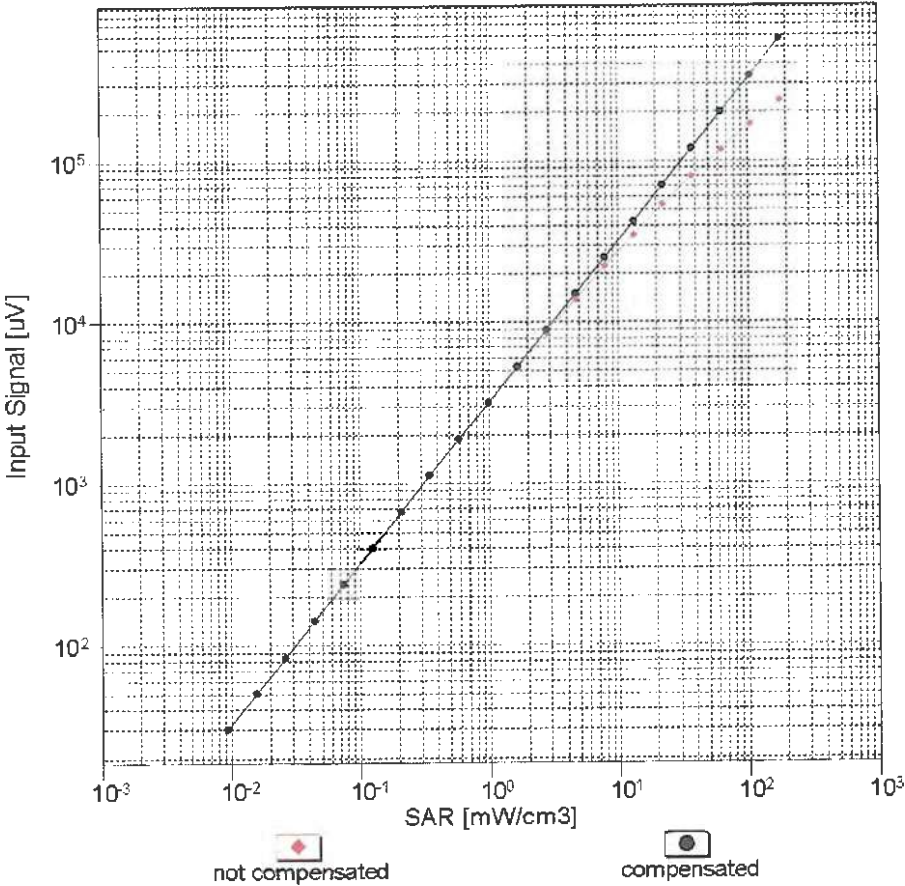


f=1800 MHz,R22



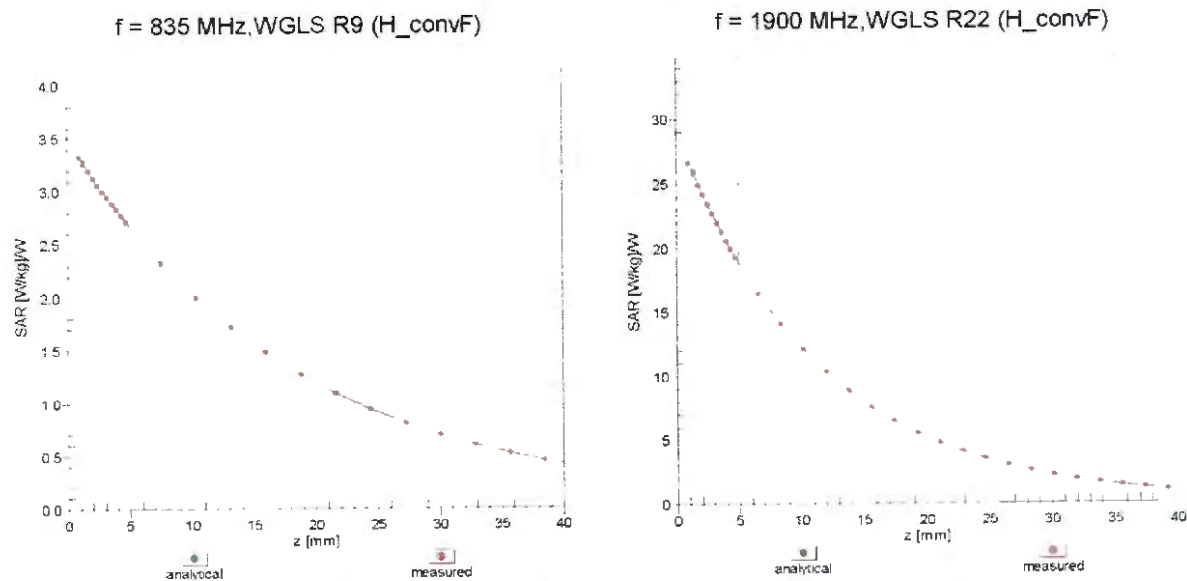
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

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



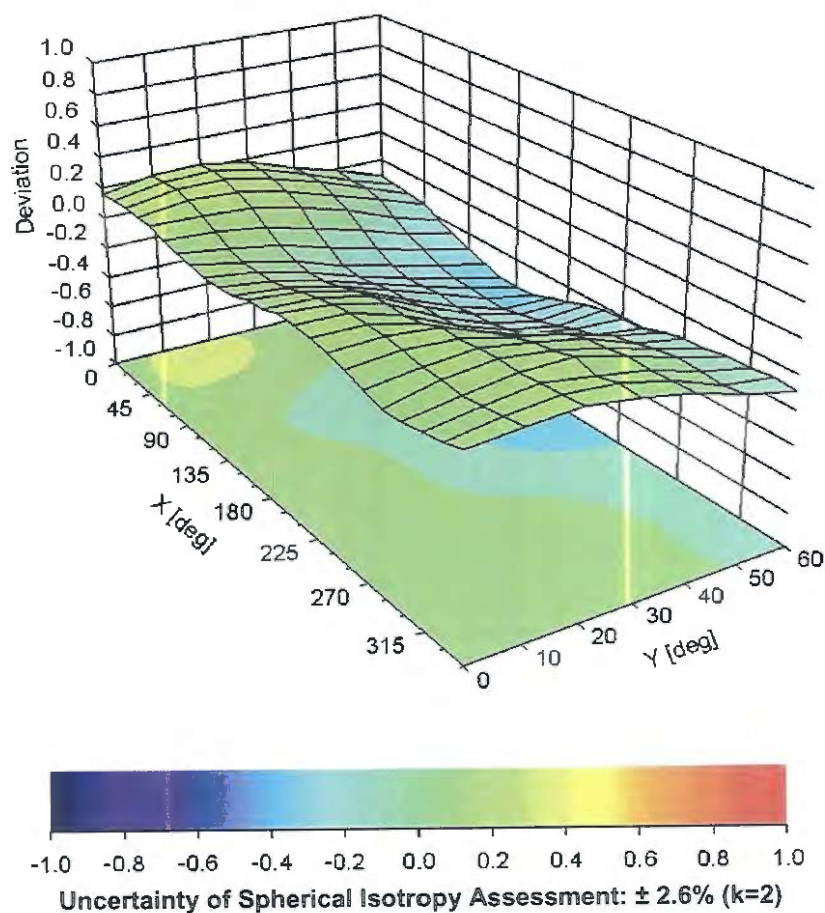
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

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



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3931

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 127.3      |
| 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    | 165.2    | $\pm 2.2 \%$                     |
|               |                                               | Y | 0.00    | 0.00                   | 1.00  |         | 169.6    |                                  |
|               |                                               | Z | 0.00    | 0.00                   | 1.00  |         | 158.4    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 3.48    | 69.31                  | 12.63 | 10.00   | 20.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 5.87    | 75.87                  | 16.27 |         | 20.0     |                                  |
|               |                                               | Z | 4.02    | 70.66                  | 13.78 |         | 20.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 1.30    | 72.39                  | 18.20 | 0.00    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.19    | 69.63                  | 16.77 |         | 150.0    |                                  |
|               |                                               | Z | 1.01    | 66.38                  | 14.76 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.24    | 65.29                  | 16.42 | 0.41    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.26    | 64.91                  | 16.05 |         | 150.0    |                                  |
|               |                                               | Z | 1.20    | 63.67                  | 14.96 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 4.82    | 66.95                  | 17.27 | 1.46    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 5.04    | 66.77                  | 17.23 |         | 150.0    |                                  |
|               |                                               | Z | 4.95    | 66.50                  | 16.90 |         | 150.0    |                                  |
| 10021-<br>DAB | GSM-FDD (TDMA, GMSK)                          | X | 100.00  | 114.09                 | 27.93 | 9.39    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 118.26                 | 30.54 |         | 50.0     |                                  |
|               |                                               | Z | 25.45   | 96.76                  | 24.27 |         | 50.0     |                                  |
| 10023-<br>DAB | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 83.93   | 111.52                 | 27.32 | 9.57    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 99.99   | 118.26                 | 30.60 |         | 50.0     |                                  |
|               |                                               | Z | 19.40   | 92.86                  | 23.18 |         | 50.0     |                                  |
| 10024-<br>DAB | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 112.26                 | 25.94 | 6.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 115.42                 | 28.11 |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 112.41                 | 26.50 |         | 60.0     |                                  |
| 10025-<br>DAB | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 5.67    | 76.70                  | 28.63 | 12.57   | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 15.06   | 105.00                 | 40.92 |         | 50.0     |                                  |
|               |                                               | Z | 5.92    | 75.84                  | 27.63 |         | 50.0     |                                  |
| 10026-<br>DAB | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 9.71    | 91.87                  | 32.18 | 9.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 18.06   | 104.69                 | 36.55 |         | 60.0     |                                  |
|               |                                               | Z | 11.21   | 92.21                  | 31.55 |         | 60.0     |                                  |
| 10027-<br>DAB | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 112.68                 | 25.31 | 4.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 114.88                 | 27.06 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 111.26                 | 25.19 |         | 80.0     |                                  |
| 10028-<br>DAB | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 114.77                 | 25.52 | 3.55    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 115.72                 | 26.71 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 111.32                 | 24.54 |         | 100.0    |                                  |
| 10029-<br>DAB | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 6.19    | 82.03                  | 27.36 | 7.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 10.55   | 92.05                  | 31.00 |         | 80.0     |                                  |
|               |                                               | Z | 7.53    | 83.82                  | 27.35 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 110.56                 | 24.66 | 5.30    | 70.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 113.96                 | 26.95 |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 110.53                 | 25.16 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 116.75                 | 24.95 | 1.88    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 117.62                 | 26.11 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 110.75                 | 23.01 |         | 100.0    |                                  |

