

EX3DV4 - SN:7627

June 03, 2024

| UID   | Rev | Communication System Name                          | Group         | PAR (dB) | Unc <sup>E</sup> $k = 2$ |
|-------|-----|----------------------------------------------------|---------------|----------|--------------------------|
| 10983 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.31     | ±9.6                     |
| 10984 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.42     | ±9.6                     |
| 10985 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.54     | ±9.6                     |
| 10986 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.50     | ±9.6                     |
| 10987 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.53     | ±9.6                     |
| 10988 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.38     | ±9.6                     |
| 10989 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.33     | ±9.6                     |
| 10990 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.52     | ±9.6                     |
| 11003 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 10.24    | ±9.6                     |
| 11004 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 10.73    | ±9.6                     |
| 11005 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.70     | ±9.6                     |
| 11006 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.55     | ±9.6                     |
| 11007 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.46     | ±9.6                     |
| 11008 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.51     | ±9.6                     |
| 11009 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.76     | ±9.6                     |
| 11010 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.95     | ±9.6                     |
| 11011 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.96     | ±9.6                     |
| 11012 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.68     | ±9.6                     |
| 11013 | AAB | IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)     | WLAN          | 8.47     | ±9.6                     |
| 11014 | AAB | IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)     | WLAN          | 8.45     | ±9.6                     |
| 11015 | AAB | IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)     | WLAN          | 8.44     | ±9.6                     |
| 11016 | AAB | IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)     | WLAN          | 8.44     | ±9.6                     |
| 11017 | AAB | IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)     | WLAN          | 8.41     | ±9.6                     |
| 11018 | AAB | IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)     | WLAN          | 8.40     | ±9.6                     |
| 11019 | AAB | IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)     | WLAN          | 8.29     | ±9.6                     |
| 11020 | AAB | IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)     | WLAN          | 8.27     | ±9.6                     |
| 11021 | AAB | IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)     | WLAN          | 8.46     | ±9.6                     |
| 11022 | AAB | IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)    | WLAN          | 8.36     | ±9.6                     |
| 11023 | AAB | IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)    | WLAN          | 8.09     | ±9.6                     |
| 11024 | AAB | IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)    | WLAN          | 8.42     | ±9.6                     |
| 11025 | AAB | IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)    | WLAN          | 8.37     | ±9.6                     |
| 11026 | AAB | IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)     | WLAN          | 8.39     | ±9.6                     |

<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.

**Calibration Laboratory of****Schmid & Partner  
Engineering AG**

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Client

**Sporton**  
Kunshan City

Certificate No.

**EX-3857\_Jan24****CALIBRATION CERTIFICATE**Object **EX3DV4 - SN:3857**Calibration procedure(s) **QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,  
QA CAL-25.v8  
Calibration procedure for dosimetric E-field probes**Calibration date **January 22, 2024**

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 NRP2           | SN: 104778       | 30-Mar-23 (No. 217-03804/03805)   | Mar-24                |
| Power sensor NRP-Z91       | SN: 103244       | 30-Mar-23 (No. 217-03804)         | Mar-24                |
| OCP DAK-3.5 (weighted)     | SN: 1249         | 05-Oct-23 (OCP-DAK3.5-1249_Oct23) | Oct-24                |
| OCP DAK-12                 | SN: 1016         | 05-Oct-23 (OCP-DAK12-1016_Oct23)  | Oct-24                |
| Reference 20 dB Attenuator | SN: CC2552 (20x) | 30-Mar-23 (No. 217-03809)         | Mar-24                |
| DAE4                       | SN: 660          | 16-Mar-23 (No. DAE4-660_Mar23)    | Mar-24                |
| Reference Probe EX3DV4     | SN: 7349         | 03-Nov-23 (No. EX3-7349_Nov23)    | Nov-24                |

