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Accreditation No.: **SCS 0108**

Client **UL CCS USA**

Certificate No: **EX3-3991\_May17**

## CALIBRATION CERTIFICATE

Object **EX3DV4 - SN:3991**

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: **May 30, 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  $(22 \pm 3)^{\circ}\text{C}$  and humidity  $< 70\%$ .

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID               | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|------------------|-----------------------------------|------------------------|
| Power meter NRP            | SN: 104778       | 04-Apr-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: May 31, 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), i.e., $\vartheta = 0$ is normal to probe axis |
| Connector Angle          | information used in DASY system to align probe sensor X to the robot coordinate system   |

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

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

### Methods Applied and Interpretation of Parameters:

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

# Probe EX3DV4

SN:3991

Manufactured: January 21, 2014  
Calibrated: May 30, 2017

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



# DASY/EASY - Parameters of Probe: EX3DV4 - SN:3991

## Basic Calibration Parameters

|   | Sensor X | Sensor Y | Sensor Z | Unc (k=2)     |
|---|----------|----------|----------|---------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.40     | 0.43     | 0.45     | $\pm 10.1 \%$ |
| DCP (mV) <sup>B</sup>                                     | 100.6    | 102.7    | 102.2    |               |

## Modulation Calibration Parameters

| UID | Communication System Name |   | A<br>dB | B<br>dB/ $\mu\text{V}$ | 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    | 131.5    | $\pm 3.5 \%$              |
|     |                           | Y | 0.0     | 0.0                    | 1.0 |         | 131.6    |                           |
|     |                           | Z | 0.0     | 0.0                    | 1.0 |         | 129.4    |                           |

Note: For details on UID parameters see Appendix.

## Sensor Model Parameters

|   | C1<br>fF | C2<br>fF | $\alpha$<br>$\text{V}^{-1}$ | T1<br>$\text{ms} \cdot \text{V}^{-2}$ | T2<br>$\text{ms} \cdot \text{V}^{-1}$ | T3<br>ms | T4<br>$\text{V}^{-2}$ | T5<br>$\text{V}^{-1}$ | T6    |
|---|----------|----------|-----------------------------|---------------------------------------|---------------------------------------|----------|-----------------------|-----------------------|-------|
| X | 74.33    | 553.2    | 36.06                       | 27.79                                 | 2.593                                 | 5.026    | 0.205                 | 0.785                 | 1.011 |
| Y | 58.73    | 433.6    | 35.15                       | 23.70                                 | 1.930                                 | 4.995    | 0.608                 | 0.567                 | 1.007 |
| Z | 42.54    | 311.0    | 34.66                       | 21.75                                 | 1.574                                 | 5.003    | 0.874                 | 0.355                 | 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:3991

### Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 41.9                               | 0.89                            | 10.55   | 10.55   | 10.55   | 0.49               | 0.89                    | ± 12.0 %  |
| 900                  | 41.5                               | 0.97                            | 9.93    | 9.93    | 9.93    | 0.51               | 0.83                    | ± 12.0 %  |
| 1750                 | 40.1                               | 1.37                            | 8.75    | 8.75    | 8.75    | 0.40               | 0.85                    | ± 12.0 %  |
| 1900                 | 40.0                               | 1.40                            | 8.46    | 8.46    | 8.46    | 0.30               | 0.85                    | ± 12.0 %  |
| 2300                 | 39.5                               | 1.67                            | 8.08    | 8.08    | 8.08    | 0.37               | 0.80                    | ± 12.0 %  |
| 2450                 | 39.2                               | 1.80                            | 7.68    | 7.68    | 7.68    | 0.32               | 0.85                    | ± 12.0 %  |
| 2600                 | 39.0                               | 1.96                            | 7.41    | 7.41    | 7.41    | 0.39               | 0.86                    | ± 12.0 %  |
| 5250                 | 35.9                               | 4.71                            | 5.46    | 5.46    | 5.46    | 0.35               | 1.80                    | ± 13.1 %  |
| 5600                 | 35.5                               | 5.07                            | 4.86    | 4.86    | 4.86    | 0.40               | 1.80                    | ± 13.1 %  |
| 5750                 | 35.4                               | 5.22                            | 5.07    | 5.07    | 5.07    | 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:3991

### Calibration Parameter Determined in Body Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-----------|
| 750                  | 55.5                               | 0.96                            | 10.28   | 10.28   | 10.28   | 0.31               | 1.09                    | ± 12.0 %  |
| 900                  | 55.0                               | 1.05                            | 9.97    | 9.97    | 9.97    | 0.45               | 0.80                    | ± 12.0 %  |
| 1750                 | 53.4                               | 1.49                            | 8.49    | 8.49    | 8.49    | 0.43               | 0.80                    | ± 12.0 %  |
| 1900                 | 53.3                               | 1.52                            | 8.21    | 8.21    | 8.21    | 0.36               | 0.80                    | ± 12.0 %  |
| 2300                 | 52.9                               | 1.81                            | 8.05    | 8.05    | 8.05    | 0.40               | 0.80                    | ± 12.0 %  |
| 2450                 | 52.7                               | 1.95                            | 7.95    | 7.95    | 7.95    | 0.37               | 0.83                    | ± 12.0 %  |
| 2600                 | 52.5                               | 2.16                            | 7.62    | 7.62    | 7.62    | 0.32               | 0.87                    | ± 12.0 %  |
| 5250                 | 48.9                               | 5.36                            | 4.88    | 4.88    | 4.88    | 0.40               | 1.90                    | ± 13.1 %  |
| 5600                 | 48.5                               | 5.77                            | 4.07    | 4.07    | 4.07    | 0.45               | 1.90                    | ± 13.1 %  |
| 5750                 | 48.3                               | 5.94                            | 4.36    | 4.36    | 4.36    | 0.45               | 1.90                    | ± 13.1 %  |

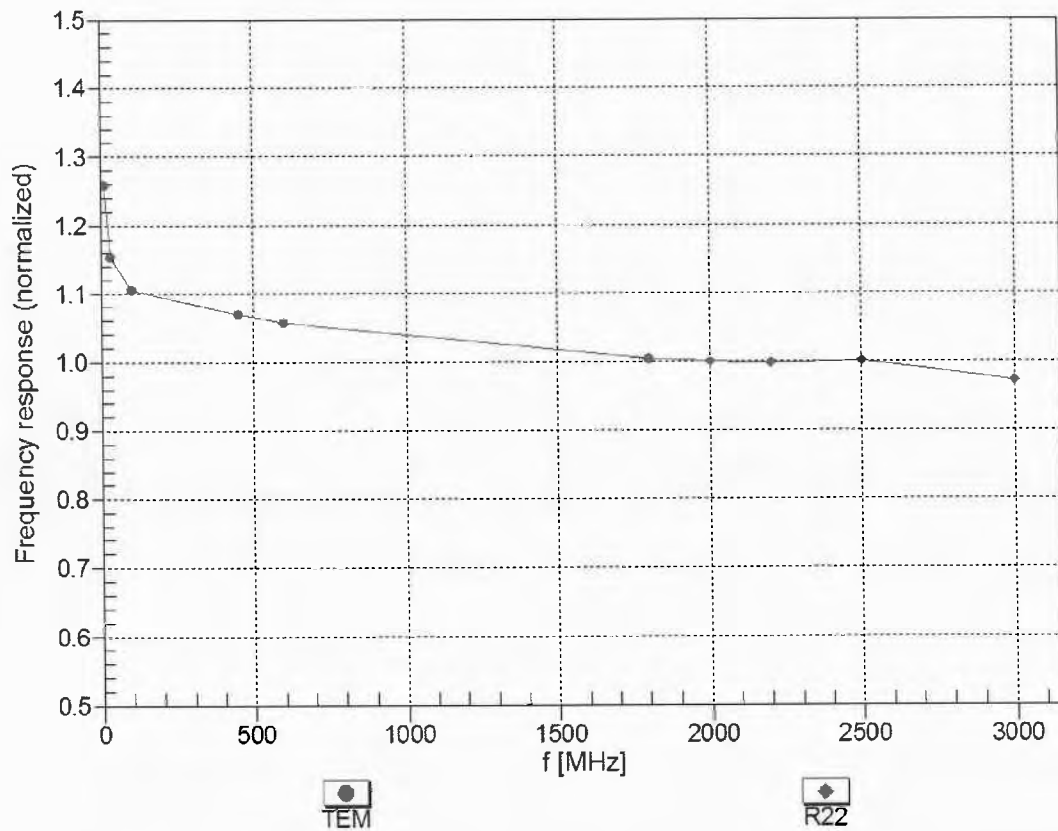
<sup>C</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below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

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

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

## Frequency Response of E-Field

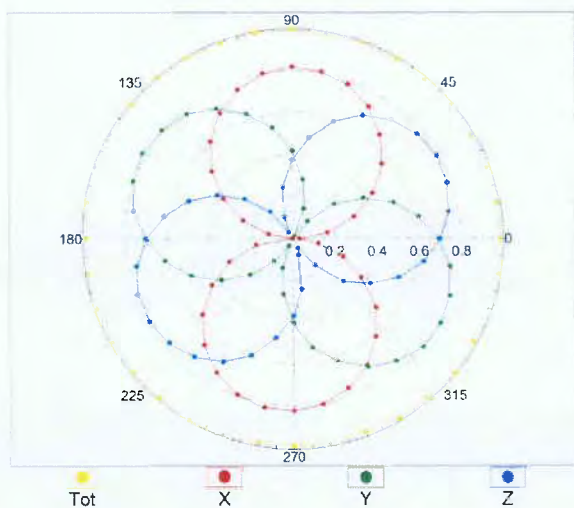
(TEM-Cell: ifi110 EXX, Waveguide: R22)



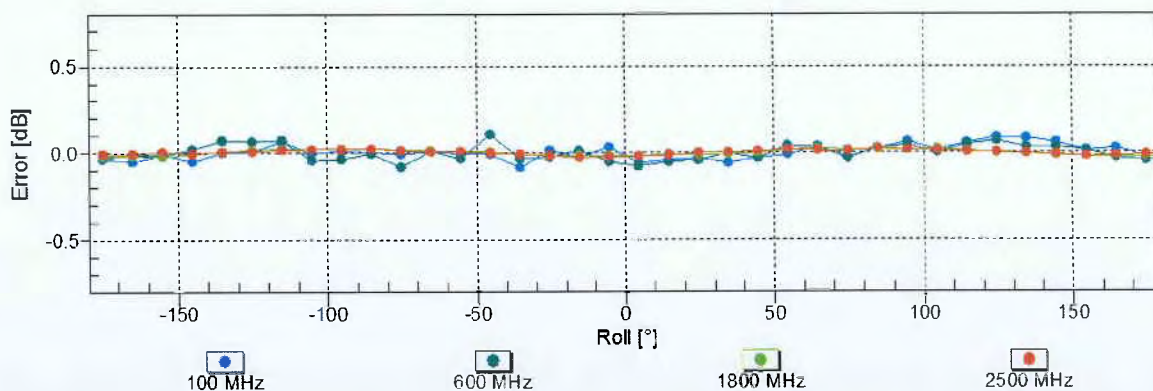
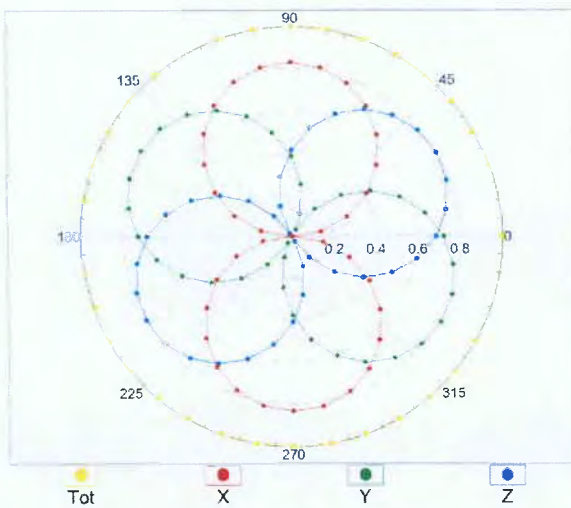
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

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

f=600 MHz, TEM



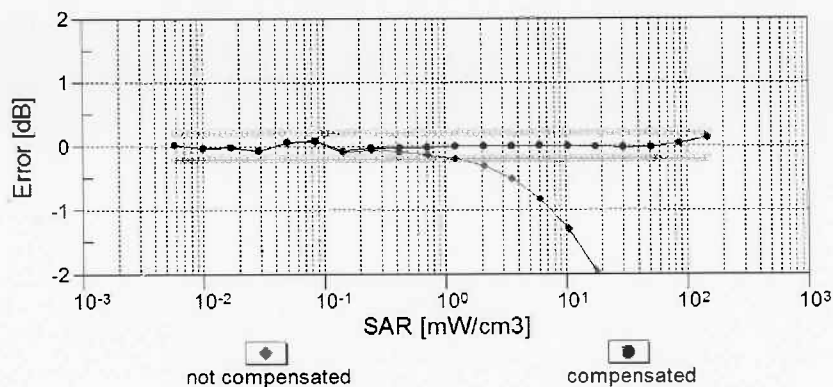
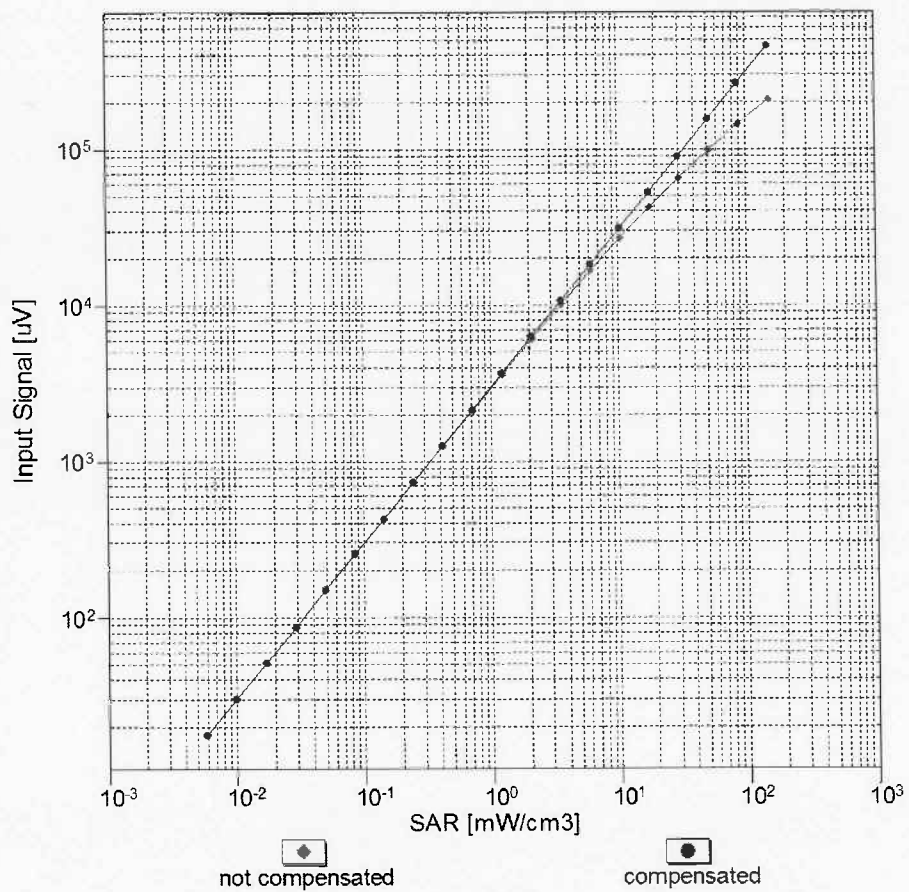
f=1800 MHz, R22



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

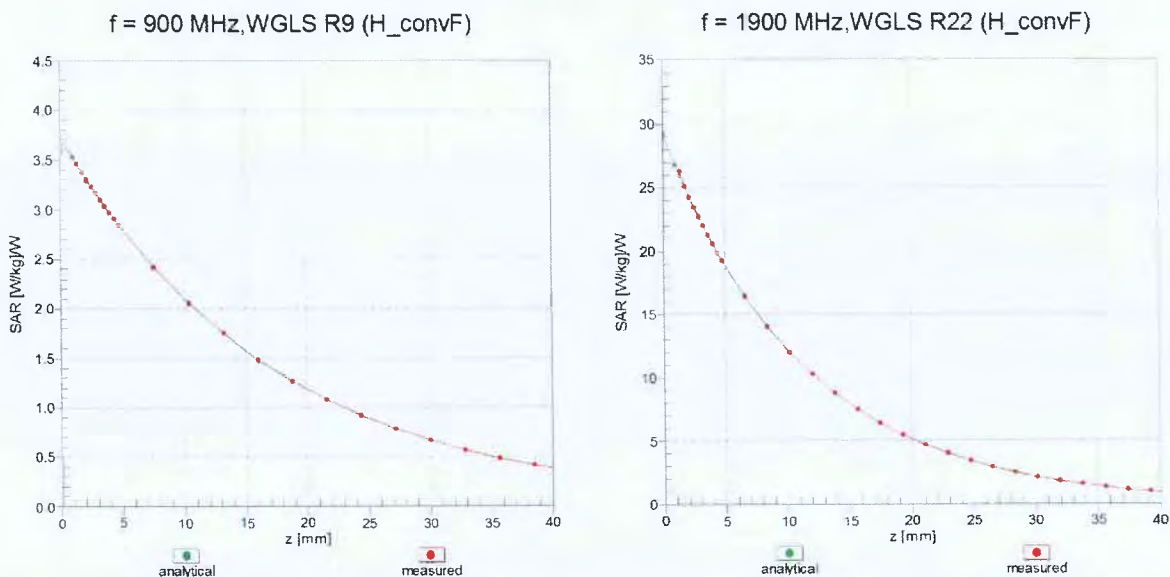


# Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell , $f_{\text{eval}} = 1900 \text{ MHz}$ )