|           |                                                     |   |        |        |       |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 131.18 | 29.75 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 125.29 | 28.26 |       | 100.0 |         |
|           |                                                     | Z | 100.00 | 114.95 | 23.87 |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 10.93  | 90.53  | 23.32 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 20.55  | 101.44 | 27.99 |       | 70.0  |         |
|           |                                                     | Z | 7.67   | 84.45  | 21.88 |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 5.70   | 84.58  | 20.06 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 5.85   | 85.75  | 22.03 |       | 100.0 |         |
|           |                                                     | Z | 2.95   | 74.86  | 17.34 |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 3.92   | 81.20  | 18.80 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 3.48   | 79.72  | 19.80 |       | 100.0 |         |
|           |                                                     | Z | 2.10   | 71.76  | 15.97 |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 15.13  | 95.54  | 24.90 | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 28.86  | 107.18 | 29.66 |       | 70.0  |         |
|           |                                                     | Z | 9.07   | 87.21  | 22.88 |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 4.82   | 82.50  | 19.36 | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 5.58   | 85.13  | 21.78 |       | 100.0 |         |
|           |                                                     | Z | 2.82   | 74.36  | 17.11 |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 4.08   | 82.09  | 19.24 | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 3.57   | 80.38  | 20.14 |       | 100.0 |         |
|           |                                                     | Z | 2.12   | 72.10  | 16.20 |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 5.80   | 88.31  | 21.06 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.44   | 75.65  | 18.16 |       | 150.0 |         |
|           |                                                     | Z | 1.80   | 71.10  | 15.73 |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 100.00 | 110.27 | 25.32 | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 114.03 | 27.70 |       | 50.0  |         |
|           |                                                     | Z | 32.06  | 97.64  | 22.93 |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.00   | 105.67 | 0.52  | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.00   | 101.10 | 0.34  |       | 150.0 |         |
|           |                                                     | Z | 0.00   | 94.56  | 3.16  |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 11.94  | 82.95  | 20.71 | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 15.06  | 89.64  | 24.59 |       | 25.0  |         |
|           |                                                     | Z | 9.78   | 81.31  | 21.11 |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 15.54  | 88.48  | 21.39 | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 23.79  | 97.14  | 25.51 |       | 40.0  |         |
|           |                                                     | Z | 11.46  | 84.91  | 21.03 |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 13.32  | 89.14  | 23.36 | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 16.34  | 93.59  | 26.16 |       | 50.0  |         |
|           |                                                     | Z | 10.18  | 84.57  | 22.45 |       | 50.0  |         |
| 10058-DAB | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 4.78   | 77.20  | 24.69 | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 7.46   | 84.92  | 27.60 |       | 100.0 |         |
|           |                                                     | Z | 5.76   | 78.94  | 24.73 |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 1.30   | 66.67  | 17.10 | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.37   | 66.65  | 16.91 |       | 110.0 |         |
|           |                                                     | Z | 1.27   | 64.87  | 15.53 |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 100.00 | 139.37 | 36.42 | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 134.75 | 34.85 |       | 110.0 |         |
|           |                                                     | Z | 5.80   | 90.90  | 23.07 |       | 110.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 4.16 | 86.26 | 24.31 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 6.78 | 92.08 | 26.03 |      | 110.0 |         |
|           |                                                | Z | 3.18 | 78.55 | 20.67 |      | 110.0 |         |
| 10062-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.62 | 66.99 | 16.77 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.83 | 66.75 | 16.66 |      | 100.0 |         |
|           |                                                | Z | 4.75 | 66.51 | 16.38 |      | 100.0 |         |
| 10063-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.64 | 67.08 | 16.86 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.86 | 66.87 | 16.78 |      | 100.0 |         |
|           |                                                | Z | 4.77 | 66.60 | 16.47 |      | 100.0 |         |
| 10064-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 4.89 | 67.27 | 17.04 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.19 | 67.18 | 17.02 |      | 100.0 |         |
|           |                                                | Z | 5.08 | 66.89 | 16.71 |      | 100.0 |         |
| 10065-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 4.77 | 67.14 | 17.11 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.06 | 67.12 | 17.13 |      | 100.0 |         |
|           |                                                | Z | 4.94 | 66.80 | 16.79 |      | 100.0 |         |
| 10066-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 4.78 | 67.15 | 17.25 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.09 | 67.18 | 17.31 |      | 100.0 |         |
|           |                                                | Z | 4.97 | 66.83 | 16.94 |      | 100.0 |         |
| 10067-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 5.07 | 67.35 | 17.68 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.38 | 67.26 | 17.72 |      | 100.0 |         |
|           |                                                | Z | 5.26 | 66.92 | 17.34 |      | 100.0 |         |
| 10068-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 5.11 | 67.30 | 17.84 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.48 | 67.51 | 18.02 |      | 100.0 |         |
|           |                                                | Z | 5.34 | 67.10 | 17.60 |      | 100.0 |         |
| 10069-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.18 | 67.33 | 18.03 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.55 | 67.43 | 18.19 |      | 100.0 |         |
|           |                                                | Z | 5.42 | 67.05 | 17.77 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 4.92 | 67.02 | 17.54 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.15 | 66.91 | 17.55 |      | 100.0 |         |
|           |                                                | Z | 5.05 | 66.61 | 17.20 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 4.89 | 67.32 | 17.73 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.18 | 67.36 | 17.81 |      | 100.0 |         |
|           |                                                | Z | 5.06 | 66.97 | 17.41 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 4.97 | 67.51 | 18.05 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.26 | 67.57 | 18.16 |      | 100.0 |         |
|           |                                                | Z | 5.13 | 67.15 | 17.71 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 4.97 | 67.45 | 18.19 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.25 | 67.52 | 18.35 |      | 100.0 |         |
|           |                                                | Z | 5.12 | 67.08 | 17.88 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 5.01 | 67.53 | 18.46 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.35 | 67.85 | 18.77 |      | 90.0  |         |
|           |                                                | Z | 5.20 | 67.32 | 18.23 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 5.05 | 67.39 | 18.61 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.33 | 67.57 | 18.84 |      | 90.0  |         |
|           |                                                | Z | 5.20 | 67.09 | 18.32 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 5.08 | 67.49 | 18.72 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.35 | 67.63 | 18.93 |      | 90.0  |         |
|           |                                                | Z | 5.23 | 67.15 | 18.41 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 1.31   | 72.98  | 15.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.11   | 69.20  | 15.13 |      | 150.0 |         |
|           |                                                     | Z | 0.87   | 65.58  | 12.79 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 0.85   | 60.00  | 5.02  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 1.21   | 60.81  | 6.24  |      | 80.0  |         |
|           |                                                     | Z | 1.05   | 60.00  | 5.50  |      | 80.0  |         |
| 10090-DAB | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 112.28 | 25.96 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 115.46 | 28.15 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 112.45 | 26.54 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 2.10   | 70.95  | 17.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.95   | 68.39  | 16.42 |      | 150.0 |         |
|           |                                                     | Z | 1.81   | 67.01  | 15.42 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 2.06   | 70.93  | 17.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 1.91   | 68.38  | 16.41 |      | 150.0 |         |
|           |                                                     | Z | 1.77   | 66.95  | 15.38 |      | 150.0 |         |
| 10099-DAB | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 9.76   | 91.94  | 32.20 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 18.08  | 104.66 | 36.54 |      | 60.0  |         |
|           |                                                     | Z | 11.25  | 92.22  | 31.54 |      | 60.0  |         |
| 10100-CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 3.35   | 72.13  | 17.90 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.43   | 71.55  | 17.33 |      | 150.0 |         |
|           |                                                     | Z | 3.14   | 69.99  | 16.48 |      | 150.0 |         |
| 10101-CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.28   | 68.30  | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.42   | 68.10  | 16.32 |      | 150.0 |         |
|           |                                                     | Z | 3.28   | 67.37  | 15.82 |      | 150.0 |         |
| 10102-CAB | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.39   | 68.25  | 16.67 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.51   | 67.99  | 16.38 |      | 150.0 |         |
|           |                                                     | Z | 3.39   | 67.35  | 15.92 |      | 150.0 |         |
| 10103-CAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 6.41   | 75.89  | 20.51 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 7.77   | 77.49  | 21.00 |      | 65.0  |         |
|           |                                                     | Z | 6.54   | 74.47  | 19.52 |      | 65.0  |         |
| 10104-CAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 6.38   | 73.95  | 20.45 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 7.62   | 75.73  | 21.18 |      | 65.0  |         |
|           |                                                     | Z | 6.97   | 74.03  | 20.17 |      | 65.0  |         |
| 10105-CAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 5.88   | 72.23  | 19.98 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 7.31   | 74.91  | 21.13 |      | 65.0  |         |
|           |                                                     | Z | 6.85   | 73.64  | 20.32 |      | 65.0  |         |
| 10108-CAC | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 2.91   | 71.53  | 17.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.02   | 70.68  | 17.15 |      | 150.0 |         |
|           |                                                     | Z | 2.76   | 69.18  | 16.29 |      | 150.0 |         |
| 10109-CAC | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 2.95   | 68.44  | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.08   | 67.93  | 16.28 |      | 150.0 |         |
|           |                                                     | Z | 2.95   | 67.17  | 15.72 |      | 150.0 |         |
| 10110-CAC | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 2.39   | 71.08  | 17.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.47   | 69.75  | 16.86 |      | 150.0 |         |
|           |                                                     | Z | 2.25   | 68.18  | 15.88 |      | 150.0 |         |
| 10111-CAC | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 2.79   | 70.36  | 17.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.80   | 68.64  | 16.65 |      | 150.0 |         |
|           |                                                     | Z | 2.65   | 67.83  | 16.01 |      | 150.0 |         |

|           |                                                |   |      |       |       |      |       |         |
|-----------|------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10112-CAC | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 3.07 | 68.42 | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.20 | 67.83 | 16.29 |      | 150.0 |         |
|           |                                                | Z | 3.07 | 67.16 | 15.79 |      | 150.0 |         |
| 10113-CAC | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 2.94 | 70.45 | 17.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.95 | 68.67 | 16.72 |      | 150.0 |         |
|           |                                                | Z | 2.81 | 67.97 | 16.15 |      | 150.0 |         |
| 10114-CAB | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.09 | 67.47 | 16.77 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.23 | 67.24 | 16.53 |      | 150.0 |         |
|           |                                                | Z | 5.18 | 67.08 | 16.35 |      | 150.0 |         |
| 10115-CAB | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.34 | 67.51 | 16.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.60 | 67.53 | 16.67 |      | 150.0 |         |
|           |                                                | Z | 5.52 | 67.36 | 16.50 |      | 150.0 |         |
| 10116-CAB | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.18 | 67.67 | 16.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.36 | 67.51 | 16.58 |      | 150.0 |         |
|           |                                                | Z | 5.29 | 67.32 | 16.39 |      | 150.0 |         |
| 10117-CAB | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.07 | 67.38 | 16.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.24 | 67.25 | 16.55 |      | 150.0 |         |
|           |                                                | Z | 5.16 | 67.03 | 16.34 |      | 150.0 |         |
| 10118-CAB | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.42 | 67.71 | 16.89 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.67 | 67.69 | 16.76 |      | 150.0 |         |
|           |                                                | Z | 5.59 | 67.53 | 16.59 |      | 150.0 |         |
| 10119-CAB | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.17 | 67.64 | 16.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.33 | 67.45 | 16.57 |      | 150.0 |         |
|           |                                                | Z | 5.26 | 67.25 | 16.37 |      | 150.0 |         |
| 10140-CAB | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 3.41 | 68.25 | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.56 | 67.99 | 16.30 |      | 150.0 |         |
|           |                                                | Z | 3.43 | 67.35 | 15.84 |      | 150.0 |         |
| 10141-CAB | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 3.54 | 68.37 | 16.75 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.68 | 68.01 | 16.43 |      | 150.0 |         |
|           |                                                | Z | 3.56 | 67.45 | 16.01 |      | 150.0 |         |
| 10142-CAC | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 2.25 | 71.96 | 17.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.26 | 69.83 | 16.74 |      | 150.0 |         |
|           |                                                | Z | 2.02 | 68.09 | 15.61 |      | 150.0 |         |
| 10143-CAC | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 2.82 | 72.22 | 17.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.71 | 69.55 | 16.65 |      | 150.0 |         |
|           |                                                | Z | 2.52 | 68.51 | 15.83 |      | 150.0 |         |
| 10144-CAC | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 2.29 | 68.06 | 14.75 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.50 | 67.47 | 15.19 |      | 150.0 |         |
|           |                                                | Z | 2.32 | 66.44 | 14.34 |      | 150.0 |         |
| 10145-CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 1.16 | 65.56 | 11.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 1.65 | 68.53 | 14.65 |      | 150.0 |         |
|           |                                                | Z | 1.36 | 65.83 | 12.76 |      | 150.0 |         |
| 10146-CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 1.35 | 63.40 | 9.39  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.12 | 72.00 | 15.52 |      | 150.0 |         |
|           |                                                | Z | 2.16 | 67.04 | 12.61 |      | 150.0 |         |
| 10147-CAC | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 1.53 | 64.72 | 10.19 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 4.03 | 75.63 | 17.18 |      | 150.0 |         |
|           |                                                | Z | 2.54 | 69.13 | 13.74 |      | 150.0 |         |