| Secondary Standards     | ID               | Check Date (in house)             | Scheduled Check        |
|-------------------------|------------------|-----------------------------------|------------------------|
| Power meter E4419B      | SN: GB41293874   | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| Power sensor E4412A     | SN: MY41498087   | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| Power sensor E4412A     | SN: 000110210    | 06-Apr-16 (in house check Jun-22) | In house check: Jun-24 |
| RF generator HP 8648C   | SN: US3642U01700 | 04-Aug-99 (in house check Jun-22) | In house check: Jun-24 |
| Network Analyzer E8358A | SN: US41080477   | 31-Mar-14 (in house check Oct-22) | In house check: Oct-24 |

|                                                                                                                 | Name           | Function              | Signature |
|-----------------------------------------------------------------------------------------------------------------|----------------|-----------------------|-----------|
| Calibrated by                                                                                                   | Jeton Kastrati | Laboratory Technician |           |
| Approved by                                                                                                     | Sven Kühn      | Technical Manager     |           |
| Issued: January 25, 2024                                                                                        |                |                       |           |
| 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:**

- IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

**Methods Applied and Interpretation of Parameters:**

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM(f)<sub>x,y,z</sub> = NORM<sub>x,y,z</sub> \* frequency\_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. 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).

EX3DV4 - SN:3857

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**Parameters of Probe: EX3DV4 - SN:3857****Basic Calibration Parameters**

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc ( $k = 2$ ) |
|-----------------------------------------------------------|----------|----------|----------|-----------------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 0.18     | 0.43     | 0.45     | $\pm 10.1\%$    |
| DCP (mV) <sup>B</sup>                                     | 95.2     | 100.8    | 102.4    | $\pm 4.7\%$     |

**Calibration Results for Modulation Response**

| UID   | Communication System Name   |   | A<br>dB | B<br>$\text{dB}\sqrt{\mu\text{V}}$ | C     | D<br>dB | VR<br>mV | Max<br>dev. | Max<br>Unc <sup>E</sup><br>$k = 2$ |
|-------|-----------------------------|---|---------|------------------------------------|-------|---------|----------|-------------|------------------------------------|
| 0     | CW                          | X | 0.00    | 0.00                               | 1.00  | 0.00    | 127.1    | $\pm 2.0\%$ | $\pm 4.7\%$                        |
|       |                             | Y | 0.00    | 0.00                               | 1.00  |         | 143.8    |             |                                    |
|       |                             | Z | 0.00    | 0.00                               | 1.00  |         | 137.6    |             |                                    |
| 10352 | Pulse Waveform (200Hz, 10%) | X | 5.82    | 73.46                              | 14.87 | 10.00   | 60.0     | $\pm 2.7\%$ | $\pm 9.6\%$                        |
|       |                             | Y | 20.00   | 90.74                              | 20.34 |         | 60.0     |             |                                    |
|       |                             | Z | 20.00   | 90.07                              | 20.11 |         | 60.0     |             |                                    |
| 10353 | Pulse Waveform (200Hz, 20%) | X | 4.78    | 74.04                              | 13.80 | 6.99    | 80.0     | $\pm 1.4\%$ | $\pm 9.6\%$                        |
|       |                             | Y | 20.00   | 94.14                              | 21.01 |         | 80.0     |             |                                    |
|       |                             | Z | 20.00   | 91.47                              | 19.45 |         | 80.0     |             |                                    |
| 10354 | Pulse Waveform (200Hz, 40%) | X | 2.01    | 68.93                              | 10.26 | 3.98    | 95.0     | $\pm 1.2\%$ | $\pm 9.6\%$                        |
|       |                             | Y | 20.00   | 102.66                             | 23.80 |         | 95.0     |             |                                    |
|       |                             | Z | 20.00   | 94.15                              | 19.21 |         | 95.0     |             |                                    |
| 10355 | Pulse Waveform (200Hz, 60%) | X | 0.35    | 60.00                              | 4.90  | 2.22    | 120.0    | $\pm 1.2\%$ | $\pm 9.6\%$                        |
|       |                             | Y | 20.00   | 105.94                             | 24.07 |         | 120.0    |             |                                    |
|       |                             | Z | 20.00   | 97.05                              | 19.24 |         | 120.0    |             |                                    |
| 10387 | QPSK Waveform, 1 MHz        | X | 1.72    | 66.08                              | 15.26 | 1.00    | 150.0    | $\pm 2.3\%$ | $\pm 9.6\%$                        |
|       |                             | Y | 1.81    | 67.15                              | 15.70 |         | 150.0    |             |                                    |
|       |                             | Z | 1.65    | 65.81                              | 14.67 |         | 150.0    |             |                                    |
| 10388 | QPSK Waveform, 10 MHz       | X | 2.37    | 68.93                              | 16.09 | 0.00    | 150.0    | $\pm 0.9\%$ | $\pm 9.6\%$                        |
|       |                             | Y | 2.43    | 69.28                              | 16.43 |         | 150.0    |             |                                    |
|       |                             | Z | 2.19    | 67.68                              | 15.43 |         | 150.0    |             |                                    |
| 10396 | 64-QAM Waveform, 100 kHz    | X | 3.18    | 70.44                              | 18.61 | 3.01    | 150.0    | $\pm 0.7\%$ | $\pm 9.6\%$                        |
|       |                             | Y | 2.68    | 69.13                              | 18.20 |         | 150.0    |             |                                    |
|       |                             | Z | 2.79    | 69.85                              | 18.32 |         | 150.0    |             |                                    |
| 10399 | 64-QAM Waveform, 40 MHz     | X | 3.58    | 67.37                              | 16.00 | 0.00    | 150.0    | $\pm 2.6\%$ | $\pm 9.6\%$                        |
|       |                             | Y | 3.52    | 67.15                              | 15.86 |         | 150.0    |             |                                    |
|       |                             | Z | 3.52    | 67.16                              | 15.70 |         | 150.0    |             |                                    |
| 10414 | WLAN CCDF, 64-QAM, 40 MHz   | X | 4.82    | 65.01                              | 15.38 | 0.00    | 150.0    | $\pm 4.8\%$ | $\pm 9.6\%$                        |
|       |                             | Y | 4.86    | 65.57                              | 15.53 |         | 150.0    |             |                                    |
|       |                             | Z | 4.72    | 65.14                              | 15.21 |         | 150.0    |             |                                    |