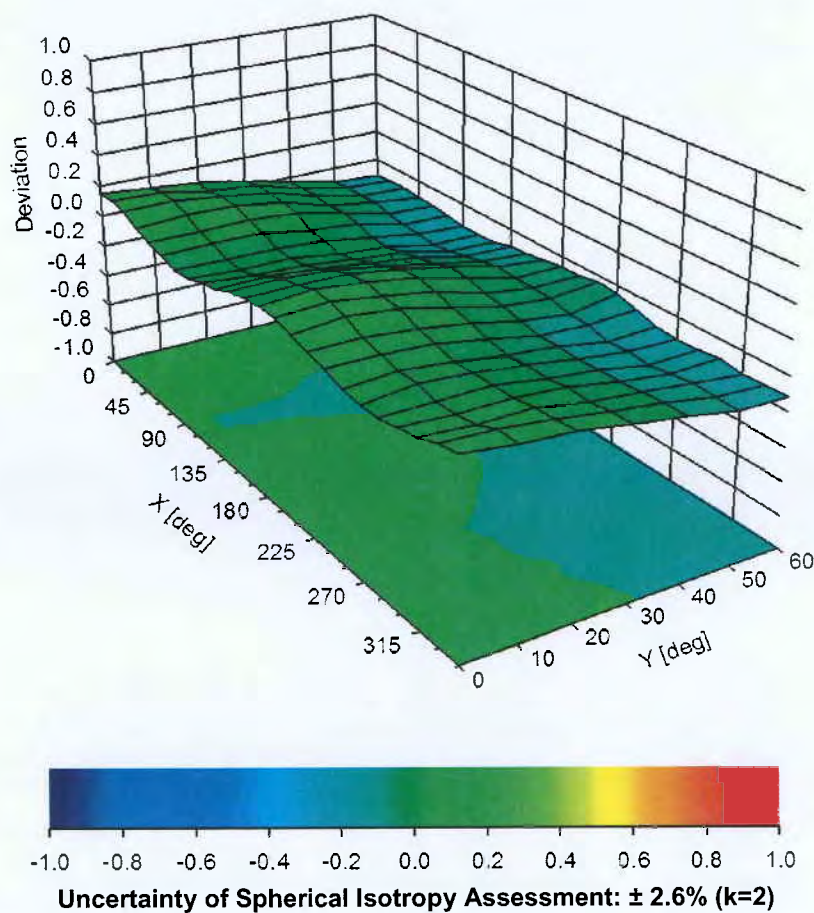
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

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



## DASY/EASY - Parameters of Probe: EX3DV4 - SN:3991

### Other Probe Parameters

|   |            |
|---|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | -5.4       |
| 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    | 131.5    | $\pm 3.5 \%$                     |
|               |   | Y | 0.00    | 0.00                   | 1.00  |         | 131.6    |                                  |
|               |   | Z | 0.00    | 0.00                   | 1.00  |         | 129.4    |                                  |
| 10010-<br>CAA | SAR Validation (Square, 100ms, 10ms)          | X | 8.86    | 80.13                  | 18.85 | 10.00   | 20.0     | $\pm 9.6 \%$                     |
|               |   | Y | 4.87    | 72.27                  | 14.84 |         | 20.0     |                                  |
|               |   | Z | 5.17    | 73.72                  | 15.17 |         | 20.0     |                                  |
| 10011-<br>CAB | UMTS-FDD (WCDMA)                              | X | 21.34   | 127.80                 | 38.24 | 0.00    | 150.0    | $\pm 9.6 \%$                     |
|               |   | Y | 1.51    | 74.56                  | 19.48 |         | 150.0    |                                  |
|               |   | Z | 2.26    | 83.24                  | 23.34 |         | 150.0    |                                  |
| 10012-<br>CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)      | X | 1.65    | 71.77                  | 21.09 | 0.41    | 150.0    | $\pm 9.6 \%$                     |
|               |   | Y | 1.33    | 66.35                  | 17.08 |         | 150.0    |                                  |
|               |   | Z | 1.39    | 67.83                  | 18.13 |         | 150.0    |                                  |
| 10013-<br>CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps) | X | 5.25    | 67.43                  | 17.95 | 1.46    | 150.0    | $\pm 9.6 \%$                     |
|               |   | Y | 5.04    | 66.91                  | 17.27 |         | 150.0    |                                  |
|               |   | Z | 4.92    | 67.38                  | 17.53 |         | 150.0    |                                  |
| 10021-<br>DAC | GSM-FDD (TDMA, GMSK)                          | X | 36.02   | 103.75                 | 28.10 | 9.39    | 50.0     | $\pm 9.6 \%$                     |
|               |   | Y | 19.93   | 93.16                  | 23.70 |         | 50.0     |                                  |
|               |   | Z | 84.51   | 114.10                 | 29.05 |         | 50.0     |                                  |
| 10023-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0)                   | X | 28.75   | 100.11                 | 27.12 | 9.57    | 50.0     | $\pm 9.6 \%$                     |
|               |   | Y | 16.47   | 90.29                  | 22.87 |         | 50.0     |                                  |
|               |   | Z | 44.26   | 104.84                 | 26.74 |         | 50.0     |                                  |
| 10024-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                 | X | 100.00  | 117.31                 | 29.82 | 6.56    | 60.0     | $\pm 9.6 \%$                     |
|               |   | Y | 100.00  | 112.97                 | 27.16 |         | 60.0     |                                  |
|               |   | Z | 100.00  | 113.48                 | 27.14 |         | 60.0     |                                  |
| 10025-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                   | X | 12.36   | 93.51                  | 35.24 | 12.57   | 50.0     | $\pm 9.6 \%$                     |
|               |   | Y | 5.81    | 73.79                  | 26.25 |         | 50.0     |                                  |
|               |   | Z | 9.92    | 91.39                  | 34.97 |         | 50.0     |                                  |
| 10026-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                 | X | 20.27   | 103.71                 | 35.59 | 9.56    | 60.0     | $\pm 9.6 \%$                     |
|               |   | Y | 13.53   | 94.87                  | 32.14 |         | 60.0     |                                  |
|               |   | Z | 16.26   | 102.09                 | 35.37 |         | 60.0     |                                  |
| 10027-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)               | X | 100.00  | 117.33                 | 28.93 | 4.80    | 80.0     | $\pm 9.6 \%$                     |
|               |   | Y | 100.00  | 111.88                 | 25.86 |         | 80.0     |                                  |
|               |   | Z | 100.00  | 113.29                 | 26.27 |         | 80.0     |                                  |
| 10028-<br>DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)             | X | 100.00  | 119.52                 | 29.12 | 3.55    | 100.0    | $\pm 9.6 \%$                     |
|               |   | Y | 100.00  | 112.35                 | 25.36 |         | 100.0    |                                  |
|               |   | Z | 100.00  | 115.04                 | 26.36 |         | 100.0    |                                  |
| 10029-<br>DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)               | X | 14.48   | 96.65                  | 32.27 | 7.80    | 80.0     | $\pm 9.6 \%$                     |
|               |   | Y | 9.49    | 87.70                  | 28.59 |         | 80.0     |                                  |
|               |   | Z | 9.93    | 90.95                  | 30.42 |         | 80.0     |                                  |
| 10030-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)           | X | 100.00  | 116.43                 | 28.86 | 5.30    | 70.0     | $\pm 9.6 \%$                     |
|               |   | Y | 100.00  | 111.28                 | 25.88 |         | 70.0     |                                  |
|               |   | Z | 100.00  | 111.88                 | 25.92 |         | 70.0     |                                  |
| 10031-<br>CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)           | X | 100.00  | 130.35                 | 32.22 | 1.88    | 100.0    | $\pm 9.6 \%$                     |
|               |   | Y | 100.00  | 114.66                 | 25.00 |         | 100.0    |                                  |
|               |   | Z | 100.00  | 120.29                 | 27.19 |         | 100.0    |                                  |



|           |   |   |        |        |          |       |       |         |
|-----------|---|---|--------|--------|----------|-------|-------|---------|
| 10032-CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | X | 100.00 | 158.49 | 42.58    | 1.17  | 100.0 | ± 9.6 % |
|           |   | Y | 100.00 | 124.33 | 28.01    |       | 100.0 |         |
|           |   | Z | 100.00 | 139.01 | 33.78    |       | 100.0 |         |
| 10033-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | X | 92.83  | 126.43 | 35.22    | 5.30  | 70.0  | ± 9.6 % |
|           |   | Y | 12.89  | 91.70  | 24.42    |       | 70.0  |         |
|           |   | Z | 23.61  | 100.57 | 26.49    |       | 70.0  |         |
| 10034-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | X | 100.00 | 133.83 | 36.49    | 1.88  | 100.0 | ± 9.6 % |
|           |   | Y | 8.03   | 89.52  | 22.95    |       | 100.0 |         |
|           |   | Z | 86.34  | 120.78 | 30.10    |       | 100.0 |         |
| 10035-CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | X | 100.00 | 137.31 | 37.54    | 1.17  | 100.0 | ± 9.6 % |
|           |   | Y | 5.32   | 85.65  | 21.74    |       | 100.0 |         |
|           |   | Z | 89.73  | 123.19 | 30.59    |       | 100.0 |         |
| 10036-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | X | 100.00 | 127.96 | 35.65    | 5.30  | 70.0  | ± 9.6 % |
|           |   | Y | 16.44  | 95.69  | 25.71    |       | 70.0  |         |
|           |   | Z | 35.70  | 106.98 | 28.29    |       | 70.0  |         |
| 10037-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | X | 100.00 | 133.73 | 36.40    | 1.88  | 100.0 | ± 9.6 % |
|           |   | Y | 7.42   | 88.41  | 22.55    |       | 100.0 |         |
|           |   | Z | 55.19  | 114.78 | 28.70    |       | 100.0 |         |
| 10038-CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | X | 100.00 | 137.99 | 37.84    | 1.17  | 100.0 | ± 9.6 % |
|           |   | Y | 5.63   | 86.80  | 22.23    |       | 100.0 |         |
|           |   | Z | 100.00 | 125.48 | 31.28    |       | 100.0 |         |
| 10039-CAB | CDMA2000 (1xRTT, RC1)                               | X | 100.00 | 141.43 | 39.10    | 0.00  | 150.0 | ± 9.6 % |
|           |   | Y | 5.69   | 89.46  | 23.44    |       | 150.0 |         |
|           |   | Z | 100.00 | 130.77 | 32.97    |       | 150.0 |         |
| 10042-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | X | 100.00 | 116.13 | 29.53    | 7.78  | 50.0  | ± 9.6 % |
|           |   | Y | 40.20  | 100.65 | 24.21    |       | 50.0  |         |
|           |   | Z | 100.00 | 112.18 | 26.78    |       | 50.0  |         |
| 10044-CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | X | 0.04   | 60.00  | 92877.06 | 0.00  | 150.0 | ± 9.6 % |
|           |   | Y | 0.00   | 107.96 | 1.49     |       | 150.0 |         |
|           |   | Z | 0.00   | 122.96 | 2.97     |       | 150.0 |         |
| 10048-CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | X | 11.49  | 83.21  | 23.41    | 13.80 | 25.0  | ± 9.6 % |
|           |   | Y | 9.04   | 79.73  | 21.06    |       | 25.0  |         |
|           |   | Z | 11.04  | 83.73  | 22.14    |       | 25.0  |         |
| 10049-CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | X | 14.94  | 89.10  | 24.13    | 10.79 | 40.0  | ± 9.6 % |
|           |   | Y | 10.80  | 83.62  | 21.07    |       | 40.0  |         |
|           |   | Z | 15.67  | 89.70  | 22.77    |       | 40.0  |         |
| 10056-CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | X | 15.06  | 90.58  | 25.70    | 9.03  | 50.0  | ± 9.6 % |
|           |   | Y | 10.65  | 84.41  | 22.56    |       | 50.0  |         |
|           |   | Z | 13.77  | 89.12  | 23.80    |       | 50.0  |         |
| 10058-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | X | 11.01  | 91.61  | 29.94    | 6.55  | 100.0 | ± 9.6 % |
|           |   | Y | 7.27   | 83.01  | 26.23    |       | 100.0 |         |
|           |   | Z | 7.22   | 84.72  | 27.45    |       | 100.0 |         |
| 10059-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | X | 2.08   | 76.45  | 23.04    | 0.61  | 110.0 | ± 9.6 % |
|           |   | Y | 1.48   | 68.40  | 17.98    |       | 110.0 |         |
|           |   | Z | 1.57   | 70.32  | 19.24    |       | 110.0 |         |
| 10060-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | X | 100.00 | 144.10 | 39.39    | 1.30  | 110.0 | ± 9.6 % |
|           |   | Y | 100.00 | 133.59 | 34.39    |       | 110.0 |         |
|           |   | Z | 100.00 | 138.99 | 36.64    |       | 110.0 |         |

|           |  |   |        |        |       |      |       |         |
|-----------|--|---|--------|--------|-------|------|-------|---------|
| 10061-CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)      | X | 100.00 | 140.72 | 39.82 | 2.04 | 110.0 | ± 9.6 % |
|           |  | Y | 8.81   | 95.24  | 26.62 |      | 110.0 |         |
|           |  | Z | 26.27  | 115.89 | 32.92 |      | 110.0 |         |
| 10062-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)       | X | 5.06   | 67.56  | 17.51 | 0.49 | 100.0 | ± 9.6 % |
|           |  | Y | 4.85   | 66.99  | 16.81 |      | 100.0 |         |
|           |  | Z | 4.71   | 67.42  | 17.05 |      | 100.0 |         |
| 10063-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)       | X | 5.10   | 67.71  | 17.63 | 0.72 | 100.0 | ± 9.6 % |
|           |  | Y | 4.87   | 67.10  | 16.91 |      | 100.0 |         |
|           |  | Z | 4.74   | 67.53  | 17.14 |      | 100.0 |         |
| 10064-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)      | X | 5.46   | 67.99  | 17.82 | 0.86 | 100.0 | ± 9.6 % |
|           |  | Y | 5.19   | 67.36  | 17.11 |      | 100.0 |         |
|           |  | Z | 5.00   | 67.70  | 17.31 |      | 100.0 |         |
| 10065-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)      | X | 5.32   | 67.95  | 17.93 | 1.21 | 100.0 | ± 9.6 % |
|           |  | Y | 5.06   | 67.29  | 17.19 |      | 100.0 |         |
|           |  | Z | 4.88   | 67.62  | 17.40 |      | 100.0 |         |
| 10066-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)      | X | 5.36   | 68.01  | 18.10 | 1.46 | 100.0 | ± 9.6 % |
|           |  | Y | 5.09   | 67.32  | 17.34 |      | 100.0 |         |
|           |  | Z | 4.91   | 67.65  | 17.55 |      | 100.0 |         |
| 10067-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)      | X | 5.64   | 67.92  | 18.39 | 2.04 | 100.0 | ± 9.6 % |
|           |  | Y | 5.36   | 67.33  | 17.68 |      | 100.0 |         |
|           |  | Z | 5.20   | 67.81  | 17.95 |      | 100.0 |         |
| 10068-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)      | X | 5.77   | 68.28  | 18.72 | 2.55 | 100.0 | ± 9.6 % |
|           |  | Y | 5.46   | 67.55  | 17.94 |      | 100.0 |         |
|           |  | Z | 5.26   | 67.84  | 18.14 |      | 100.0 |         |
| 10069-CAB | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)      | X | 5.82   | 68.03  | 18.80 | 2.67 | 100.0 | ± 9.6 % |
|           |  | Y | 5.53   | 67.45  | 18.08 |      | 100.0 |         |
|           |  | Z | 5.34   | 67.85  | 18.32 |      | 100.0 |         |
| 10071-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)  | X | 5.37   | 67.56  | 18.24 | 1.99 | 100.0 | ± 9.6 % |
|           |  | Y | 5.15   | 67.01  | 17.54 |      | 100.0 |         |
|           |  | Z | 5.03   | 67.48  | 17.81 |      | 100.0 |         |
| 10072-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) | X | 5.43   | 68.14  | 18.54 | 2.30 | 100.0 | ± 9.6 % |
|           |  | Y | 5.17   | 67.46  | 17.78 |      | 100.0 |         |
|           |  | Z | 5.04   | 67.88  | 18.05 |      | 100.0 |         |
| 10073-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps) | X | 5.53   | 68.37  | 18.87 | 2.83 | 100.0 | ± 9.6 % |
|           |  | Y | 5.26   | 67.65  | 18.08 |      | 100.0 |         |
|           |  | Z | 5.13   | 68.13  | 18.39 |      | 100.0 |         |
| 10074-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps) | X | 5.53   | 68.37  | 19.09 | 3.30 | 100.0 | ± 9.6 % |
|           |  | Y | 5.25   | 67.60  | 18.25 |      | 100.0 |         |
|           |  | Z | 5.15   | 68.11  | 18.55 |      | 100.0 |         |
| 10075-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps) | X | 5.68   | 68.86  | 19.55 | 3.82 | 90.0  | ± 9.6 % |
|           |  | Y | 5.35   | 67.90  | 18.62 |      | 90.0  |         |
|           |  | Z | 5.23   | 68.30  | 18.87 |      | 90.0  |         |
| 10076-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps) | X | 5.64   | 68.49  | 19.57 | 4.15 | 90.0  | ± 9.6 % |
|           |  | Y | 5.34   | 67.63  | 18.68 |      | 90.0  |         |
|           |  | Z | 5.26   | 68.15  | 19.01 |      | 90.0  |         |
| 10077-CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps) | X | 5.67   | 68.56  | 19.66 | 4.30 | 90.0  | ± 9.6 % |
|           |  | Y | 5.37   | 67.69  | 18.76 |      | 90.0  |         |
|           |  | Z | 5.30   | 68.26  | 19.12 |      | 90.0  |         |

