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Client **UL CCS USA**

Certificate No: **EX3-3686\_Jul17**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3686**

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: **July 28, 2017**

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       | 04-Apr-17 (No. 217-02521/02522)   | Apr-18                 |
| Power sensor NRP-Z91       | SN: 103244       | 04-Apr-17 (No. 217-02521)         | Apr-18                 |
| Power sensor NRP-Z91       | SN: 103245       | 04-Apr-17 (No. 217-02525)         | Apr-18                 |
| Reference 20 dB Attenuator | SN: S5277 (20x)  | 07-Apr-17 (No. 217-02528)         | Apr-18                 |
| Reference Probe ES3DV2     | SN: 3013         | 31-Dec-16 (No. ES3-3013_Dec16)    | Dec-17                 |
| DAE4                       | SN: 660          | 7-Dec-16 (No. DAE4-660_Dec16)     | Dec-17                 |
|                            |                  |                                   |                        |
| 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-16) | In house check: Oct-17 |

|                                                                                                                 | Name          | Function              | Signature             |
|-----------------------------------------------------------------------------------------------------------------|---------------|-----------------------|-----------------------|
| Calibrated by:                                                                                                  | Michael Weber | Laboratory Technician |                       |
| Approved by:                                                                                                    | Katja Pokovic | Technical Manager     |                       |
|                                                                                                                 |               |                       | Issued: July 28, 2017 |
| This calibration certificate shall not be reproduced except in full without written approval of the laboratory. |               |                       |                       |



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### Glossary:

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

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

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

### Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the  $E^2$ -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 (no uncertainty required).

# Probe EX3DV4

SN:3686

Manufactured: March 10, 2009  
Calibrated: July 28, 2017

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

# DASY/EASY - Parameters of Probe: EX3DV4 - SN:3686

## Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|-----------------------------------------------------------|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.45     | 0.49     | 0.42     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 96.3     | 97.2     | 98.6     |               |

## 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    | 161.6    | $\pm 3.3 \%$              |
|     |                           | Y | 0.0     | 0.0                          | 1.0 |         | 162.4    |                           |
|     |                           | Z | 0.0     | 0.0                          | 1.0 |         | 157.5    |                           |

Note: For details on UID parameters see Appendix.

## Sensor Model Parameters

|   | C1<br>fF | C2<br>fF | $\alpha$<br>$\text{V}^{-1}$ | T1<br>$\text{ms.V}^{-2}$ | T2<br>$\text{ms.V}^{-1}$ | T3<br>ms | T4<br>$\text{V}^{-2}$ | T5<br>$\text{V}^{-1}$ | T6    |
|---|----------|----------|-----------------------------|--------------------------|--------------------------|----------|-----------------------|-----------------------|-------|
| X | 42.73    | 329.9    | 38.66                       | 25.21                    | 0.929                    | 5.10     | 2.00                  | 0.270                 | 1.021 |
| Y | 44.00    | 335.3    | 37.32                       | 21.90                    | 0.889                    | 5.10     | 1.14                  | 0.457                 | 1.013 |
| Z | 46.72    | 351.6    | 36.11                       | 24.22                    | 0.666                    | 5.10     | 0.00                  | 0.585                 | 1.007 |

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:3686

### 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                            | 9.54    | 9.54    | 9.54    | 0.49               | 0.91                    | ± 12.0 %  |
| 900                  | 41.5                               | 0.97                            | 9.16    | 9.16    | 9.16    | 0.39               | 1.01                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 8.16    | 8.16    | 8.16    | 0.32               | 0.80                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 7.78    | 7.78    | 7.78    | 0.35               | 0.90                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 7.35    | 7.35    | 7.35    | 0.25               | 1.03                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 7.07    | 7.07    | 7.07    | 0.38               | 0.85                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 6.84    | 6.84    | 6.84    | 0.36               | 0.85                    | ± 12.0 %  |
| 5250                 | 35.9                               | 4.71                            | 5.22    | 5.22    | 5.22    | 0.40               | 1.80                    | ± 13.1 %  |
| 5600                 | 35.5                               | 5.07                            | 4.57    | 4.57    | 4.57    | 0.40               | 1.80                    | ± 13.1 %  |
| 5750                 | 35.4                               | 5.22                            | 4.73    | 4.73    | 4.73    | 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:3686

### 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                            | 9.37    | 9.37    | 9.37    | 0.61               | 0.80                    | ± 12.0 %  |
| 900                  | 55.0                               | 1.05                            | 9.28    | 9.28    | 9.28    | 0.59               | 0.80                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 7.85    | 7.85    | 7.85    | 0.41               | 0.80                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 7.47    | 7.47    | 7.47    | 0.43               | 0.80                    | ± 12.0 %  |
| 2300                 | 52.9                               | 1.81                            | 7.33    | 7.33    | 7.33    | 0.44               | 0.82                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 7.12    | 7.12    | 7.12    | 0.49               | 0.80                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 6.83    | 6.83    | 6.83    | 0.37               | 0.91                    | ± 12.0 %  |
| 5250                 | 48.9                               | 5.36                            | 4.62    | 4.62    | 4.62    | 0.40               | 1.90                    | ± 13.1 %  |
| 5600                 | 48.5                               | 5.77                            | 3.78    | 3.78    | 3.78    | 0.50               | 1.90                    | ± 13.1 %  |
| 5750                 | 48.3                               | 5.94                            | 4.05    | 4.05    | 4.05    | 0.50               | 1.90                    | ± 13.1 %  |

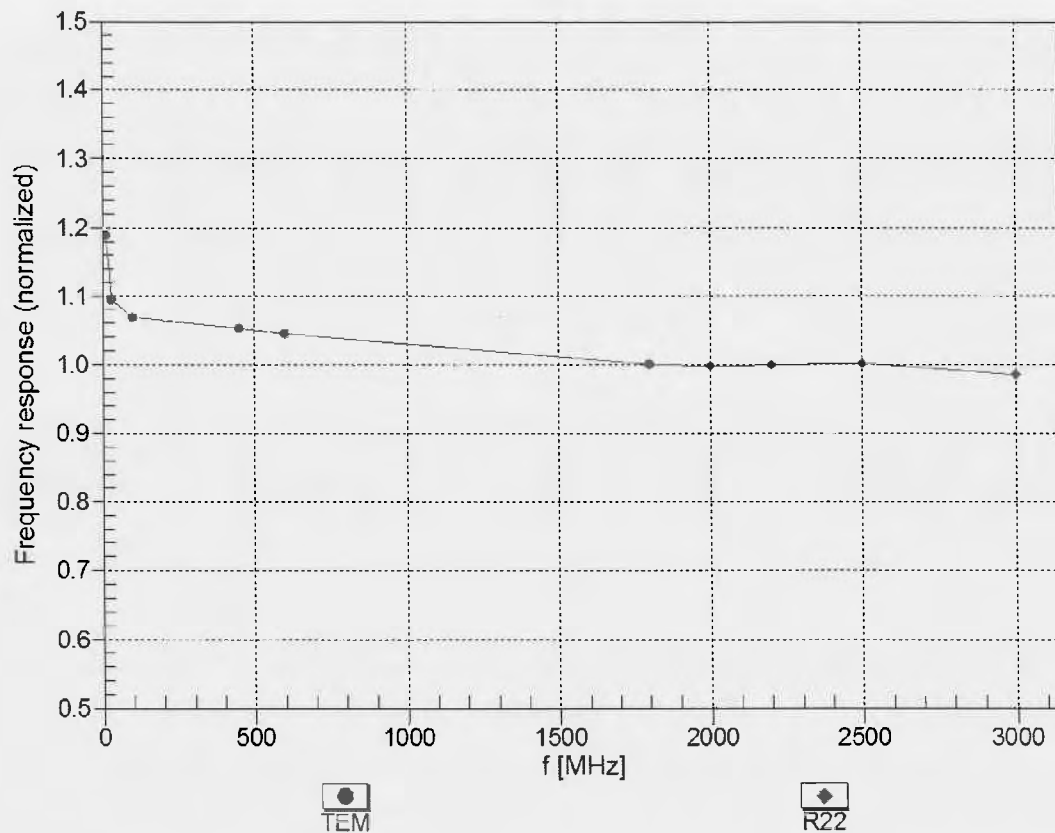
<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below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

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

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

## Frequency Response of E-Field

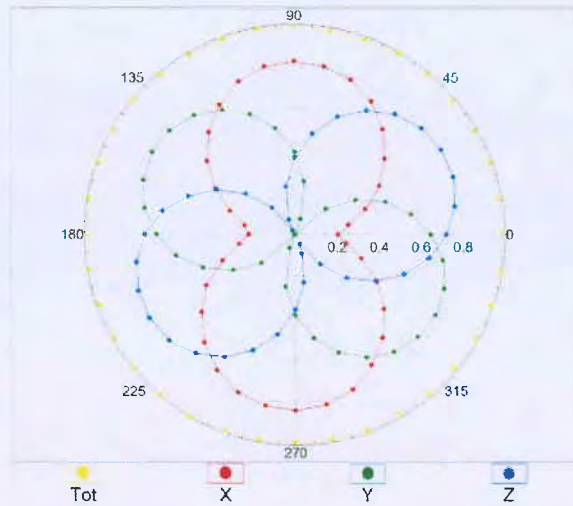
(TEM-Cell:ifi110 EXX, Waveguide: R22)



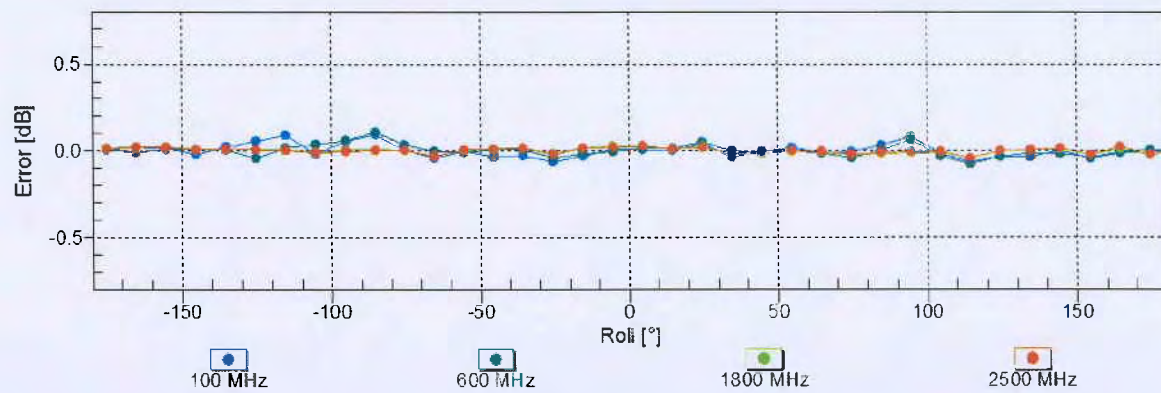
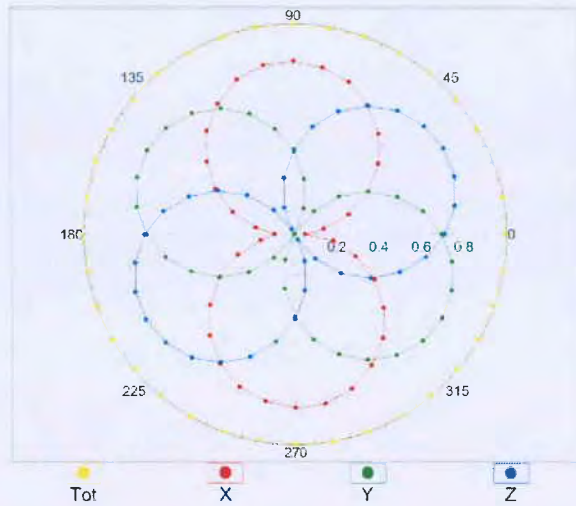
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

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

f=600 MHz, TEM

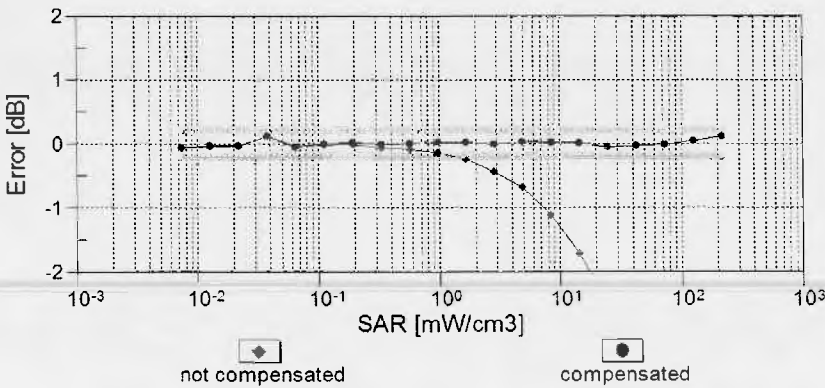
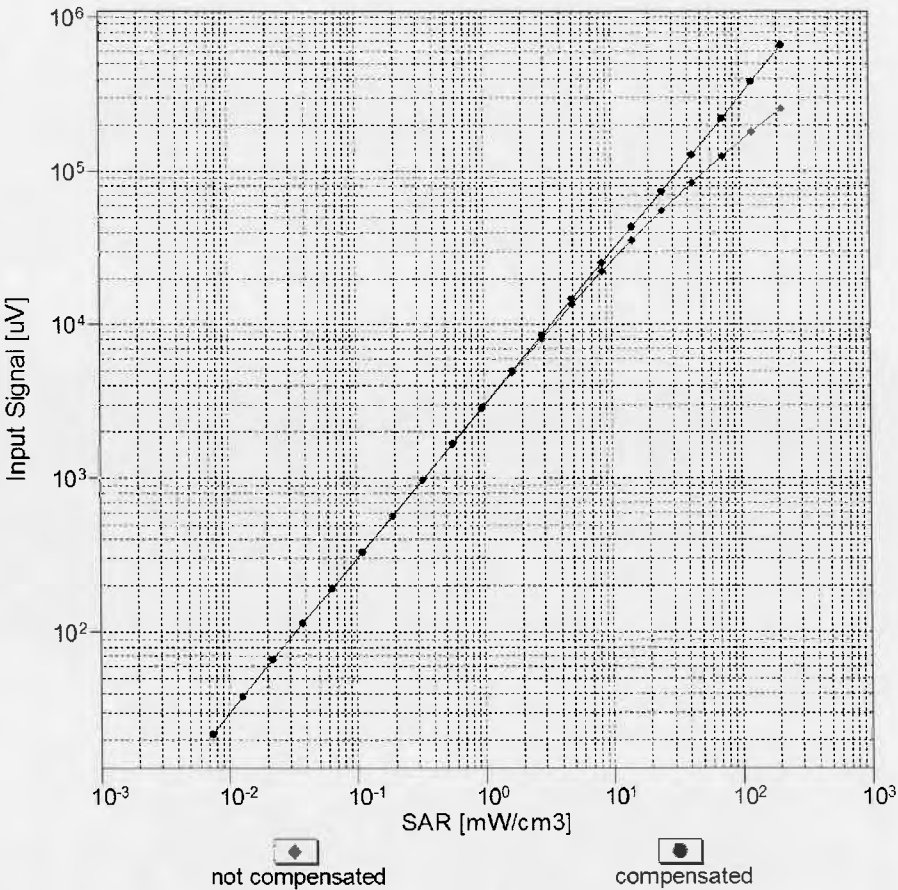