|           |                                            |   |      |       |       |      |       |         |
|-----------|--------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10149-CAB | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 2.96 | 68.52 | 16.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.09 | 67.99 | 16.32 |      | 150.0 |         |
|           |                                            | Z | 2.96 | 67.23 | 15.77 |      | 150.0 |         |
| 10150-CAB | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 3.08 | 68.50 | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.21 | 67.88 | 16.33 |      | 150.0 |         |
|           |                                            | Z | 3.08 | 67.21 | 15.83 |      | 150.0 |         |
| 10151-CAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 7.03 | 79.10 | 21.82 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.21 | 79.75 | 22.00 |      | 65.0  |         |
|           |                                            | Z | 7.10 | 77.15 | 20.67 |      | 65.0  |         |
| 10152-CAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 5.92 | 73.94 | 20.06 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 7.21 | 75.88 | 21.03 |      | 65.0  |         |
|           |                                            | Z | 6.48 | 73.87 | 19.84 |      | 65.0  |         |
| 10153-CAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 6.35 | 75.11 | 20.94 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 7.55 | 76.62 | 21.69 |      | 65.0  |         |
|           |                                            | Z | 6.87 | 74.79 | 20.60 |      | 65.0  |         |
| 10154-CAC | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 2.46 | 71.67 | 17.92 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.54 | 70.24 | 17.15 |      | 150.0 |         |
|           |                                            | Z | 2.30 | 68.63 | 16.17 |      | 150.0 |         |
| 10155-CAC | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 2.79 | 70.40 | 17.33 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.80 | 68.64 | 16.65 |      | 150.0 |         |
|           |                                            | Z | 2.66 | 67.83 | 16.02 |      | 150.0 |         |
| 10156-CAC | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 2.17 | 72.73 | 17.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.14 | 70.24 | 16.79 |      | 150.0 |         |
|           |                                            | Z | 1.88 | 68.21 | 15.48 |      | 150.0 |         |
| 10157-CAC | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 2.21 | 69.24 | 14.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.36 | 68.31 | 15.46 |      | 150.0 |         |
|           |                                            | Z | 2.15 | 66.99 | 14.43 |      | 150.0 |         |
| 10158-CAC | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 2.95 | 70.56 | 17.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.95 | 68.72 | 16.76 |      | 150.0 |         |
|           |                                            | Z | 2.82 | 68.03 | 16.20 |      | 150.0 |         |
| 10159-CAC | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 2.36 | 69.87 | 15.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.49 | 68.78 | 15.76 |      | 150.0 |         |
|           |                                            | Z | 2.27 | 67.50 | 14.75 |      | 150.0 |         |
| 10160-CAB | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 2.90 | 70.47 | 17.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 2.94 | 69.28 | 16.77 |      | 150.0 |         |
|           |                                            | Z | 2.76 | 68.21 | 16.07 |      | 150.0 |         |
| 10161-CAB | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 2.98 | 68.55 | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.10 | 67.79 | 16.29 |      | 150.0 |         |
|           |                                            | Z | 2.98 | 67.13 | 15.77 |      | 150.0 |         |
| 10162-CAB | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 3.10 | 68.74 | 16.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.21 | 67.84 | 16.35 |      | 150.0 |         |
|           |                                            | Z | 3.09 | 67.25 | 15.86 |      | 150.0 |         |
| 10166-CAC | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 3.31 | 69.42 | 19.40 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.85 | 69.94 | 19.41 |      | 150.0 |         |
|           |                                            | Z | 3.63 | 68.92 | 18.65 |      | 150.0 |         |
| 10167-CAC | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 3.89 | 72.11 | 19.78 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.89 | 73.20 | 20.04 |      | 150.0 |         |
|           |                                            | Z | 4.45 | 71.60 | 19.05 |      | 150.0 |         |

|           |                                            |   |       |        |       |      |       |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10168-CAC | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 4.43  | 75.02  | 21.48 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.37  | 75.20  | 21.21 |      | 150.0 |         |
|           |                                            | Z | 4.92  | 73.76  | 20.36 |      | 150.0 |         |
| 10169-CAB | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 2.61  | 67.65  | 18.68 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.41  | 71.01  | 19.90 |      | 150.0 |         |
|           |                                            | Z | 3.09  | 68.90  | 18.61 |      | 150.0 |         |
| 10170-CAB | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 3.32  | 73.16  | 21.10 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.09  | 78.14  | 22.55 |      | 150.0 |         |
|           |                                            | Z | 4.27  | 74.69  | 20.88 |      | 150.0 |         |
| 10171-AAB | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 2.74  | 69.02  | 18.13 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.10  | 73.53  | 19.72 |      | 150.0 |         |
|           |                                            | Z | 3.48  | 70.44  | 18.07 |      | 150.0 |         |
| 10172-CAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 5.53  | 83.56  | 25.72 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 21.34 | 105.31 | 32.41 |      | 65.0  |         |
|           |                                            | Z | 7.30  | 84.26  | 24.94 |      | 65.0  |         |
| 10173-CAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 10.58 | 92.60  | 26.95 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 29.30 | 105.74 | 30.57 |      | 65.0  |         |
|           |                                            | Z | 12.37 | 90.08  | 25.23 |      | 65.0  |         |
| 10174-CAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 7.41  | 85.53  | 24.05 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 21.20 | 98.69  | 27.99 |      | 65.0  |         |
|           |                                            | Z | 10.53 | 86.42  | 23.55 |      | 65.0  |         |
| 10175-CAC | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 2.58  | 67.36  | 18.42 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.37  | 70.66  | 19.64 |      | 150.0 |         |
|           |                                            | Z | 3.05  | 68.56  | 18.35 |      | 150.0 |         |
| 10176-CAC | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 3.33  | 73.19  | 21.11 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.10  | 78.16  | 22.56 |      | 150.0 |         |
|           |                                            | Z | 4.27  | 74.71  | 20.89 |      | 150.0 |         |
| 10177-CAE | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 2.60  | 67.50  | 18.51 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.40  | 70.83  | 19.75 |      | 150.0 |         |
|           |                                            | Z | 3.07  | 68.74  | 18.46 |      | 150.0 |         |
| 10178-CAC | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 3.30  | 73.00  | 21.00 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.02  | 77.85  | 22.40 |      | 150.0 |         |
|           |                                            | Z | 4.22  | 74.44  | 20.74 |      | 150.0 |         |
| 10179-CAC | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 3.00  | 71.00  | 19.50 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.55  | 75.67  | 20.98 |      | 150.0 |         |
|           |                                            | Z | 3.82  | 72.37  | 19.31 |      | 150.0 |         |
| 10180-CAC | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 2.73  | 68.97  | 18.09 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.08  | 73.43  | 19.65 |      | 150.0 |         |
|           |                                            | Z | 3.47  | 70.35  | 18.01 |      | 150.0 |         |
| 10181-CAB | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 2.59  | 67.48  | 18.51 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.39  | 70.81  | 19.74 |      | 150.0 |         |
|           |                                            | Z | 3.07  | 68.71  | 18.45 |      | 150.0 |         |
| 10182-CAB | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 3.30  | 72.98  | 20.99 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.01  | 77.82  | 22.39 |      | 150.0 |         |
|           |                                            | Z | 4.21  | 74.41  | 20.73 |      | 150.0 |         |
| 10183-AAA | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 2.73  | 68.94  | 18.08 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.07  | 73.40  | 19.64 |      | 150.0 |         |
|           |                                            | Z | 3.46  | 70.33  | 18.00 |      | 150.0 |         |

|           |                                               |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10184-CAC | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 2.60 | 67.52 | 18.53 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.40 | 70.86 | 19.76 |      | 150.0 |         |
|           |                                               | Z | 3.08 | 68.76 | 18.47 |      | 150.0 |         |
| 10185-CAC | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 3.31 | 73.05 | 21.03 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.04 | 77.90 | 22.43 |      | 150.0 |         |
|           |                                               | Z | 4.23 | 74.49 | 20.77 |      | 150.0 |         |
| 10186-AAC | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 2.74 | 69.01 | 18.12 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.10 | 73.47 | 19.68 |      | 150.0 |         |
|           |                                               | Z | 3.48 | 70.39 | 18.03 |      | 150.0 |         |
| 10187-CAC | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 2.61 | 67.58 | 18.60 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.41 | 70.90 | 19.81 |      | 150.0 |         |
|           |                                               | Z | 3.09 | 68.80 | 18.52 |      | 150.0 |         |
| 10188-CAC | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 3.41 | 73.70 | 21.42 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.24 | 78.69 | 22.84 |      | 150.0 |         |
|           |                                               | Z | 4.38 | 75.22 | 21.18 |      | 150.0 |         |
| 10189-AAC | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 2.80 | 69.41 | 18.40 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.20 | 73.97 | 19.98 |      | 150.0 |         |
|           |                                               | Z | 3.56 | 70.83 | 18.32 |      | 150.0 |         |
| 10193-CAB | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.49 | 67.07 | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.67 | 66.69 | 16.32 |      | 150.0 |         |
|           |                                               | Z | 4.59 | 66.49 | 16.09 |      | 150.0 |         |
| 10194-CAB | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.64 | 67.34 | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.86 | 67.05 | 16.43 |      | 150.0 |         |
|           |                                               | Z | 4.77 | 66.83 | 16.21 |      | 150.0 |         |
| 10195-CAB | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.68 | 67.36 | 16.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.90 | 67.06 | 16.44 |      | 150.0 |         |
|           |                                               | Z | 4.82 | 66.86 | 16.22 |      | 150.0 |         |
| 10196-CAB | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.48 | 67.10 | 16.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.68 | 66.78 | 16.36 |      | 150.0 |         |
|           |                                               | Z | 4.60 | 66.57 | 16.12 |      | 150.0 |         |
| 10197-CAB | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.66 | 67.35 | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.88 | 67.07 | 16.45 |      | 150.0 |         |
|           |                                               | Z | 4.79 | 66.86 | 16.22 |      | 150.0 |         |
| 10198-CAB | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.68 | 67.37 | 16.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.91 | 67.08 | 16.45 |      | 150.0 |         |
|           |                                               | Z | 4.82 | 66.87 | 16.23 |      | 150.0 |         |
| 10219-CAB | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.44 | 67.14 | 16.49 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.63 | 66.80 | 16.32 |      | 150.0 |         |
|           |                                               | Z | 4.55 | 66.58 | 16.08 |      | 150.0 |         |
| 10220-CAB | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.65 | 67.31 | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.87 | 67.06 | 16.44 |      | 150.0 |         |
|           |                                               | Z | 4.79 | 66.83 | 16.21 |      | 150.0 |         |
| 10221-CAB | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.69 | 67.30 | 16.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.91 | 67.01 | 16.44 |      | 150.0 |         |
|           |                                               | Z | 4.83 | 66.81 | 16.22 |      | 150.0 |         |
| 10222-CAB | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 5.04 | 67.37 | 16.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.22 | 67.27 | 16.55 |      | 150.0 |         |
|           |                                               | Z | 5.14 | 67.04 | 16.34 |      | 150.0 |         |

|           |                                           |   |       |        |       |      |       |         |
|-----------|-------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10223-CAB | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.33  | 67.57  | 16.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.58  | 67.57  | 16.72 |      | 150.0 |         |
|           |                                           | Z | 5.46  | 67.24  | 16.46 |      | 150.0 |         |
| 10224-CAB | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.08  | 67.48  | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.27  | 67.38  | 16.53 |      | 150.0 |         |
|           |                                           | Z | 5.19  | 67.14  | 16.31 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 2.82  | 67.14  | 15.84 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 2.95  | 66.38  | 15.78 |      | 150.0 |         |
|           |                                           | Z | 2.86  | 65.91  | 15.30 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 11.41 | 94.07  | 27.52 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 31.67 | 107.27 | 31.09 |      | 65.0  |         |
|           |                                           | Z | 13.11 | 91.16  | 25.67 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 11.04 | 92.14  | 26.24 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 24.12 | 100.92 | 28.72 |      | 65.0  |         |
|           |                                           | Z | 11.71 | 88.12  | 24.16 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 7.63  | 90.07  | 28.10 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 23.55 | 107.62 | 33.18 |      | 65.0  |         |
|           |                                           | Z | 10.51 | 91.21  | 27.39 |      | 65.0  |         |
| 10229-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 10.66 | 92.71  | 26.99 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 29.42 | 105.79 | 30.60 |      | 65.0  |         |
|           |                                           | Z | 12.45 | 90.17  | 25.27 |      | 65.0  |         |
| 10230-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 10.25 | 90.80  | 25.74 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 22.68 | 99.76  | 28.30 |      | 65.0  |         |
|           |                                           | Z | 11.15 | 87.26  | 23.80 |      | 65.0  |         |
| 10231-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 7.27  | 89.04  | 27.66 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 22.20 | 106.36 | 32.73 |      | 65.0  |         |
|           |                                           | Z | 10.05 | 90.30  | 27.01 |      | 65.0  |         |
| 10232-CAB | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 10.64 | 92.69  | 26.99 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 29.42 | 105.80 | 30.60 |      | 65.0  |         |
|           |                                           | Z | 12.43 | 90.15  | 25.26 |      | 65.0  |         |
| 10233-CAB | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 10.23 | 90.76  | 25.73 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 22.67 | 99.78  | 28.30 |      | 65.0  |         |
|           |                                           | Z | 11.14 | 87.24  | 23.80 |      | 65.0  |         |
| 10234-CAB | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 6.99  | 88.15  | 27.23 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 20.93 | 105.02 | 32.23 |      | 65.0  |         |
|           |                                           | Z | 9.64  | 89.40  | 26.60 |      | 65.0  |         |
| 10235-CAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 10.65 | 92.73  | 27.00 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 29.50 | 105.86 | 30.62 |      | 65.0  |         |
|           |                                           | Z | 12.44 | 90.18  | 25.27 |      | 65.0  |         |
| 10236-CAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 10.34 | 90.92  | 25.77 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 22.93 | 99.94  | 28.35 |      | 65.0  |         |
|           |                                           | Z | 11.22 | 87.34  | 23.83 |      | 65.0  |         |
| 10237-CAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 7.28  | 89.10  | 27.69 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 22.38 | 106.55 | 32.79 |      | 65.0  |         |
|           |                                           | Z | 10.07 | 90.36  | 27.03 |      | 65.0  |         |
| 10238-CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 10.61 | 92.67  | 26.98 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 29.40 | 105.80 | 30.59 |      | 65.0  |         |
|           |                                           | Z | 12.41 | 90.13  | 25.25 |      | 65.0  |         |