|           |   |   |        |        |       |      |       |         |
|-----------|---|---|--------|--------|-------|------|-------|---------|
| 10081-CAB | CDMA2000 (1xRTT, RC3)                               | X | 100.00 | 151.18 | 41.86 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 1.79   | 77.34  | 19.01 |      | 150.0 |         |
|           |   | Z | 100.00 | 134.18 | 33.33 |      | 150.0 |         |
| 10082-CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | X | 1.87   | 63.06  | 8.21  | 4.77 | 80.0  | ± 9.6 % |
|           |   | Y | 1.31   | 60.74  | 6.26  |      | 80.0  |         |
|           |   | Z | 1.17   | 60.51  | 5.92  |      | 80.0  |         |
| 10090-DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | X | 100.00 | 117.37 | 29.87 | 6.56 | 60.0  | ± 9.6 % |
|           |   | Y | 100.00 | 113.01 | 27.20 |      | 60.0  |         |
|           |   | Z | 100.00 | 113.52 | 27.18 |      | 60.0  |         |
| 10097-CAB | UMTS-FDD (HSDPA)                                    | X | 3.13   | 78.57  | 22.34 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 2.17   | 70.87  | 17.90 |      | 150.0 |         |
|           |   | Z | 2.55   | 74.79  | 19.59 |      | 150.0 |         |
| 10098-CAB | UMTS-FDD (HSUPA, Subtest 2)                         | X | 3.12   | 78.88  | 22.47 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 2.13   | 70.87  | 17.89 |      | 150.0 |         |
|           |   | Z | 2.51   | 74.88  | 19.64 |      | 150.0 |         |
| 10099-DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | X | 20.18  | 103.55 | 35.53 | 9.56 | 60.0  | ± 9.6 % |
|           |   | Y | 13.53  | 94.82  | 32.12 |      | 60.0  |         |
|           |   | Z | 16.27  | 102.04 | 35.34 |      | 60.0  |         |
| 10100-CAC | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 5.83   | 81.52  | 22.21 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 3.80   | 73.69  | 18.47 |      | 150.0 |         |
|           |   | Z | 3.91   | 75.19  | 19.40 |      | 150.0 |         |
| 10101-CAC | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 4.05   | 71.65  | 18.67 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 3.53   | 68.99  | 16.90 |      | 150.0 |         |
|           |   | Z | 3.47   | 69.56  | 17.34 |      | 150.0 |         |
| 10102-CAC | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 4.09   | 71.20  | 18.57 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 3.62   | 68.86  | 16.96 |      | 150.0 |         |
|           |   | Z | 3.56   | 69.40  | 17.36 |      | 150.0 |         |
| 10103-CAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | X | 9.67   | 80.37  | 22.27 | 3.98 | 65.0  | ± 9.6 % |
|           |   | Y | 7.74   | 76.83  | 20.48 |      | 65.0  |         |
|           |   | Z | 8.13   | 78.96  | 21.57 |      | 65.0  |         |
| 10104-CAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | X | 8.89   | 77.70  | 22.13 | 3.98 | 65.0  | ± 9.6 % |
|           |   | Y | 7.72   | 75.42  | 20.77 |      | 65.0  |         |
|           |   | Z | 7.59   | 76.28  | 21.31 |      | 65.0  |         |
| 10105-CAC | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | X | 8.30   | 76.35  | 21.86 | 3.98 | 65.0  | ± 9.6 % |
|           |   | Y | 7.22   | 74.14  | 20.53 |      | 65.0  |         |
|           |   | Z | 7.22   | 75.26  | 21.17 |      | 65.0  |         |
| 10108-CAD | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | X | 4.98   | 80.22  | 22.01 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 3.32   | 72.80  | 18.32 |      | 150.0 |         |
|           |   | Z | 3.40   | 74.55  | 19.37 |      | 150.0 |         |
| 10109-CAD | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | X | 3.76   | 71.93  | 18.94 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 3.21   | 69.00  | 16.97 |      | 150.0 |         |
|           |   | Z | 3.16   | 69.89  | 17.50 |      | 150.0 |         |
| 10110-CAD | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | X | 4.14   | 79.61  | 22.12 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 2.72   | 71.92  | 18.10 |      | 150.0 |         |
|           |   | Z | 2.86   | 74.53  | 19.44 |      | 150.0 |         |
| 10111-CAD | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | X | 3.66   | 74.01  | 20.11 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 3.01   | 70.43  | 17.72 |      | 150.0 |         |
|           |   | Z | 3.12   | 72.54  | 18.61 |      | 150.0 |         |



|           |  |   |        |        |       |      |       |         |
|-----------|--|---|--------|--------|-------|------|-------|---------|
| 10112-CAD | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | X | 3.81   | 71.36  | 18.72 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.32   | 68.85  | 16.95 |      | 150.0 |         |
|           |  | Z | 3.27   | 69.74  | 17.46 |      | 150.0 |         |
| 10113-CAD | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | X | 3.75   | 73.41  | 19.88 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.16   | 70.38  | 17.75 |      | 150.0 |         |
|           |  | Z | 3.25   | 72.43  | 18.60 |      | 150.0 |         |
| 10114-CAB | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | X | 5.49   | 68.22  | 17.42 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.26   | 67.56  | 16.76 |      | 150.0 |         |
|           |  | Z | 5.16   | 67.88  | 17.00 |      | 150.0 |         |
| 10115-CAB | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | X | 5.92   | 68.58  | 17.56 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.62   | 67.82  | 16.88 |      | 150.0 |         |
|           |  | Z | 5.41   | 67.87  | 16.99 |      | 150.0 |         |
| 10116-CAB | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | X | 5.63   | 68.48  | 17.46 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.39   | 67.83  | 16.81 |      | 150.0 |         |
|           |  | Z | 5.25   | 68.06  | 17.02 |      | 150.0 |         |
| 10117-CAB | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | X | 5.49   | 68.21  | 17.43 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.27   | 67.56  | 16.78 |      | 150.0 |         |
|           |  | Z | 5.13   | 67.74  | 16.95 |      | 150.0 |         |
| 10118-CAB | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | X | 5.92   | 68.48  | 17.52 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.69   | 67.97  | 16.96 |      | 150.0 |         |
|           |  | Z | 5.49   | 68.06  | 17.09 |      | 150.0 |         |
| 10119-CAB | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | X | 5.59   | 68.40  | 17.44 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.36   | 67.76  | 16.79 |      | 150.0 |         |
|           |  | Z | 5.23   | 68.02  | 17.01 |      | 150.0 |         |
| 10140-CAC | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | X | 4.15   | 71.14  | 18.45 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.67   | 68.84  | 16.86 |      | 150.0 |         |
|           |  | Z | 3.59   | 69.40  | 17.26 |      | 150.0 |         |
| 10141-CAC | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | X | 4.22   | 70.89  | 18.44 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.78   | 68.85  | 16.98 |      | 150.0 |         |
|           |  | Z | 3.71   | 69.43  | 17.39 |      | 150.0 |         |
| 10142-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | X | 4.22   | 81.67  | 22.96 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 2.57   | 72.57  | 18.25 |      | 150.0 |         |
|           |  | Z | 2.95   | 76.88  | 20.03 |      | 150.0 |         |
| 10143-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | X | 4.01   | 77.07  | 21.18 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.06   | 72.21  | 18.11 |      | 150.0 |         |
|           |  | Z | 3.53   | 76.20  | 19.42 |      | 150.0 |         |
| 10144-CAD | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | X | 3.38   | 72.94  | 18.90 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 2.66   | 68.94  | 16.08 |      | 150.0 |         |
|           |  | Z | 2.72   | 70.93  | 16.54 |      | 150.0 |         |
| 10145-CAD | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | X | 10.26  | 100.28 | 28.32 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 2.24   | 73.70  | 17.21 |      | 150.0 |         |
|           |  | Z | 3.06   | 78.38  | 17.54 |      | 150.0 |         |
| 10146-CAD | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | X | 54.71  | 118.77 | 32.37 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.94   | 78.62  | 18.29 |      | 150.0 |         |
|           |  | Z | 3.67   | 74.51  | 15.00 |      | 150.0 |         |
| 10147-CAD | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | X | 100.00 | 129.42 | 35.22 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 10.27  | 89.04  | 22.03 |      | 150.0 |         |
|           |  | Z | 15.68  | 91.48  | 20.60 |      | 150.0 |         |



|           |  |   |       |       |       |      |       |         |
|-----------|--|---|-------|-------|-------|------|-------|---------|
| 10149-CAC | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 3.78  | 72.02 | 19.00 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.22  | 69.08 | 17.03 |      | 150.0 |         |
|           |  | Z | 3.17  | 69.98 | 17.56 |      | 150.0 |         |
| 10150-CAC | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 3.83  | 71.44 | 18.78 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.33  | 68.92 | 17.00 |      | 150.0 |         |
|           |  | Z | 3.28  | 69.81 | 17.52 |      | 150.0 |         |
| 10151-CAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)    | X | 10.21 | 82.59 | 23.28 | 3.98 | 65.0  | ± 9.6 % |
|           |  | Y | 8.26  | 79.16 | 21.48 |      | 65.0  |         |
|           |  | Z | 9.02  | 82.21 | 22.85 |      | 65.0  |         |
| 10152-CAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)  | X | 8.61  | 78.13 | 22.16 | 3.98 | 65.0  | ± 9.6 % |
|           |  | Y | 7.28  | 75.42 | 20.53 |      | 65.0  |         |
|           |  | Z | 7.20  | 76.49 | 21.05 |      | 65.0  |         |
| 10153-CAC | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)  | X | 8.95  | 78.80 | 22.79 | 3.98 | 65.0  | ± 9.6 % |
|           |  | Y | 7.70  | 76.38 | 21.30 |      | 65.0  |         |
|           |  | Z | 7.69  | 77.63 | 21.88 |      | 65.0  |         |
| 10154-CAD | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 4.47  | 81.16 | 22.82 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 2.84  | 72.77 | 18.56 |      | 150.0 |         |
|           |  | Z | 2.98  | 75.31 | 19.84 |      | 150.0 |         |
| 10155-CAD | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 3.65  | 73.96 | 20.10 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.01  | 70.42 | 17.72 |      | 150.0 |         |
|           |  | Z | 3.12  | 72.57 | 18.64 |      | 150.0 |         |
| 10156-CAD | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 4.84  | 85.53 | 24.41 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 2.53  | 73.71 | 18.63 |      | 150.0 |         |
|           |  | Z | 3.20  | 79.57 | 20.81 |      | 150.0 |         |
| 10157-CAD | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 3.65  | 76.22 | 20.31 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 2.62  | 70.49 | 16.69 |      | 150.0 |         |
|           |  | Z | 2.93  | 73.79 | 17.53 |      | 150.0 |         |
| 10158-CAD | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 3.76  | 73.49 | 19.93 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.17  | 70.46 | 17.81 |      | 150.0 |         |
|           |  | Z | 3.27  | 72.55 | 18.67 |      | 150.0 |         |
| 10159-CAD | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 3.88  | 76.95 | 20.69 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 2.81  | 71.29 | 17.13 |      | 150.0 |         |
|           |  | Z | 3.17  | 74.72 | 17.97 |      | 150.0 |         |
| 10160-CAC | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)    | X | 4.00  | 75.38 | 20.36 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.13  | 70.80 | 17.68 |      | 150.0 |         |
|           |  | Z | 3.20  | 72.53 | 18.64 |      | 150.0 |         |
| 10161-CAC | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 3.72  | 71.41 | 18.82 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.23  | 68.89 | 17.00 |      | 150.0 |         |
|           |  | Z | 3.19  | 69.95 | 17.53 |      | 150.0 |         |
| 10162-CAC | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 3.78  | 71.12 | 18.69 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.33  | 68.90 | 17.03 |      | 150.0 |         |
|           |  | Z | 3.31  | 70.06 | 17.61 |      | 150.0 |         |
| 10166-CAD | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 4.52  | 72.71 | 21.42 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 3.99  | 70.83 | 19.92 |      | 150.0 |         |
|           |  | Z | 3.76  | 71.75 | 20.62 |      | 150.0 |         |
| 10167-CAD | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 6.11  | 76.62 | 22.21 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 5.18  | 74.29 | 20.57 |      | 150.0 |         |
|           |  | Z | 4.95  | 76.10 | 21.58 |      | 150.0 |         |

|           |  |   |       |        |       |      |       |         |
|-----------|--|---|-------|--------|-------|------|-------|---------|
| 10168-CAD | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 6.80  | 79.03  | 23.53 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 5.88  | 77.06  | 22.11 |      | 150.0 |         |
|           |  | Z | 5.81  | 79.63  | 23.42 |      | 150.0 |         |
| 10169-CAC | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 4.79  | 77.19  | 23.33 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 3.64  | 72.19  | 20.52 |      | 150.0 |         |
|           |  | Z | 3.18  | 71.38  | 20.57 |      | 150.0 |         |
| 10170-CAC | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 8.81  | 87.87  | 26.95 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 5.94  | 80.92  | 23.77 |      | 150.0 |         |
|           |  | Z | 5.12  | 80.87  | 24.25 |      | 150.0 |         |
| 10171-AAC | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 6.42  | 80.70  | 23.33 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 4.42  | 74.55  | 20.20 |      | 150.0 |         |
|           |  | Z | 3.88  | 74.74  | 20.70 |      | 150.0 |         |
| 10172-CAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)      | X | 41.08 | 115.22 | 35.28 | 6.02 | 65.0  | ± 9.6 % |
|           |  | Y | 14.71 | 96.05  | 28.90 |      | 65.0  |         |
|           |  | Z | 19.33 | 105.54 | 32.62 |      | 65.0  |         |
| 10173-CAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)    | X | 39.08 | 108.88 | 31.86 | 6.02 | 65.0  | ± 9.6 % |
|           |  | Y | 21.53 | 98.36  | 27.89 |      | 65.0  |         |
|           |  | Z | 43.26 | 114.23 | 32.82 |      | 65.0  |         |
| 10174-CAC | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)    | X | 30.67 | 103.00 | 29.68 | 6.02 | 65.0  | ± 9.6 % |
|           |  | Y | 15.83 | 92.06  | 25.48 |      | 65.0  |         |
|           |  | Z | 27.32 | 104.68 | 29.62 |      | 65.0  |         |
| 10175-CAD | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)      | X | 4.68  | 76.56  | 22.96 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 3.57  | 71.70  | 20.19 |      | 150.0 |         |
|           |  | Z | 3.13  | 70.99  | 20.28 |      | 150.0 |         |
| 10176-CAD | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)    | X | 8.82  | 87.90  | 26.96 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 5.95  | 80.96  | 23.79 |      | 150.0 |         |
|           |  | Z | 5.13  | 80.90  | 24.27 |      | 150.0 |         |
| 10177-CAF | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)       | X | 4.75  | 76.89  | 23.13 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 3.62  | 71.96  | 20.33 |      | 150.0 |         |
|           |  | Z | 3.16  | 71.18  | 20.39 |      | 150.0 |         |
| 10178-CAD | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)     | X | 8.56  | 87.24  | 26.69 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 5.81  | 80.47  | 23.56 |      | 150.0 |         |
|           |  | Z | 5.06  | 80.60  | 24.12 |      | 150.0 |         |
| 10179-CAD | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)    | X | 7.46  | 83.98  | 24.95 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 5.07  | 77.42  | 21.78 |      | 150.0 |         |
|           |  | Z | 4.45  | 77.70  | 22.36 |      | 150.0 |         |
| 10180-CAD | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)     | X | 6.36  | 80.47  | 23.21 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 4.39  | 74.39  | 20.11 |      | 150.0 |         |
|           |  | Z | 3.86  | 74.64  | 20.65 |      | 150.0 |         |
| 10181-CAC | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 4.74  | 76.86  | 23.11 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 3.61  | 71.93  | 20.32 |      | 150.0 |         |
|           |  | Z | 3.15  | 71.15  | 20.38 |      | 150.0 |         |
| 10182-CAC | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)    | X | 8.54  | 87.21  | 26.68 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 5.80  | 80.44  | 23.55 |      | 150.0 |         |
|           |  | Z | 5.05  | 80.56  | 24.11 |      | 150.0 |         |
| 10183-AAB | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 6.34  | 80.43  | 23.20 | 3.01 | 150.0 | ± 9.6 % |
|           |  | Y | 4.38  | 74.37  | 20.09 |      | 150.0 |         |
|           |  | Z | 3.86  | 74.61  | 20.63 |      | 150.0 |         |