f=1800 MHz, R22



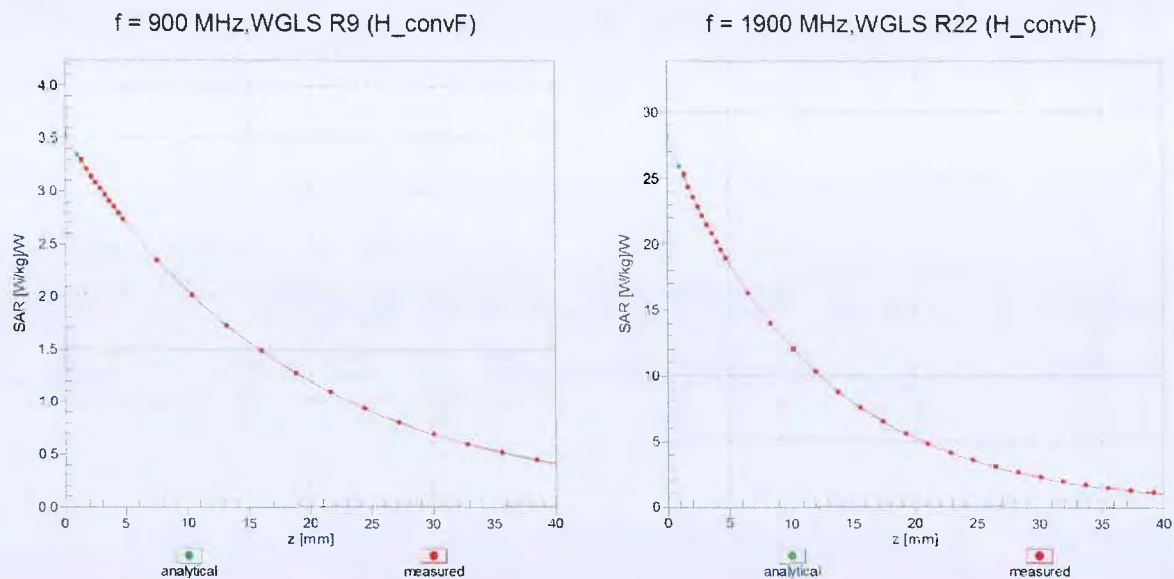
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

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



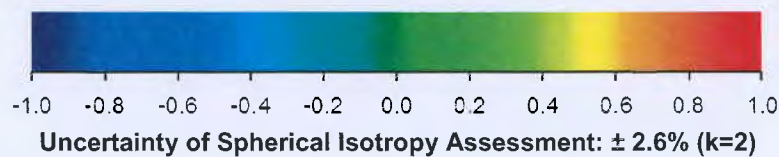
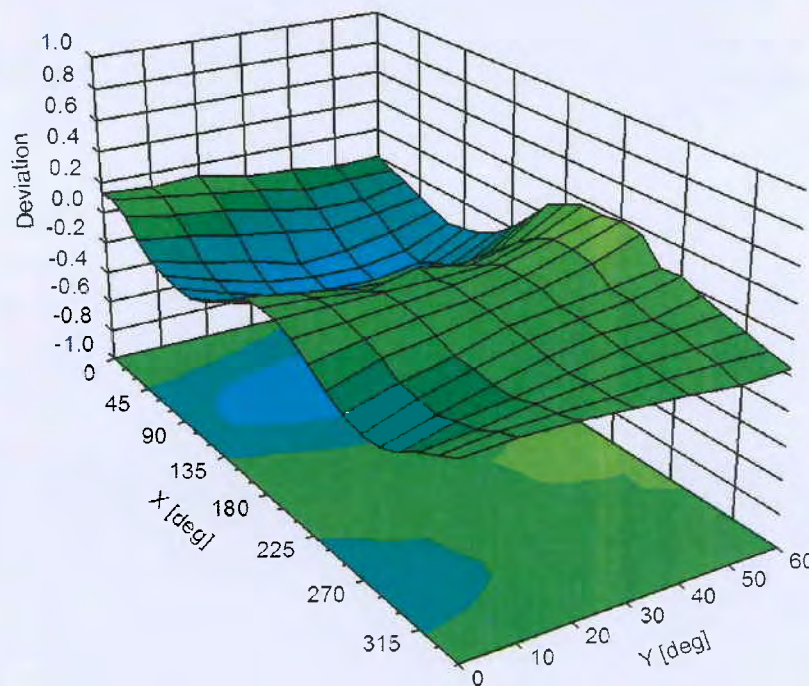
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

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



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3686

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | 34.6       |
| 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    | 161.6    | $\pm 3.3 \%$                     |
|               |                                               | Y | 0.00    | 0.00                   | 1.00  |         | 162.4    |                                  |
|               |                                               | Z | 0.00    | 0.00                   | 1.00  |         | 157.5    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 100.00  | 109.70                 | 25.32 | 10.00   | 20.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 110.97                 | 25.80 |         | 20.0     |                                  |
|               |                                               | Z | 21.74   | 91.92                  | 20.71 |         | 20.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 100.00  | 166.96                 | 48.83 | 0.00    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 2.70    | 86.48                  | 24.65 |         | 150.0    |                                  |
|               |                                               | Z | 1.03    | 67.09                  | 15.20 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.84    | 76.43                  | 24.22 | 0.41    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 1.41    | 68.55                  | 18.94 |         | 150.0    |                                  |
|               |                                               | Z | 1.24    | 64.40                  | 15.58 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 5.08    | 68.30                  | 18.75 | 1.46    | 150.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 5.00    | 67.59                  | 17.99 |         | 150.0    |                                  |
|               |                                               | Z | 4.95    | 66.91                  | 17.29 |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 100.00  | 120.16                 | 31.04 | 9.39    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 121.97                 | 31.77 |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 119.11                 | 30.37 |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 100.00  | 119.73                 | 30.88 | 9.57    | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 121.51                 | 31.60 |         | 50.0     |                                  |
|               |                                               | Z | 100.00  | 118.83                 | 30.27 |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 120.57                 | 30.27 | 6.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 121.38                 | 30.50 |         | 60.0     |                                  |
|               |                                               | Z | 100.00  | 117.26                 | 28.62 |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 13.89   | 107.90                 | 43.77 | 12.57   | 50.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 4.73    | 72.43                  | 27.59 |         | 50.0     |                                  |
|               |                                               | Z | 7.39    | 86.77                  | 34.63 |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 75.73   | 148.28                 | 51.12 | 9.56    | 60.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 16.83   | 107.06                 | 38.50 |         | 60.0     |                                  |
|               |                                               | Z | 19.23   | 109.49                 | 38.93 |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 124.95                 | 31.46 | 4.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 123.97                 | 30.87 |         | 80.0     |                                  |
|               |                                               | Z | 100.00  | 117.67                 | 28.09 |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 134.16                 | 34.73 | 3.55    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 129.37                 | 32.47 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 119.38                 | 28.17 |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 21.66   | 114.54                 | 40.29 | 7.80    | 80.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 9.75    | 93.41                  | 32.58 |         | 80.0     |                                  |
|               |                                               | Z | 9.95    | 92.69                  | 31.83 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 120.72                 | 29.86 | 5.30    | 70.0     | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 120.48                 | 29.61 |         | 70.0     |                                  |
|               |                                               | Z | 100.00  | 115.78                 | 27.52 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 172.38                 | 48.78 | 1.88    | 100.0    | $\pm 9.6 \%$                     |
|               |                                               | Y | 100.00  | 143.22                 | 36.57 |         | 100.0    |                                  |
|               |                                               | Z | 100.00  | 120.93                 | 27.43 |         | 100.0    |                                  |

|           |                                                     |   |        |        |          |       |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|----------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 289.90 | 93.52    | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 180.47 | 50.08    |       | 100.0 |         |
|           |                                                     | Z | 100.00 | 128.15 | 29.40    |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 100.00 | 130.30 | 35.83    | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 130.31 | 35.76    |       | 70.0  |         |
|           |                                                     | Z | 100.00 | 127.71 | 34.58    |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 100.00 | 134.17 | 35.75    | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 129.88 | 33.78    |       | 100.0 |         |
|           |                                                     | Z | 11.61  | 94.97  | 24.24    |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 100.00 | 137.29 | 36.58    | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 130.66 | 33.62    |       | 100.0 |         |
|           |                                                     | Z | 4.33   | 82.33  | 19.97    |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 100.00 | 130.71 | 36.03    | 5.30  | 70.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 130.77 | 35.98    |       | 70.0  |         |
|           |                                                     | Z | 100.00 | 128.09 | 34.75    |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 100.00 | 134.29 | 35.76    | 1.88  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 129.91 | 33.75    |       | 100.0 |         |
|           |                                                     | Z | 10.03  | 92.97  | 23.62    |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 100.00 | 138.46 | 37.10    | 1.17  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 131.64 | 34.05    |       | 100.0 |         |
|           |                                                     | Z | 4.45   | 83.00  | 20.32    |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 100.00 | 142.81 | 38.20    | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 130.89 | 33.09    |       | 150.0 |         |
|           |                                                     | Z | 1.82   | 71.88  | 15.66    |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 100.00 | 116.33 | 28.49    | 7.78  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 117.57 | 28.94    |       | 50.0  |         |
|           |                                                     | Z | 100.00 | 114.73 | 27.62    |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.04   | 60.00  | 33278.71 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                     | Y | 0.00   | 122.34 | 8.39     |       | 150.0 |         |
|           |                                                     | Z | 0.00   | 92.92  | 0.19     |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 100.00 | 120.84 | 32.60    | 13.80 | 25.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 123.33 | 33.70    |       | 25.0  |         |
|           |                                                     | Z | 100.00 | 121.66 | 32.71    |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 100.00 | 118.91 | 30.76    | 10.79 | 40.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 120.75 | 31.53    |       | 40.0  |         |
|           |                                                     | Z | 100.00 | 118.52 | 30.38    |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 100.00 | 125.79 | 34.95    | 9.03  | 50.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 126.94 | 35.43    |       | 50.0  |         |
|           |                                                     | Z | 100.00 | 125.72 | 34.83    |       | 50.0  |         |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 12.07  | 100.39 | 34.94    | 6.55  | 100.0 | ± 9.6 % |
|           |                                                     | Y | 7.04   | 86.32  | 29.17    |       | 100.0 |         |
|           |                                                     | Z | 6.91   | 84.62  | 27.94    |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 2.61   | 84.57  | 27.64    | 0.61  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 1.63   | 71.80  | 20.55    |       | 110.0 |         |
|           |                                                     | Z | 1.35   | 66.12  | 16.51    |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 100.00 | 164.51 | 47.84    | 1.30  | 110.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 149.88 | 41.37    |       | 110.0 |         |
|           |                                                     | Z | 100.00 | 136.31 | 35.51    |       | 110.0 |         |

|           |                                                |   |        |        |       |      |       |         |
|-----------|------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 100.00 | 154.44 | 45.67 | 2.04 | 110.0 | ± 9.6 % |
|           |                                                | Y | 100.00 | 147.66 | 42.48 |      | 110.0 |         |
|           |                                                | Z | 8.20   | 96.55  | 27.78 |      | 110.0 |         |
| 10062-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 4.88   | 68.36  | 18.22 | 0.49 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.78   | 67.54  | 17.38 |      | 100.0 |         |
|           |                                                | Z | 4.72   | 66.77  | 16.62 |      | 100.0 |         |
| 10063-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 4.91   | 68.52  | 18.35 | 0.72 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.81   | 67.68  | 17.52 |      | 100.0 |         |
|           |                                                | Z | 4.74   | 66.90  | 16.75 |      | 100.0 |         |
| 10064-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 5.17   | 68.65  | 18.49 | 0.86 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.09   | 67.88  | 17.70 |      | 100.0 |         |
|           |                                                | Z | 5.03   | 67.17  | 16.99 |      | 100.0 |         |
| 10065-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 5.06   | 68.64  | 18.66 | 1.21 | 100.0 | ± 9.6 % |
|           |                                                | Y | 4.98   | 67.86  | 17.87 |      | 100.0 |         |
|           |                                                | Z | 4.92   | 67.14  | 17.14 |      | 100.0 |         |
| 10066-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 5.08   | 68.68  | 18.85 | 1.46 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.00   | 67.91  | 18.06 |      | 100.0 |         |
|           |                                                | Z | 4.95   | 67.20  | 17.33 |      | 100.0 |         |
| 10067-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 5.37   | 68.80  | 19.23 | 2.04 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.30   | 68.07  | 18.48 |      | 100.0 |         |
|           |                                                | Z | 5.25   | 67.41  | 17.81 |      | 100.0 |         |
| 10068-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 5.42   | 68.80  | 19.44 | 2.55 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.35   | 68.11  | 18.71 |      | 100.0 |         |
|           |                                                | Z | 5.32   | 67.52  | 18.08 |      | 100.0 |         |
| 10069-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.49   | 68.78  | 19.61 | 2.67 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.43   | 68.10  | 18.89 |      | 100.0 |         |
|           |                                                | Z | 5.40   | 67.52  | 18.27 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 5.18   | 68.39  | 19.05 | 1.99 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.11   | 67.70  | 18.32 |      | 100.0 |         |
|           |                                                | Z | 5.06   | 67.05  | 17.64 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 5.21   | 68.93  | 19.40 | 2.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.12   | 68.16  | 18.62 |      | 100.0 |         |
|           |                                                | Z | 5.07   | 67.46  | 17.92 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 5.31   | 69.21  | 19.79 | 2.83 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.21   | 68.41  | 19.00 |      | 100.0 |         |
|           |                                                | Z | 5.15   | 67.71  | 18.31 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 5.31   | 69.16  | 19.96 | 3.30 | 100.0 | ± 9.6 % |
|           |                                                | Y | 5.21   | 68.36  | 19.18 |      | 100.0 |         |
|           |                                                | Z | 5.16   | 67.67  | 18.50 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 5.37   | 69.34  | 20.31 | 3.82 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.27   | 68.53  | 19.53 |      | 90.0  |         |
|           |                                                | Z | 5.22   | 67.89  | 18.88 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 5.38   | 69.09  | 20.41 | 4.15 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.29   | 68.30  | 19.64 |      | 90.0  |         |
|           |                                                | Z | 5.24   | 67.69  | 19.01 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 5.42   | 69.19  | 20.52 | 4.30 | 90.0  | ± 9.6 % |
|           |                                                | Y | 5.32   | 68.37  | 19.74 |      | 90.0  |         |
|           |                                                | Z | 5.26   | 67.76  | 19.11 |      | 90.0  |         |