|           |                                            |   |       |        |       |      |      |         |
|-----------|--------------------------------------------|---|-------|--------|-------|------|------|---------|
| 10239-CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 10.19 | 90.73  | 25.72 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 22.65 | 99.78  | 28.31 |      | 65.0 |         |
|           |                                            | Z | 11.11 | 87.22  | 23.79 |      | 65.0 |         |
| 10240-CAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 7.26  | 89.06  | 27.67 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 22.30 | 106.48 | 32.77 |      | 65.0 |         |
|           |                                            | Z | 10.04 | 90.32  | 27.01 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 7.75  | 81.08  | 25.21 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 10.21 | 83.82  | 26.43 |      | 65.0 |         |
|           |                                            | Z | 8.73  | 80.32  | 24.52 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 6.80  | 78.38  | 24.02 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.63  | 82.52  | 25.83 |      | 65.0 |         |
|           |                                            | Z | 8.38  | 79.47  | 24.10 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 5.61  | 75.06  | 23.46 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.74  | 79.46  | 25.50 |      | 65.0 |         |
|           |                                            | Z | 6.88  | 76.70  | 23.79 |      | 65.0 |         |
| 10244-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 4.85  | 72.20  | 16.09 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.02  | 78.99  | 20.43 |      | 65.0 |         |
|           |                                            | Z | 6.19  | 74.48  | 17.94 |      | 65.0 |         |
| 10245-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 4.70  | 71.53  | 15.74 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.89  | 78.48  | 20.19 |      | 65.0 |         |
|           |                                            | Z | 6.13  | 74.10  | 17.74 |      | 65.0 |         |
| 10246-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 5.22  | 76.54  | 18.28 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.14  | 82.43  | 21.79 |      | 65.0 |         |
|           |                                            | Z | 5.87  | 76.86  | 19.08 |      | 65.0 |         |
| 10247-CAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 4.92  | 73.01  | 17.55 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.62  | 76.59  | 20.16 |      | 65.0 |         |
|           |                                            | Z | 5.63  | 73.71  | 18.45 |      | 65.0 |         |
| 10248-CAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 4.84  | 72.32  | 17.23 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.62  | 76.08  | 19.95 |      | 65.0 |         |
|           |                                            | Z | 5.66  | 73.31  | 18.26 |      | 65.0 |         |
| 10249-CAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 7.10  | 81.85  | 21.45 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.09  | 84.35  | 23.13 |      | 65.0 |         |
|           |                                            | Z | 6.82  | 79.25  | 20.73 |      | 65.0 |         |
| 10250-CAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 6.14  | 76.72  | 21.07 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.40  | 78.29  | 22.09 |      | 65.0 |         |
|           |                                            | Z | 6.54  | 75.95  | 20.75 |      | 65.0 |         |
| 10251-CAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 5.70  | 74.17  | 19.61 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.04  | 76.19  | 20.94 |      | 65.0 |         |
|           |                                            | Z | 6.27  | 74.04  | 19.64 |      | 65.0 |         |
| 10252-CAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 7.47  | 82.32  | 22.88 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.82  | 83.02  | 23.29 |      | 65.0 |         |
|           |                                            | Z | 7.18  | 79.27  | 21.49 |      | 65.0 |         |
| 10253-CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 5.82  | 73.49  | 19.80 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 6.99  | 75.20  | 20.79 |      | 65.0 |         |
|           |                                            | Z | 6.34  | 73.34  | 19.64 |      | 65.0 |         |
| 10254-CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 6.20  | 74.53  | 20.56 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.35  | 75.96  | 21.41 |      | 65.0 |         |
|           |                                            | Z | 6.71  | 74.22  | 20.33 |      | 65.0 |         |

|           |                                             |   |      |       |       |      |      |         |
|-----------|---------------------------------------------|---|------|-------|-------|------|------|---------|
| 10255-CAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 6.71 | 78.47 | 21.74 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.84 | 79.18 | 22.03 |      | 65.0 |         |
|           |                                             | Z | 6.83 | 76.67 | 20.70 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 3.47 | 67.38 | 12.72 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.90 | 76.38 | 18.57 |      | 65.0 |         |
|           |                                             | Z | 5.11 | 71.48 | 15.77 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 3.38 | 66.76 | 12.32 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.74 | 75.67 | 18.20 |      | 65.0 |         |
|           |                                             | Z | 5.05 | 70.99 | 15.48 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 3.49 | 70.18 | 14.59 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.78 | 79.22 | 19.98 |      | 65.0 |         |
|           |                                             | Z | 4.80 | 73.56 | 17.06 |      | 65.0 |         |
| 10259-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 5.42 | 74.50 | 18.87 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.93 | 77.16 | 20.83 |      | 65.0 |         |
|           |                                             | Z | 5.98 | 74.51 | 19.26 |      | 65.0 |         |
| 10260-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 5.41 | 74.15 | 18.72 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 6.95 | 76.90 | 20.74 |      | 65.0 |         |
|           |                                             | Z | 6.03 | 74.34 | 19.21 |      | 65.0 |         |
| 10261-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 6.87 | 81.15 | 21.70 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.53 | 83.00 | 22.95 |      | 65.0 |         |
|           |                                             | Z | 6.70 | 78.62 | 20.83 |      | 65.0 |         |
| 10262-CAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 6.12 | 76.64 | 21.02 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.39 | 78.26 | 22.06 |      | 65.0 |         |
|           |                                             | Z | 6.53 | 75.90 | 20.71 |      | 65.0 |         |
| 10263-CAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 5.69 | 74.15 | 19.60 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.03 | 76.18 | 20.94 |      | 65.0 |         |
|           |                                             | Z | 6.26 | 74.03 | 19.63 |      | 65.0 |         |
| 10264-CAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 7.38 | 82.08 | 22.77 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.75 | 82.86 | 23.22 |      | 65.0 |         |
|           |                                             | Z | 7.12 | 79.11 | 21.41 |      | 65.0 |         |
| 10265-CAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 5.92 | 73.94 | 20.06 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.20 | 75.88 | 21.03 |      | 65.0 |         |
|           |                                             | Z | 6.48 | 73.87 | 19.85 |      | 65.0 |         |
| 10266-CAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 6.35 | 75.09 | 20.93 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.55 | 76.61 | 21.68 |      | 65.0 |         |
|           |                                             | Z | 6.86 | 74.78 | 20.59 |      | 65.0 |         |
| 10267-CAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 7.01 | 79.05 | 21.80 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.19 | 79.71 | 21.98 |      | 65.0 |         |
|           |                                             | Z | 7.09 | 77.11 | 20.65 |      | 65.0 |         |
| 10268-CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 6.54 | 73.87 | 20.51 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.70 | 75.41 | 21.18 |      | 65.0 |         |
|           |                                             | Z | 7.12 | 73.89 | 20.25 |      | 65.0 |         |
| 10269-CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 6.52 | 73.47 | 20.39 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.63 | 74.96 | 21.06 |      | 65.0 |         |
|           |                                             | Z | 7.08 | 73.52 | 20.16 |      | 65.0 |         |
| 10270-CAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 6.72 | 76.10 | 20.81 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.77 | 76.91 | 21.02 |      | 65.0 |         |
|           |                                             | Z | 7.04 | 75.13 | 20.02 |      | 65.0 |         |

|           |                                                                    |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 2.68   | 67.93  | 16.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.70   | 66.71  | 15.69 |      | 150.0 |         |
|           |                                                                    | Z | 2.60   | 66.12  | 15.13 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 1.86   | 71.35  | 17.51 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.79   | 69.27  | 16.54 |      | 150.0 |         |
|           |                                                                    | Z | 1.60   | 67.20  | 15.22 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 2.51   | 62.07  | 7.69  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 3.60   | 65.47  | 10.92 |      | 50.0  |         |
|           |                                                                    | Z | 3.21   | 64.00  | 9.69  |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 4.14   | 68.90  | 13.57 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 8.03   | 79.56  | 19.93 |      | 50.0  |         |
|           |                                                                    | Z | 5.72   | 73.56  | 16.82 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 4.23   | 69.12  | 13.72 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 8.23   | 79.82  | 20.06 |      | 50.0  |         |
|           |                                                                    | Z | 5.85   | 73.80  | 16.95 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 2.16   | 75.12  | 16.21 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.91   | 71.91  | 16.34 |      | 150.0 |         |
|           |                                                                    | Z | 1.49   | 68.32  | 14.21 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 1.24   | 72.30  | 15.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.08   | 68.86  | 14.96 |      | 150.0 |         |
|           |                                                                    | Z | 0.85   | 65.38  | 12.66 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 13.33  | 104.67 | 25.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.50   | 74.81  | 18.02 |      | 150.0 |         |
|           |                                                                    | Z | 1.03   | 68.79  | 14.75 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 100.00 | 135.60 | 33.89 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.41   | 82.36  | 21.43 |      | 150.0 |         |
|           |                                                                    | Z | 1.44   | 73.75  | 17.42 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 11.05  | 85.41  | 22.93 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 8.87   | 82.92  | 23.80 |      | 50.0  |         |
|           |                                                                    | Z | 7.57   | 79.23  | 21.65 |      | 50.0  |         |
| 10297-AAA | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 2.93   | 71.67  | 17.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 3.03   | 70.79  | 17.22 |      | 150.0 |         |
|           |                                                                    | Z | 2.77   | 69.28  | 16.35 |      | 150.0 |         |
| 10298-AAB | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 1.80   | 70.98  | 15.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 1.94   | 70.01  | 16.02 |      | 150.0 |         |
|           |                                                                    | Z | 1.64   | 67.53  | 14.38 |      | 150.0 |         |
| 10299-AAB | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 2.25   | 68.93  | 13.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 3.57   | 73.44  | 16.90 |      | 150.0 |         |
|           |                                                                    | Z | 2.68   | 69.23  | 14.47 |      | 150.0 |         |
| 10300-AAB | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 1.52   | 63.47  | 9.92  | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.60   | 68.00  | 13.77 |      | 150.0 |         |
|           |                                                                    | Z | 2.12   | 65.38  | 11.93 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 4.73   | 66.14  | 17.79 | 4.17 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.14   | 66.14  | 17.98 |      | 50.0  |         |
|           |                                                                    | Z | 4.87   | 65.30  | 17.38 |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 5.19   | 66.64  | 18.43 | 4.96 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.69   | 67.11  | 18.91 |      | 50.0  |         |
|           |                                                                    | Z | 5.42   | 66.20  | 18.24 |      | 50.0  |         |