|           |   |   |      |       |       |      |       |         |
|-----------|---|---|------|-------|-------|------|-------|---------|
| 10184-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)          | X | 4.76 | 76.92 | 23.15 | 3.01 | 150.0 | ± 9.6 % |
|           |   | Y | 3.62 | 71.99 | 20.35 |      | 150.0 |         |
|           |   | Z | 3.17 | 71.21 | 20.40 |      | 150.0 |         |
| 10185-CAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)        | X | 8.59 | 87.32 | 26.72 | 3.01 | 150.0 | ± 9.6 % |
|           |   | Y | 5.84 | 80.54 | 23.59 |      | 150.0 |         |
|           |   | Z | 5.08 | 80.66 | 24.16 |      | 150.0 |         |
| 10186-AAD | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)        | X | 6.38 | 80.53 | 23.24 | 3.01 | 150.0 | ± 9.6 % |
|           |   | Y | 4.41 | 74.45 | 20.13 |      | 150.0 |         |
|           |   | Z | 3.88 | 74.70 | 20.68 |      | 150.0 |         |
| 10187-CAD | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)        | X | 4.76 | 76.92 | 23.17 | 3.01 | 150.0 | ± 9.6 % |
|           |   | Y | 3.63 | 72.02 | 20.40 |      | 150.0 |         |
|           |   | Z | 3.18 | 71.28 | 20.48 |      | 150.0 |         |
| 10188-CAD | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)      | X | 9.16 | 88.72 | 27.33 | 3.01 | 150.0 | ± 9.6 % |
|           |   | Y | 6.17 | 81.72 | 24.16 |      | 150.0 |         |
|           |   | Z | 5.32 | 81.64 | 24.64 |      | 150.0 |         |
| 10189-AAD | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)      | X | 6.64 | 81.35 | 23.65 | 3.01 | 150.0 | ± 9.6 % |
|           |   | Y | 4.55 | 75.11 | 20.50 |      | 150.0 |         |
|           |   | Z | 4.00 | 75.30 | 21.02 |      | 150.0 |         |
| 10193-CAB | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)  | X | 4.91 | 67.63 | 17.29 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 4.70 | 67.05 | 16.58 |      | 150.0 |         |
|           |   | Z | 4.57 | 67.49 | 16.80 |      | 150.0 |         |
| 10194-CAB | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) | X | 5.14 | 68.06 | 17.39 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 4.89 | 67.41 | 16.69 |      | 150.0 |         |
|           |   | Z | 4.73 | 67.77 | 16.92 |      | 150.0 |         |
| 10195-CAB | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) | X | 5.18 | 68.03 | 17.37 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 4.93 | 67.42 | 16.70 |      | 150.0 |         |
|           |   | Z | 4.77 | 67.79 | 16.93 |      | 150.0 |         |
| 10196-CAB | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)       | X | 4.95 | 67.78 | 17.34 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 4.72 | 67.15 | 16.62 |      | 150.0 |         |
|           |   | Z | 4.57 | 67.53 | 16.81 |      | 150.0 |         |
| 10197-CAB | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)      | X | 5.16 | 68.07 | 17.39 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 4.91 | 67.43 | 16.70 |      | 150.0 |         |
|           |   | Z | 4.75 | 67.78 | 16.93 |      | 150.0 |         |
| 10198-CAB | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)      | X | 5.18 | 68.04 | 17.38 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 4.94 | 67.43 | 16.71 |      | 150.0 |         |
|           |   | Z | 4.77 | 67.80 | 16.94 |      | 150.0 |         |
| 10219-CAB | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)       | X | 4.91 | 67.84 | 17.34 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 4.67 | 67.18 | 16.59 |      | 150.0 |         |
|           |   | Z | 4.52 | 67.58 | 16.79 |      | 150.0 |         |
| 10220-CAB | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)    | X | 5.16 | 68.08 | 17.40 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 4.91 | 67.41 | 16.70 |      | 150.0 |         |
|           |   | Z | 4.74 | 67.74 | 16.91 |      | 150.0 |         |
| 10221-CAB | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)    | X | 5.19 | 67.96 | 17.36 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 4.94 | 67.36 | 16.69 |      | 150.0 |         |
|           |   | Z | 4.78 | 67.71 | 16.91 |      | 150.0 |         |
| 10222-CAB | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)        | X | 5.48 | 68.27 | 17.46 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.25 | 67.59 | 16.78 |      | 150.0 |         |
|           |   | Z | 5.10 | 67.75 | 16.95 |      | 150.0 |         |

|           |   |   |       |        |       |      |       |         |
|-----------|---|---|-------|--------|-------|------|-------|---------|
| 10223-CAB | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)  | X | 5.83  | 68.39  | 17.50 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.59  | 67.83  | 16.91 |      | 150.0 |         |
|           |   | Z | 5.40  | 67.93  | 17.04 |      | 150.0 |         |
| 10224-CAB | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM) | X | 5.56  | 68.45  | 17.46 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.30  | 67.70  | 16.76 |      | 150.0 |         |
|           |   | Z | 5.15  | 67.88  | 16.94 |      | 150.0 |         |
| 10225-CAB | UMTS-FDD (HSPA+)                          | X | 3.33  | 68.79  | 17.86 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 3.03  | 67.19  | 16.35 |      | 150.0 |         |
|           |   | Z | 2.98  | 68.24  | 16.68 |      | 150.0 |         |
| 10226-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)  | X | 41.75 | 110.24 | 32.33 | 6.02 | 65.0  | ± 9.6 % |
|           |   | Y | 23.26 | 99.84  | 28.42 |      | 65.0  |         |
|           |   | Z | 49.38 | 116.76 | 33.58 |      | 65.0  |         |
| 10227-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)  | X | 30.47 | 103.22 | 29.88 | 6.02 | 65.0  | ± 9.6 % |
|           |   | Y | 18.95 | 95.07  | 26.48 |      | 65.0  |         |
|           |   | Z | 39.04 | 110.68 | 31.30 |      | 65.0  |         |
| 10228-CAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)    | X | 50.13 | 119.93 | 36.73 | 6.02 | 65.0  | ± 9.6 % |
|           |   | Y | 19.63 | 101.81 | 30.76 |      | 65.0  |         |
|           |   | Z | 27.33 | 112.59 | 34.71 |      | 65.0  |         |
| 10229-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)    | X | 39.09 | 108.87 | 31.87 | 6.02 | 65.0  | ± 9.6 % |
|           |   | Y | 21.65 | 98.45  | 27.92 |      | 65.0  |         |
|           |   | Z | 43.53 | 114.33 | 32.86 |      | 65.0  |         |
| 10230-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)    | X | 28.90 | 102.17 | 29.50 | 6.02 | 65.0  | ± 9.6 % |
|           |   | Y | 17.82 | 93.95  | 26.06 |      | 65.0  |         |
|           |   | Z | 34.87 | 108.64 | 30.68 |      | 65.0  |         |
| 10231-CAB | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)      | X | 46.76 | 118.39 | 36.24 | 6.02 | 65.0  | ± 9.6 % |
|           |   | Y | 18.42 | 100.49 | 30.28 |      | 65.0  |         |
|           |   | Z | 25.03 | 110.72 | 34.10 |      | 65.0  |         |
| 10232-CAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)    | X | 39.12 | 108.89 | 31.87 | 6.02 | 65.0  | ± 9.6 % |
|           |   | Y | 21.63 | 98.45  | 27.92 |      | 65.0  |         |
|           |   | Z | 43.54 | 114.34 | 32.86 |      | 65.0  |         |
| 10233-CAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)    | X | 28.93 | 102.20 | 29.51 | 6.02 | 65.0  | ± 9.6 % |
|           |   | Y | 17.81 | 93.95  | 26.06 |      | 65.0  |         |
|           |   | Z | 34.83 | 108.63 | 30.68 |      | 65.0  |         |
| 10234-CAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)      | X | 43.31 | 116.65 | 35.66 | 6.02 | 65.0  | ± 9.6 % |
|           |   | Y | 17.32 | 99.15  | 29.76 |      | 65.0  |         |
|           |   | Z | 23.16 | 108.97 | 33.48 |      | 65.0  |         |
| 10235-CAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)   | X | 39.25 | 108.97 | 31.89 | 6.02 | 65.0  | ± 9.6 % |
|           |   | Y | 21.67 | 98.48  | 27.93 |      | 65.0  |         |
|           |   | Z | 43.75 | 114.44 | 32.89 |      | 65.0  |         |
| 10236-CAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)   | X | 29.19 | 102.34 | 29.55 | 6.02 | 65.0  | ± 9.6 % |
|           |   | Y | 17.94 | 94.05  | 26.09 |      | 65.0  |         |
|           |   | Z | 35.34 | 108.84 | 30.73 |      | 65.0  |         |
| 10237-CAC | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)     | X | 47.44 | 118.70 | 36.32 | 6.02 | 65.0  | ± 9.6 % |
|           |   | Y | 18.51 | 100.61 | 30.31 |      | 65.0  |         |
|           |   | Z | 25.25 | 110.93 | 34.16 |      | 65.0  |         |
| 10238-CAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)   | X | 39.18 | 108.93 | 31.88 | 6.02 | 65.0  | ± 9.6 % |
|           |   | Y | 21.61 | 98.44  | 27.91 |      | 65.0  |         |
|           |   | Z | 43.51 | 114.34 | 32.86 |      | 65.0  |         |



|           |  |   |       |        |       |      |      |         |
|-----------|--|---|-------|--------|-------|------|------|---------|
| 10239-CAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)    | X | 28.97 | 102.24 | 29.52 | 6.02 | 65.0 | ± 9.6 % |
|           |  | Y | 17.78 | 93.94  | 26.06 |      | 65.0 |         |
|           |  | Z | 34.75 | 108.61 | 30.67 |      | 65.0 |         |
| 10240-CAC | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)      | X | 47.25 | 118.63 | 36.30 | 6.02 | 65.0 | ± 9.6 % |
|           |  | Y | 18.45 | 100.56 | 30.30 |      | 65.0 |         |
|           |  | Z | 25.17 | 110.88 | 34.15 |      | 65.0 |         |
| 10241-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) | X | 12.34 | 85.88  | 27.43 | 6.98 | 65.0 | ± 9.6 % |
|           |  | Y | 10.27 | 82.87  | 25.59 |      | 65.0 |         |
|           |  | Z | 11.05 | 87.07  | 27.37 |      | 65.0 |         |
| 10242-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) | X | 11.03 | 83.32  | 26.32 | 6.98 | 65.0 | ± 9.6 % |
|           |  | Y | 9.15  | 80.45  | 24.54 |      | 65.0 |         |
|           |  | Z | 10.04 | 85.06  | 26.53 |      | 65.0 |         |
| 10243-CAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)   | X | 8.97  | 80.87  | 26.22 | 6.98 | 65.0 | ± 9.6 % |
|           |  | Y | 7.42  | 77.60  | 24.21 |      | 65.0 |         |
|           |  | Z | 7.75  | 81.00  | 25.91 |      | 65.0 |         |
| 10244-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)   | X | 12.01 | 85.37  | 23.81 | 3.98 | 65.0 | ± 9.6 % |
|           |  | Y | 8.08  | 78.28  | 19.85 |      | 65.0 |         |
|           |  | Z | 7.35  | 77.25  | 18.48 |      | 65.0 |         |
| 10245-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)   | X | 11.72 | 84.67  | 23.51 | 3.98 | 65.0 | ± 9.6 % |
|           |  | Y | 7.96  | 77.78  | 19.61 |      | 65.0 |         |
|           |  | Z | 7.03  | 76.35  | 18.07 |      | 65.0 |         |
| 10246-CAB | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)     | X | 13.74 | 90.58  | 25.35 | 3.98 | 65.0 | ± 9.6 % |
|           |  | Y | 7.89  | 80.92  | 20.86 |      | 65.0 |         |
|           |  | Z | 8.25  | 82.14  | 20.59 |      | 65.0 |         |
| 10247-CAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)   | X | 8.83  | 80.77  | 22.44 | 3.98 | 65.0 | ± 9.6 % |
|           |  | Y | 6.71  | 76.09  | 19.64 |      | 65.0 |         |
|           |  | Z | 6.46  | 76.26  | 19.06 |      | 65.0 |         |
| 10248-CAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)   | X | 8.68  | 79.91  | 22.09 | 3.98 | 65.0 | ± 9.6 % |
|           |  | Y | 6.68  | 75.53  | 19.40 |      | 65.0 |         |
|           |  | Z | 6.30  | 75.43  | 18.71 |      | 65.0 |         |
| 10249-CAC | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)     | X | 13.83 | 90.75  | 25.86 | 3.98 | 65.0 | ± 9.6 % |
|           |  | Y | 8.89  | 82.99  | 22.27 |      | 65.0 |         |
|           |  | Z | 10.88 | 87.32  | 23.42 |      | 65.0 |         |
| 10250-CAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)  | X | 9.28  | 81.48  | 23.69 | 3.98 | 65.0 | ± 9.6 % |
|           |  | Y | 7.61  | 78.12  | 21.72 |      | 65.0 |         |
|           |  | Z | 7.79  | 79.79  | 22.24 |      | 65.0 |         |
| 10251-CAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)  | X | 8.51  | 78.59  | 22.26 | 3.98 | 65.0 | ± 9.6 % |
|           |  | Y | 7.12  | 75.75  | 20.44 |      | 65.0 |         |
|           |  | Z | 7.09  | 76.93  | 20.75 |      | 65.0 |         |
| 10252-CAC | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)    | X | 11.85 | 87.21  | 25.09 | 3.98 | 65.0 | ± 9.6 % |
|           |  | Y | 8.81  | 82.14  | 22.63 |      | 65.0 |         |
|           |  | Z | 10.49 | 86.73  | 24.35 |      | 65.0 |         |
| 10253-CAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)  | X | 8.29  | 77.35  | 21.93 | 3.98 | 65.0 | ± 9.6 % |
|           |  | Y | 7.08  | 74.83  | 20.33 |      | 65.0 |         |
|           |  | Z | 7.04  | 75.95  | 20.78 |      | 65.0 |         |
| 10254-CAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)  | X | 8.66  | 78.05  | 22.52 | 3.98 | 65.0 | ± 9.6 % |
|           |  | Y | 7.49  | 75.74  | 21.03 |      | 65.0 |         |
|           |  | Z | 7.48  | 76.97  | 21.51 |      | 65.0 |         |