|           |                                                     |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 100.00 | 155.40 | 42.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 100.00 | 134.20 | 33.36 |      | 150.0 |         |
|           |                                                     | Z | 0.85   | 65.92  | 12.58 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 1.14   | 60.79  | 5.96  | 4.77 | 80.0  | ± 9.6 % |
|           |                                                     | Y | 1.01   | 60.29  | 5.65  |      | 80.0  |         |
|           |                                                     | Z | 1.08   | 60.45  | 5.75  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 120.61 | 30.31 | 6.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 100.00 | 121.42 | 30.54 |      | 60.0  |         |
|           |                                                     | Z | 100.00 | 117.30 | 28.66 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 8.37   | 99.09  | 29.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.66   | 75.50  | 20.06 |      | 150.0 |         |
|           |                                                     | Z | 1.84   | 67.59  | 15.66 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 8.83   | 100.55 | 30.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.62   | 75.61  | 20.11 |      | 150.0 |         |
|           |                                                     | Z | 1.80   | 67.54  | 15.63 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 76.44  | 148.45 | 51.16 | 9.56 | 60.0  | ± 9.6 % |
|           |                                                     | Y | 16.96  | 107.22 | 38.55 |      | 60.0  |         |
|           |                                                     | Z | 19.40  | 109.66 | 38.98 |      | 60.0  |         |
| 10100-CAC | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 6.40   | 85.23  | 24.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.99   | 75.40  | 19.64 |      | 150.0 |         |
|           |                                                     | Z | 3.12   | 70.16  | 16.68 |      | 150.0 |         |
| 10101-CAC | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 3.95   | 72.61  | 19.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.51   | 69.58  | 17.52 |      | 150.0 |         |
|           |                                                     | Z | 3.24   | 67.43  | 15.92 |      | 150.0 |         |
| 10102-CAC | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 3.98   | 72.12  | 19.44 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.60   | 69.42  | 17.54 |      | 150.0 |         |
|           |                                                     | Z | 3.35   | 67.40  | 16.02 |      | 150.0 |         |
| 10103-CAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 13.23  | 90.07  | 26.83 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 9.62   | 83.56  | 24.14 |      | 65.0  |         |
|           |                                                     | Z | 8.12   | 79.44  | 22.09 |      | 65.0  |         |
| 10104-CAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 9.16   | 81.62  | 24.58 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 7.88   | 78.14  | 22.80 |      | 65.0  |         |
|           |                                                     | Z | 7.67   | 76.81  | 21.84 |      | 65.0  |         |
| 10105-CAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 8.44   | 79.83  | 24.14 | 3.98 | 65.0  | ± 9.6 % |
|           |                                                     | Y | 7.32   | 76.56  | 22.43 |      | 65.0  |         |
|           |                                                     | Z | 6.88   | 74.64  | 21.21 |      | 65.0  |         |
| 10108-CAD | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 5.86   | 85.95  | 24.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.50   | 74.93  | 19.69 |      | 150.0 |         |
|           |                                                     | Z | 2.72   | 69.40  | 16.50 |      | 150.0 |         |
| 10109-CAD | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 3.78   | 74.07  | 20.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.21   | 69.99  | 17.72 |      | 150.0 |         |
|           |                                                     | Z | 2.90   | 67.28  | 15.82 |      | 150.0 |         |
| 10110-CAD | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 6.51   | 91.60  | 27.11 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 2.98   | 75.13  | 19.85 |      | 150.0 |         |
|           |                                                     | Z | 2.21   | 68.51  | 16.10 |      | 150.0 |         |
| 10111-CAD | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 4.66   | 81.28  | 23.22 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 3.20   | 72.93  | 18.96 |      | 150.0 |         |
|           |                                                     | Z | 2.61   | 68.12  | 16.11 |      | 150.0 |         |

|           |                                                |   |        |        |       |      |       |         |
|-----------|------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10112-CAD | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 3.82   | 73.46  | 20.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.31   | 69.82  | 17.67 |      | 150.0 |         |
|           |                                                | Z | 3.02   | 67.29  | 15.88 |      | 150.0 |         |
| 10113-CAD | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 4.62   | 80.16  | 22.78 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.34   | 72.79  | 18.94 |      | 150.0 |         |
|           |                                                | Z | 2.77   | 68.28  | 16.24 |      | 150.0 |         |
| 10114-CAB | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.34   | 68.67  | 17.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.23   | 67.90  | 17.19 |      | 150.0 |         |
|           |                                                | Z | 5.14   | 67.18  | 16.46 |      | 150.0 |         |
| 10115-CAB | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.59   | 68.63  | 17.95 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.49   | 67.91  | 17.19 |      | 150.0 |         |
|           |                                                | Z | 5.42   | 67.30  | 16.53 |      | 150.0 |         |
| 10116-CAB | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.44   | 68.89  | 18.02 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.32   | 68.08  | 17.21 |      | 150.0 |         |
|           |                                                | Z | 5.23   | 67.37  | 16.48 |      | 150.0 |         |
| 10117-CAB | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.29   | 68.47  | 17.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.18   | 67.71  | 17.12 |      | 150.0 |         |
|           |                                                | Z | 5.10   | 67.03  | 16.40 |      | 150.0 |         |
| 10118-CAB | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.69   | 68.91  | 18.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.57   | 68.13  | 17.31 |      | 150.0 |         |
|           |                                                | Z | 5.50   | 67.51  | 16.64 |      | 150.0 |         |
| 10119-CAB | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.44   | 68.89  | 18.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 5.31   | 68.06  | 17.21 |      | 150.0 |         |
|           |                                                | Z | 5.21   | 67.32  | 16.47 |      | 150.0 |         |
| 10140-CAC | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 4.03   | 72.14  | 19.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.63   | 69.41  | 17.44 |      | 150.0 |         |
|           |                                                | Z | 3.38   | 67.41  | 15.94 |      | 150.0 |         |
| 10141-CAC | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 4.11   | 71.95  | 19.35 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.75   | 69.45  | 17.57 |      | 150.0 |         |
|           |                                                | Z | 3.51   | 67.52  | 16.11 |      | 150.0 |         |
| 10142-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 21.48  | 114.85 | 33.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.14   | 77.87  | 20.57 |      | 150.0 |         |
|           |                                                | Z | 1.99   | 68.51  | 15.75 |      | 150.0 |         |
| 10143-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 12.07  | 99.15  | 28.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.71   | 76.97  | 19.89 |      | 150.0 |         |
|           |                                                | Z | 2.48   | 68.88  | 15.81 |      | 150.0 |         |
| 10144-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 5.24   | 83.00  | 22.23 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 2.76   | 71.00  | 16.71 |      | 150.0 |         |
|           |                                                | Z | 2.24   | 66.55  | 14.17 |      | 150.0 |         |
| 10145-CAD | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 100.00 | 129.06 | 32.20 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 3.18   | 78.77  | 17.74 |      | 150.0 |         |
|           |                                                | Z | 1.22   | 65.03  | 11.75 |      | 150.0 |         |
| 10146-CAD | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 100.00 | 123.23 | 30.92 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 100.00 | 115.15 | 27.15 |      | 150.0 |         |
|           |                                                | Z | 1.91   | 66.05  | 11.69 |      | 150.0 |         |
| 10147-CAD | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 100.00 | 124.87 | 31.73 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                | Y | 100.00 | 116.51 | 27.84 |      | 150.0 |         |
|           |                                                | Z | 2.25   | 68.04  | 12.78 |      | 150.0 |         |

|           |                                            |   |        |        |       |      |       |         |
|-----------|--------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10149-CAC | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 3.80   | 74.20  | 20.37 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.22   | 70.09  | 17.78 |      | 150.0 |         |
|           |                                            | Z | 2.91   | 67.34  | 15.87 |      | 150.0 |         |
| 10150-CAC | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 3.84   | 73.57  | 20.10 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.33   | 69.91  | 17.73 |      | 150.0 |         |
|           |                                            | Z | 3.03   | 67.34  | 15.93 |      | 150.0 |         |
| 10151-CAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 19.64  | 99.60  | 30.13 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 11.72  | 89.01  | 26.23 |      | 65.0  |         |
|           |                                            | Z | 9.38   | 83.53  | 23.72 |      | 65.0  |         |
| 10152-CAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 9.40   | 83.50  | 24.98 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 7.65   | 78.95  | 22.82 |      | 65.0  |         |
|           |                                            | Z | 7.29   | 77.13  | 21.67 |      | 65.0  |         |
| 10153-CAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 10.00  | 84.72  | 25.82 | 3.98 | 65.0  | ± 9.6 % |
|           |                                            | Y | 8.20   | 80.25  | 23.73 |      | 65.0  |         |
|           |                                            | Z | 7.75   | 78.20  | 22.47 |      | 65.0  |         |
| 10154-CAD | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 7.21   | 93.68  | 27.89 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.13   | 76.08  | 20.32 |      | 150.0 |         |
|           |                                            | Z | 2.26   | 68.91  | 16.35 |      | 150.0 |         |
| 10155-CAD | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 4.67   | 81.33  | 23.26 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.21   | 72.96  | 18.99 |      | 150.0 |         |
|           |                                            | Z | 2.62   | 68.14  | 16.12 |      | 150.0 |         |
| 10156-CAD | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 100.00 | 142.89 | 39.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.54   | 81.17  | 21.54 |      | 150.0 |         |
|           |                                            | Z | 1.83   | 68.59  | 15.53 |      | 150.0 |         |
| 10157-CAD | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 16.83  | 103.32 | 28.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.01   | 74.10  | 17.78 |      | 150.0 |         |
|           |                                            | Z | 2.08   | 67.12  | 14.20 |      | 150.0 |         |
| 10158-CAD | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 4.66   | 80.37  | 22.89 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.36   | 72.93  | 19.02 |      | 150.0 |         |
|           |                                            | Z | 2.77   | 68.34  | 16.29 |      | 150.0 |         |
| 10159-CAD | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 19.85  | 105.75 | 29.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.28   | 75.17  | 18.29 |      | 150.0 |         |
|           |                                            | Z | 2.19   | 67.58  | 14.49 |      | 150.0 |         |
| 10160-CAC | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 4.86   | 81.40  | 23.30 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.33   | 73.07  | 19.03 |      | 150.0 |         |
|           |                                            | Z | 2.74   | 68.54  | 16.30 |      | 150.0 |         |
| 10161-CAC | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 3.81   | 74.14  | 20.31 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.24   | 70.06  | 17.76 |      | 150.0 |         |
|           |                                            | Z | 2.93   | 67.29  | 15.85 |      | 150.0 |         |
| 10162-CAC | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 3.92   | 74.09  | 20.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.35   | 70.17  | 17.83 |      | 150.0 |         |
|           |                                            | Z | 3.04   | 67.45  | 15.97 |      | 150.0 |         |
| 10166-CAD | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 5.12   | 79.70  | 25.72 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.20   | 73.79  | 22.01 |      | 150.0 |         |
|           |                                            | Z | 3.56   | 69.20  | 18.99 |      | 150.0 |         |
| 10167-CAD | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 10.25  | 92.73  | 29.46 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.97   | 79.38  | 23.35 |      | 150.0 |         |
|           |                                            | Z | 4.30   | 71.78  | 19.33 |      | 150.0 |         |

|           |                                            |   |        |        |       |      |       |         |
|-----------|--------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10168-CAD | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 15.18  | 101.89 | 32.97 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 7.38   | 84.17  | 25.64 |      | 150.0 |         |
|           |                                            | Z | 4.75   | 73.95  | 20.64 |      | 150.0 |         |
| 10169-CAC | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 4.94   | 82.55  | 27.22 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.74   | 74.26  | 22.34 |      | 150.0 |         |
|           |                                            | Z | 2.97   | 68.41  | 18.64 |      | 150.0 |         |
| 10170-CAC | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 30.38  | 121.99 | 39.57 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 7.35   | 87.61  | 27.25 |      | 150.0 |         |
|           |                                            | Z | 3.90   | 73.46  | 20.65 |      | 150.0 |         |
| 10171-AAC | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 12.46  | 100.29 | 31.83 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 5.00   | 78.83  | 22.80 |      | 150.0 |         |
|           |                                            | Z | 3.29   | 69.86  | 18.12 |      | 150.0 |         |
| 10172-CAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 100.00 | 151.68 | 48.34 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 74.19  | 139.46 | 43.86 |      | 65.0  |         |
|           |                                            | Z | 11.81  | 96.94  | 30.70 |      | 65.0  |         |
| 10173-CAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 100.00 | 139.54 | 42.10 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 100.00 | 135.74 | 40.20 |      | 65.0  |         |
|           |                                            | Z | 30.70  | 110.13 | 32.66 |      | 65.0  |         |
| 10174-CAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 100.00 | 138.17 | 41.27 | 6.02 | 65.0  | ± 9.6 % |
|           |                                            | Y | 100.00 | 133.66 | 39.06 |      | 65.0  |         |
|           |                                            | Z | 19.30  | 100.43 | 29.33 |      | 65.0  |         |
| 10175-CAD | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 4.82   | 81.81  | 26.80 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.66   | 73.73  | 21.99 |      | 150.0 |         |
|           |                                            | Z | 2.93   | 68.13  | 18.40 |      | 150.0 |         |
| 10176-CAD | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 30.59  | 122.13 | 39.61 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 7.37   | 87.66  | 27.27 |      | 150.0 |         |
|           |                                            | Z | 3.91   | 73.48  | 20.66 |      | 150.0 |         |
| 10177-CAF | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 4.89   | 82.15  | 26.96 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.71   | 73.98  | 22.12 |      | 150.0 |         |
|           |                                            | Z | 2.96   | 68.26  | 18.49 |      | 150.0 |         |
| 10178-CAD | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 28.84  | 120.76 | 39.20 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 7.21   | 87.16  | 27.06 |      | 150.0 |         |
|           |                                            | Z | 3.88   | 73.30  | 20.55 |      | 150.0 |         |
| 10179-CAD | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 19.97  | 111.22 | 35.71 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 6.04   | 83.00  | 24.89 |      | 150.0 |         |
|           |                                            | Z | 3.57   | 71.57  | 19.26 |      | 150.0 |         |
| 10180-CAD | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 12.29  | 99.95  | 31.70 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.97   | 78.67  | 22.72 |      | 150.0 |         |
|           |                                            | Z | 3.28   | 69.80  | 18.08 |      | 150.0 |         |
| 10181-CAC | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 4.88   | 82.12  | 26.95 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 3.70   | 73.95  | 22.11 |      | 150.0 |         |
|           |                                            | Z | 2.95   | 68.25  | 18.48 |      | 150.0 |         |
| 10182-CAC | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 28.68  | 120.65 | 39.17 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 7.19   | 87.11  | 27.04 |      | 150.0 |         |
|           |                                            | Z | 3.87   | 73.28  | 20.54 |      | 150.0 |         |
| 10183-AAB | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 12.23  | 99.85  | 31.67 | 3.01 | 150.0 | ± 9.6 % |
|           |                                            | Y | 4.95   | 78.64  | 22.71 |      | 150.0 |         |
|           |                                            | Z | 3.28   | 69.78  | 18.07 |      | 150.0 |         |