|           |                                                                     |   |      |       |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.96 | 66.34 | 18.27 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 5.48 | 66.96 | 18.88 |       | 50.0  |         |
|           |                                                                     | Z | 5.20 | 65.95 | 18.14 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 4.76 | 66.23 | 17.80 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 5.21 | 66.54 | 18.19 |       | 50.0  |         |
|           |                                                                     | Z | 4.96 | 65.68 | 17.56 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 4.83 | 70.07 | 20.50 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.51 | 71.60 | 22.16 |       | 35.0  |         |
|           |                                                                     | Z | 4.98 | 69.23 | 20.55 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 4.91 | 68.09 | 19.77 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.42 | 68.18 | 20.25 |       | 35.0  |         |
|           |                                                                     | Z | 5.11 | 67.47 | 19.73 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 4.83 | 68.37 | 19.78 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.47 | 69.61 | 21.06 |       | 35.0  |         |
|           |                                                                     | Z | 5.07 | 67.89 | 19.81 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 4.84 | 68.69 | 19.98 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.46 | 69.92 | 21.24 |       | 35.0  |         |
|           |                                                                     | Z | 5.05 | 68.12 | 19.96 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 4.94 | 68.23 | 19.88 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.52 | 68.51 | 20.43 |       | 35.0  |         |
|           |                                                                     | Z | 5.19 | 67.72 | 19.88 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 4.88 | 68.25 | 19.79 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.44 | 69.18 | 20.91 |       | 35.0  |         |
|           |                                                                     | Z | 5.08 | 67.61 | 19.74 |       | 35.0  |         |
| 10311-AAA | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 3.31 | 70.70 | 17.41 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 3.40 | 70.05 | 16.83 |       | 150.0 |         |
|           |                                                                     | Z | 3.13 | 68.65 | 16.04 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 4.31 | 74.90 | 16.96 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 5.76 | 76.90 | 17.84 |       | 70.0  |         |
|           |                                                                     | Z | 4.08 | 72.13 | 15.67 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 7.33 | 84.94 | 23.33 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 7.31 | 83.11 | 22.80 |       | 30.0  |         |
|           |                                                                     | Z | 4.98 | 76.71 | 20.14 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.15 | 65.39 | 16.53 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.15 | 64.64 | 15.92 |       | 150.0 |         |
|           |                                                                     | Z | 1.10 | 63.46 | 14.86 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.52 | 67.01 | 16.57 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.73 | 66.76 | 16.44 |       | 150.0 |         |
|           |                                                                     | Z | 4.65 | 66.51 | 16.17 |       | 150.0 |         |
| 10317-AAB | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.52 | 67.01 | 16.57 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.73 | 66.76 | 16.44 |       | 150.0 |         |
|           |                                                                     | Z | 4.65 | 66.51 | 16.17 |       | 150.0 |         |
| 10400-AAC | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.62 | 67.36 | 16.62 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.87 | 67.12 | 16.43 |       | 150.0 |         |
|           |                                                                     | Z | 4.77 | 66.88 | 16.19 |       | 150.0 |         |
| 10401-AAC | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.32 | 67.33 | 16.68 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.49 | 67.16 | 16.50 |       | 150.0 |         |
|           |                                                                     | Z | 5.43 | 67.01 | 16.32 |       | 150.0 |         |

|           |                                                                                |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAC | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                            | X | 5.60   | 67.66  | 16.72 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.79   | 67.68  | 16.60 |      | 150.0 |         |
|           |                                                                                | Z | 5.72   | 67.47  | 16.40 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                     | X | 2.16   | 75.12  | 16.21 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                | Y | 1.91   | 71.91  | 16.34 |      | 115.0 |         |
|           |                                                                                | Z | 1.49   | 68.32  | 14.21 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                     | X | 2.16   | 75.12  | 16.21 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                | Y | 1.91   | 71.91  | 16.34 |      | 115.0 |         |
|           |                                                                                | Z | 1.49   | 68.32  | 14.21 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                           | X | 100.00 | 127.59 | 32.37 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                | Y | 100.00 | 123.98 | 31.83 |      | 100.0 |         |
|           |                                                                                | Z | 14.26  | 95.15  | 24.05 |      | 100.0 |         |
| 10410-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                 | X | 100.00 | 124.06 | 30.89 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                | Y | 100.00 | 119.95 | 30.07 |      | 80.0  |         |
|           |                                                                                | Z | 11.66  | 89.63  | 21.52 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                      | X | 1.06   | 64.51  | 16.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 1.04   | 63.51  | 15.25 |      | 150.0 |         |
|           |                                                                                | Z | 1.01   | 62.60  | 14.33 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                  | X | 4.49   | 67.08  | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.67   | 66.72  | 16.37 |      | 150.0 |         |
|           |                                                                                | Z | 4.59   | 66.53  | 16.14 |      | 150.0 |         |
| 10417-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                      | X | 4.49   | 67.08  | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.67   | 66.72  | 16.37 |      | 150.0 |         |
|           |                                                                                | Z | 4.59   | 66.53  | 16.14 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)  | X | 4.49   | 67.30  | 16.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.65   | 66.87  | 16.37 |      | 150.0 |         |
|           |                                                                                | Z | 4.58   | 66.67  | 16.15 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble) | X | 4.50   | 67.22  | 16.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.68   | 66.82  | 16.38 |      | 150.0 |         |
|           |                                                                                | Z | 4.60   | 66.63  | 16.16 |      | 150.0 |         |
| 10422-AAA | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                   | X | 4.61   | 67.18  | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.80   | 66.83  | 16.39 |      | 150.0 |         |
|           |                                                                                | Z | 4.73   | 66.64  | 16.18 |      | 150.0 |         |
| 10423-AAA | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                | X | 4.75   | 67.46  | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.00   | 67.20  | 16.53 |      | 150.0 |         |
|           |                                                                                | Z | 4.91   | 66.98  | 16.30 |      | 150.0 |         |
| 10424-AAA | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                | X | 4.68   | 67.42  | 16.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.91   | 67.14  | 16.49 |      | 150.0 |         |
|           |                                                                                | Z | 4.82   | 66.93  | 16.27 |      | 150.0 |         |
| 10425-AAA | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                    | X | 5.29   | 67.59  | 16.82 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.47   | 67.41  | 16.61 |      | 150.0 |         |
|           |                                                                                | Z | 5.41   | 67.25  | 16.44 |      | 150.0 |         |
| 10426-AAA | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                  | X | 5.31   | 67.68  | 16.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.48   | 67.44  | 16.63 |      | 150.0 |         |
|           |                                                                                | Z | 5.41   | 67.26  | 16.44 |      | 150.0 |         |

|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAA | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.29   | 67.52  | 16.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.50   | 67.46  | 16.63 |      | 150.0 |         |
|           |                                                                | Z | 5.43   | 67.26  | 16.43 |      | 150.0 |         |
| 10430-AAA | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 4.63   | 73.67  | 19.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.38   | 70.39  | 18.28 |      | 150.0 |         |
|           |                                                                | Z | 4.34   | 70.59  | 18.21 |      | 150.0 |         |
| 10431-AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.15   | 67.84  | 16.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.40   | 67.31  | 16.45 |      | 150.0 |         |
|           |                                                                | Z | 4.29   | 67.04  | 16.16 |      | 150.0 |         |
| 10432-AAA | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.45   | 67.57  | 16.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.69   | 67.19  | 16.47 |      | 150.0 |         |
|           |                                                                | Z | 4.59   | 66.95  | 16.22 |      | 150.0 |         |
| 10433-AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.70   | 67.46  | 16.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.93   | 67.18  | 16.52 |      | 150.0 |         |
|           |                                                                | Z | 4.84   | 66.96  | 16.29 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 4.94   | 75.22  | 19.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.49   | 71.19  | 18.31 |      | 150.0 |         |
|           |                                                                | Z | 4.45   | 71.43  | 18.22 |      | 150.0 |         |
| 10435-AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 123.75 | 30.75 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 100.00 | 119.75 | 29.98 |      | 80.0  |         |
|           |                                                                | Z | 11.13  | 88.92  | 21.27 |      | 80.0  |         |
| 10447-AAA | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 3.46   | 68.09  | 15.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.73   | 67.44  | 16.02 |      | 150.0 |         |
|           |                                                                | Z | 3.59   | 67.02  | 15.56 |      | 150.0 |         |
| 10448-AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 4.01   | 67.64  | 16.48 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.23   | 67.09  | 16.31 |      | 150.0 |         |
|           |                                                                | Z | 4.12   | 66.82  | 16.01 |      | 150.0 |         |
| 10449-AAA | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.28   | 67.42  | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.48   | 67.02  | 16.38 |      | 150.0 |         |
|           |                                                                | Z | 4.39   | 66.78  | 16.12 |      | 150.0 |         |
| 10450-AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.48   | 67.25  | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.66   | 66.95  | 16.38 |      | 150.0 |         |
|           |                                                                | Z | 4.58   | 66.72  | 16.14 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 3.33   | 68.18  | 15.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.67   | 67.76  | 15.79 |      | 150.0 |         |
|           |                                                                | Z | 3.50   | 67.23  | 15.24 |      | 150.0 |         |
| 10456-AAA | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.23   | 68.21  | 17.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.33   | 68.03  | 16.78 |      | 150.0 |         |
|           |                                                                | Z | 6.26   | 67.85  | 16.61 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.79   | 65.76  | 16.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.86   | 65.36  | 16.10 |      | 150.0 |         |
|           |                                                                | Z | 3.82   | 65.17  | 15.85 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 3.05   | 67.01  | 14.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.48   | 67.05  | 15.31 |      | 150.0 |         |
|           |                                                                | Z | 3.32   | 66.56  | 14.71 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 4.19   | 65.60  | 15.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.63   | 65.36  | 16.07 |      | 150.0 |         |
|           |                                                                | Z | 4.50   | 65.15  | 15.72 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 1.27   | 75.41  | 20.14 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 1.05   | 70.71  | 17.81 |      | 150.0 |         |
|           |                                                                   | Z | 0.86   | 66.76  | 15.37 |      | 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 | 127.84 | 32.72 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 123.27 | 31.69 |      | 80.0  |         |
|           |                                                                   | Z | 6.47   | 83.77  | 20.46 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.26   | 63.91  | 10.22 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 14.90  | 86.82  | 19.02 |      | 80.0  |         |
|           |                                                                   | Z | 1.81   | 64.45  | 10.77 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 0.85   | 60.00  | 7.76  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 4.74   | 73.69  | 14.47 |      | 80.0  |         |
|           |                                                                   | Z | 1.46   | 62.00  | 9.21  |      | 80.0  |         |
| 10464-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 124.65 | 31.09 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 121.04 | 30.50 |      | 80.0  |         |
|           |                                                                   | Z | 5.02   | 79.91  | 18.70 |      | 80.0  |         |
| 10465-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.13   | 62.86  | 9.67  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 9.25   | 81.62  | 17.45 |      | 80.0  |         |
|           |                                                                   | Z | 1.69   | 63.74  | 10.38 |      | 80.0  |         |
| 10466-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.85   | 60.00  | 7.71  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 3.78   | 71.31  | 13.57 |      | 80.0  |         |
|           |                                                                   | Z | 1.40   | 61.59  | 8.96  |      | 80.0  |         |
| 10467-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 125.03 | 31.26 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 121.26 | 30.60 |      | 80.0  |         |
|           |                                                                   | Z | 5.32   | 80.71  | 18.99 |      | 80.0  |         |
| 10468-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 1.17   | 63.15  | 9.83  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 10.30  | 82.81  | 17.81 |      | 80.0  |         |
|           |                                                                   | Z | 1.71   | 63.90  | 10.47 |      | 80.0  |         |
| 10469-AAA | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 0.85   | 60.00  | 7.71  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 3.80   | 71.39  | 13.60 |      | 80.0  |         |
|           |                                                                   | Z | 1.40   | 61.60  | 8.96  |      | 80.0  |         |
| 10470-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 125.05 | 31.26 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 121.29 | 30.60 |      | 80.0  |         |
|           |                                                                   | Z | 5.31   | 80.70  | 18.98 |      | 80.0  |         |
| 10471-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 1.16   | 63.09  | 9.79  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 10.21  | 82.69  | 17.77 |      | 80.0  |         |
|           |                                                                   | Z | 1.70   | 63.86  | 10.44 |      | 80.0  |         |
| 10472-AAA | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.85   | 60.00  | 7.70  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 3.77   | 71.31  | 13.56 |      | 80.0  |         |
|           |                                                                   | Z | 1.40   | 61.57  | 8.94  |      | 80.0  |         |
| 10473-AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 125.02 | 31.24 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 121.25 | 30.59 |      | 80.0  |         |
|           |                                                                   | Z | 5.30   | 80.66  | 18.96 |      | 80.0  |         |
| 10474-AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 1.15   | 63.05  | 9.77  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 10.08  | 82.57  | 17.73 |      | 80.0  |         |
|           |                                                                   | Z | 1.70   | 63.84  | 10.43 |      | 80.0  |         |
| 10475-AAA | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 0.85   | 60.00  | 7.70  | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 3.75   | 71.25  | 13.54 |      | 80.0  |         |
|           |                                                                   | Z | 1.39   | 61.55  | 8.93  |      | 80.0  |         |