|           |   |   |       |       |       |      |      |         |
|-----------|---|---|-------|-------|-------|------|------|---------|
| 10255-CAC | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)     | X | 9.71  | 81.99 | 23.33 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 7.92  | 78.66 | 21.53 |      | 65.0 |         |
|           |   | Z | 8.60  | 81.62 | 22.82 |      | 65.0 |         |
| 10256-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) | X | 11.70 | 84.65 | 22.88 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 6.82  | 75.36 | 17.85 |      | 65.0 |         |
|           |   | Z | 5.22  | 71.78 | 15.15 |      | 65.0 |         |
| 10257-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) | X | 11.29 | 83.65 | 22.44 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 6.67  | 74.69 | 17.50 |      | 65.0 |         |
|           |   | Z | 4.98  | 70.84 | 14.65 |      | 65.0 |         |
| 10258-CAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)   | X | 13.04 | 89.38 | 24.49 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 6.53  | 77.66 | 19.00 |      | 65.0 |         |
|           |   | Z | 5.40  | 75.09 | 16.99 |      | 65.0 |         |
| 10259-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)   | X | 8.95  | 80.80 | 22.79 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 7.04  | 76.75 | 20.35 |      | 65.0 |         |
|           |   | Z | 7.00  | 77.64 | 20.24 |      | 65.0 |         |
| 10260-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)   | X | 8.91  | 80.40 | 22.65 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 7.07  | 76.51 | 20.27 |      | 65.0 |         |
|           |   | Z | 6.94  | 77.18 | 20.05 |      | 65.0 |         |
| 10261-CAB | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)     | X | 12.21 | 88.30 | 25.28 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 8.44  | 81.88 | 22.18 |      | 65.0 |         |
|           |   | Z | 10.01 | 85.98 | 23.44 |      | 65.0 |         |
| 10262-CAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)   | X | 9.27  | 81.45 | 23.66 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 7.59  | 78.06 | 21.68 |      | 65.0 |         |
|           |   | Z | 7.77  | 79.71 | 22.19 |      | 65.0 |         |
| 10263-CAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)   | X | 8.51  | 78.60 | 22.27 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 7.12  | 75.74 | 20.44 |      | 65.0 |         |
|           |   | Z | 7.08  | 76.90 | 20.74 |      | 65.0 |         |
| 10264-CAC | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)     | X | 11.76 | 87.04 | 25.01 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 8.73  | 81.95 | 22.54 |      | 65.0 |         |
|           |   | Z | 10.35 | 86.46 | 24.23 |      | 65.0 |         |
| 10265-CAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)  | X | 8.61  | 78.13 | 22.16 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 7.27  | 75.43 | 20.54 |      | 65.0 |         |
|           |   | Z | 7.20  | 76.50 | 21.05 |      | 65.0 |         |
| 10266-CAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)  | X | 8.95  | 78.79 | 22.78 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 7.69  | 76.37 | 21.29 |      | 65.0 |         |
|           |   | Z | 7.68  | 77.61 | 21.87 |      | 65.0 |         |
| 10267-CAC | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)    | X | 10.18 | 82.55 | 23.26 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 8.24  | 79.12 | 21.46 |      | 65.0 |         |
|           |   | Z | 9.00  | 82.16 | 22.83 |      | 65.0 |         |
| 10268-CAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)  | X | 8.89  | 77.17 | 22.06 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 7.83  | 75.19 | 20.81 |      | 65.0 |         |
|           |   | Z | 7.70  | 76.06 | 21.32 |      | 65.0 |         |
| 10269-CAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)  | X | 8.75  | 76.64 | 21.93 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 7.76  | 74.77 | 20.71 |      | 65.0 |         |
|           |   | Z | 7.64  | 75.60 | 21.19 |      | 65.0 |         |
| 10270-CAC | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)    | X | 9.19  | 78.98 | 22.01 | 3.98 | 65.0 | ± 9.6 % |
|           |   | Y | 7.89  | 76.63 | 20.64 |      | 65.0 |         |
|           |   | Z | 8.12  | 78.42 | 21.59 |      | 65.0 |         |

|           |  |   |        |        |       |      |       |         |
|-----------|--|---|--------|--------|-------|------|-------|---------|
| 10274-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                          | X | 3.12   | 69.88  | 18.18 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 2.79   | 67.70  | 16.35 |      | 150.0 |         |
|           |  | Z | 2.87   | 69.35  | 17.00 |      | 150.0 |         |
| 10275-CAB | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                           | X | 4.26   | 86.57  | 25.09 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 2.06   | 72.29  | 18.25 |      | 150.0 |         |
|           |  | Z | 2.47   | 76.82  | 20.34 |      | 150.0 |         |
| 10277-CAA | PHS (QPSK)   | X | 5.25   | 69.03  | 13.84 | 9.03 | 50.0  | ± 9.6 % |
|           |  | Y | 3.80   | 65.21  | 10.78 |      | 50.0  |         |
|           |  | Z | 3.19   | 63.75  | 9.29  |      | 50.0  |         |
| 10278-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.5)                                 | X | 11.02  | 83.65  | 22.39 | 9.03 | 50.0  | ± 9.6 % |
|           |  | Y | 6.75   | 75.37  | 17.93 |      | 50.0  |         |
|           |  | Z | 5.31   | 71.68  | 15.46 |      | 50.0  |         |
| 10279-CAA | PHS (QPSK, BW 884MHz, Rolloff 0.38)                                | X | 11.25  | 83.85  | 22.47 | 9.03 | 50.0  | ± 9.6 % |
|           |  | Y | 6.89   | 75.59  | 18.04 |      | 50.0  |         |
|           |  | Z | 5.41   | 71.88  | 15.58 |      | 50.0  |         |
| 10290-AAB | CDMA2000, RC1, SO55, Full Rate                                     | X | 58.58  | 130.95 | 36.30 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.10   | 79.89  | 19.83 |      | 150.0 |         |
|           |  | Z | 37.55  | 114.88 | 28.76 |      | 150.0 |         |
| 10291-AAB | CDMA2000, RC3, SO55, Full Rate                                     | X | 100.00 | 151.30 | 41.88 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 1.69   | 76.57  | 18.69 |      | 150.0 |         |
|           |  | Z | 69.37  | 129.01 | 32.20 |      | 150.0 |         |
| 10292-AAB | CDMA2000, RC3, SO32, Full Rate                                     | X | 100.00 | 157.56 | 44.57 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.93   | 97.60  | 26.39 |      | 150.0 |         |
|           |  | Z | 100.00 | 141.15 | 36.25 |      | 150.0 |         |
| 10293-AAB | CDMA2000, RC3, SO3, Full Rate                                      | X | 100.00 | 160.95 | 46.27 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 100.00 | 144.75 | 38.70 |      | 150.0 |         |
|           |  | Z | 100.00 | 146.22 | 38.62 |      | 150.0 |         |
| 10295-AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                              | X | 9.90   | 83.35  | 24.40 | 9.03 | 50.0  | ± 9.6 % |
|           |  | Y | 8.13   | 79.70  | 21.98 |      | 50.0  |         |
|           |  | Z | 10.28  | 83.84  | 22.81 |      | 50.0  |         |
| 10297-AAB | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                            | X | 5.04   | 80.47  | 22.13 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.35   | 72.96  | 18.41 |      | 150.0 |         |
|           |  | Z | 3.43   | 74.72  | 19.47 |      | 150.0 |         |
| 10298-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                             | X | 6.79   | 92.64  | 26.42 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 2.50   | 74.70  | 18.36 |      | 150.0 |         |
|           |  | Z | 3.98   | 83.12  | 20.74 |      | 150.0 |         |
| 10299-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                           | X | 15.70  | 98.83  | 27.63 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.12   | 79.07  | 19.29 |      | 150.0 |         |
|           |  | Z | 7.89   | 85.25  | 20.16 |      | 150.0 |         |
| 10300-AAC | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                           | X | 6.13   | 81.45  | 21.01 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 2.92   | 69.78  | 14.69 |      | 150.0 |         |
|           |  | Z | 2.33   | 68.21  | 12.81 |      | 150.0 |         |
| 10301-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)                 | X | 5.63   | 67.67  | 19.20 | 4.17 | 50.0  | ± 9.6 % |
|           |  | Y | 5.18   | 66.54  | 18.21 |      | 50.0  |         |
|           |  | Z | 5.18   | 67.90  | 18.78 |      | 50.0  |         |
| 10302-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols) | X | 6.07   | 68.02  | 19.74 | 4.96 | 50.0  | ± 9.6 % |
|           |  | Y | 5.60   | 66.83  | 18.72 |      | 50.0  |         |
|           |  | Z | 5.52   | 67.81  | 19.10 |      | 50.0  |         |



|           |   |   |       |       |       |       |       |         |
|-----------|---|---|-------|-------|-------|-------|-------|---------|
| 10303-AAA | IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)                 | X | 5.91  | 68.07 | 19.82 | 4.96  | 50.0  | ± 9.6 % |
|           |   | Y | 5.40  | 66.66 | 18.67 |       | 50.0  |         |
|           |   | Z | 5.30  | 67.63 | 19.02 |       | 50.0  |         |
| 10304-AAA | IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)                 | X | 5.61  | 67.62 | 19.16 | 4.17  | 50.0  | ± 9.6 % |
|           |   | Y | 5.15  | 66.39 | 18.11 |       | 50.0  |         |
|           |   | Z | 5.08  | 67.40 | 18.47 |       | 50.0  |         |
| 10305-AAA | IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)    | X | 6.64  | 75.37 | 24.50 | 6.02  | 35.0  | ± 9.6 % |
|           |   | Y | 5.47  | 71.20 | 21.75 |       | 35.0  |         |
|           |   | Z | 5.93  | 74.37 | 22.74 |       | 35.0  |         |
| 10306-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)    | X | 5.98  | 69.73 | 21.45 | 6.02  | 35.0  | ± 9.6 % |
|           |   | Y | 5.42  | 68.68 | 20.55 |       | 35.0  |         |
|           |   | Z | 5.51  | 70.57 | 21.19 |       | 35.0  |         |
| 10307-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)     | X | 6.26  | 72.18 | 22.78 | 6.02  | 35.0  | ± 9.6 % |
|           |   | Y | 5.44  | 69.33 | 20.74 |       | 35.0  |         |
|           |   | Z | 5.53  | 71.20 | 21.35 |       | 35.0  |         |
| 10308-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)                | X | 6.29  | 72.64 | 23.04 | 6.02  | 35.0  | ± 9.6 % |
|           |   | Y | 5.43  | 69.63 | 20.92 |       | 35.0  |         |
|           |   | Z | 5.59  | 71.73 | 21.64 |       | 35.0  |         |
| 10309-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols) | X | 6.09  | 70.02 | 21.60 | 6.02  | 35.0  | ± 9.6 % |
|           |   | Y | 5.51  | 68.97 | 20.71 |       | 35.0  |         |
|           |   | Z | 5.57  | 70.77 | 21.33 |       | 35.0  |         |
| 10310-AAA | IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)  | X | 5.96  | 69.91 | 21.46 | 6.02  | 35.0  | ± 9.6 % |
|           |   | Y | 5.41  | 68.90 | 20.59 |       | 35.0  |         |
|           |   | Z | 5.52  | 70.87 | 21.27 |       | 35.0  |         |
| 10311-AAB | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                            | X | 5.51  | 78.98 | 21.32 | 0.00  | 150.0 | ± 9.6 % |
|           |   | Y | 3.76  | 72.13 | 17.95 |       | 150.0 |         |
|           |   | Z | 3.82  | 73.46 | 18.79 |       | 150.0 |         |
| 10313-AAA | iDEN 1:3  | X | 9.95  | 83.08 | 20.39 | 6.99  | 70.0  | ± 9.6 % |
|           |   | Y | 5.29  | 74.46 | 16.62 |       | 70.0  |         |
|           |   | Z | 6.65  | 78.57 | 18.27 |       | 70.0  |         |
| 10314-AAA | iDEN 1:6  | X | 17.47 | 94.61 | 26.56 | 10.00 | 30.0  | ± 9.6 % |
|           |   | Y | 7.67  | 82.03 | 21.97 |       | 30.0  |         |
|           |   | Z | 10.80 | 88.86 | 24.45 |       | 30.0  |         |
| 10315-AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)           | X | 1.51  | 72.05 | 21.47 | 0.17  | 150.0 | ± 9.6 % |
|           |   | Y | 1.22  | 66.33 | 17.19 |       | 150.0 |         |
|           |   | Z | 1.28  | 67.94 | 18.32 |       | 150.0 |         |
| 10316-AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)       | X | 4.98  | 67.65 | 17.35 | 0.17  | 150.0 | ± 9.6 % |
|           |   | Y | 4.75  | 67.03 | 16.63 |       | 150.0 |         |
|           |   | Z | 4.62  | 67.46 | 16.87 |       | 150.0 |         |
| 10317-AAB | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)             | X | 4.98  | 67.65 | 17.35 | 0.17  | 150.0 | ± 9.6 % |
|           |   | Y | 4.75  | 67.03 | 16.63 |       | 150.0 |         |
|           |   | Z | 4.62  | 67.46 | 16.87 |       | 150.0 |         |
| 10400-AAC | IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)                 | X | 5.17  | 68.10 | 17.37 | 0.00  | 150.0 | ± 9.6 % |
|           |   | Y | 4.90  | 67.44 | 16.67 |       | 150.0 |         |
|           |   | Z | 4.72  | 67.81 | 16.91 |       | 150.0 |         |
| 10401-AAC | IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)                 | X | 5.70  | 67.82 | 17.20 | 0.00  | 150.0 | ± 9.6 % |
|           |   | Y | 5.51  | 67.39 | 16.66 |       | 150.0 |         |
|           |   | Z | 5.38  | 67.66 | 16.87 |       | 150.0 |         |



|           |  |   |        |        |       |      |       |         |
|-----------|--|---|--------|--------|-------|------|-------|---------|
| 10402-AAC | IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)                            | X | 6.05   | 68.56  | 17.39 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.82   | 67.96  | 16.79 |      | 150.0 |         |
|           |  | Z | 5.66   | 68.03  | 16.92 |      | 150.0 |         |
| 10403-AAB | CDMA2000 (1xEV-DO, Rev. 0)   | X | 58.58  | 130.95 | 36.30 | 0.00 | 115.0 | ± 9.6 % |
|           |  | Y | 3.10   | 79.89  | 19.83 |      | 115.0 |         |
|           |  | Z | 37.55  | 114.88 | 28.76 |      | 115.0 |         |
| 10404-AAB | CDMA2000 (1xEV-DO, Rev. A)   | X | 58.58  | 130.95 | 36.30 | 0.00 | 115.0 | ± 9.6 % |
|           |  | Y | 3.10   | 79.89  | 19.83 |      | 115.0 |         |
|           |  | Z | 37.55  | 114.88 | 28.76 |      | 115.0 |         |
| 10406-AAB | CDMA2000, RC3, SO32, SCH0, Full Rate   | X | 100.00 | 131.88 | 36.38 | 0.00 | 100.0 | ± 9.6 % |
|           |  | Y | 100.00 | 125.33 | 32.64 |      | 100.0 |         |
|           |  | Z | 100.00 | 125.60 | 32.04 |      | 100.0 |         |
| 10410-AAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                 | X | 100.00 | 122.45 | 32.12 | 3.23 | 80.0  | ± 9.6 % |
|           |  | Y | 100.00 | 118.04 | 29.27 |      | 80.0  |         |
|           |  | Z | 100.00 | 121.61 | 30.35 |      | 80.0  |         |
| 10415-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                      | X | 1.27   | 69.54  | 20.37 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 1.09   | 64.98  | 16.51 |      | 150.0 |         |
|           |  | Z | 1.14   | 66.47  | 17.60 |      | 150.0 |         |
| 10416-AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                  | X | 4.91   | 67.65  | 17.31 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.70   | 67.08  | 16.63 |      | 150.0 |         |
|           |  | Z | 4.57   | 67.51  | 16.87 |      | 150.0 |         |
| 10417-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                      | X | 4.91   | 67.65  | 17.31 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.70   | 67.08  | 16.63 |      | 150.0 |         |
|           |  | Z | 4.57   | 67.51  | 16.87 |      | 150.0 |         |
| 10418-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)  | X | 4.91   | 67.85  | 17.34 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.69   | 67.25  | 16.65 |      | 150.0 |         |
|           |  | Z | 4.57   | 67.73  | 16.93 |      | 150.0 |         |
| 10419-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble) | X | 4.93   | 67.78  | 17.34 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.71   | 67.19  | 16.65 |      | 150.0 |         |
|           |  | Z | 4.59   | 67.65  | 16.91 |      | 150.0 |         |
| 10422-AAA | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                   | X | 5.05   | 67.72  | 17.30 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.83   | 67.17  | 16.64 |      | 150.0 |         |
|           |  | Z | 4.69   | 67.59  | 16.89 |      | 150.0 |         |
| 10423-AAA | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                | X | 5.30   | 68.16  | 17.45 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.03   | 67.54  | 16.77 |      | 150.0 |         |
|           |  | Z | 4.84   | 67.89  | 16.99 |      | 150.0 |         |
| 10424-AAA | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                | X | 5.20   | 68.12  | 17.43 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.95   | 67.49  | 16.75 |      | 150.0 |         |
|           |  | Z | 4.77   | 67.86  | 16.98 |      | 150.0 |         |
| 10425-AAA | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                    | X | 5.74   | 68.31  | 17.44 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.50   | 67.70  | 16.82 |      | 150.0 |         |
|           |  | Z | 5.35   | 67.91  | 17.01 |      | 150.0 |         |
| 10426-AAA | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                  | X | 5.75   | 68.35  | 17.46 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.51   | 67.73  | 16.83 |      | 150.0 |         |
|           |  | Z | 5.36   | 67.98  | 17.04 |      | 150.0 |         |