|           |                                               |   |       |        |       |      |       |         |
|-----------|-----------------------------------------------|---|-------|--------|-------|------|-------|---------|
| 10184-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 4.90  | 82.20  | 26.98 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.72  | 74.01  | 22.14 |      | 150.0 |         |
|           |                                               | Z | 2.96  | 68.29  | 18.50 |      | 150.0 |         |
| 10185-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 29.15 | 120.99 | 39.27 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 7.24  | 87.25  | 27.10 |      | 150.0 |         |
|           |                                               | Z | 3.89  | 73.34  | 20.58 |      | 150.0 |         |
| 10186-AAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 12.40 | 100.12 | 31.76 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.99  | 78.75  | 22.76 |      | 150.0 |         |
|           |                                               | Z | 3.29  | 69.84  | 18.10 |      | 150.0 |         |
| 10187-CAD | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 4.92  | 82.31  | 27.07 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 3.73  | 74.10  | 22.22 |      | 150.0 |         |
|           |                                               | Z | 2.97  | 68.34  | 18.57 |      | 150.0 |         |
| 10188-CAD | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 34.85 | 125.22 | 40.56 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 7.74  | 88.75  | 27.75 |      | 150.0 |         |
|           |                                               | Z | 3.99  | 73.90  | 20.92 |      | 150.0 |         |
| 10189-AAD | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 13.54 | 102.11 | 32.50 | 3.01 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.19  | 79.59  | 23.19 |      | 150.0 |         |
|           |                                               | Z | 3.35  | 70.21  | 18.35 |      | 150.0 |         |
| 10193-CAB | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.72  | 68.35  | 17.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.61  | 67.43  | 16.95 |      | 150.0 |         |
|           |                                               | Z | 4.53  | 66.60  | 16.15 |      | 150.0 |         |
| 10194-CAB | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 4.89  | 68.63  | 17.96 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.78  | 67.72  | 17.07 |      | 150.0 |         |
|           |                                               | Z | 4.70  | 66.90  | 16.28 |      | 150.0 |         |
| 10195-CAB | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 4.93  | 68.64  | 17.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.82  | 67.74  | 17.08 |      | 150.0 |         |
|           |                                               | Z | 4.74  | 66.93  | 16.30 |      | 150.0 |         |
| 10196-CAB | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.72  | 68.41  | 17.87 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.61  | 67.48  | 16.97 |      | 150.0 |         |
|           |                                               | Z | 4.53  | 66.65  | 16.17 |      | 150.0 |         |
| 10197-CAB | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 4.90  | 68.65  | 17.97 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.79  | 67.74  | 17.08 |      | 150.0 |         |
|           |                                               | Z | 4.71  | 66.92  | 16.29 |      | 150.0 |         |
| 10198-CAB | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 4.93  | 68.66  | 17.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.82  | 67.76  | 17.09 |      | 150.0 |         |
|           |                                               | Z | 4.74  | 66.95  | 16.31 |      | 150.0 |         |
| 10219-CAB | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.68  | 68.51  | 17.88 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.56  | 67.54  | 16.95 |      | 150.0 |         |
|           |                                               | Z | 4.48  | 66.67  | 16.13 |      | 150.0 |         |
| 10220-CAB | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 4.89  | 68.60  | 17.95 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.78  | 67.70  | 17.06 |      | 150.0 |         |
|           |                                               | Z | 4.70  | 66.89  | 16.28 |      | 150.0 |         |
| 10221-CAB | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 4.93  | 68.54  | 17.94 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 4.82  | 67.67  | 17.07 |      | 150.0 |         |
|           |                                               | Z | 4.75  | 66.88  | 16.29 |      | 150.0 |         |
| 10222-CAB | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 5.26  | 68.48  | 17.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                               | Y | 5.16  | 67.73  | 17.12 |      | 150.0 |         |
|           |                                               | Z | 5.08  | 67.04  | 16.40 |      | 150.0 |         |

|           |                                           |   |        |        |       |      |       |         |
|-----------|-------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10223-CAB | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.57   | 68.66  | 17.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.47   | 67.95  | 17.23 |      | 150.0 |         |
|           |                                           | Z | 5.38   | 67.26  | 16.53 |      | 150.0 |         |
| 10224-CAB | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.32   | 68.62  | 17.91 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 5.21   | 67.85  | 17.11 |      | 150.0 |         |
|           |                                           | Z | 5.12   | 67.16  | 16.38 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 3.39   | 71.44  | 19.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                           | Y | 3.01   | 68.27  | 16.87 |      | 150.0 |         |
|           |                                           | Z | 2.80   | 66.09  | 15.29 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 100.00 | 139.75 | 42.24 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 135.98 | 40.35 |      | 65.0  |         |
|           |                                           | Z | 33.82  | 112.09 | 33.29 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 100.00 | 136.86 | 40.72 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 133.34 | 38.96 |      | 65.0  |         |
|           |                                           | Z | 30.53  | 108.44 | 31.65 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 100.00 | 151.26 | 48.16 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 146.43 | 45.64 |      | 65.0  |         |
|           |                                           | Z | 20.51  | 108.39 | 34.27 |      | 65.0  |         |
| 10229-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 100.00 | 139.51 | 42.09 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 135.72 | 40.20 |      | 65.0  |         |
|           |                                           | Z | 30.89  | 110.23 | 32.69 |      | 65.0  |         |
| 10230-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 100.00 | 136.75 | 40.63 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 133.18 | 38.85 |      | 65.0  |         |
|           |                                           | Z | 27.96  | 106.75 | 31.10 |      | 65.0  |         |
| 10231-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 100.00 | 151.11 | 48.05 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 146.23 | 45.51 |      | 65.0  |         |
|           |                                           | Z | 19.13  | 106.85 | 33.74 |      | 65.0  |         |
| 10232-CAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 100.00 | 139.53 | 42.10 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 135.73 | 40.20 |      | 65.0  |         |
|           |                                           | Z | 30.87  | 110.23 | 32.69 |      | 65.0  |         |
| 10233-CAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 100.00 | 136.78 | 40.64 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 133.20 | 38.86 |      | 65.0  |         |
|           |                                           | Z | 27.90  | 106.73 | 31.10 |      | 65.0  |         |
| 10234-CAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 100.00 | 150.76 | 47.84 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 145.85 | 45.29 |      | 65.0  |         |
|           |                                           | Z | 18.03  | 105.44 | 33.20 |      | 65.0  |         |
| 10235-CAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 100.00 | 139.55 | 42.11 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 135.75 | 40.21 |      | 65.0  |         |
|           |                                           | Z | 30.96  | 110.30 | 32.72 |      | 65.0  |         |
| 10236-CAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 100.00 | 136.69 | 40.61 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 133.14 | 38.83 |      | 65.0  |         |
|           |                                           | Z | 28.31  | 106.95 | 31.15 |      | 65.0  |         |
| 10237-CAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 100.00 | 151.17 | 48.07 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 146.27 | 45.52 |      | 65.0  |         |
|           |                                           | Z | 19.24  | 107.00 | 33.78 |      | 65.0  |         |
| 10238-CAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 100.00 | 139.56 | 42.11 | 6.02 | 65.0  | ± 9.6 % |
|           |                                           | Y | 100.00 | 135.75 | 40.21 |      | 65.0  |         |
|           |                                           | Z | 30.83  | 110.22 | 32.69 |      | 65.0  |         |

|           |                                            |   |        |        |       |      |      |         |
|-----------|--------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10239-CAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 100.00 | 136.81 | 40.66 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 133.23 | 38.87 |      | 65.0 |         |
|           |                                            | Z | 27.83  | 106.71 | 31.09 |      | 65.0 |         |
| 10240-CAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 100.00 | 151.19 | 48.08 | 6.02 | 65.0 | ± 9.6 % |
|           |                                            | Y | 100.00 | 146.29 | 45.53 |      | 65.0 |         |
|           |                                            | Z | 19.17  | 106.94 | 33.77 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 27.03  | 111.16 | 37.52 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 13.31  | 92.73  | 30.56 |      | 65.0 |         |
|           |                                            | Z | 10.04  | 85.04  | 27.09 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 22.19  | 106.38 | 35.88 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 11.66  | 89.72  | 29.35 |      | 65.0 |         |
|           |                                            | Z | 8.62   | 81.79  | 25.73 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 11.57  | 93.35  | 32.65 | 6.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.03   | 82.92  | 27.72 |      | 65.0 |         |
|           |                                            | Z | 6.81   | 78.02  | 25.07 |      | 65.0 |         |
| 10244-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 100.00 | 123.50 | 34.11 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 24.95  | 99.23  | 27.14 |      | 65.0 |         |
|           |                                            | Z | 8.50   | 80.47  | 20.44 |      | 65.0 |         |
| 10245-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 100.00 | 123.05 | 33.92 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 20.53  | 95.72  | 26.01 |      | 65.0 |         |
|           |                                            | Z | 8.12   | 79.49  | 20.01 |      | 65.0 |         |
| 10246-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 100.00 | 125.12 | 34.01 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 35.44  | 108.08 | 29.61 |      | 65.0 |         |
|           |                                            | Z | 10.97  | 87.95  | 23.31 |      | 65.0 |         |
| 10247-CAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 14.41  | 92.01  | 25.80 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.86   | 83.39  | 22.68 |      | 65.0 |         |
|           |                                            | Z | 7.05   | 78.51  | 20.57 |      | 65.0 |         |
| 10248-CAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 12.14  | 88.55  | 24.60 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 8.12   | 81.38  | 21.89 |      | 65.0 |         |
|           |                                            | Z | 6.83   | 77.50  | 20.15 |      | 65.0 |         |
| 10249-CAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 100.00 | 129.31 | 36.57 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 37.16  | 111.37 | 31.80 |      | 65.0 |         |
|           |                                            | Z | 13.06  | 91.67  | 25.51 |      | 65.0 |         |
| 10250-CAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 13.40  | 92.63  | 28.17 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 9.32   | 85.01  | 25.16 |      | 65.0 |         |
|           |                                            | Z | 7.97   | 80.84  | 23.13 |      | 65.0 |         |
| 10251-CAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 10.37  | 86.09  | 25.41 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.91   | 80.43  | 22.97 |      | 65.0 |         |
|           |                                            | Z | 7.26   | 77.85  | 21.58 |      | 65.0 |         |
| 10252-CAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 66.12  | 124.87 | 37.12 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 18.22  | 99.49  | 29.62 |      | 65.0 |         |
|           |                                            | Z | 11.22  | 88.84  | 25.57 |      | 65.0 |         |
| 10253-CAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 9.02   | 82.54  | 24.55 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.42   | 78.23  | 22.49 |      | 65.0 |         |
|           |                                            | Z | 7.09   | 76.49  | 21.39 |      | 65.0 |         |
| 10254-CAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 9.58   | 83.67  | 25.30 | 3.98 | 65.0 | ± 9.6 % |
|           |                                            | Y | 7.93   | 79.41  | 23.29 |      | 65.0 |         |
|           |                                            | Z | 7.53   | 77.48  | 22.11 |      | 65.0 |         |