|           |                                                                     |   |       |       |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|-------|-------|-------|------|------|---------|
| 10477-AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 1.12  | 62.81 | 9.63  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 9.29  | 81.66 | 17.43 |      | 80.0 |         |
|           |                                                                     | Z | 1.68  | 63.69 | 10.35 |      | 80.0 |         |
| 10478-AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 0.85  | 60.00 | 7.69  | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 3.71  | 71.13 | 13.49 |      | 80.0 |         |
|           |                                                                     | Z | 1.39  | 61.52 | 8.91  |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 16.34 | 98.15 | 26.22 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 8.05  | 85.58 | 23.31 |      | 80.0 |         |
|           |                                                                     | Z | 4.44  | 75.80 | 19.08 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 8.15  | 82.28 | 19.17 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 9.14  | 82.89 | 20.82 |      | 80.0 |         |
|           |                                                                     | Z | 4.48  | 72.61 | 16.42 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.98  | 75.50 | 16.46 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 7.94  | 80.29 | 19.62 |      | 80.0 |         |
|           |                                                                     | Z | 4.00  | 70.70 | 15.36 |      | 80.0 |         |
| 10482-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.11  | 72.47 | 16.27 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.49  | 76.30 | 19.03 |      | 80.0 |         |
|           |                                                                     | Z | 2.84  | 69.51 | 15.71 |      | 80.0 |         |
| 10483-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.23  | 69.48 | 14.33 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 6.12  | 77.20 | 19.06 |      | 80.0 |         |
|           |                                                                     | Z | 3.70  | 69.78 | 15.41 |      | 80.0 |         |
| 10484-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 2.99  | 68.30 | 13.84 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.80  | 76.19 | 18.70 |      | 80.0 |         |
|           |                                                                     | Z | 3.62  | 69.26 | 15.20 |      | 80.0 |         |
| 10485-AAA | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.90  | 76.03 | 18.96 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.65  | 76.77 | 19.89 |      | 80.0 |         |
|           |                                                                     | Z | 3.19  | 70.88 | 17.04 |      | 80.0 |         |
| 10486-AAA | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.22  | 69.78 | 15.73 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.07  | 71.59 | 17.54 |      | 80.0 |         |
|           |                                                                     | Z | 3.24  | 68.15 | 15.55 |      | 80.0 |         |
| 10487-AAA | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.17  | 69.19 | 15.46 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.05  | 71.16 | 17.36 |      | 80.0 |         |
|           |                                                                     | Z | 3.26  | 67.91 | 15.45 |      | 80.0 |         |
| 10488-AAA | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.89  | 74.31 | 19.36 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.74  | 75.31 | 19.78 |      | 80.0 |         |
|           |                                                                     | Z | 3.62  | 70.94 | 17.62 |      | 80.0 |         |
| 10489-AAA | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.61  | 70.11 | 17.53 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.17  | 70.61 | 18.05 |      | 80.0 |         |
|           |                                                                     | Z | 3.61  | 68.29 | 16.66 |      | 80.0 |         |
| 10490-AAA | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.68  | 69.86 | 17.43 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.25  | 70.34 | 17.96 |      | 80.0 |         |
|           |                                                                     | Z | 3.72  | 68.19 | 16.64 |      | 80.0 |         |
| 10491-AAA | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 3.96  | 72.11 | 18.69 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.74  | 73.16 | 19.02 |      | 80.0 |         |
|           |                                                                     | Z | 3.92  | 70.03 | 17.39 |      | 80.0 |         |
| 10492-AAA | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.88  | 69.01 | 17.48 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 4.46  | 69.66 | 17.87 |      | 80.0 |         |
|           |                                                                     | Z | 4.00  | 67.90 | 16.78 |      | 80.0 |         |

|           |                                                                      |   |      |       |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|------|-------|-------|------|------|---------|
| 10493-AAA | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.93 | 68.84 | 17.41 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.52 | 69.48 | 17.82 |      | 80.0 |         |
|           |                                                                      | Z | 4.08 | 67.81 | 16.77 |      | 80.0 |         |
| 10494-AAA | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 4.32 | 73.69 | 19.20 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.29 | 75.06 | 19.58 |      | 80.0 |         |
|           |                                                                      | Z | 4.18 | 71.25 | 17.73 |      | 80.0 |         |
| 10495-AAA | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.92 | 69.34 | 17.70 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.53 | 70.19 | 18.09 |      | 80.0 |         |
|           |                                                                      | Z | 4.04 | 68.27 | 16.95 |      | 80.0 |         |
| 10496-AAA | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.98 | 69.05 | 17.60 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.58 | 69.81 | 17.97 |      | 80.0 |         |
|           |                                                                      | Z | 4.12 | 68.07 | 16.91 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 1.72 | 64.88 | 11.75 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.58 | 73.16 | 17.12 |      | 80.0 |         |
|           |                                                                      | Z | 2.20 | 66.42 | 13.58 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.30 | 60.00 | 8.13  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.81 | 67.13 | 13.70 |      | 80.0 |         |
|           |                                                                      | Z | 1.98 | 62.85 | 11.00 |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 1.32 | 60.00 | 7.98  | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.75 | 66.54 | 13.31 |      | 80.0 |         |
|           |                                                                      | Z | 1.95 | 62.46 | 10.68 |      | 80.0 |         |
| 10500-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.82 | 75.04 | 19.03 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.55 | 75.62 | 19.66 |      | 80.0 |         |
|           |                                                                      | Z | 3.32 | 70.66 | 17.20 |      | 80.0 |         |
| 10501-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.45 | 70.22 | 16.55 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.10 | 71.10 | 17.69 |      | 80.0 |         |
|           |                                                                      | Z | 3.41 | 68.23 | 15.99 |      | 80.0 |         |
| 10502-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.48 | 69.95 | 16.36 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.15 | 70.89 | 17.57 |      | 80.0 |         |
|           |                                                                      | Z | 3.47 | 68.14 | 15.91 |      | 80.0 |         |
| 10503-AAA | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 3.83 | 74.06 | 19.24 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.68 | 75.11 | 19.69 |      | 80.0 |         |
|           |                                                                      | Z | 3.58 | 70.77 | 17.54 |      | 80.0 |         |
| 10504-AAA | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.59 | 69.99 | 17.46 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.16 | 70.53 | 18.00 |      | 80.0 |         |
|           |                                                                      | Z | 3.60 | 68.21 | 16.61 |      | 80.0 |         |
| 10505-AAA | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 3.66 | 69.75 | 17.36 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.23 | 70.25 | 17.91 |      | 80.0 |         |
|           |                                                                      | Z | 3.70 | 68.11 | 16.59 |      | 80.0 |         |
| 10506-AAA | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 4.28 | 73.52 | 19.12 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.24 | 74.92 | 19.51 |      | 80.0 |         |
|           |                                                                      | Z | 4.15 | 71.12 | 17.66 |      | 80.0 |         |
| 10507-AAA | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 3.90 | 69.27 | 17.66 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 4.51 | 70.14 | 18.06 |      | 80.0 |         |
|           |                                                                      | Z | 4.02 | 68.21 | 16.91 |      | 80.0 |         |

|           |                                                                     |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10508-AAA | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 3.97 | 68.96 | 17.55 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.57 | 69.75 | 17.93 |      | 80.0  |         |
|           |                                                                     | Z | 4.11 | 68.00 | 16.87 |      | 80.0  |         |
| 10509-AAA | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.54 | 71.87 | 18.48 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.35 | 73.05 | 18.77 |      | 80.0  |         |
|           |                                                                     | Z | 4.54 | 70.32 | 17.38 |      | 80.0  |         |
| 10510-AAA | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.34 | 68.76 | 17.59 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.97 | 69.73 | 17.95 |      | 80.0  |         |
|           |                                                                     | Z | 4.53 | 68.16 | 17.00 |      | 80.0  |         |
| 10511-AAA | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.39 | 68.51 | 17.51 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.00 | 69.40 | 17.85 |      | 80.0  |         |
|           |                                                                     | Z | 4.59 | 67.95 | 16.96 |      | 80.0  |         |
| 10512-AAA | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 4.78 | 73.48 | 18.98 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.80 | 75.09 | 19.41 |      | 80.0  |         |
|           |                                                                     | Z | 4.67 | 71.54 | 17.71 |      | 80.0  |         |
| 10513-AAA | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.24 | 69.00 | 17.69 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.89 | 70.17 | 18.11 |      | 80.0  |         |
|           |                                                                     | Z | 4.41 | 68.40 | 17.07 |      | 80.0  |         |
| 10514-AAA | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 4.26 | 68.58 | 17.56 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 4.87 | 69.63 | 17.95 |      | 80.0  |         |
|           |                                                                     | Z | 4.44 | 68.04 | 16.99 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 1.03 | 64.84 | 16.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.01 | 63.76 | 15.35 |      | 150.0 |         |
|           |                                                                     | Z | 0.97 | 62.74 | 14.37 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 1.37 | 87.37 | 25.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.82 | 76.24 | 20.55 |      | 150.0 |         |
|           |                                                                     | Z | 0.54 | 67.46 | 15.73 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 0.93 | 68.34 | 17.75 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 0.89 | 66.40 | 16.42 |      | 150.0 |         |
|           |                                                                     | Z | 0.81 | 64.28 | 14.78 |      | 150.0 |         |
| 10518-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.48 | 67.19 | 16.57 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.66 | 66.80 | 16.35 |      | 150.0 |         |
|           |                                                                     | Z | 4.59 | 66.60 | 16.12 |      | 150.0 |         |
| 10519-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.64 | 67.36 | 16.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.88 | 67.08 | 16.48 |      | 150.0 |         |
|           |                                                                     | Z | 4.79 | 66.86 | 16.25 |      | 150.0 |         |
| 10520-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.50 | 67.33 | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.73 | 67.07 | 16.42 |      | 150.0 |         |
|           |                                                                     | Z | 4.64 | 66.83 | 16.17 |      | 150.0 |         |
| 10521-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.43 | 67.32 | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.66 | 67.08 | 16.41 |      | 150.0 |         |
|           |                                                                     | Z | 4.57 | 66.82 | 16.16 |      | 150.0 |         |
| 10522-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.49 | 67.45 | 16.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.71 | 67.07 | 16.44 |      | 150.0 |         |
|           |                                                                     | Z | 4.62 | 66.87 | 16.22 |      | 150.0 |         |

|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.40 | 67.41 | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.58 | 66.97 | 16.31 |      | 150.0 |         |
|           |                                                            | Z | 4.50 | 66.74 | 16.07 |      | 150.0 |         |
| 10524-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.44 | 67.39 | 16.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.66 | 67.02 | 16.43 |      | 150.0 |         |
|           |                                                            | Z | 4.57 | 66.80 | 16.19 |      | 150.0 |         |
| 10525-AAA | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.46 | 66.48 | 16.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.62 | 66.06 | 16.02 |      | 150.0 |         |
|           |                                                            | Z | 4.54 | 65.85 | 15.79 |      | 150.0 |         |
| 10526-AAA | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.60 | 66.79 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.82 | 66.46 | 16.16 |      | 150.0 |         |
|           |                                                            | Z | 4.72 | 66.22 | 15.93 |      | 150.0 |         |
| 10527-AAA | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.53 | 66.77 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.74 | 66.44 | 16.12 |      | 150.0 |         |
|           |                                                            | Z | 4.64 | 66.19 | 15.88 |      | 150.0 |         |
| 10528-AAA | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.54 | 66.78 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.75 | 66.46 | 16.15 |      | 150.0 |         |
|           |                                                            | Z | 4.66 | 66.21 | 15.91 |      | 150.0 |         |
| 10529-AAA | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.54 | 66.78 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.75 | 66.46 | 16.15 |      | 150.0 |         |
|           |                                                            | Z | 4.66 | 66.21 | 15.91 |      | 150.0 |         |
| 10531-AAA | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.52 | 66.84 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.76 | 66.60 | 16.18 |      | 150.0 |         |
|           |                                                            | Z | 4.66 | 66.32 | 15.93 |      | 150.0 |         |
| 10532-AAA | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.39 | 66.72 | 16.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.61 | 66.47 | 16.13 |      | 150.0 |         |
|           |                                                            | Z | 4.51 | 66.18 | 15.86 |      | 150.0 |         |
| 10533-AAA | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.55 | 66.87 | 16.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.77 | 66.48 | 16.13 |      | 150.0 |         |
|           |                                                            | Z | 4.67 | 66.24 | 15.89 |      | 150.0 |         |
| 10534-AAA | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.09 | 66.73 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.26 | 66.58 | 16.18 |      | 150.0 |         |
|           |                                                            | Z | 5.19 | 66.36 | 15.98 |      | 150.0 |         |
| 10535-AAA | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.14 | 66.89 | 16.46 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.33 | 66.72 | 16.24 |      | 150.0 |         |
|           |                                                            | Z | 5.25 | 66.50 | 16.04 |      | 150.0 |         |
| 10536-AAA | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.03 | 66.89 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.20 | 66.71 | 16.22 |      | 150.0 |         |
|           |                                                            | Z | 5.12 | 66.47 | 16.01 |      | 150.0 |         |
| 10537-AAA | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.08 | 66.84 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.27 | 66.68 | 16.21 |      | 150.0 |         |
|           |                                                            | Z | 5.18 | 66.44 | 16.00 |      | 150.0 |         |
| 10538-AAA | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.15 | 66.81 | 16.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.37 | 66.74 | 16.28 |      | 150.0 |         |
|           |                                                            | Z | 5.28 | 66.49 | 16.06 |      | 150.0 |         |
| 10540-AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.09 | 66.80 | 16.45 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.28 | 66.69 | 16.27 |      | 150.0 |         |
|           |                                                            | Z | 5.20 | 66.47 | 16.06 |      | 150.0 |         |