|           |  |   |        |        |       |      |       |         |
|-----------|--|---|--------|--------|-------|------|-------|---------|
| 10427-AAA | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                 | X | 5.79   | 68.41  | 17.48 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.53   | 67.74  | 16.83 |      | 150.0 |         |
|           |  | Z | 5.36   | 67.91  | 17.00 |      | 150.0 |         |
| 10430-AAA | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                               | X | 5.04   | 72.99  | 20.32 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.73   | 72.40  | 19.46 |      | 150.0 |         |
|           |  | Z | 4.85   | 74.52  | 20.10 |      | 150.0 |         |
| 10431-AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                              | X | 4.76   | 68.57  | 17.65 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.45   | 67.79  | 16.79 |      | 150.0 |         |
|           |  | Z | 4.28   | 68.43  | 17.04 |      | 150.0 |         |
| 10432-AAA | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                              | X | 5.01   | 68.29  | 17.51 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.73   | 67.59  | 16.76 |      | 150.0 |         |
|           |  | Z | 4.56   | 68.05  | 17.00 |      | 150.0 |         |
| 10433-AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                              | X | 5.22   | 68.19  | 17.47 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.96   | 67.54  | 16.78 |      | 150.0 |         |
|           |  | Z | 4.79   | 67.89  | 17.00 |      | 150.0 |         |
| 10434-AAA | W-CDMA (BS Test Model 1, 64 DPCH)                              | X | 5.29   | 74.21  | 20.60 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.97   | 73.66  | 19.67 |      | 150.0 |         |
|           |  | Z | 5.30   | 76.52  | 20.46 |      | 150.0 |         |
| 10435-AAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) | X | 100.00 | 122.27 | 32.03 | 3.23 | 80.0  | ± 9.6 % |
|           |  | Y | 100.00 | 117.83 | 29.17 |      | 80.0  |         |
|           |  | Z | 100.00 | 121.33 | 30.22 |      | 80.0  |         |
| 10447-AAA | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                 | X | 4.20   | 69.41  | 17.77 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.81   | 68.17  | 16.50 |      | 150.0 |         |
|           |  | Z | 3.68   | 69.17  | 16.66 |      | 150.0 |         |
| 10448-AAA | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                | X | 4.56   | 68.41  | 17.56 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.28   | 67.58  | 16.66 |      | 150.0 |         |
|           |  | Z | 4.13   | 68.24  | 16.93 |      | 150.0 |         |
| 10449-AAA | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                | X | 4.78   | 68.20  | 17.48 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.52   | 67.45  | 16.68 |      | 150.0 |         |
|           |  | Z | 4.38   | 67.93  | 16.93 |      | 150.0 |         |
| 10450-AAA | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                | X | 4.93   | 68.03  | 17.40 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.70   | 67.33  | 16.66 |      | 150.0 |         |
|           |  | Z | 4.57   | 67.72  | 16.89 |      | 150.0 |         |
| 10451-AAA | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                | X | 4.25   | 70.15  | 17.82 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.78   | 68.63  | 16.33 |      | 150.0 |         |
|           |  | Z | 3.62   | 69.63  | 16.35 |      | 150.0 |         |
| 10456-AAA | IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)           | X | 6.58   | 68.86  | 17.52 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 6.35   | 68.27  | 16.95 |      | 150.0 |         |
|           |  | Z | 6.24   | 68.40  | 17.10 |      | 150.0 |         |
| 10457-AAA | UMTS-FDD (DC-HSDPA)  | X | 4.01   | 66.33  | 17.16 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.88   | 65.71  | 16.38 |      | 150.0 |         |
|           |  | Z | 3.84   | 66.14  | 16.60 |      | 150.0 |         |
| 10458-AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                         | X | 3.92   | 68.74  | 17.12 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 3.56   | 67.73  | 15.74 |      | 150.0 |         |
|           |  | Z | 3.36   | 68.59  | 15.48 |      | 150.0 |         |
| 10459-AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                         | X | 4.91   | 65.83  | 16.95 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.59   | 65.42  | 16.16 |      | 150.0 |         |
|           |  | Z | 4.33   | 66.14  | 16.10 |      | 150.0 |         |



|           |   |   |        |        |       |      |       |         |
|-----------|---|---|--------|--------|-------|------|-------|---------|
| 10460-AAA | UMTS-FDD (WCDMA, AMR)   | X | 100.00 | 169.80 | 49.76 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 1.47   | 78.05  | 21.67 |      | 150.0 |         |
|           |   | Z | 2.81   | 91.89  | 27.33 |      | 150.0 |         |
| 10461-AAA | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 100.00 | 127.06 | 34.30 | 3.29 | 80.0  | ± 9.6 % |
|           |   | Y | 100.00 | 121.01 | 30.72 |      | 80.0  |         |
|           |   | Z | 100.00 | 127.48 | 33.06 |      | 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 | 113.19 | 27.72 | 3.23 | 80.0  | ± 9.6 % |
|           |   | Y | 11.13  | 82.67  | 17.64 |      | 80.0  |         |
|           |   | Z | 100.00 | 105.00 | 22.57 |      | 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 | 110.45 | 26.41 | 3.23 | 80.0  | ± 9.6 % |
|           |   | Y | 3.82   | 70.74  | 13.28 |      | 80.0  |         |
|           |   | Z | 3.71   | 71.81  | 13.09 |      | 80.0  |         |
| 10464-AAA | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 125.50 | 33.42 | 3.23 | 80.0  | ± 9.6 % |
|           |   | Y | 100.00 | 118.75 | 29.52 |      | 80.0  |         |
|           |   | Z | 100.00 | 124.88 | 31.69 |      | 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 | 112.72 | 27.48 | 3.23 | 80.0  | ± 9.6 % |
|           |   | Y | 6.99   | 77.71  | 16.06 |      | 80.0  |         |
|           |   | Z | 64.76  | 100.23 | 21.37 |      | 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 | 109.97 | 26.17 | 3.23 | 80.0  | ± 9.6 % |
|           |   | Y | 3.18   | 68.84  | 12.51 |      | 80.0  |         |
|           |   | Z | 2.65   | 68.68  | 11.92 |      | 80.0  |         |
| 10467-AAB | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 100.00 | 125.71 | 33.52 | 3.23 | 80.0  | ± 9.6 % |
|           |   | Y | 100.00 | 118.98 | 29.63 |      | 80.0  |         |
|           |   | Z | 100.00 | 125.21 | 31.84 |      | 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 | 112.86 | 27.54 | 3.23 | 80.0  | ± 9.6 % |
|           |   | Y | 7.69   | 78.75  | 16.40 |      | 80.0  |         |
|           |   | Z | 100.00 | 104.55 | 22.35 |      | 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 | 110.00 | 26.18 | 3.23 | 80.0  | ± 9.6 % |
|           |   | Y | 3.20   | 68.92  | 12.54 |      | 80.0  |         |
|           |   | Z | 2.70   | 68.85  | 11.99 |      | 80.0  |         |
| 10470-AAB | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 125.76 | 33.53 | 3.23 | 80.0  | ± 9.6 % |
|           |   | Y | 100.00 | 119.00 | 29.63 |      | 80.0  |         |
|           |   | Z | 100.00 | 125.24 | 31.85 |      | 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 | 112.82 | 27.52 | 3.23 | 80.0  | ± 9.6 % |
|           |   | Y | 7.61   | 78.62  | 16.34 |      | 80.0  |         |
|           |   | Z | 100.00 | 104.47 | 22.31 |      | 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 | 109.97 | 26.16 | 3.23 | 80.0  | ± 9.6 % |
|           |   | Y | 3.17   | 68.84  | 12.50 |      | 80.0  |         |
|           |   | Z | 2.66   | 68.71  | 11.92 |      | 80.0  |         |
| 10473-AAB | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 100.00 | 125.73 | 33.52 | 3.23 | 80.0  | ± 9.6 % |
|           |   | Y | 100.00 | 118.96 | 29.61 |      | 80.0  |         |
|           |   | Z | 100.00 | 125.21 | 31.83 |      | 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 | 112.83 | 27.53 | 3.23 | 80.0  | ± 9.6 % |
|           |   | Y | 7.52   | 78.51  | 16.31 |      | 80.0  |         |
|           |   | Z | 99.98  | 104.47 | 22.31 |      | 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 | 109.98 | 26.16 | 3.23 | 80.0  | ± 9.6 % |
|           |   | Y | 3.16   | 68.80  | 12.49 |      | 80.0  |         |
|           |   | Z | 2.64   | 68.66  | 11.90 |      | 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 | 112.69 | 27.46 | 3.23 | 80.0 | ± 9.6 % |
|           |   | Y | 6.98   | 77.69  | 16.03 |      | 80.0 |         |
|           |   | Z | 69.41  | 100.82 | 21.47 |      | 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 | 109.93 | 26.14 | 3.23 | 80.0 | ± 9.6 % |
|           |   | Y | 3.12   | 68.68  | 12.43 |      | 80.0 |         |
|           |   | Z | 2.58   | 68.44  | 11.81 |      | 80.0 |         |
| 10479-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 99.86  | 128.84 | 36.55 | 3.23 | 80.0 | ± 9.6 % |
|           |   | Y | 12.16  | 91.24  | 24.85 |      | 80.0 |         |
|           |   | Z | 100.00 | 124.60 | 33.14 |      | 80.0 |         |
| 10480-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 99.46  | 120.07 | 32.58 | 3.23 | 80.0 | ± 9.6 % |
|           |   | Y | 12.17  | 86.11  | 21.63 |      | 80.0 |         |
|           |   | Z | 100.00 | 113.29 | 27.78 |      | 80.0 |         |
| 10481-AAA | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 84.34  | 116.23 | 31.29 | 3.23 | 80.0 | ± 9.6 % |
|           |   | Y | 9.97   | 82.68  | 20.20 |      | 80.0 |         |
|           |   | Z | 54.70  | 103.84 | 25.00 |      | 80.0 |         |
| 10482-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 32.58  | 107.39 | 29.75 | 2.23 | 80.0 | ± 9.6 % |
|           |   | Y | 5.24   | 78.06  | 19.44 |      | 80.0 |         |
|           |   | Z | 9.64   | 86.91  | 21.60 |      | 80.0 |         |
| 10483-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 37.96  | 106.38 | 29.53 | 2.23 | 80.0 | ± 9.6 % |
|           |   | Y | 7.81   | 80.20  | 19.93 |      | 80.0 |         |
|           |   | Z | 12.01  | 85.58  | 20.51 |      | 80.0 |         |
| 10484-AAA | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 29.72  | 102.27 | 28.43 | 2.23 | 80.0 | ± 9.6 % |
|           |   | Y | 7.19   | 78.82  | 19.47 |      | 80.0 |         |
|           |   | Z | 9.24   | 82.07  | 19.42 |      | 80.0 |         |
| 10485-AAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 21.35  | 101.38 | 28.70 | 2.23 | 80.0 | ± 9.6 % |
|           |   | Y | 5.35   | 78.52  | 20.33 |      | 80.0 |         |
|           |   | Z | 9.05   | 87.68  | 23.17 |      | 80.0 |         |
| 10486-AAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 7.90   | 82.02  | 22.44 | 2.23 | 80.0 | ± 9.6 % |
|           |   | Y | 4.43   | 72.65  | 17.82 |      | 80.0 |         |
|           |   | Z | 5.21   | 75.99  | 18.50 |      | 80.0 |         |
| 10487-AAB | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 7.51   | 80.81  | 22.01 | 2.23 | 80.0 | ± 9.6 % |
|           |   | Y | 4.39   | 72.15  | 17.62 |      | 80.0 |         |
|           |   | Z | 4.96   | 74.95  | 18.08 |      | 80.0 |         |
| 10488-AAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 12.31  | 90.82  | 25.80 | 2.23 | 80.0 | ± 9.6 % |
|           |   | Y | 5.22   | 76.53  | 20.09 |      | 80.0 |         |
|           |   | Z | 6.32   | 81.31  | 22.03 |      | 80.0 |         |
| 10489-AAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 6.32   | 77.29  | 21.39 | 2.23 | 80.0 | ± 9.6 % |
|           |   | Y | 4.43   | 71.44  | 18.27 |      | 80.0 |         |
|           |   | Z | 4.73   | 73.84  | 19.19 |      | 80.0 |         |
| 10490-AAB | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | X | 6.17   | 76.25  | 21.01 | 2.23 | 80.0 | ± 9.6 % |
|           |   | Y | 4.49   | 71.10  | 18.16 |      | 80.0 |         |
|           |   | Z | 4.73   | 73.33  | 19.00 |      | 80.0 |         |
| 10491-AAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 8.61   | 82.82  | 23.17 | 2.23 | 80.0 | ± 9.6 % |
|           |   | Y | 5.07   | 74.02  | 19.23 |      | 80.0 |         |
|           |   | Z | 5.48   | 76.78  | 20.55 |      | 80.0 |         |
| 10492-AAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 5.97   | 74.35  | 20.36 | 2.23 | 80.0 | ± 9.6 % |
|           |   | Y | 4.65   | 70.26  | 18.02 |      | 80.0 |         |
|           |   | Z | 4.71   | 71.74  | 18.71 |      | 80.0 |         |

|           |  |   |       |        |       |      |      |         |
|-----------|--|---|-------|--------|-------|------|------|---------|
| 10493-AAB | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 5.94  | 73.81  | 20.16 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 4.71  | 70.05  | 17.95 |      | 80.0 |         |
|           |  | Z | 4.74  | 71.45  | 18.59 |      | 80.0 |         |
| 10494-AAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 11.78 | 87.97  | 24.66 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 5.72  | 76.08  | 19.83 |      | 80.0 |         |
|           |  | Z | 6.34  | 79.22  | 21.31 |      | 80.0 |         |
| 10495-AAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 6.29  | 75.53  | 20.79 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 4.74  | 70.84  | 18.26 |      | 80.0 |         |
|           |  | Z | 4.79  | 72.23  | 18.97 |      | 80.0 |         |
| 10496-AAB | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 6.14  | 74.52  | 20.43 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 4.78  | 70.42  | 18.12 |      | 80.0 |         |
|           |  | Z | 4.80  | 71.70  | 18.78 |      | 80.0 |         |
| 10497-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 41.42 | 110.30 | 29.89 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 4.08  | 74.47  | 17.38 |      | 80.0 |         |
|           |  | Z | 4.81  | 76.38  | 16.82 |      | 80.0 |         |
| 10498-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 10.86 | 86.04  | 22.08 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 2.90  | 67.22  | 13.53 |      | 80.0 |         |
|           |  | Z | 1.81  | 62.67  | 10.05 |      | 80.0 |         |
| 10499-AAA | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 10.17 | 84.58  | 21.47 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 2.80  | 66.53  | 13.10 |      | 80.0 |         |
|           |  | Z | 1.70  | 61.77  | 9.45  |      | 80.0 |         |
| 10500-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 14.09 | 93.93  | 26.67 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 5.08  | 77.02  | 20.01 |      | 80.0 |         |
|           |  | Z | 7.24  | 84.01  | 22.40 |      | 80.0 |         |
| 10501-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 6.95  | 79.41  | 21.77 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 4.41  | 72.03  | 17.94 |      | 80.0 |         |
|           |  | Z | 5.02  | 75.19  | 18.78 |      | 80.0 |         |
| 10502-AAA | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 6.80  | 78.63  | 21.45 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 4.45  | 71.78  | 17.80 |      | 80.0 |         |
|           |  | Z | 4.99  | 74.71  | 18.53 |      | 80.0 |         |
| 10503-AAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | X | 11.99 | 90.37  | 25.65 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 5.13  | 76.27  | 19.97 |      | 80.0 |         |
|           |  | Z | 6.19  | 80.97  | 21.89 |      | 80.0 |         |
| 10504-AAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | X | 6.28  | 77.17  | 21.33 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 4.41  | 71.33  | 18.21 |      | 80.0 |         |
|           |  | Z | 4.69  | 73.70  | 19.12 |      | 80.0 |         |
| 10505-AAB | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | X | 6.12  | 76.12  | 20.94 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 4.47  | 70.99  | 18.10 |      | 80.0 |         |
|           |  | Z | 4.70  | 73.20  | 18.93 |      | 80.0 |         |
| 10506-AAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | X | 11.56 | 87.65  | 24.54 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 5.66  | 75.89  | 19.74 |      | 80.0 |         |
|           |  | Z | 6.26  | 78.99  | 21.21 |      | 80.0 |         |
| 10507-AAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | X | 6.25  | 75.44  | 20.75 | 2.23 | 80.0 | ± 9.6 % |
|           |  | Y | 4.72  | 70.77  | 18.21 |      | 80.0 |         |
|           |  | Z | 4.77  | 72.15  | 18.92 |      | 80.0 |         |