|           |                                             |   |        |        |       |      |      |         |
|-----------|---------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10255-CAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 17.37  | 97.71  | 29.76 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 10.72  | 87.65  | 25.97 |      | 65.0 |         |
|           |                                             | Z | 8.82   | 82.68  | 23.62 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 100.00 | 118.83 | 31.30 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 16.34  | 90.48  | 23.12 |      | 65.0 |         |
|           |                                             | Z | 6.47   | 75.75  | 17.56 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 100.00 | 118.02 | 30.92 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 12.46  | 85.97  | 21.51 |      | 65.0 |         |
|           |                                             | Z | 6.10   | 74.52  | 16.96 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 100.00 | 120.46 | 31.38 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 16.56  | 93.85  | 24.36 |      | 65.0 |         |
|           |                                             | Z | 7.50   | 81.12  | 20.03 |      | 65.0 |         |
| 10259-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 14.09  | 92.32  | 26.67 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 9.08   | 84.02  | 23.57 |      | 65.0 |         |
|           |                                             | Z | 7.43   | 79.38  | 21.49 |      | 65.0 |         |
| 10260-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 12.95  | 90.42  | 26.02 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.77   | 83.04  | 23.20 |      | 65.0 |         |
|           |                                             | Z | 7.35   | 78.87  | 21.29 |      | 65.0 |         |
| 10261-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 100.00 | 130.84 | 37.65 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 21.82  | 102.51 | 29.84 |      | 65.0 |         |
|           |                                             | Z | 11.17  | 88.98  | 25.06 |      | 65.0 |         |
| 10262-CAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 13.33  | 92.49  | 28.10 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 9.28   | 84.90  | 25.09 |      | 65.0 |         |
|           |                                             | Z | 7.95   | 80.77  | 23.08 |      | 65.0 |         |
| 10263-CAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 10.34  | 86.05  | 25.40 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.89   | 80.40  | 22.96 |      | 65.0 |         |
|           |                                             | Z | 7.25   | 77.83  | 21.57 |      | 65.0 |         |
| 10264-CAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 63.06  | 123.89 | 36.84 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 17.78  | 98.99  | 29.44 |      | 65.0 |         |
|           |                                             | Z | 11.06  | 88.56  | 25.45 |      | 65.0 |         |
| 10265-CAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 9.39   | 83.51  | 24.98 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.65   | 78.95  | 22.83 |      | 65.0 |         |
|           |                                             | Z | 7.29   | 77.13  | 21.68 |      | 65.0 |         |
| 10266-CAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 9.99   | 84.70  | 25.81 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 8.20   | 80.22  | 23.71 |      | 65.0 |         |
|           |                                             | Z | 7.75   | 78.18  | 22.46 |      | 65.0 |         |
| 10267-CAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 19.49  | 99.44  | 30.08 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 11.67  | 88.91  | 26.20 |      | 65.0 |         |
|           |                                             | Z | 9.36   | 83.47  | 23.70 |      | 65.0 |         |
| 10268-CAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 9.08   | 80.87  | 24.37 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.93   | 77.72  | 22.73 |      | 65.0 |         |
|           |                                             | Z | 7.76   | 76.51  | 21.82 |      | 65.0 |         |
| 10269-CAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 8.83   | 79.97  | 24.05 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 7.80   | 77.05  | 22.49 |      | 65.0 |         |
|           |                                             | Z | 7.67   | 75.98  | 21.65 |      | 65.0 |         |
| 10270-CAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 11.49  | 87.04  | 26.05 | 3.98 | 65.0 | ± 9.6 % |
|           |                                             | Y | 9.10   | 82.01  | 23.80 |      | 65.0 |         |
|           |                                             | Z | 8.28   | 79.22  | 22.23 |      | 65.0 |         |

|           |                                                                    |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 3.57   | 74.25  | 20.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.90   | 69.38  | 17.18 |      | 150.0 |         |
|           |                                                                    | Z | 2.59   | 66.47  | 15.22 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 30.34  | 126.43 | 37.36 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 2.63   | 77.85  | 20.90 |      | 150.0 |         |
|           |                                                                    | Z | 1.61   | 67.73  | 15.51 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)                                                         | X | 2.96   | 63.70  | 8.97  | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 2.79   | 63.56  | 8.96  |      | 50.0  |         |
|           |                                                                    | Z | 2.88   | 63.77  | 9.07  |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 13.27  | 86.57  | 21.38 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 12.33  | 86.49  | 21.60 |      | 50.0  |         |
|           |                                                                    | Z | 10.40  | 83.84  | 20.68 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 13.42  | 86.74  | 21.49 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 12.37  | 86.51  | 21.66 |      | 50.0  |         |
|           |                                                                    | Z | 10.56  | 84.02  | 20.80 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 100.00 | 139.28 | 36.53 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 127.98 | 31.70 |      | 150.0 |         |
|           |                                                                    | Z | 1.43   | 68.53  | 13.89 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 100.00 | 155.15 | 42.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 133.98 | 33.25 |      | 150.0 |         |
|           |                                                                    | Z | 0.83   | 65.70  | 12.45 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 100.00 | 167.38 | 47.17 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 141.45 | 36.40 |      | 150.0 |         |
|           |                                                                    | Z | 1.08   | 70.11  | 14.97 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 100.00 | 173.30 | 49.95 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 146.92 | 38.94 |      | 150.0 |         |
|           |                                                                    | Z | 1.75   | 77.07  | 18.34 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 100.00 | 126.97 | 36.33 | 9.03 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 37.16  | 110.47 | 32.36 |      | 50.0  |         |
|           |                                                                    | Z | 16.63  | 95.84  | 28.02 |      | 50.0  |         |
| 10297-AAB | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 5.95   | 86.31  | 25.06 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 3.53   | 75.13  | 19.79 |      | 150.0 |         |
|           |                                                                    | Z | 2.74   | 69.49  | 16.57 |      | 150.0 |         |
| 10298-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 100.00 | 137.56 | 36.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 4.69   | 85.47  | 21.64 |      | 150.0 |         |
|           |                                                                    | Z | 1.55   | 67.47  | 13.99 |      | 150.0 |         |
| 10299-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 100.00 | 128.93 | 34.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 100.00 | 121.22 | 30.51 |      | 150.0 |         |
|           |                                                                    | Z | 2.56   | 69.26  | 14.21 |      | 150.0 |         |
| 10300-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 100.00 | 121.70 | 30.64 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                    | Y | 4.09   | 75.19  | 16.27 |      | 150.0 |         |
|           |                                                                    | Z | 1.93   | 64.85  | 11.35 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 5.53   | 69.53  | 20.06 | 4.17 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.22   | 67.78  | 18.84 |      | 50.0  |         |
|           |                                                                    | Z | 5.04   | 66.48  | 17.94 |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 5.78   | 69.02  | 20.18 | 4.96 | 50.0  | ± 9.6 % |
|           |                                                                    | Y | 5.52   | 67.48  | 19.04 |      | 50.0  |         |
|           |                                                                    | Z | 5.45   | 66.79  | 18.49 |      | 50.0  |         |

|           |                                                                     |   |        |        |       |       |       |         |
|-----------|---------------------------------------------------------------------|---|--------|--------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 5.56   | 68.88  | 20.11 | 4.96  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 5.29   | 67.24  | 18.93 |       | 50.0  |         |
|           |                                                                     | Z | 5.22   | 66.53  | 18.37 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 5.37   | 68.79  | 19.65 | 4.17  | 50.0  | ± 9.6 % |
|           |                                                                     | Y | 5.10   | 67.14  | 18.46 |       | 50.0  |         |
|           |                                                                     | Z | 5.00   | 66.29  | 17.80 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 6.43   | 76.98  | 24.43 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.43   | 72.34  | 21.94 |       | 35.0  |         |
|           |                                                                     | Z | 5.03   | 70.13  | 20.82 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 5.78   | 72.22  | 22.50 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.33   | 69.62  | 20.84 |       | 35.0  |         |
|           |                                                                     | Z | 5.13   | 68.23  | 20.02 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 5.82   | 72.97  | 22.72 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.30   | 70.08  | 20.94 |       | 35.0  |         |
|           |                                                                     | Z | 5.07   | 68.57  | 20.06 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 5.91   | 73.63  | 23.07 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.33   | 70.49  | 21.17 |       | 35.0  |         |
|           |                                                                     | Z | 5.07   | 68.87  | 20.25 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 5.85   | 72.49  | 22.67 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.39   | 69.83  | 20.98 |       | 35.0  |         |
|           |                                                                     | Z | 5.19   | 68.46  | 20.17 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 5.80   | 72.59  | 22.61 | 6.02  | 35.0  | ± 9.6 % |
|           |                                                                     | Y | 5.32   | 69.84  | 20.89 |       | 35.0  |         |
|           |                                                                     | Z | 5.09   | 68.37  | 20.03 |       | 35.0  |         |
| 10311-AAB | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 5.89   | 82.21  | 23.23 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 3.91   | 73.71  | 19.06 |       | 150.0 |         |
|           |                                                                     | Z | 3.10   | 68.80  | 16.22 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3                                                            | X | 100.00 | 119.65 | 30.76 | 6.99  | 70.0  | ± 9.6 % |
|           |                                                                     | Y | 90.74  | 118.37 | 30.36 |       | 70.0  |         |
|           |                                                                     | Z | 11.05  | 86.90  | 21.42 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6                                                            | X | 100.00 | 131.79 | 37.39 | 10.00 | 30.0  | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 131.96 | 37.39 |       | 30.0  |         |
|           |                                                                     | Z | 24.59  | 105.81 | 30.25 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.74   | 77.43  | 24.92 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.30   | 68.66  | 19.07 |       | 150.0 |         |
|           |                                                                     | Z | 1.13   | 64.05  | 15.35 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.79   | 68.43  | 18.03 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.68   | 67.53  | 17.14 |       | 150.0 |         |
|           |                                                                     | Z | 4.61   | 66.73  | 16.36 |       | 150.0 |         |
| 10317-AAB | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.79   | 68.43  | 18.03 | 0.17  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.68   | 67.53  | 17.14 |       | 150.0 |         |
|           |                                                                     | Z | 4.61   | 66.73  | 16.36 |       | 150.0 |         |
| 10400-AAC | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 4.88   | 68.74  | 17.99 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.76   | 67.77  | 17.06 |       | 150.0 |         |
|           |                                                                     | Z | 4.69   | 66.95  | 16.27 |       | 150.0 |         |
| 10401-AAC | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.64   | 68.74  | 17.99 | 0.00  | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 5.50   | 67.87  | 17.16 |       | 150.0 |         |
|           |                                                                     | Z | 5.40   | 67.17  | 16.46 |       | 150.0 |         |

|           |                                                                                |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10402-AAC | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                            | X | 5.80   | 68.58  | 17.76 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.71   | 67.98  | 17.07 |      | 150.0 |         |
|           |                                                                                | Z | 5.64   | 67.43  | 16.45 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                     | X | 100.00 | 139.28 | 36.53 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                | Y | 100.00 | 127.98 | 31.70 |      | 115.0 |         |
|           |                                                                                | Z | 1.43   | 68.53  | 13.89 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)                                                     | X | 100.00 | 139.28 | 36.53 | 0.00 | 115.0 | ± 9.6 % |
|           |                                                                                | Y | 100.00 | 127.98 | 31.70 |      | 115.0 |         |
|           |                                                                                | Z | 1.43   | 68.53  | 13.89 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                           | X | 100.00 | 136.30 | 37.49 | 0.00 | 100.0 | ± 9.6 % |
|           |                                                                                | Y | 100.00 | 127.53 | 33.42 |      | 100.0 |         |
|           |                                                                                | Z | 17.59  | 99.62  | 25.67 |      | 100.0 |         |
| 10410-AAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                 | X | 100.00 | 142.84 | 40.60 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                                | Y | 100.00 | 132.92 | 35.89 |      | 80.0  |         |
|           |                                                                                | Z | 100.00 | 124.38 | 31.87 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                      | X | 1.43   | 73.95  | 23.34 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 1.15   | 66.84  | 18.05 |      | 150.0 |         |
|           |                                                                                | Z | 1.02   | 62.90  | 14.59 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                  | X | 4.72   | 68.37  | 17.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.61   | 67.46  | 17.02 |      | 150.0 |         |
|           |                                                                                | Z | 4.53   | 66.63  | 16.22 |      | 150.0 |         |
| 10417-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                      | X | 4.72   | 68.37  | 17.93 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.61   | 67.46  | 17.02 |      | 150.0 |         |
|           |                                                                                | Z | 4.53   | 66.63  | 16.22 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)  | X | 4.74   | 68.68  | 18.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.61   | 67.68  | 17.08 |      | 150.0 |         |
|           |                                                                                | Z | 4.52   | 66.80  | 16.25 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble) | X | 4.74   | 68.56  | 17.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.63   | 67.60  | 17.06 |      | 150.0 |         |
|           |                                                                                | Z | 4.54   | 66.74  | 16.24 |      | 150.0 |         |
| 10422-AAA | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                   | X | 4.84   | 68.43  | 17.92 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.73   | 67.54  | 17.04 |      | 150.0 |         |
|           |                                                                                | Z | 4.66   | 66.74  | 16.26 |      | 150.0 |         |
| 10423-AAA | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                | X | 5.00   | 68.74  | 18.02 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.89   | 67.84  | 17.14 |      | 150.0 |         |
|           |                                                                                | Z | 4.82   | 67.05  | 16.37 |      | 150.0 |         |
| 10424-AAA | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                | X | 4.93   | 68.74  | 18.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 4.82   | 67.82  | 17.13 |      | 150.0 |         |
|           |                                                                                | Z | 4.74   | 67.00  | 16.34 |      | 150.0 |         |
| 10425-AAA | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                    | X | 5.53   | 68.69  | 17.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.42   | 67.94  | 17.21 |      | 150.0 |         |
|           |                                                                                | Z | 5.34   | 67.30  | 16.52 |      | 150.0 |         |
| 10426-AAA | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                  | X | 5.59   | 68.91  | 18.09 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                                | Y | 5.46   | 68.08  | 17.27 |      | 150.0 |         |
|           |                                                                                | Z | 5.36   | 67.34  | 16.54 |      | 150.0 |         |

|           |                                                                |   |        |        |       |      |       |         |
|-----------|----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10427-AAA | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.55   | 68.70  | 17.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.44   | 67.97  | 17.21 |      | 150.0 |         |
|           |                                                                | Z | 5.36   | 67.31  | 16.52 |      | 150.0 |         |
| 10430-AAA | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 5.86   | 79.08  | 22.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.03   | 75.19  | 20.62 |      | 150.0 |         |
|           |                                                                | Z | 4.26   | 70.91  | 18.20 |      | 150.0 |         |
| 10431-AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.52   | 69.90  | 18.39 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.33   | 68.41  | 17.20 |      | 150.0 |         |
|           |                                                                | Z | 4.20   | 67.18  | 16.20 |      | 150.0 |         |
| 10432-AAA | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 4.74   | 69.13  | 18.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.60   | 68.02  | 17.16 |      | 150.0 |         |
|           |                                                                | Z | 4.51   | 67.05  | 16.29 |      | 150.0 |         |
| 10433-AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 4.95   | 68.77  | 18.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.83   | 67.85  | 17.15 |      | 150.0 |         |
|           |                                                                | Z | 4.75   | 67.03  | 16.36 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 7.18   | 83.19  | 23.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 5.57   | 77.41  | 21.05 |      | 150.0 |         |
|           |                                                                | Z | 4.37   | 71.81  | 18.17 |      | 150.0 |         |
| 10435-AAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 142.52 | 40.45 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                | Y | 100.00 | 132.66 | 35.76 |      | 80.0  |         |
|           |                                                                | Z | 100.00 | 124.17 | 31.77 |      | 80.0  |         |
| 10447-AAA | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 4.18   | 72.11  | 18.68 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.72   | 69.17  | 16.81 |      | 150.0 |         |
|           |                                                                | Z | 3.49   | 67.16  | 15.47 |      | 150.0 |         |
| 10448-AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 4.37   | 69.75  | 18.32 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.17   | 68.22  | 17.09 |      | 150.0 |         |
|           |                                                                | Z | 4.04   | 66.96  | 16.06 |      | 150.0 |         |
| 10449-AAA | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.57   | 69.06  | 18.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.42   | 67.89  | 17.09 |      | 150.0 |         |
|           |                                                                | Z | 4.32   | 66.88  | 16.18 |      | 150.0 |         |
| 10450-AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.73   | 68.63  | 17.98 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.61   | 67.67  | 17.04 |      | 150.0 |         |
|           |                                                                | Z | 4.52   | 66.80  | 16.22 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 4.34   | 73.44  | 18.70 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.67   | 69.63  | 16.50 |      | 150.0 |         |
|           |                                                                | Z | 3.37   | 67.30  | 15.05 |      | 150.0 |         |
| 10456-AAA | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.46   | 69.11  | 18.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 6.32   | 68.42  | 17.29 |      | 150.0 |         |
|           |                                                                | Z | 6.22   | 67.85  | 16.68 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)                                            | X | 3.94   | 66.93  | 17.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.86   | 66.08  | 16.76 |      | 150.0 |         |
|           |                                                                | Z | 3.80   | 65.28  | 15.93 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 3.97   | 72.03  | 17.62 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 3.39   | 68.52  | 15.58 |      | 150.0 |         |
|           |                                                                | Z | 3.18   | 66.61  | 14.42 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 4.61   | 67.54  | 17.28 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                | Y | 4.37   | 66.06  | 16.22 |      | 150.0 |         |
|           |                                                                | Z | 4.38   | 65.44  | 15.68 |      | 150.0 |         |