|           |                                                     |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)   | X | 5.06 | 66.68 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.26 | 66.60 | 16.22 |      | 150.0 |         |
|           |                                                     | Z | 5.18 | 66.36 | 16.00 |      | 150.0 |         |
| 10542-AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)   | X | 5.22 | 66.77 | 16.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.41 | 66.64 | 16.25 |      | 150.0 |         |
|           |                                                     | Z | 5.33 | 66.43 | 16.05 |      | 150.0 |         |
| 10543-AAA | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)   | X | 5.28 | 66.79 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.50 | 66.65 | 16.27 |      | 150.0 |         |
|           |                                                     | Z | 5.41 | 66.46 | 16.08 |      | 150.0 |         |
| 10544-AAA | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)   | X | 5.42 | 66.77 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.55 | 66.69 | 16.17 |      | 150.0 |         |
|           |                                                     | Z | 5.48 | 66.48 | 15.98 |      | 150.0 |         |
| 10545-AAA | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)   | X | 5.61 | 67.23 | 16.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.75 | 67.07 | 16.30 |      | 150.0 |         |
|           |                                                     | Z | 5.67 | 66.87 | 16.11 |      | 150.0 |         |
| 10546-AAA | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)   | X | 5.46 | 66.92 | 16.38 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.64 | 66.96 | 16.27 |      | 150.0 |         |
|           |                                                     | Z | 5.56 | 66.72 | 16.06 |      | 150.0 |         |
| 10547-AAA | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)   | X | 5.54 | 67.00 | 16.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.73 | 67.04 | 16.29 |      | 150.0 |         |
|           |                                                     | Z | 5.64 | 66.77 | 16.07 |      | 150.0 |         |
| 10548-AAA | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)   | X | 5.73 | 67.79 | 16.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.99 | 67.96 | 16.73 |      | 150.0 |         |
|           |                                                     | Z | 5.87 | 67.64 | 16.48 |      | 150.0 |         |
| 10550-AAA | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)   | X | 5.52 | 67.07 | 16.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.66 | 66.92 | 16.25 |      | 150.0 |         |
|           |                                                     | Z | 5.58 | 66.70 | 16.06 |      | 150.0 |         |
| 10551-AAA | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)   | X | 5.47 | 66.93 | 16.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.67 | 66.99 | 16.25 |      | 150.0 |         |
|           |                                                     | Z | 5.59 | 66.76 | 16.05 |      | 150.0 |         |
| 10552-AAA | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)   | X | 5.43 | 66.87 | 16.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.58 | 66.77 | 16.15 |      | 150.0 |         |
|           |                                                     | Z | 5.50 | 66.55 | 15.96 |      | 150.0 |         |
| 10553-AAA | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)   | X | 5.49 | 66.84 | 16.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.67 | 66.82 | 16.21 |      | 150.0 |         |
|           |                                                     | Z | 5.59 | 66.61 | 16.01 |      | 150.0 |         |
| 10554-AAA | IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 5.84 | 67.09 | 16.40 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.94 | 67.05 | 16.25 |      | 150.0 |         |
|           |                                                     | Z | 5.88 | 66.85 | 16.07 |      | 150.0 |         |
| 10555-AAA | IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 5.95 | 67.36 | 16.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 6.09 | 67.37 | 16.39 |      | 150.0 |         |
|           |                                                     | Z | 6.01 | 67.14 | 16.19 |      | 150.0 |         |
| 10556-AAA | IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 5.98 | 67.45 | 16.56 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 6.10 | 67.39 | 16.39 |      | 150.0 |         |
|           |                                                     | Z | 6.03 | 67.18 | 16.21 |      | 150.0 |         |
| 10557-AAA | IEEE 1602.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 5.93 | 67.31 | 16.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 6.09 | 67.35 | 16.39 |      | 150.0 |         |
|           |                                                     | Z | 6.01 | 67.12 | 16.19 |      | 150.0 |         |

|           |                                                                 |   |       |        |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10558-AAA | IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)             | X | 5.96  | 67.43  | 16.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.14  | 67.53  | 16.50 |      | 150.0 |         |
|           |                                                                 | Z | 6.06  | 67.28  | 16.29 |      | 150.0 |         |
| 10560-AAA | IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)             | X | 5.96  | 67.30  | 16.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.14  | 67.38  | 16.46 |      | 150.0 |         |
|           |                                                                 | Z | 6.06  | 67.14  | 16.26 |      | 150.0 |         |
| 10561-AAA | IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)             | X | 5.90  | 67.30  | 16.59 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.05  | 67.33  | 16.47 |      | 150.0 |         |
|           |                                                                 | Z | 5.97  | 67.09  | 16.27 |      | 150.0 |         |
| 10562-AAA | IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)             | X | 5.97  | 67.52  | 16.70 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.20  | 67.78  | 16.70 |      | 150.0 |         |
|           |                                                                 | Z | 6.10  | 67.49  | 16.47 |      | 150.0 |         |
| 10563-AAA | IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)             | X | 6.05  | 67.43  | 16.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.51  | 68.26  | 16.88 |      | 150.0 |         |
|           |                                                                 | Z | 6.42  | 68.01  | 16.67 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 4.79  | 67.15  | 16.65 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.99  | 66.89  | 16.50 |      | 150.0 |         |
|           |                                                                 | Z | 4.91  | 66.68  | 16.27 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.00  | 67.58  | 16.97 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.25  | 67.37  | 16.83 |      | 150.0 |         |
|           |                                                                 | Z | 5.16  | 67.16  | 16.61 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 4.83  | 67.41  | 16.78 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.08  | 67.24  | 16.66 |      | 150.0 |         |
|           |                                                                 | Z | 4.99  | 67.00  | 16.41 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 4.88  | 67.87  | 17.20 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.11  | 67.62  | 16.99 |      | 150.0 |         |
|           |                                                                 | Z | 5.02  | 67.41  | 16.78 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.73  | 67.14  | 16.52 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.99  | 66.97  | 16.41 |      | 150.0 |         |
|           |                                                                 | Z | 4.89  | 66.73  | 16.15 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 4.86  | 68.08  | 17.32 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.05  | 67.63  | 17.01 |      | 150.0 |         |
|           |                                                                 | Z | 4.97  | 67.46  | 16.82 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 4.87  | 67.85  | 17.21 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.09  | 67.48  | 16.95 |      | 150.0 |         |
|           |                                                                 | Z | 5.01  | 67.31  | 16.75 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.23  | 65.85  | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.28  | 65.62  | 16.38 |      | 130.0 |         |
|           |                                                                 | Z | 1.20  | 64.12  | 15.14 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.26  | 66.61  | 17.14 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.30  | 66.27  | 16.76 |      | 130.0 |         |
|           |                                                                 | Z | 1.21  | 64.64  | 15.46 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 15.61 | 122.59 | 34.86 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 7.32  | 105.62 | 29.57 |      | 130.0 |         |
|           |                                                                 | Z | 1.41  | 77.28  | 19.61 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 1.59  | 75.46  | 21.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.56  | 73.46  | 20.23 |      | 130.0 |         |
|           |                                                                 | Z | 1.30  | 69.51  | 17.90 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.57 | 66.90 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.78 | 66.67 | 16.55 |      | 130.0 |         |
|           |                                                                 | Z | 4.70 | 66.43 | 16.27 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.60 | 67.11 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.81 | 66.83 | 16.61 |      | 130.0 |         |
|           |                                                                 | Z | 4.72 | 66.59 | 16.34 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 4.78 | 67.36 | 16.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 5.04 | 67.16 | 16.78 |      | 130.0 |         |
|           |                                                                 | Z | 4.94 | 66.91 | 16.52 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.68 | 67.55 | 17.03 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.93 | 67.32 | 16.88 |      | 130.0 |         |
|           |                                                                 | Z | 4.83 | 67.07 | 16.62 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.43 | 66.68 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.71 | 66.69 | 16.25 |      | 130.0 |         |
|           |                                                                 | Z | 4.59 | 66.34 | 15.91 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.47 | 66.74 | 16.26 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.75 | 66.68 | 16.26 |      | 130.0 |         |
|           |                                                                 | Z | 4.64 | 66.35 | 15.93 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.59 | 67.62 | 16.99 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.83 | 67.38 | 16.83 |      | 130.0 |         |
|           |                                                                 | Z | 4.73 | 67.09 | 16.54 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.35 | 66.42 | 16.00 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.66 | 66.46 | 16.06 |      | 130.0 |         |
|           |                                                                 | Z | 4.54 | 66.09 | 15.70 |      | 130.0 |         |
| 10583-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.57 | 66.90 | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.78 | 66.67 | 16.55 |      | 130.0 |         |
|           |                                                                 | Z | 4.70 | 66.43 | 16.27 |      | 130.0 |         |
| 10584-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.60 | 67.11 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.81 | 66.83 | 16.61 |      | 130.0 |         |
|           |                                                                 | Z | 4.72 | 66.59 | 16.34 |      | 130.0 |         |
| 10585-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 4.78 | 67.36 | 16.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 5.04 | 67.16 | 16.78 |      | 130.0 |         |
|           |                                                                 | Z | 4.94 | 66.91 | 16.52 |      | 130.0 |         |
| 10586-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.68 | 67.55 | 17.03 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.93 | 67.32 | 16.88 |      | 130.0 |         |
|           |                                                                 | Z | 4.83 | 67.07 | 16.62 |      | 130.0 |         |
| 10587-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.43 | 66.68 | 16.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.71 | 66.69 | 16.25 |      | 130.0 |         |
|           |                                                                 | Z | 4.59 | 66.34 | 15.91 |      | 130.0 |         |
| 10588-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.47 | 66.74 | 16.26 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.75 | 66.68 | 16.26 |      | 130.0 |         |
|           |                                                                 | Z | 4.64 | 66.35 | 15.93 |      | 130.0 |         |
| 10589-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.59 | 67.62 | 16.99 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.83 | 67.38 | 16.83 |      | 130.0 |         |
|           |                                                                 | Z | 4.73 | 67.09 | 16.54 |      | 130.0 |         |
| 10590-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.35 | 66.42 | 16.00 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.66 | 66.46 | 16.06 |      | 130.0 |         |
|           |                                                                 | Z | 4.54 | 66.09 | 15.70 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.72 | 66.97 | 16.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.93 | 66.73 | 16.63 |      | 130.0 |         |
|           |                                                       | Z | 4.85 | 66.51 | 16.38 |      | 130.0 |         |
| 10592-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 4.85 | 67.28 | 16.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.10 | 67.07 | 16.76 |      | 130.0 |         |
|           |                                                       | Z | 5.01 | 66.85 | 16.51 |      | 130.0 |         |
| 10593-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 4.77 | 67.16 | 16.75 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.03 | 67.02 | 16.67 |      | 130.0 |         |
|           |                                                       | Z | 4.93 | 66.76 | 16.39 |      | 130.0 |         |
| 10594-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 4.83 | 67.35 | 16.92 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.08 | 67.17 | 16.80 |      | 130.0 |         |
|           |                                                       | Z | 4.99 | 66.92 | 16.54 |      | 130.0 |         |
| 10595-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 4.79 | 67.31 | 16.82 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.06 | 67.14 | 16.71 |      | 130.0 |         |
|           |                                                       | Z | 4.95 | 66.87 | 16.44 |      | 130.0 |         |
| 10596-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 4.73 | 67.29 | 16.82 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.99 | 67.14 | 16.71 |      | 130.0 |         |
|           |                                                       | Z | 4.89 | 66.86 | 16.43 |      | 130.0 |         |
| 10597-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.68 | 67.16 | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.95 | 67.07 | 16.62 |      | 130.0 |         |
|           |                                                       | Z | 4.84 | 66.78 | 16.32 |      | 130.0 |         |
| 10598-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.67 | 67.44 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.93 | 67.31 | 16.88 |      | 130.0 |         |
|           |                                                       | Z | 4.82 | 67.03 | 16.60 |      | 130.0 |         |
| 10599-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.39 | 67.39 | 16.95 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.60 | 67.32 | 16.82 |      | 130.0 |         |
|           |                                                       | Z | 5.51 | 67.07 | 16.58 |      | 130.0 |         |
| 10600-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.51 | 67.80 | 17.12 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.77 | 67.81 | 17.04 |      | 130.0 |         |
|           |                                                       | Z | 5.65 | 67.49 | 16.76 |      | 130.0 |         |
| 10601-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.41 | 67.56 | 17.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.64 | 67.51 | 16.91 |      | 130.0 |         |
|           |                                                       | Z | 5.54 | 67.24 | 16.65 |      | 130.0 |         |
| 10602-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.54 | 67.73 | 17.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.72 | 67.51 | 16.82 |      | 130.0 |         |
|           |                                                       | Z | 5.62 | 67.22 | 16.56 |      | 130.0 |         |
| 10603-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.62 | 68.07 | 17.33 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.82 | 67.83 | 17.11 |      | 130.0 |         |
|           |                                                       | Z | 5.72 | 67.58 | 16.87 |      | 130.0 |         |
| 10604-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.49 | 67.68 | 17.12 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.60 | 67.27 | 16.82 |      | 130.0 |         |
|           |                                                       | Z | 5.51 | 67.03 | 16.58 |      | 130.0 |         |
| 10605-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.51 | 67.70 | 17.12 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.70 | 67.55 | 16.96 |      | 130.0 |         |
|           |                                                       | Z | 5.61 | 67.31 | 16.72 |      | 130.0 |         |
| 10606-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.26 | 67.01 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.49 | 67.08 | 16.60 |      | 130.0 |         |
|           |                                                       | Z | 5.39 | 66.79 | 16.33 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAA | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.58 | 66.35 | 16.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.76 | 66.03 | 16.25 |      | 130.0 |         |
|           |                                                   | Z | 4.68 | 65.79 | 15.98 |      | 130.0 |         |
| 10608-AAA | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 4.73 | 66.71 | 16.58 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.98 | 66.46 | 16.42 |      | 130.0 |         |
|           |                                                   | Z | 4.87 | 66.20 | 16.15 |      | 130.0 |         |
| 10609-AAA | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.62 | 66.54 | 16.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.87 | 66.34 | 16.28 |      | 130.0 |         |
|           |                                                   | Z | 4.76 | 66.05 | 15.99 |      | 130.0 |         |
| 10610-AAA | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.68 | 66.72 | 16.58 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.92 | 66.49 | 16.43 |      | 130.0 |         |
|           |                                                   | Z | 4.81 | 66.21 | 16.15 |      | 130.0 |         |
| 10611-AAA | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.59 | 66.51 | 16.42 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.84 | 66.32 | 16.29 |      | 130.0 |         |
|           |                                                   | Z | 4.73 | 66.02 | 16.00 |      | 130.0 |         |
| 10612-AAA | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.59 | 66.66 | 16.46 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.85 | 66.48 | 16.33 |      | 130.0 |         |
|           |                                                   | Z | 4.74 | 66.16 | 16.03 |      | 130.0 |         |
| 10613-AAA | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.58 | 66.47 | 16.30 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.87 | 66.40 | 16.24 |      | 130.0 |         |
|           |                                                   | Z | 4.75 | 66.06 | 15.92 |      | 130.0 |         |
| 10614-AAA | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.55 | 66.74 | 16.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.80 | 66.57 | 16.46 |      | 130.0 |         |
|           |                                                   | Z | 4.69 | 66.26 | 16.16 |      | 130.0 |         |
| 10615-AAA | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.58 | 66.31 | 16.16 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.84 | 66.15 | 16.08 |      | 130.0 |         |
|           |                                                   | Z | 4.73 | 65.83 | 15.77 |      | 130.0 |         |
| 10616-AAA | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.21 | 66.65 | 16.56 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.41 | 66.58 | 16.44 |      | 130.0 |         |
|           |                                                   | Z | 5.33 | 66.33 | 16.20 |      | 130.0 |         |
| 10617-AAA | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.28 | 66.84 | 16.63 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.47 | 66.68 | 16.45 |      | 130.0 |         |
|           |                                                   | Z | 5.38 | 66.45 | 16.22 |      | 130.0 |         |
| 10618-AAA | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.18 | 66.90 | 16.68 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.37 | 66.76 | 16.51 |      | 130.0 |         |
|           |                                                   | Z | 5.28 | 66.49 | 16.27 |      | 130.0 |         |
| 10619-AAA | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.18 | 66.65 | 16.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.39 | 66.59 | 16.37 |      | 130.0 |         |
|           |                                                   | Z | 5.30 | 66.32 | 16.11 |      | 130.0 |         |
| 10620-AAA | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.26 | 66.66 | 16.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.51 | 66.68 | 16.46 |      | 130.0 |         |
|           |                                                   | Z | 5.40 | 66.39 | 16.19 |      | 130.0 |         |
| 10621-AAA | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.27 | 66.82 | 16.75 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.48 | 66.74 | 16.60 |      | 130.0 |         |
|           |                                                   | Z | 5.39 | 66.50 | 16.37 |      | 130.0 |         |
| 10622-AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.27 | 66.93 | 16.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.48 | 66.86 | 16.65 |      | 130.0 |         |
|           |                                                   | Z | 5.39 | 66.62 | 16.42 |      | 130.0 |         |