|           |   |   |        |        |       |      |       |         |
|-----------|---|---|--------|--------|-------|------|-------|---------|
| 10508-AAB | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.11   | 74.43  | 20.38 | 2.23 | 80.0  | ± 9.6 % |
|           |   | Y | 4.76   | 70.34  | 18.08 |      | 80.0  |         |
|           |   | Z | 4.78   | 71.61  | 18.73 |      | 80.0  |         |
| 10509-AAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 8.91   | 81.25  | 22.33 | 2.23 | 80.0  | ± 9.6 % |
|           |   | Y | 5.67   | 73.79  | 18.96 |      | 80.0  |         |
|           |   | Z | 5.91   | 75.69  | 19.99 |      | 80.0  |         |
| 10510-AAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.41   | 73.84  | 20.09 | 2.23 | 80.0  | ± 9.6 % |
|           |   | Y | 5.16   | 70.23  | 18.06 |      | 80.0  |         |
|           |   | Z | 5.09   | 71.07  | 18.59 |      | 80.0  |         |
| 10511-AAB | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.29   | 73.11  | 19.85 | 2.23 | 80.0  | ± 9.6 % |
|           |   | Y | 5.17   | 69.87  | 17.96 |      | 80.0  |         |
|           |   | Z | 5.10   | 70.68  | 18.46 |      | 80.0  |         |
| 10512-AAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | X | 12.00  | 86.76  | 24.04 | 2.23 | 80.0  | ± 9.6 % |
|           |   | Y | 6.22   | 75.97  | 19.63 |      | 80.0  |         |
|           |   | Z | 6.68   | 78.34  | 20.83 |      | 80.0  |         |
| 10513-AAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.56   | 74.99  | 20.53 | 2.23 | 80.0  | ± 9.6 % |
|           |   | Y | 5.09   | 70.71  | 18.24 |      | 80.0  |         |
|           |   | Z | 5.03   | 71.54  | 18.78 |      | 80.0  |         |
| 10514-AAB | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | X | 6.29   | 73.86  | 20.15 | 2.23 | 80.0  | ± 9.6 % |
|           |   | Y | 5.05   | 70.14  | 18.07 |      | 80.0  |         |
|           |   | Z | 4.99   | 70.91  | 18.58 |      | 80.0  |         |
| 10515-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)           | X | 1.27   | 70.69  | 21.00 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 1.06   | 65.38  | 16.72 |      | 150.0 |         |
|           |   | Z | 1.11   | 67.04  | 17.91 |      | 150.0 |         |
| 10516-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)         | X | 100.00 | 210.23 | 64.17 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 2.37   | 98.98  | 30.07 |      | 150.0 |         |
|           |   | Z | 100.00 | 181.08 | 51.95 |      | 150.0 |         |
| 10517-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)          | X | 2.13   | 88.47  | 28.79 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 1.01   | 69.79  | 18.75 |      | 150.0 |         |
|           |   | Z | 1.16   | 73.73  | 21.12 |      | 150.0 |         |
| 10518-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)           | X | 4.92   | 67.78  | 17.32 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 4.70   | 67.17  | 16.62 |      | 150.0 |         |
|           |   | Z | 4.57   | 67.62  | 16.87 |      | 150.0 |         |
| 10519-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)          | X | 5.17   | 68.07  | 17.43 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 4.91   | 67.43  | 16.74 |      | 150.0 |         |
|           |   | Z | 4.73   | 67.79  | 16.95 |      | 150.0 |         |
| 10520-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)          | X | 5.03   | 68.16  | 17.43 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 4.77   | 67.45  | 16.69 |      | 150.0 |         |
|           |   | Z | 4.59   | 67.80  | 16.90 |      | 150.0 |         |
| 10521-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)          | X | 4.97   | 68.23  | 17.46 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 4.70   | 67.47  | 16.69 |      | 150.0 |         |
|           |   | Z | 4.53   | 67.81  | 16.91 |      | 150.0 |         |
| 10522-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)          | X | 4.98   | 68.03  | 17.40 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 4.75   | 67.45  | 16.72 |      | 150.0 |         |
|           |   | Z | 4.59   | 67.93  | 17.00 |      | 150.0 |         |



|           |  |   |      |       |       |      |       |         |
|-----------|--|---|------|-------|-------|------|-------|---------|
| 10523-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle) | X | 4.87 | 68.09 | 17.35 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.62 | 67.38 | 16.60 |      | 150.0 |         |
|           |  | Z | 4.50 | 67.88 | 16.90 |      | 150.0 |         |
| 10524-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle) | X | 4.95 | 68.04 | 17.42 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.70 | 67.41 | 16.71 |      | 150.0 |         |
|           |  | Z | 4.53 | 67.85 | 16.98 |      | 150.0 |         |
| 10525-AAA | IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)          | X | 4.90 | 67.12 | 17.03 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.67 | 66.47 | 16.31 |      | 150.0 |         |
|           |  | Z | 4.55 | 66.95 | 16.58 |      | 150.0 |         |
| 10526-AAA | IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)          | X | 5.14 | 67.56 | 17.16 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.87 | 66.87 | 16.45 |      | 150.0 |         |
|           |  | Z | 4.71 | 67.29 | 16.71 |      | 150.0 |         |
| 10527-AAA | IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)          | X | 5.06 | 67.62 | 17.17 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.79 | 66.86 | 16.42 |      | 150.0 |         |
|           |  | Z | 4.64 | 67.28 | 16.68 |      | 150.0 |         |
| 10528-AAA | IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)          | X | 5.08 | 67.62 | 17.20 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.80 | 66.88 | 16.45 |      | 150.0 |         |
|           |  | Z | 4.65 | 67.29 | 16.70 |      | 150.0 |         |
| 10529-AAA | IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)          | X | 5.08 | 67.62 | 17.20 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.80 | 66.88 | 16.45 |      | 150.0 |         |
|           |  | Z | 4.65 | 67.29 | 16.70 |      | 150.0 |         |
| 10531-AAA | IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)          | X | 5.12 | 67.84 | 17.25 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.81 | 67.04 | 16.48 |      | 150.0 |         |
|           |  | Z | 4.63 | 67.39 | 16.72 |      | 150.0 |         |
| 10532-AAA | IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)          | X | 4.97 | 67.82 | 17.27 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.67 | 66.92 | 16.44 |      | 150.0 |         |
|           |  | Z | 4.51 | 67.27 | 16.67 |      | 150.0 |         |
| 10533-AAA | IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)          | X | 5.10 | 67.63 | 17.17 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 4.82 | 66.91 | 16.43 |      | 150.0 |         |
|           |  | Z | 4.66 | 67.37 | 16.71 |      | 150.0 |         |
| 10534-AAA | IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)          | X | 5.56 | 67.62 | 17.10 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.30 | 66.93 | 16.43 |      | 150.0 |         |
|           |  | Z | 5.17 | 67.15 | 16.62 |      | 150.0 |         |
| 10535-AAA | IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)          | X | 5.64 | 67.77 | 17.15 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.37 | 67.07 | 16.49 |      | 150.0 |         |
|           |  | Z | 5.23 | 67.32 | 16.70 |      | 150.0 |         |
| 10536-AAA | IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)          | X | 5.51 | 67.83 | 17.18 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.25 | 67.08 | 16.48 |      | 150.0 |         |
|           |  | Z | 5.11 | 67.33 | 16.70 |      | 150.0 |         |
| 10537-AAA | IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)          | X | 5.57 | 67.75 | 17.14 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.31 | 67.03 | 16.46 |      | 150.0 |         |
|           |  | Z | 5.16 | 67.26 | 16.66 |      | 150.0 |         |
| 10538-AAA | IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)          | X | 5.69 | 67.79 | 17.19 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.41 | 67.07 | 16.51 |      | 150.0 |         |
|           |  | Z | 5.23 | 67.22 | 16.68 |      | 150.0 |         |
| 10540-AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)          | X | 5.58 | 67.74 | 17.19 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 5.32 | 67.04 | 16.51 |      | 150.0 |         |
|           |  | Z | 5.17 | 67.23 | 16.70 |      | 150.0 |         |

|           |   |   |      |       |       |      |       |         |
|-----------|---|---|------|-------|-------|------|-------|---------|
| 10541-AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)   | X | 5.58 | 67.73 | 17.18 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.30 | 66.95 | 16.47 |      | 150.0 |         |
|           |   | Z | 5.15 | 67.13 | 16.63 |      | 150.0 |         |
| 10542-AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)   | X | 5.70 | 67.61 | 17.12 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.45 | 66.97 | 16.48 |      | 150.0 |         |
|           |   | Z | 5.30 | 67.17 | 16.66 |      | 150.0 |         |
| 10543-AAA | IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)   | X | 5.81 | 67.64 | 17.14 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.53 | 66.97 | 16.50 |      | 150.0 |         |
|           |   | Z | 5.35 | 67.16 | 16.68 |      | 150.0 |         |
| 10544-AAA | IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)   | X | 5.80 | 67.65 | 17.03 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.59 | 67.01 | 16.40 |      | 150.0 |         |
|           |   | Z | 5.48 | 67.18 | 16.56 |      | 150.0 |         |
| 10545-AAA | IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)   | X | 6.03 | 68.02 | 17.13 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.79 | 67.39 | 16.52 |      | 150.0 |         |
|           |   | Z | 5.66 | 67.58 | 16.71 |      | 150.0 |         |
| 10546-AAA | IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)   | X | 5.93 | 68.01 | 17.16 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.68 | 67.29 | 16.49 |      | 150.0 |         |
|           |   | Z | 5.53 | 67.35 | 16.62 |      | 150.0 |         |
| 10547-AAA | IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)   | X | 6.04 | 68.09 | 17.17 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.77 | 67.36 | 16.51 |      | 150.0 |         |
|           |   | Z | 5.60 | 67.39 | 16.63 |      | 150.0 |         |
| 10548-AAA | IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)   | X | 6.35 | 69.14 | 17.66 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 6.01 | 68.23 | 16.92 |      | 150.0 |         |
|           |   | Z | 5.80 | 68.17 | 16.99 |      | 150.0 |         |
| 10550-AAA | IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)   | X | 5.95 | 67.91 | 17.11 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.70 | 67.24 | 16.48 |      | 150.0 |         |
|           |   | Z | 5.57 | 67.41 | 16.66 |      | 150.0 |         |
| 10551-AAA | IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)   | X | 5.97 | 68.04 | 17.13 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.71 | 67.32 | 16.48 |      | 150.0 |         |
|           |   | Z | 5.56 | 67.39 | 16.61 |      | 150.0 |         |
| 10552-AAA | IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)   | X | 5.86 | 67.80 | 17.04 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.62 | 67.10 | 16.39 |      | 150.0 |         |
|           |   | Z | 5.50 | 67.28 | 16.56 |      | 150.0 |         |
| 10553-AAA | IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)   | X | 5.95 | 67.79 | 17.05 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.71 | 67.14 | 16.43 |      | 150.0 |         |
|           |   | Z | 5.56 | 67.25 | 16.58 |      | 150.0 |         |
| 10554-AAA | IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle) | X | 6.20 | 67.99 | 17.07 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 5.98 | 67.36 | 16.46 |      | 150.0 |         |
|           |   | Z | 5.89 | 67.47 | 16.60 |      | 150.0 |         |
| 10555-AAA | IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle) | X | 6.40 | 68.43 | 17.25 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 6.12 | 67.67 | 16.59 |      | 150.0 |         |
|           |   | Z | 6.00 | 67.75 | 16.72 |      | 150.0 |         |
| 10556-AAA | IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duty cycle) | X | 6.38 | 68.35 | 17.21 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 6.14 | 67.70 | 16.60 |      | 150.0 |         |
|           |   | Z | 6.03 | 67.81 | 16.74 |      | 150.0 |         |
| 10557-AAA | IEEE 1602.11ac WiFi (160MHz, MCS3, 99pc duty cycle) | X | 6.38 | 68.36 | 17.24 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 6.12 | 67.65 | 16.60 |      | 150.0 |         |
|           |   | Z | 5.99 | 67.70 | 16.71 |      | 150.0 |         |

|           |   |   |        |        |       |      |       |         |
|-----------|---|---|--------|--------|-------|------|-------|---------|
| 10558-AAA | IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)             | X | 6.45   | 68.56  | 17.35 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 6.18   | 67.82  | 16.70 |      | 150.0 |         |
|           |   | Z | 6.03   | 67.86  | 16.80 |      | 150.0 |         |
| 10560-AAA | IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)             | X | 6.45   | 68.40  | 17.30 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 6.18   | 67.67  | 16.66 |      | 150.0 |         |
|           |   | Z | 6.03   | 67.70  | 16.76 |      | 150.0 |         |
| 10561-AAA | IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)             | X | 6.34   | 68.32  | 17.31 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 6.09   | 67.62  | 16.67 |      | 150.0 |         |
|           |   | Z | 5.95   | 67.68  | 16.79 |      | 150.0 |         |
| 10562-AAA | IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)             | X | 6.52   | 68.86  | 17.58 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 6.23   | 68.05  | 16.89 |      | 150.0 |         |
|           |   | Z | 6.05   | 67.97  | 16.93 |      | 150.0 |         |
| 10563-AAA | IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)             | X | 6.75   | 69.03  | 17.59 | 0.00 | 150.0 | ± 9.6 % |
|           |   | Y | 6.55   | 68.53  | 17.06 |      | 150.0 |         |
|           |   | Z | 6.12   | 67.82  | 16.81 |      | 150.0 |         |
| 10564-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | X | 5.23   | 67.72  | 17.36 | 0.46 | 150.0 | ± 9.6 % |
|           |   | Y | 5.01   | 67.16  | 16.70 |      | 150.0 |         |
|           |   | Z | 4.87   | 67.54  | 16.91 |      | 150.0 |         |
| 10565-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | X | 5.53   | 68.26  | 17.69 | 0.46 | 150.0 | ± 9.6 % |
|           |   | Y | 5.28   | 67.67  | 17.04 |      | 150.0 |         |
|           |   | Z | 5.09   | 67.97  | 17.22 |      | 150.0 |         |
| 10566-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | X | 5.36   | 68.17  | 17.55 | 0.46 | 150.0 | ± 9.6 % |
|           |   | Y | 5.11   | 67.53  | 16.86 |      | 150.0 |         |
|           |   | Z | 4.92   | 67.82  | 17.05 |      | 150.0 |         |
| 10567-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | X | 5.41   | 68.67  | 17.95 | 0.46 | 150.0 | ± 9.6 % |
|           |   | Y | 5.15   | 68.02  | 17.27 |      | 150.0 |         |
|           |   | Z | 4.97   | 68.30  | 17.46 |      | 150.0 |         |
| 10568-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | X | 5.24   | 67.76  | 17.23 | 0.46 | 150.0 | ± 9.6 % |
|           |   | Y | 5.00   | 67.20  | 16.57 |      | 150.0 |         |
|           |   | Z | 4.83   | 67.58  | 16.80 |      | 150.0 |         |
| 10569-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | X | 5.34   | 68.69  | 17.98 | 0.46 | 150.0 | ± 9.6 % |
|           |   | Y | 5.09   | 68.07  | 17.31 |      | 150.0 |         |
|           |   | Z | 4.95   | 68.50  | 17.58 |      | 150.0 |         |
| 10570-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | X | 5.37   | 68.40  | 17.85 | 0.46 | 150.0 | ± 9.6 % |
|           |   | Y | 5.13   | 67.87  | 17.22 |      | 150.0 |         |
|           |   | Z | 4.96   | 68.25  | 17.46 |      | 150.0 |         |
| 10571-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | X | 1.79   | 73.96  | 22.05 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 1.36   | 67.23  | 17.45 |      | 130.0 |         |
|           |   | Z | 1.43   | 68.96  | 18.63 |      | 130.0 |         |
| 10572-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | X | 1.93   | 75.94  | 23.01 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 1.40   | 68.16  | 17.98 |      | 130.0 |         |
|           |   | Z | 1.49   | 70.08  | 19.24 |      | 130.0 |         |
| 10573-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | X | 100.00 | 172.82 | 50.36 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 100.00 | 151.76 | 41.10 |      | 130.0 |         |
|           |   | Z | 100.00 | 160.13 | 44.58 |      | 130.0 |         |
| 10574-AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | X | 15.02  | 124.20 | 39.48 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 2.12   | 80.04  | 23.37 |      | 130.0 |         |
|           |   | Z | 2.72   | 86.48  | 26.37 |      | 130.0 |         |