|           |                                                                   |   |        |        |       |      |       |         |
|-----------|-------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)                                             | X | 100.00 | 182.79 | 54.99 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                   | Y | 4.21   | 99.82  | 30.07 |      | 150.0 |         |
|           |                                                                   | Z | 0.90   | 67.72  | 15.95 |      | 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 | 163.95 | 49.98 | 3.29 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 144.88 | 41.27 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 128.80 | 33.97 |      | 80.0  |         |
| 10462-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 140.18 | 38.60 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 122.02 | 30.54 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 110.41 | 25.33 |      | 80.0  |         |
| 10463-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 134.58 | 35.94 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 116.89 | 28.12 |      | 80.0  |         |
|           |                                                                   | Z | 17.54  | 88.96  | 19.38 |      | 80.0  |         |
| 10464-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 163.69 | 49.57 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 143.29 | 40.31 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 126.55 | 32.75 |      | 80.0  |         |
| 10465-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 139.14 | 38.10 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 121.09 | 30.10 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 109.77 | 25.03 |      | 80.0  |         |
| 10466-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 133.29 | 35.35 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 115.93 | 27.68 |      | 80.0  |         |
|           |                                                                   | Z | 8.30   | 81.09  | 17.11 |      | 80.0  |         |
| 10467-AAB | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 164.18 | 49.79 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 143.68 | 40.49 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 126.83 | 32.88 |      | 80.0  |         |
| 10468-AAB | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 139.60 | 38.31 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 121.43 | 30.25 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 109.98 | 25.12 |      | 80.0  |         |
| 10469-AAB | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 133.47 | 35.43 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 116.01 | 27.71 |      | 80.0  |         |
|           |                                                                   | Z | 8.53   | 81.38  | 17.20 |      | 80.0  |         |
| 10470-AAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 164.38 | 49.87 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 143.79 | 40.52 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 126.87 | 32.89 |      | 80.0  |         |
| 10471-AAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 139.59 | 38.30 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 121.38 | 30.22 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 109.92 | 25.09 |      | 80.0  |         |
| 10472-AAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 133.46 | 35.41 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 115.95 | 27.67 |      | 80.0  |         |
|           |                                                                   | Z | 8.46   | 81.28  | 17.15 |      | 80.0  |         |
| 10473-AAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 164.35 | 49.85 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 143.75 | 40.51 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 126.83 | 32.87 |      | 80.0  |         |
| 10474-AAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 139.65 | 38.32 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 121.40 | 30.23 |      | 80.0  |         |
|           |                                                                   | Z | 100.00 | 109.93 | 25.09 |      | 80.0  |         |
| 10475-AAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 100.00 | 133.51 | 35.43 | 3.23 | 80.0  | ± 9.6 % |
|           |                                                                   | Y | 100.00 | 115.97 | 27.68 |      | 80.0  |         |
|           |                                                                   | Z | 8.32   | 81.12  | 17.11 |      | 80.0  |         |

|           |                                                                     |   |        |        |       |      |      |         |
|-----------|---------------------------------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10477-AAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 139.34 | 38.18 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 121.12 | 30.10 |      | 80.0 |         |
|           |                                                                     | Z | 100.00 | 109.73 | 25.00 |      | 80.0 |         |
| 10478-AAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 133.38 | 35.37 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 115.87 | 27.64 |      | 80.0 |         |
|           |                                                                     | Z | 8.15   | 80.88  | 17.02 |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 143.92 | 42.58 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 134.16 | 37.90 |      | 80.0 |         |
|           |                                                                     | Z | 18.74  | 99.94  | 27.52 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 129.53 | 35.72 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 121.61 | 31.99 |      | 80.0 |         |
|           |                                                                     | Z | 18.71  | 93.30  | 23.61 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 127.05 | 34.47 | 3.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 119.35 | 30.85 |      | 80.0 |         |
|           |                                                                     | Z | 13.59  | 88.02  | 21.66 |      | 80.0 |         |
| 10482-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 128.09 | 34.33 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 123.61 | 32.28 |      | 80.0 |         |
|           |                                                                     | Z | 5.44   | 79.76  | 19.82 |      | 80.0 |         |
| 10483-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 125.76 | 34.17 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 119.40 | 31.07 |      | 80.0 |         |
|           |                                                                     | Z | 7.34   | 79.91  | 19.33 |      | 80.0 |         |
| 10484-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 124.99 | 33.86 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 118.90 | 30.89 |      | 80.0 |         |
|           |                                                                     | Z | 6.42   | 77.88  | 18.62 |      | 80.0 |         |
| 10485-AAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 133.00 | 37.21 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 128.42 | 35.06 |      | 80.0 |         |
|           |                                                                     | Z | 5.41   | 80.17  | 21.02 |      | 80.0 |         |
| 10486-AAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 124.03 | 33.52 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 13.00  | 91.13  | 24.40 |      | 80.0 |         |
|           |                                                                     | Z | 4.30   | 73.28  | 17.85 |      | 80.0 |         |
| 10487-AAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 123.36 | 33.28 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 10.92  | 88.10  | 23.43 |      | 80.0 |         |
|           |                                                                     | Z | 4.21   | 72.61  | 17.56 |      | 80.0 |         |
| 10488-AAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 133.76 | 38.54 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 11.95  | 93.90  | 27.15 |      | 80.0 |         |
|           |                                                                     | Z | 4.90   | 77.03  | 20.61 |      | 80.0 |         |
| 10489-AAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 11.91  | 92.14  | 27.11 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 6.00   | 78.97  | 21.96 |      | 80.0 |         |
|           |                                                                     | Z | 4.21   | 71.72  | 18.50 |      | 80.0 |         |
| 10490-AAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 10.50  | 89.26  | 26.14 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.85   | 77.93  | 21.56 |      | 80.0 |         |
|           |                                                                     | Z | 4.27   | 71.39  | 18.37 |      | 80.0 |         |
| 10491-AAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 18.59  | 101.07 | 30.19 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 7.33   | 83.03  | 23.67 |      | 80.0 |         |
|           |                                                                     | Z | 4.76   | 74.21  | 19.65 |      | 80.0 |         |
| 10492-AAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 7.15   | 80.82  | 23.54 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                     | Y | 5.28   | 74.50  | 20.53 |      | 80.0 |         |
|           |                                                                     | Z | 4.41   | 70.33  | 18.22 |      | 80.0 |         |

|           |                                                                      |   |        |        |       |      |      |         |
|-----------|----------------------------------------------------------------------|---|--------|--------|-------|------|------|---------|
| 10493-AAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 6.93   | 79.79  | 23.14 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.26   | 74.00  | 20.33 |      | 80.0 |         |
|           |                                                                      | Z | 4.46   | 70.12  | 18.14 |      | 80.0 |         |
| 10494-AAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 37.39  | 113.27 | 33.38 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 9.51   | 87.50  | 25.04 |      | 80.0 |         |
|           |                                                                      | Z | 5.33   | 76.20  | 20.27 |      | 80.0 |         |
| 10495-AAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 7.44   | 81.80  | 23.99 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.41   | 75.16  | 20.86 |      | 80.0 |         |
|           |                                                                      | Z | 4.47   | 70.78  | 18.45 |      | 80.0 |         |
| 10496-AAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 6.99   | 80.00  | 23.32 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.33   | 74.27  | 20.52 |      | 80.0 |         |
|           |                                                                      | Z | 4.52   | 70.37  | 18.31 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 121.20 | 30.64 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 100.00 | 117.25 | 28.88 |      | 80.0 |         |
|           |                                                                      | Z | 3.78   | 74.10  | 16.68 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 107.41 | 24.42 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 3.42   | 70.23  | 13.88 |      | 80.0 |         |
|           |                                                                      | Z | 2.11   | 64.27  | 11.41 |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 105.72 | 23.64 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 2.62   | 67.00  | 12.38 |      | 80.0 |         |
|           |                                                                      | Z | 1.99   | 63.39  | 10.84 |      | 80.0 |         |
| 10500-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 133.14 | 37.69 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 25.43  | 106.72 | 30.24 |      | 80.0 |         |
|           |                                                                      | Z | 4.99   | 78.27  | 20.65 |      | 80.0 |         |
| 10501-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 59.61  | 117.62 | 32.89 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 8.51   | 84.82  | 23.05 |      | 80.0 |         |
|           |                                                                      | Z | 4.27   | 72.65  | 18.09 |      | 80.0 |         |
| 10502-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 46.57  | 112.86 | 31.56 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 8.22   | 83.77  | 22.60 |      | 80.0 |         |
|           |                                                                      | Z | 4.30   | 72.37  | 17.91 |      | 80.0 |         |
| 10503-AAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 133.70 | 38.50 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 11.52  | 93.25  | 26.93 |      | 80.0 |         |
|           |                                                                      | Z | 4.83   | 76.78  | 20.50 |      | 80.0 |         |
| 10504-AAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 11.71  | 91.79  | 26.98 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.94   | 78.76  | 21.86 |      | 80.0 |         |
|           |                                                                      | Z | 4.19   | 71.61  | 18.44 |      | 80.0 |         |
| 10505-AAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 10.35  | 88.98  | 26.03 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.79   | 77.74  | 21.47 |      | 80.0 |         |
|           |                                                                      | Z | 4.25   | 71.28  | 18.31 |      | 80.0 |         |
| 10506-AAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 35.68  | 112.39 | 33.13 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 9.32   | 87.11  | 24.89 |      | 80.0 |         |
|           |                                                                      | Z | 5.28   | 76.03  | 20.19 |      | 80.0 |         |
| 10507-AAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 7.39   | 81.68  | 23.93 | 2.23 | 80.0 | ± 9.6 % |
|           |                                                                      | Y | 5.38   | 75.06  | 20.81 |      | 80.0 |         |
|           |                                                                      | Z | 4.45   | 70.71  | 18.41 |      | 80.0 |         |

|           |                                                                     |   |        |        |       |      |       |         |
|-----------|---------------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10508-AAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.94   | 79.85  | 23.25 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.30   | 74.15  | 20.45 |      | 80.0  |         |
|           |                                                                     | Z | 4.50   | 70.30  | 18.27 |      | 80.0  |         |
| 10509-AAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 12.78  | 91.17  | 26.81 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 7.33   | 80.33  | 22.46 |      | 80.0  |         |
|           |                                                                     | Z | 5.34   | 73.80  | 19.31 |      | 80.0  |         |
| 10510-AAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.60   | 77.02  | 22.17 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.47   | 72.95  | 20.00 |      | 80.0  |         |
|           |                                                                     | Z | 4.87   | 70.05  | 18.23 |      | 80.0  |         |
| 10511-AAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.41   | 75.99  | 21.78 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.43   | 72.35  | 19.78 |      | 80.0  |         |
|           |                                                                     | Z | 4.90   | 69.72  | 18.12 |      | 80.0  |         |
| 10512-AAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 23.46  | 102.43 | 30.07 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 9.30   | 85.07  | 23.99 |      | 80.0  |         |
|           |                                                                     | Z | 5.82   | 75.95  | 20.00 |      | 80.0  |         |
| 10513-AAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.79   | 78.31  | 22.71 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.48   | 73.68  | 20.32 |      | 80.0  |         |
|           |                                                                     | Z | 4.79   | 70.44  | 18.38 |      | 80.0  |         |
| 10514-AAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.42   | 76.74  | 22.13 | 2.23 | 80.0  | ± 9.6 % |
|           |                                                                     | Y | 5.35   | 72.75  | 19.98 |      | 80.0  |         |
|           |                                                                     | Z | 4.77   | 69.90  | 18.21 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 1.48   | 76.11  | 24.47 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.13   | 67.50  | 18.41 |      | 150.0 |         |
|           |                                                                     | Z | 0.99   | 63.07  | 14.64 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 100.00 | 246.91 | 78.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 100.00 | 183.09 | 52.74 |      | 150.0 |         |
|           |                                                                     | Z | 0.59   | 69.21  | 16.82 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 11.38  | 132.74 | 44.29 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 1.25   | 75.59  | 22.19 |      | 150.0 |         |
|           |                                                                     | Z | 0.83   | 64.81  | 15.20 |      | 150.0 |         |
| 10518-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.72   | 68.53  | 17.95 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.61   | 67.57  | 17.02 |      | 150.0 |         |
|           |                                                                     | Z | 4.52   | 66.71  | 16.20 |      | 150.0 |         |
| 10519-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 4.89   | 68.68  | 18.00 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.78   | 67.76  | 17.11 |      | 150.0 |         |
|           |                                                                     | Z | 4.70   | 66.93  | 16.31 |      | 150.0 |         |
| 10520-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 4.76   | 68.76  | 18.01 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.64   | 67.76  | 17.06 |      | 150.0 |         |
|           |                                                                     | Z | 4.55   | 66.89  | 16.23 |      | 150.0 |         |
| 10521-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.70   | 68.80  | 18.03 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.57   | 67.77  | 17.07 |      | 150.0 |         |
|           |                                                                     | Z | 4.49   | 66.88  | 16.22 |      | 150.0 |         |
| 10522-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.77   | 68.94  | 18.13 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                     | Y | 4.64   | 67.90  | 17.16 |      | 150.0 |         |
|           |                                                                     | Z | 4.55   | 66.99  | 16.31 |      | 150.0 |         |