|           |                                                     |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)   | X | 5.14 | 66.42 | 16.40 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.37 | 66.46 | 16.34 |      | 130.0 |         |
|           |                                                     | Z | 5.27 | 66.17 | 16.07 |      | 130.0 |         |
| 10624-AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)   | X | 5.34 | 66.68 | 16.59 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.56 | 66.62 | 16.48 |      | 130.0 |         |
|           |                                                     | Z | 5.47 | 66.37 | 16.24 |      | 130.0 |         |
| 10625-AAA | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)   | X | 5.51 | 67.05 | 16.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.94 | 67.60 | 17.02 |      | 130.0 |         |
|           |                                                     | Z | 5.85 | 67.36 | 16.78 |      | 130.0 |         |
| 10626-AAA | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)   | X | 5.53 | 66.66 | 16.50 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.68 | 66.62 | 16.38 |      | 130.0 |         |
|           |                                                     | Z | 5.60 | 66.40 | 16.16 |      | 130.0 |         |
| 10627-AAA | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)   | X | 5.78 | 67.30 | 16.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.92 | 67.14 | 16.59 |      | 130.0 |         |
|           |                                                     | Z | 5.84 | 66.92 | 16.37 |      | 130.0 |         |
| 10628-AAA | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)   | X | 5.53 | 66.65 | 16.39 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.74 | 66.79 | 16.36 |      | 130.0 |         |
|           |                                                     | Z | 5.65 | 66.51 | 16.11 |      | 130.0 |         |
| 10629-AAA | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)   | X | 5.63 | 66.79 | 16.45 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.82 | 66.85 | 16.38 |      | 130.0 |         |
|           |                                                     | Z | 5.74 | 66.60 | 16.14 |      | 130.0 |         |
| 10630-AAA | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)   | X | 5.95 | 67.97 | 17.05 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.32 | 68.49 | 17.20 |      | 130.0 |         |
|           |                                                     | Z | 6.17 | 68.05 | 16.86 |      | 130.0 |         |
| 10631-AAA | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)   | X | 5.89 | 67.93 | 17.23 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.21 | 68.27 | 17.26 |      | 130.0 |         |
|           |                                                     | Z | 6.09 | 67.93 | 17.00 |      | 130.0 |         |
| 10632-AAA | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)   | X | 5.77 | 67.44 | 17.00 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.90 | 67.22 | 16.76 |      | 130.0 |         |
|           |                                                     | Z | 5.82 | 67.00 | 16.55 |      | 130.0 |         |
| 10633-AAA | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)   | X | 5.60 | 66.87 | 16.54 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.83 | 67.02 | 16.49 |      | 130.0 |         |
|           |                                                     | Z | 5.72 | 66.69 | 16.23 |      | 130.0 |         |
| 10634-AAA | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)   | X | 5.59 | 66.92 | 16.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.81 | 67.01 | 16.55 |      | 130.0 |         |
|           |                                                     | Z | 5.71 | 66.73 | 16.31 |      | 130.0 |         |
| 10635-AAA | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)   | X | 5.44 | 66.12 | 15.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.70 | 66.39 | 15.99 |      | 130.0 |         |
|           |                                                     | Z | 5.59 | 66.05 | 15.69 |      | 130.0 |         |
| 10636-AAA | IEEE 1602.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 5.96 | 67.00 | 16.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.08 | 67.01 | 16.47 |      | 130.0 |         |
|           |                                                     | Z | 6.01 | 66.78 | 16.25 |      | 130.0 |         |
| 10637-AAA | IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.10 | 67.36 | 16.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.25 | 67.39 | 16.63 |      | 130.0 |         |
|           |                                                     | Z | 6.17 | 67.14 | 16.41 |      | 130.0 |         |
| 10638-AAA | IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.11 | 67.36 | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.25 | 67.36 | 16.60 |      | 130.0 |         |
|           |                                                     | Z | 6.17 | 67.12 | 16.38 |      | 130.0 |         |

|           |                                                        |   |       |        |       |      |       |         |
|-----------|--------------------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10639-AAA | IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle)    | X | 6.07  | 67.26  | 16.71 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.25  | 67.37  | 16.65 |      | 130.0 |         |
|           |                                                        | Z | 6.16  | 67.11  | 16.42 |      | 130.0 |         |
| 10640-AAA | IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle)    | X | 6.05  | 67.22  | 16.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.27  | 67.44  | 16.63 |      | 130.0 |         |
|           |                                                        | Z | 6.17  | 67.12  | 16.37 |      | 130.0 |         |
| 10641-AAA | IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle)    | X | 6.13  | 67.23  | 16.65 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.27  | 67.20  | 16.53 |      | 130.0 |         |
|           |                                                        | Z | 6.19  | 66.96  | 16.31 |      | 130.0 |         |
| 10642-AAA | IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle)    | X | 6.16  | 67.45  | 16.94 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.34  | 67.53  | 16.85 |      | 130.0 |         |
|           |                                                        | Z | 6.25  | 67.29  | 16.64 |      | 130.0 |         |
| 10643-AAA | IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle)    | X | 6.00  | 67.14  | 16.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.17  | 67.21  | 16.60 |      | 130.0 |         |
|           |                                                        | Z | 6.08  | 66.93  | 16.36 |      | 130.0 |         |
| 10644-AAA | IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle)    | X | 6.08  | 67.39  | 16.82 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.38  | 67.85  | 16.95 |      | 130.0 |         |
|           |                                                        | Z | 6.26  | 67.49  | 16.66 |      | 130.0 |         |
| 10645-AAA | IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle)    | X | 6.23  | 67.50  | 16.83 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.74  | 68.44  | 17.18 |      | 130.0 |         |
|           |                                                        | Z | 6.68  | 68.29  | 17.00 |      | 130.0 |         |
| 10646-AAB | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 13.71 | 101.95 | 34.43 | 9.30 | 60.0  | ± 9.6 % |
|           |                                                        | Y | 31.42 | 116.20 | 38.46 |      | 60.0  |         |
|           |                                                        | Z | 15.59 | 99.47  | 32.52 |      | 60.0  |         |
| 10647-AAA | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 12.18 | 100.02 | 33.95 | 9.30 | 60.0  | ± 9.6 % |
|           |                                                        | Y | 30.06 | 116.00 | 38.55 |      | 60.0  |         |
|           |                                                        | Z | 14.66 | 98.82  | 32.42 |      | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 0.74  | 65.73  | 11.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                        | Y | 0.86  | 65.73  | 12.88 |      | 150.0 |         |
|           |                                                        | Z | 0.73  | 63.45  | 11.13 |      | 150.0 |         |

<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.