|           |   |   |      |       |       |      |       |         |
|-----------|---|---|------|-------|-------|------|-------|---------|
| 10575-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | X | 5.01 | 67.50 | 17.40 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.79 | 66.92 | 16.70 |      | 130.0 |         |
|           |   | Z | 4.66 | 67.33 | 16.93 |      | 130.0 |         |
| 10576-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | X | 5.05 | 67.70 | 17.49 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.83 | 67.10 | 16.78 |      | 130.0 |         |
|           |   | Z | 4.69 | 67.54 | 17.02 |      | 130.0 |         |
| 10577-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | X | 5.32 | 68.05 | 17.65 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.06 | 67.43 | 16.96 |      | 130.0 |         |
|           |   | Z | 4.87 | 67.78 | 17.16 |      | 130.0 |         |
| 10578-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | X | 5.23 | 68.34 | 17.83 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.96 | 67.66 | 17.10 |      | 130.0 |         |
|           |   | Z | 4.79 | 68.00 | 17.31 |      | 130.0 |         |
| 10579-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | X | 4.99 | 67.67 | 17.17 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.71 | 66.88 | 16.36 |      | 130.0 |         |
|           |   | Z | 4.53 | 67.18 | 16.56 |      | 130.0 |         |
| 10580-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | X | 5.02 | 67.53 | 17.11 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.75 | 66.84 | 16.35 |      | 130.0 |         |
|           |   | Z | 4.58 | 67.23 | 16.59 |      | 130.0 |         |
| 10581-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | X | 5.16 | 68.53 | 17.84 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.86 | 67.73 | 17.05 |      | 130.0 |         |
|           |   | Z | 4.70 | 68.11 | 17.30 |      | 130.0 |         |
| 10582-AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | X | 4.94 | 67.33 | 16.92 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.65 | 66.58 | 16.12 |      | 130.0 |         |
|           |   | Z | 4.46 | 66.91 | 16.33 |      | 130.0 |         |
| 10583-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | X | 5.01 | 67.50 | 17.40 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.79 | 66.92 | 16.70 |      | 130.0 |         |
|           |   | Z | 4.66 | 67.33 | 16.93 |      | 130.0 |         |
| 10584-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | X | 5.05 | 67.70 | 17.49 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.83 | 67.10 | 16.78 |      | 130.0 |         |
|           |   | Z | 4.69 | 67.54 | 17.02 |      | 130.0 |         |
| 10585-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | X | 5.32 | 68.05 | 17.65 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.06 | 67.43 | 16.96 |      | 130.0 |         |
|           |   | Z | 4.87 | 67.78 | 17.16 |      | 130.0 |         |
| 10586-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | X | 5.23 | 68.34 | 17.83 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.96 | 67.66 | 17.10 |      | 130.0 |         |
|           |   | Z | 4.79 | 68.00 | 17.31 |      | 130.0 |         |
| 10587-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | X | 4.99 | 67.67 | 17.17 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.71 | 66.88 | 16.36 |      | 130.0 |         |
|           |   | Z | 4.53 | 67.18 | 16.56 |      | 130.0 |         |
| 10588-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | X | 5.02 | 67.53 | 17.11 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.75 | 66.84 | 16.35 |      | 130.0 |         |
|           |   | Z | 4.58 | 67.23 | 16.59 |      | 130.0 |         |
| 10589-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | X | 5.16 | 68.53 | 17.84 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.86 | 67.73 | 17.05 |      | 130.0 |         |
|           |   | Z | 4.70 | 68.11 | 17.30 |      | 130.0 |         |
| 10590-AAA | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | X | 4.94 | 67.33 | 16.92 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.65 | 66.58 | 16.12 |      | 130.0 |         |
|           |   | Z | 4.46 | 66.91 | 16.33 |      | 130.0 |         |

|           |   |   |      |       |       |      |       |         |
|-----------|---|---|------|-------|-------|------|-------|---------|
| 10591-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle) | X | 5.16 | 67.52 | 17.46 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.94 | 66.97 | 16.80 |      | 130.0 |         |
|           |   | Z | 4.80 | 67.35 | 17.01 |      | 130.0 |         |
| 10592-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle) | X | 5.36 | 67.88 | 17.58 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.12 | 67.33 | 16.92 |      | 130.0 |         |
|           |   | Z | 4.95 | 67.68 | 17.14 |      | 130.0 |         |
| 10593-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle) | X | 5.30 | 67.89 | 17.52 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.04 | 67.26 | 16.82 |      | 130.0 |         |
|           |   | Z | 4.87 | 67.58 | 17.02 |      | 130.0 |         |
| 10594-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle) | X | 5.35 | 68.03 | 17.65 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.10 | 67.43 | 16.98 |      | 130.0 |         |
|           |   | Z | 4.92 | 67.77 | 17.19 |      | 130.0 |         |
| 10595-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle) | X | 5.35 | 68.05 | 17.58 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.07 | 67.39 | 16.87 |      | 130.0 |         |
|           |   | Z | 4.89 | 67.74 | 17.09 |      | 130.0 |         |
| 10596-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle) | X | 5.27 | 68.03 | 17.57 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.01 | 67.38 | 16.87 |      | 130.0 |         |
|           |   | Z | 4.83 | 67.74 | 17.10 |      | 130.0 |         |
| 10597-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle) | X | 5.23 | 68.01 | 17.51 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.96 | 67.31 | 16.77 |      | 130.0 |         |
|           |   | Z | 4.78 | 67.62 | 16.97 |      | 130.0 |         |
| 10598-AAA | IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle) | X | 5.23 | 68.38 | 17.84 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.95 | 67.63 | 17.08 |      | 130.0 |         |
|           |   | Z | 4.77 | 67.91 | 17.27 |      | 130.0 |         |
| 10599-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle) | X | 5.83 | 68.09 | 17.56 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.60 | 67.51 | 16.95 |      | 130.0 |         |
|           |   | Z | 5.44 | 67.67 | 17.11 |      | 130.0 |         |
| 10600-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle) | X | 6.09 | 68.80 | 17.88 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.76 | 67.96 | 17.13 |      | 130.0 |         |
|           |   | Z | 5.55 | 68.03 | 17.26 |      | 130.0 |         |
| 10601-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle) | X | 5.91 | 68.38 | 17.69 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.64 | 67.69 | 17.02 |      | 130.0 |         |
|           |   | Z | 5.46 | 67.84 | 17.18 |      | 130.0 |         |
| 10602-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle) | X | 6.03 | 68.44 | 17.63 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.72 | 67.64 | 16.90 |      | 130.0 |         |
|           |   | Z | 5.59 | 67.98 | 17.17 |      | 130.0 |         |
| 10603-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle) | X | 6.16 | 68.88 | 17.97 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.82 | 68.03 | 17.23 |      | 130.0 |         |
|           |   | Z | 5.65 | 68.25 | 17.43 |      | 130.0 |         |
| 10604-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle) | X | 5.85 | 68.09 | 17.58 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.60 | 67.46 | 16.94 |      | 130.0 |         |
|           |   | Z | 5.52 | 67.88 | 17.24 |      | 130.0 |         |
| 10605-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle) | X | 5.95 | 68.34 | 17.70 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.70 | 67.71 | 17.06 |      | 130.0 |         |
|           |   | Z | 5.56 | 67.97 | 17.28 |      | 130.0 |         |
| 10606-AAA | IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle) | X | 5.70 | 67.78 | 17.30 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.48 | 67.20 | 16.67 |      | 130.0 |         |
|           |   | Z | 5.30 | 67.28 | 16.79 |      | 130.0 |         |

|           |   |   |      |       |       |      |       |         |
|-----------|---|---|------|-------|-------|------|-------|---------|
| 10607-AAA | IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle) | X | 5.02 | 66.95 | 17.16 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.79 | 66.33 | 16.45 |      | 130.0 |         |
|           |   | Z | 4.67 | 66.79 | 16.71 |      | 130.0 |         |
| 10608-AAA | IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle) | X | 5.27 | 67.41 | 17.31 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.00 | 66.76 | 16.61 |      | 130.0 |         |
|           |   | Z | 4.84 | 67.17 | 16.87 |      | 130.0 |         |
| 10609-AAA | IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle) | X | 5.16 | 67.35 | 17.21 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.89 | 66.63 | 16.46 |      | 130.0 |         |
|           |   | Z | 4.73 | 67.03 | 16.71 |      | 130.0 |         |
| 10610-AAA | IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) | X | 5.22 | 67.51 | 17.37 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.94 | 66.81 | 16.63 |      | 130.0 |         |
|           |   | Z | 4.78 | 67.20 | 16.88 |      | 130.0 |         |
| 10611-AAA | IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle) | X | 5.15 | 67.38 | 17.25 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.86 | 66.61 | 16.48 |      | 130.0 |         |
|           |   | Z | 4.70 | 66.99 | 16.72 |      | 130.0 |         |
| 10612-AAA | IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle) | X | 5.17 | 67.52 | 17.28 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.87 | 66.76 | 16.51 |      | 130.0 |         |
|           |   | Z | 4.70 | 67.16 | 16.78 |      | 130.0 |         |
| 10613-AAA | IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle) | X | 5.19 | 67.44 | 17.18 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.88 | 66.66 | 16.40 |      | 130.0 |         |
|           |   | Z | 4.69 | 66.99 | 16.62 |      | 130.0 |         |
| 10614-AAA | IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle) | X | 5.13 | 67.77 | 17.50 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.83 | 66.92 | 16.69 |      | 130.0 |         |
|           |   | Z | 4.66 | 67.26 | 16.91 |      | 130.0 |         |
| 10615-AAA | IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle) | X | 5.13 | 67.09 | 16.97 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 4.85 | 66.37 | 16.22 |      | 130.0 |         |
|           |   | Z | 4.69 | 66.80 | 16.47 |      | 130.0 |         |
| 10616-AAA | IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle) | X | 5.68 | 67.49 | 17.26 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.43 | 66.83 | 16.60 |      | 130.0 |         |
|           |   | Z | 5.29 | 67.03 | 16.78 |      | 130.0 |         |
| 10617-AAA | IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle) | X | 5.76 | 67.61 | 17.28 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.48 | 66.92 | 16.61 |      | 130.0 |         |
|           |   | Z | 5.35 | 67.22 | 16.85 |      | 130.0 |         |
| 10618-AAA | IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle) | X | 5.65 | 67.74 | 17.38 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.39 | 67.03 | 16.69 |      | 130.0 |         |
|           |   | Z | 5.26 | 67.29 | 16.91 |      | 130.0 |         |
| 10619-AAA | IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle) | X | 5.66 | 67.47 | 17.17 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.41 | 66.82 | 16.51 |      | 130.0 |         |
|           |   | Z | 5.25 | 67.02 | 16.70 |      | 130.0 |         |
| 10620-AAA | IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle) | X | 5.80 | 67.62 | 17.28 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.51 | 66.89 | 16.59 |      | 130.0 |         |
|           |   | Z | 5.33 | 67.03 | 16.75 |      | 130.0 |         |
| 10621-AAA | IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle) | X | 5.77 | 67.71 | 17.45 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.50 | 67.02 | 16.79 |      | 130.0 |         |
|           |   | Z | 5.35 | 67.21 | 16.96 |      | 130.0 |         |
| 10622-AAA | IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle) | X | 5.76 | 67.80 | 17.49 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.50 | 67.13 | 16.83 |      | 130.0 |         |
|           |   | Z | 5.36 | 67.35 | 17.03 |      | 130.0 |         |



|           |   |   |      |       |       |      |       |         |
|-----------|---|---|------|-------|-------|------|-------|---------|
| 10623-AAA | IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)   | X | 5.67 | 67.48 | 17.22 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.38 | 66.67 | 16.47 |      | 130.0 |         |
|           |   | Z | 5.23 | 66.85 | 16.65 |      | 130.0 |         |
| 10624-AAA | IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)   | X | 5.81 | 67.45 | 17.25 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.57 | 66.84 | 16.62 |      | 130.0 |         |
|           |   | Z | 5.41 | 67.04 | 16.80 |      | 130.0 |         |
| 10625-AAA | IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)   | X | 6.15 | 68.20 | 17.65 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.95 | 67.80 | 17.14 |      | 130.0 |         |
|           |   | Z | 5.66 | 67.64 | 17.15 |      | 130.0 |         |
| 10626-AAA | IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)   | X | 5.90 | 67.46 | 17.14 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.69 | 66.85 | 16.52 |      | 130.0 |         |
|           |   | Z | 5.59 | 67.03 | 16.70 |      | 130.0 |         |
| 10627-AAA | IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)   | X | 6.16 | 67.93 | 17.31 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.93 | 67.36 | 16.72 |      | 130.0 |         |
|           |   | Z | 5.81 | 67.57 | 16.93 |      | 130.0 |         |
| 10628-AAA | IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)   | X | 6.00 | 67.67 | 17.13 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.75 | 66.98 | 16.47 |      | 130.0 |         |
|           |   | Z | 5.60 | 67.05 | 16.60 |      | 130.0 |         |
| 10629-AAA | IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)   | X | 6.11 | 67.80 | 17.18 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.83 | 67.04 | 16.49 |      | 130.0 |         |
|           |   | Z | 5.67 | 67.12 | 16.63 |      | 130.0 |         |
| 10630-AAA | IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)   | X | 6.69 | 69.63 | 18.07 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 6.30 | 68.59 | 17.26 |      | 130.0 |         |
|           |   | Z | 6.00 | 68.30 | 17.22 |      | 130.0 |         |
| 10631-AAA | IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)   | X | 6.62 | 69.53 | 18.22 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 6.24 | 68.55 | 17.44 |      | 130.0 |         |
|           |   | Z | 5.97 | 68.34 | 17.44 |      | 130.0 |         |
| 10632-AAA | IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)   | X | 6.20 | 68.21 | 17.59 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.93 | 67.51 | 16.94 |      | 130.0 |         |
|           |   | Z | 5.80 | 67.69 | 17.13 |      | 130.0 |         |
| 10633-AAA | IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)   | X | 6.14 | 68.06 | 17.35 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.84 | 67.23 | 16.63 |      | 130.0 |         |
|           |   | Z | 5.67 | 67.27 | 16.75 |      | 130.0 |         |
| 10634-AAA | IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)   | X | 6.12 | 68.05 | 17.41 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.82 | 67.26 | 16.71 |      | 130.0 |         |
|           |   | Z | 5.66 | 67.31 | 16.83 |      | 130.0 |         |
| 10635-AAA | IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)   | X | 5.96 | 67.23 | 16.72 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 5.68 | 66.48 | 16.03 |      | 130.0 |         |
|           |   | Z | 5.51 | 66.52 | 16.15 |      | 130.0 |         |
| 10636-AAA | IEEE 1602.11ac WiFi (160MHz, MCS0, 90pc duty cycle) | X | 6.30 | 67.81 | 17.20 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 6.10 | 67.21 | 16.60 |      | 130.0 |         |
|           |   | Z | 6.00 | 67.34 | 16.74 |      | 130.0 |         |
| 10637-AAA | IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle) | X | 6.53 | 68.33 | 17.42 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 6.26 | 67.58 | 16.76 |      | 130.0 |         |
|           |   | Z | 6.14 | 67.69 | 16.90 |      | 130.0 |         |
| 10638-AAA | IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle) | X | 6.48 | 68.16 | 17.32 | 0.46 | 130.0 | ± 9.6 % |
|           |   | Y | 6.26 | 67.55 | 16.72 |      | 130.0 |         |
|           |   | Z | 6.15 | 67.69 | 16.88 |      | 130.0 |         |

|           |  |   |       |        |       |      |       |         |
|-----------|--|---|-------|--------|-------|------|-------|---------|
| 10639-AAA | IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle)    | X | 6.51  | 68.26  | 17.41 | 0.46 | 130.0 | ± 9.6 % |
|           |  | Y | 6.26  | 67.57  | 16.78 |      | 130.0 |         |
|           |  | Z | 6.12  | 67.61  | 16.88 |      | 130.0 |         |
| 10640-AAA | IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle)    | X | 6.54  | 68.34  | 17.39 | 0.46 | 130.0 | ± 9.6 % |
|           |  | Y | 6.27  | 67.59  | 16.72 |      | 130.0 |         |
|           |  | Z | 6.11  | 67.60  | 16.82 |      | 130.0 |         |
| 10641-AAA | IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle)    | X | 6.52  | 68.01  | 17.24 | 0.46 | 130.0 | ± 9.6 % |
|           |  | Y | 6.27  | 67.37  | 16.62 |      | 130.0 |         |
|           |  | Z | 6.17  | 67.53  | 16.80 |      | 130.0 |         |
| 10642-AAA | IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle)    | X | 6.63  | 68.47  | 17.64 | 0.46 | 130.0 | ± 9.6 % |
|           |  | Y | 6.36  | 67.76  | 17.00 |      | 130.0 |         |
|           |  | Z | 6.21  | 67.79  | 17.10 |      | 130.0 |         |
| 10643-AAA | IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle)    | X | 6.43  | 68.07  | 17.35 | 0.46 | 130.0 | ± 9.6 % |
|           |  | Y | 6.17  | 67.37  | 16.70 |      | 130.0 |         |
|           |  | Z | 6.05  | 67.47  | 16.84 |      | 130.0 |         |
| 10644-AAA | IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle)    | X | 6.70  | 68.88  | 17.77 | 0.46 | 130.0 | ± 9.6 % |
|           |  | Y | 6.38  | 68.00  | 17.03 |      | 130.0 |         |
|           |  | Z | 6.16  | 67.83  | 17.04 |      | 130.0 |         |
| 10645-AAA | IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle)    | X | 6.92  | 69.02  | 17.77 | 0.46 | 130.0 | ± 9.6 % |
|           |  | Y | 6.74  | 68.60  | 17.27 |      | 130.0 |         |
|           |  | Z | 6.27  | 67.78  | 16.97 |      | 130.0 |         |
| 10646-AAC | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | X | 29.22 | 110.42 | 36.37 | 9.30 | 60.0  | ± 9.6 % |
|           |  | Y | 20.57 | 103.68 | 33.66 |      | 60.0  |         |
|           |  | Z | 38.29 | 122.43 | 40.19 |      | 60.0  |         |
| 10647-AAB | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | X | 30.01 | 111.78 | 36.90 | 9.30 | 60.0  | ± 9.6 % |
|           |  | Y | 19.96 | 103.74 | 33.79 |      | 60.0  |         |
|           |  | Z | 35.46 | 121.67 | 40.15 |      | 60.0  |         |
| 10648-AAA | CDMA2000 (1x Advanced)                                 | X | 68.87 | 140.59 | 38.37 | 0.00 | 150.0 | ± 9.6 % |
|           |  | Y | 1.08  | 69.71  | 15.15 |      | 150.0 |         |
|           |  | Z | 2.27  | 80.92  | 18.62 |      | 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.