|           |                                                            |   |      |       |       |      |       |         |
|-----------|------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10523-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.67 | 68.91 | 18.05 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.53 | 67.82 | 17.05 |      | 150.0 |         |
|           |                                                            | Z | 4.43 | 66.86 | 16.17 |      | 150.0 |         |
| 10524-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.71 | 68.87 | 18.12 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.58 | 67.82 | 17.14 |      | 150.0 |         |
|           |                                                            | Z | 4.49 | 66.90 | 16.28 |      | 150.0 |         |
| 10525-AAA | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.73 | 67.91 | 17.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.59 | 66.89 | 16.74 |      | 150.0 |         |
|           |                                                            | Z | 4.49 | 65.96 | 15.88 |      | 150.0 |         |
| 10526-AAA | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 4.90 | 68.28 | 17.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.75 | 67.25 | 16.87 |      | 150.0 |         |
|           |                                                            | Z | 4.64 | 66.31 | 16.01 |      | 150.0 |         |
| 10527-AAA | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 4.83 | 68.32 | 17.81 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.68 | 67.24 | 16.83 |      | 150.0 |         |
|           |                                                            | Z | 4.57 | 66.27 | 15.96 |      | 150.0 |         |
| 10528-AAA | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 4.85 | 68.32 | 17.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.69 | 67.25 | 16.86 |      | 150.0 |         |
|           |                                                            | Z | 4.58 | 66.29 | 15.99 |      | 150.0 |         |
| 10529-AAA | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 4.85 | 68.32 | 17.83 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.69 | 67.25 | 16.86 |      | 150.0 |         |
|           |                                                            | Z | 4.58 | 66.29 | 15.99 |      | 150.0 |         |
| 10531-AAA | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 4.84 | 68.46 | 17.87 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.68 | 67.36 | 16.88 |      | 150.0 |         |
|           |                                                            | Z | 4.57 | 66.38 | 15.99 |      | 150.0 |         |
| 10532-AAA | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.71 | 68.37 | 17.85 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.55 | 67.24 | 16.83 |      | 150.0 |         |
|           |                                                            | Z | 4.43 | 66.23 | 15.93 |      | 150.0 |         |
| 10533-AAA | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 4.87 | 68.43 | 17.86 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 4.71 | 67.33 | 16.87 |      | 150.0 |         |
|           |                                                            | Z | 4.59 | 66.34 | 15.98 |      | 150.0 |         |
| 10534-AAA | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.34 | 67.88 | 17.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.22 | 67.11 | 16.78 |      | 150.0 |         |
|           |                                                            | Z | 5.12 | 66.38 | 16.05 |      | 150.0 |         |
| 10535-AAA | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.43 | 68.15 | 17.71 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.29 | 67.33 | 16.88 |      | 150.0 |         |
|           |                                                            | Z | 5.19 | 66.56 | 16.13 |      | 150.0 |         |
| 10536-AAA | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.31 | 68.19 | 17.72 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.17 | 67.32 | 16.87 |      | 150.0 |         |
|           |                                                            | Z | 5.06 | 66.51 | 16.09 |      | 150.0 |         |
| 10537-AAA | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.35 | 68.07 | 17.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.22 | 67.24 | 16.83 |      | 150.0 |         |
|           |                                                            | Z | 5.12 | 66.48 | 16.07 |      | 150.0 |         |
| 10538-AAA | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.42 | 68.00 | 17.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.29 | 67.21 | 16.85 |      | 150.0 |         |
|           |                                                            | Z | 5.20 | 66.49 | 16.12 |      | 150.0 |         |
| 10540-AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.35 | 68.03 | 17.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                            | Y | 5.23 | 67.23 | 16.88 |      | 150.0 |         |
|           |                                                            | Z | 5.14 | 66.50 | 16.14 |      | 150.0 |         |

|           |                                                     |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10541-AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)   | X | 5.32 | 67.85 | 17.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.20 | 67.10 | 16.80 |      | 150.0 |         |
|           |                                                     | Z | 5.11 | 66.38 | 16.07 |      | 150.0 |         |
| 10542-AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)   | X | 5.47 | 67.88 | 17.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.35 | 67.15 | 16.83 |      | 150.0 |         |
|           |                                                     | Z | 5.26 | 66.45 | 16.12 |      | 150.0 |         |
| 10543-AAA | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)   | X | 5.53 | 67.87 | 17.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.42 | 67.14 | 16.85 |      | 150.0 |         |
|           |                                                     | Z | 5.33 | 66.48 | 16.16 |      | 150.0 |         |
| 10544-AAA | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)   | X | 5.65 | 67.77 | 17.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.54 | 67.12 | 16.71 |      | 150.0 |         |
|           |                                                     | Z | 5.44 | 66.50 | 16.05 |      | 150.0 |         |
| 10545-AAA | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)   | X | 5.90 | 68.41 | 17.69 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.75 | 67.62 | 16.91 |      | 150.0 |         |
|           |                                                     | Z | 5.63 | 66.91 | 16.20 |      | 150.0 |         |
| 10546-AAA | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)   | X | 5.71 | 67.99 | 17.50 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.59 | 67.31 | 16.78 |      | 150.0 |         |
|           |                                                     | Z | 5.50 | 66.68 | 16.11 |      | 150.0 |         |
| 10547-AAA | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)   | X | 5.80 | 68.08 | 17.54 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.67 | 67.38 | 16.80 |      | 150.0 |         |
|           |                                                     | Z | 5.57 | 66.73 | 16.12 |      | 150.0 |         |
| 10548-AAA | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)   | X | 6.16 | 69.40 | 18.16 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.95 | 68.42 | 17.28 |      | 150.0 |         |
|           |                                                     | Z | 5.79 | 67.58 | 16.52 |      | 150.0 |         |
| 10550-AAA | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)   | X | 5.80 | 68.23 | 17.63 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.64 | 67.43 | 16.85 |      | 150.0 |         |
|           |                                                     | Z | 5.53 | 66.72 | 16.14 |      | 150.0 |         |
| 10551-AAA | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)   | X | 5.74 | 68.07 | 17.52 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.63 | 67.39 | 16.78 |      | 150.0 |         |
|           |                                                     | Z | 5.53 | 66.75 | 16.11 |      | 150.0 |         |
| 10552-AAA | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)   | X | 5.66 | 67.88 | 17.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.55 | 67.21 | 16.70 |      | 150.0 |         |
|           |                                                     | Z | 5.45 | 66.57 | 16.03 |      | 150.0 |         |
| 10553-AAA | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)   | X | 5.72 | 67.81 | 17.42 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.61 | 67.19 | 16.72 |      | 150.0 |         |
|           |                                                     | Z | 5.53 | 66.59 | 16.07 |      | 150.0 |         |
| 10554-AAA | IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 6.07 | 68.04 | 17.43 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 5.96 | 67.44 | 16.76 |      | 150.0 |         |
|           |                                                     | Z | 5.85 | 66.86 | 16.14 |      | 150.0 |         |
| 10555-AAA | IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 6.23 | 68.43 | 17.60 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 6.09 | 67.76 | 16.90 |      | 150.0 |         |
|           |                                                     | Z | 5.97 | 67.15 | 16.26 |      | 150.0 |         |
| 10556-AAA | IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 6.24 | 68.47 | 17.61 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 6.11 | 67.82 | 16.92 |      | 150.0 |         |
|           |                                                     | Z | 6.00 | 67.20 | 16.28 |      | 150.0 |         |
| 10557-AAA | IEEE 1602.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 6.19 | 68.30 | 17.55 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                     | Y | 6.06 | 67.67 | 16.87 |      | 150.0 |         |
|           |                                                     | Z | 5.96 | 67.09 | 16.25 |      | 150.0 |         |

|           |                                                                 |   |        |        |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10558-AAA | IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)             | X | 6.24   | 68.48  | 17.65 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.11   | 67.85  | 16.97 |      | 150.0 |         |
|           |                                                                 | Z | 6.00   | 67.25  | 16.34 |      | 150.0 |         |
| 10560-AAA | IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)             | X | 6.21   | 68.26  | 17.58 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.09   | 67.66  | 16.91 |      | 150.0 |         |
|           |                                                                 | Z | 6.00   | 67.10  | 16.30 |      | 150.0 |         |
| 10561-AAA | IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)             | X | 6.16   | 68.33  | 17.66 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.03   | 67.68  | 16.96 |      | 150.0 |         |
|           |                                                                 | Z | 5.92   | 67.08  | 16.33 |      | 150.0 |         |
| 10562-AAA | IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)             | X | 6.25   | 68.61  | 17.79 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.13   | 67.99  | 17.11 |      | 150.0 |         |
|           |                                                                 | Z | 6.03   | 67.41  | 16.49 |      | 150.0 |         |
| 10563-AAA | IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)             | X | 6.37   | 68.59  | 17.74 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 6.23   | 67.91  | 17.03 |      | 150.0 |         |
|           |                                                                 | Z | 6.18   | 67.48  | 16.49 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 5.01   | 68.31  | 17.91 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.92   | 67.50  | 17.08 |      | 150.0 |         |
|           |                                                                 | Z | 4.85   | 66.80  | 16.37 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.23   | 68.74  | 18.20 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.14   | 67.95  | 17.40 |      | 150.0 |         |
|           |                                                                 | Z | 5.07   | 67.23  | 16.69 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 5.08   | 68.65  | 18.07 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.98   | 67.81  | 17.24 |      | 150.0 |         |
|           |                                                                 | Z | 4.91   | 67.08  | 16.51 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 5.13   | 69.16  | 18.51 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.03   | 68.31  | 17.67 |      | 150.0 |         |
|           |                                                                 | Z | 4.94   | 67.47  | 16.86 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 4.99   | 68.45  | 17.86 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 4.88   | 67.57  | 16.99 |      | 150.0 |         |
|           |                                                                 | Z | 4.83   | 66.87  | 16.29 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 5.12   | 69.43  | 18.67 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.01   | 68.53  | 17.81 |      | 150.0 |         |
|           |                                                                 | Z | 4.91   | 67.59  | 16.94 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 5.12   | 69.15  | 18.53 | 0.46 | 150.0 | ± 9.6 % |
|           |                                                                 | Y | 5.02   | 68.28  | 17.67 |      | 150.0 |         |
|           |                                                                 | Z | 4.93   | 67.42  | 16.86 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 2.12   | 80.35  | 25.96 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.47   | 70.03  | 19.69 |      | 130.0 |         |
|           |                                                                 | Z | 1.25   | 65.09  | 15.93 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 2.41   | 83.87  | 27.53 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 1.54   | 71.43  | 20.45 |      | 130.0 |         |
|           |                                                                 | Z | 1.27   | 65.70  | 16.30 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 100.00 | 200.22 | 61.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 100.00 | 167.96 | 47.88 |      | 130.0 |         |
|           |                                                                 | Z | 2.88   | 89.70  | 24.61 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 100.00 | 177.46 | 54.62 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 3.82   | 94.91  | 30.09 |      | 130.0 |         |
|           |                                                                 | Z | 1.44   | 71.86  | 19.35 |      | 130.0 |         |

|           |                                                                 |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 4.81 | 68.23 | 18.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.72 | 67.39 | 17.21 |      | 130.0 |         |
|           |                                                                 | Z | 4.66 | 66.65 | 16.46 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 4.86 | 68.49 | 18.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.75 | 67.62 | 17.31 |      | 130.0 |         |
|           |                                                                 | Z | 4.68 | 66.82 | 16.53 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 5.04 | 68.70 | 18.28 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.94 | 67.86 | 17.45 |      | 130.0 |         |
|           |                                                                 | Z | 4.87 | 67.09 | 16.69 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 4.96 | 69.01 | 18.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.86 | 68.12 | 17.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.78 | 67.25 | 16.80 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.70 | 68.18 | 17.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.59 | 67.25 | 16.83 |      | 130.0 |         |
|           |                                                                 | Z | 4.54 | 66.53 | 16.11 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 4.75 | 68.25 | 17.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.64 | 67.30 | 16.85 |      | 130.0 |         |
|           |                                                                 | Z | 4.59 | 66.58 | 16.14 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 4.90 | 69.24 | 18.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.77 | 68.24 | 17.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.68 | 67.30 | 16.75 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.63 | 67.92 | 17.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.52 | 66.96 | 16.58 |      | 130.0 |         |
|           |                                                                 | Z | 4.48 | 66.29 | 15.90 |      | 130.0 |         |
| 10583-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 4.81 | 68.23 | 18.06 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.72 | 67.39 | 17.21 |      | 130.0 |         |
|           |                                                                 | Z | 4.66 | 66.65 | 16.46 |      | 130.0 |         |
| 10584-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 4.86 | 68.49 | 18.17 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.75 | 67.62 | 17.31 |      | 130.0 |         |
|           |                                                                 | Z | 4.68 | 66.82 | 16.53 |      | 130.0 |         |
| 10585-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 5.04 | 68.70 | 18.28 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.94 | 67.86 | 17.45 |      | 130.0 |         |
|           |                                                                 | Z | 4.87 | 67.09 | 16.69 |      | 130.0 |         |
| 10586-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 4.96 | 69.01 | 18.49 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.86 | 68.12 | 17.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.78 | 67.25 | 16.80 |      | 130.0 |         |
| 10587-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.70 | 68.18 | 17.74 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.59 | 67.25 | 16.83 |      | 130.0 |         |
|           |                                                                 | Z | 4.54 | 66.53 | 16.11 |      | 130.0 |         |
| 10588-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 4.75 | 68.25 | 17.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.64 | 67.30 | 16.85 |      | 130.0 |         |
|           |                                                                 | Z | 4.59 | 66.58 | 16.14 |      | 130.0 |         |
| 10589-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 4.90 | 69.24 | 18.55 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.77 | 68.24 | 17.62 |      | 130.0 |         |
|           |                                                                 | Z | 4.68 | 67.30 | 16.75 |      | 130.0 |         |
| 10590-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.63 | 67.92 | 17.51 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                                 | Y | 4.52 | 66.96 | 16.58 |      | 130.0 |         |
|           |                                                                 | Z | 4.48 | 66.29 | 15.90 |      | 130.0 |         |

|           |                                                       |   |      |       |       |      |       |         |
|-----------|-------------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10591-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 4.95 | 68.18 | 18.09 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.87 | 67.42 | 17.29 |      | 130.0 |         |
|           |                                                       | Z | 4.81 | 66.71 | 16.56 |      | 130.0 |         |
| 10592-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 5.10 | 68.54 | 18.23 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.01 | 67.76 | 17.42 |      | 130.0 |         |
|           |                                                       | Z | 4.95 | 67.03 | 16.69 |      | 130.0 |         |
| 10593-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 5.02 | 68.46 | 18.12 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.93 | 67.66 | 17.30 |      | 130.0 |         |
|           |                                                       | Z | 4.87 | 66.94 | 16.57 |      | 130.0 |         |
| 10594-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 5.09 | 68.65 | 18.29 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.99 | 67.86 | 17.47 |      | 130.0 |         |
|           |                                                       | Z | 4.93 | 67.11 | 16.73 |      | 130.0 |         |
| 10595-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 5.06 | 68.66 | 18.22 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.96 | 67.83 | 17.38 |      | 130.0 |         |
|           |                                                       | Z | 4.90 | 67.07 | 16.63 |      | 130.0 |         |
| 10596-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 5.00 | 68.69 | 18.25 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.90 | 67.83 | 17.39 |      | 130.0 |         |
|           |                                                       | Z | 4.83 | 67.06 | 16.63 |      | 130.0 |         |
| 10597-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 4.95 | 68.57 | 18.11 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.85 | 67.71 | 17.25 |      | 130.0 |         |
|           |                                                       | Z | 4.78 | 66.96 | 16.51 |      | 130.0 |         |
| 10598-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 4.95 | 68.89 | 18.43 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 4.84 | 68.02 | 17.57 |      | 130.0 |         |
|           |                                                       | Z | 4.77 | 67.19 | 16.77 |      | 130.0 |         |
| 10599-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.64 | 68.51 | 18.16 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.54 | 67.82 | 17.42 |      | 130.0 |         |
|           |                                                       | Z | 5.47 | 67.21 | 16.76 |      | 130.0 |         |
| 10600-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 5.86 | 69.27 | 18.50 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.70 | 68.34 | 17.65 |      | 130.0 |         |
|           |                                                       | Z | 5.60 | 67.63 | 16.94 |      | 130.0 |         |
| 10601-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.69 | 68.80 | 18.29 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.57 | 68.03 | 17.51 |      | 130.0 |         |
|           |                                                       | Z | 5.49 | 67.37 | 16.83 |      | 130.0 |         |
| 10602-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 5.83 | 68.98 | 18.29 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.69 | 68.15 | 17.48 |      | 130.0 |         |
|           |                                                       | Z | 5.60 | 67.44 | 16.79 |      | 130.0 |         |
| 10603-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 5.90 | 69.25 | 18.56 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.76 | 68.44 | 17.76 |      | 130.0 |         |
|           |                                                       | Z | 5.66 | 67.71 | 17.05 |      | 130.0 |         |
| 10604-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.75 | 68.84 | 18.34 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.62 | 68.03 | 17.55 |      | 130.0 |         |
|           |                                                       | Z | 5.50 | 67.27 | 16.82 |      | 130.0 |         |
| 10605-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.82 | 69.04 | 18.44 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.69 | 68.22 | 17.64 |      | 130.0 |         |
|           |                                                       | Z | 5.59 | 67.53 | 16.95 |      | 130.0 |         |
| 10606-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.50 | 68.13 | 17.85 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                       | Y | 5.38 | 67.38 | 17.07 |      | 130.0 |         |
|           |                                                       | Z | 5.33 | 66.84 | 16.46 |      | 130.0 |         |

|           |                                                   |   |      |       |       |      |       |         |
|-----------|---------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10607-AAA | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 4.85 | 67.78 | 17.87 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.74 | 66.88 | 17.00 |      | 130.0 |         |
|           |                                                   | Z | 4.65 | 66.03 | 16.19 |      | 130.0 |         |
| 10608-AAA | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 5.04 | 68.20 | 18.04 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.92 | 67.28 | 17.16 |      | 130.0 |         |
|           |                                                   | Z | 4.82 | 66.42 | 16.35 |      | 130.0 |         |
| 10609-AAA | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 4.93 | 68.09 | 17.90 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.81 | 67.13 | 17.00 |      | 130.0 |         |
|           |                                                   | Z | 4.71 | 66.27 | 16.19 |      | 130.0 |         |
| 10610-AAA | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 4.99 | 68.26 | 18.07 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.86 | 67.32 | 17.18 |      | 130.0 |         |
|           |                                                   | Z | 4.76 | 66.43 | 16.35 |      | 130.0 |         |
| 10611-AAA | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 4.90 | 68.06 | 17.93 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.77 | 67.11 | 17.02 |      | 130.0 |         |
|           |                                                   | Z | 4.68 | 66.23 | 16.20 |      | 130.0 |         |
| 10612-AAA | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 4.92 | 68.31 | 18.03 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.78 | 67.29 | 17.08 |      | 130.0 |         |
|           |                                                   | Z | 4.69 | 66.39 | 16.25 |      | 130.0 |         |
| 10613-AAA | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 4.90 | 68.08 | 17.84 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.77 | 67.10 | 16.92 |      | 130.0 |         |
|           |                                                   | Z | 4.69 | 66.25 | 16.12 |      | 130.0 |         |
| 10614-AAA | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 4.88 | 68.39 | 18.16 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.74 | 67.40 | 17.23 |      | 130.0 |         |
|           |                                                   | Z | 4.64 | 66.45 | 16.36 |      | 130.0 |         |
| 10615-AAA | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 4.89 | 67.86 | 17.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 4.76 | 66.89 | 16.76 |      | 130.0 |         |
|           |                                                   | Z | 4.68 | 66.07 | 15.98 |      | 130.0 |         |
| 10616-AAA | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.48 | 67.84 | 17.82 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.38 | 67.14 | 17.08 |      | 130.0 |         |
|           |                                                   | Z | 5.29 | 66.47 | 16.38 |      | 130.0 |         |
| 10617-AAA | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.59 | 68.18 | 17.96 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.46 | 67.39 | 17.17 |      | 130.0 |         |
|           |                                                   | Z | 5.36 | 66.66 | 16.44 |      | 130.0 |         |
| 10618-AAA | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.48 | 68.24 | 18.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.35 | 67.44 | 17.22 |      | 130.0 |         |
|           |                                                   | Z | 5.25 | 66.66 | 16.46 |      | 130.0 |         |
| 10619-AAA | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.47 | 67.93 | 17.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.35 | 67.16 | 17.00 |      | 130.0 |         |
|           |                                                   | Z | 5.26 | 66.46 | 16.29 |      | 130.0 |         |
| 10620-AAA | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.54 | 67.90 | 17.82 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.43 | 67.16 | 17.05 |      | 130.0 |         |
|           |                                                   | Z | 5.35 | 66.50 | 16.36 |      | 130.0 |         |
| 10621-AAA | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.55 | 68.03 | 18.01 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.45 | 67.35 | 17.27 |      | 130.0 |         |
|           |                                                   | Z | 5.35 | 66.63 | 16.55 |      | 130.0 |         |
| 10622-AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.59 | 68.32 | 18.15 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                   | Y | 5.47 | 67.55 | 17.36 |      | 130.0 |         |
|           |                                                   | Z | 5.36 | 66.79 | 16.62 |      | 130.0 |         |

|           |                                                     |   |      |       |       |      |       |         |
|-----------|-----------------------------------------------------|---|------|-------|-------|------|-------|---------|
| 10623-AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)   | X | 5.41 | 67.64 | 17.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.32 | 66.96 | 16.94 |      | 130.0 |         |
|           |                                                     | Z | 5.24 | 66.32 | 16.26 |      | 130.0 |         |
| 10624-AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)   | X | 5.61 | 67.83 | 17.82 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.51 | 67.16 | 17.09 |      | 130.0 |         |
|           |                                                     | Z | 5.43 | 66.51 | 16.42 |      | 130.0 |         |
| 10625-AAA | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)   | X | 5.88 | 68.52 | 18.21 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.81 | 67.94 | 17.53 |      | 130.0 |         |
|           |                                                     | Z | 5.75 | 67.37 | 16.89 |      | 130.0 |         |
| 10626-AAA | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)   | X | 5.77 | 67.69 | 17.64 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.68 | 67.11 | 16.97 |      | 130.0 |         |
|           |                                                     | Z | 5.59 | 66.53 | 16.33 |      | 130.0 |         |
| 10627-AAA | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)   | X | 6.11 | 68.59 | 18.04 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.96 | 67.81 | 17.28 |      | 130.0 |         |
|           |                                                     | Z | 5.83 | 67.09 | 16.57 |      | 130.0 |         |
| 10628-AAA | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)   | X | 5.80 | 67.77 | 17.57 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.70 | 67.15 | 16.88 |      | 130.0 |         |
|           |                                                     | Z | 5.62 | 66.60 | 16.27 |      | 130.0 |         |
| 10629-AAA | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)   | X | 5.90 | 67.93 | 17.64 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.78 | 67.25 | 16.92 |      | 130.0 |         |
|           |                                                     | Z | 5.69 | 66.65 | 16.28 |      | 130.0 |         |
| 10630-AAA | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)   | X | 6.54 | 70.03 | 18.67 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.26 | 68.89 | 17.73 |      | 130.0 |         |
|           |                                                     | Z | 6.08 | 68.03 | 16.98 |      | 130.0 |         |
| 10631-AAA | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)   | X | 6.26 | 69.32 | 18.52 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.12 | 68.61 | 17.80 |      | 130.0 |         |
|           |                                                     | Z | 6.00 | 67.88 | 17.09 |      | 130.0 |         |
| 10632-AAA | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)   | X | 6.08 | 68.70 | 18.24 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.93 | 67.92 | 17.48 |      | 130.0 |         |
|           |                                                     | Z | 5.80 | 67.15 | 16.75 |      | 130.0 |         |
| 10633-AAA | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)   | X | 5.86 | 67.95 | 17.70 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.76 | 67.35 | 17.02 |      | 130.0 |         |
|           |                                                     | Z | 5.68 | 66.77 | 16.38 |      | 130.0 |         |
| 10634-AAA | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)   | X | 5.84 | 67.97 | 17.77 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.75 | 67.39 | 17.10 |      | 130.0 |         |
|           |                                                     | Z | 5.66 | 66.79 | 16.45 |      | 130.0 |         |
| 10635-AAA | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)   | X | 5.68 | 67.14 | 17.08 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 5.59 | 66.56 | 16.40 |      | 130.0 |         |
|           |                                                     | Z | 5.54 | 66.13 | 15.86 |      | 130.0 |         |
| 10636-AAA | IEEE 1602.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 6.21 | 67.99 | 17.66 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.10 | 67.43 | 17.01 |      | 130.0 |         |
|           |                                                     | Z | 6.01 | 66.88 | 16.41 |      | 130.0 |         |
| 10637-AAA | IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.41 | 68.50 | 17.89 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.28 | 67.87 | 17.22 |      | 130.0 |         |
|           |                                                     | Z | 6.16 | 67.27 | 16.59 |      | 130.0 |         |
| 10638-AAA | IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.41 | 68.49 | 17.86 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                     | Y | 6.27 | 67.83 | 17.17 |      | 130.0 |         |
|           |                                                     | Z | 6.16 | 67.24 | 16.55 |      | 130.0 |         |

|           |                                                        |   |        |        |       |      |       |         |
|-----------|--------------------------------------------------------|---|--------|--------|-------|------|-------|---------|
| 10639-AAA | IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle)    | X | 6.34   | 68.29  | 17.80 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.23   | 67.72  | 17.16 |      | 130.0 |         |
|           |                                                        | Z | 6.13   | 67.18  | 16.57 |      | 130.0 |         |
| 10640-AAA | IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle)    | X | 6.35   | 68.32  | 17.76 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.23   | 67.72  | 17.10 |      | 130.0 |         |
|           |                                                        | Z | 6.14   | 67.18  | 16.51 |      | 130.0 |         |
| 10641-AAA | IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle)    | X | 6.43   | 68.34  | 17.79 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.30   | 67.69  | 17.10 |      | 130.0 |         |
|           |                                                        | Z | 6.19   | 67.12  | 16.50 |      | 130.0 |         |
| 10642-AAA | IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle)    | X | 6.43   | 68.47  | 18.02 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.32   | 67.91  | 17.39 |      | 130.0 |         |
|           |                                                        | Z | 6.22   | 67.35  | 16.78 |      | 130.0 |         |
| 10643-AAA | IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle)    | X | 6.29   | 68.24  | 17.81 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.16   | 67.60  | 17.13 |      | 130.0 |         |
|           |                                                        | Z | 6.06   | 67.04  | 16.52 |      | 130.0 |         |
| 10644-AAA | IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle)    | X | 6.39   | 68.54  | 17.98 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.28   | 67.97  | 17.33 |      | 130.0 |         |
|           |                                                        | Z | 6.20   | 67.47  | 16.76 |      | 130.0 |         |
| 10645-AAA | IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle)    | X | 6.63   | 68.89  | 18.11 | 0.46 | 130.0 | ± 9.6 % |
|           |                                                        | Y | 6.45   | 68.10  | 17.35 |      | 130.0 |         |
|           |                                                        | Z | 6.41   | 67.73  | 16.85 |      | 130.0 |         |
| 10646-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 100.00 | 157.07 | 52.72 | 9.30 | 60.0  | ± 9.6 % |
|           |                                                        | Y | 100.00 | 153.42 | 50.72 |      | 60.0  |         |
|           |                                                        | Z | 47.58  | 131.31 | 43.90 |      | 60.0  |         |
| 10647-AAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 100.00 | 158.72 | 53.46 | 9.30 | 60.0  | ± 9.6 % |
|           |                                                        | Y | 84.94  | 150.64 | 50.29 |      | 60.0  |         |
|           |                                                        | Z | 39.95  | 128.11 | 43.22 |      | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 100.00 | 146.61 | 38.18 | 0.00 | 150.0 | ± 9.6 % |
|           |                                                        | Y | 2.53   | 82.09  | 18.97 |      | 150.0 |         |
|           |                                                        | Z | 0.69   | 63.41  | 10.71 |      | 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.