Note: For details on UID parameters see Appendix

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> Linearization parameter uncertainty for maximum specified field strength.<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.

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**Parameters of Probe: EX3DV4 - SN:3857****Sensor Model Parameters**

|   | C1<br>fF | C2<br>fF | $\alpha$<br>$V^{-1}$ | T1<br>$msV^{-2}$ | T2<br>$msV^{-1}$ | T3<br>ms | T4<br>$V^{-2}$ | T5<br>$V^{-1}$ | T6   |
|---|----------|----------|----------------------|------------------|------------------|----------|----------------|----------------|------|
| x | 60.4     | 474.07   | 38.85                | 7.88             | 1.12             | 5.02     | 0.00           | 0.69           | 1.01 |
| y | 47.6     | 353.35   | 35.19                | 13.81            | 0.00             | 5.07     | 0.47           | 0.31           | 1.00 |
| z | 45.6     | 337.66   | 35.00                | 8.55             | 0.32             | 5.05     | 1.03           | 0.23           | 1.01 |

**Other Probe Parameters**

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle                               | 54.5°      |
| 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     |

**Note:** Measurement distance from surface can be increased to 3–4 mm for an *Area Scan* job.



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**Parameters of Probe: EX3DV4 - SN:3857****Calibration Parameter Determined in Head Tissue Simulating Media**

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity <sup>F</sup> (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha <sup>G</sup> | Depth <sup>G</sup> (mm) | Unc (k = 2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|--------------------|-------------------------|-------------|
| 750                  | 41.9                               | 0.89                            | 9.21    | 8.75    | 9.15    | 0.40               | 1.27                    | ±12.0%      |
| 835                  | 41.5                               | 0.90                            | 9.29    | 8.23    | 9.75    | 0.39               | 1.27                    | ±12.0%      |
| 1450                 | 40.5                               | 1.20                            | 7.40    | 6.88    | 7.61    | 0.49               | 1.27                    | ±12.0%      |
| 1750                 | 40.1                               | 1.37                            | 7.78    | 7.10    | 7.90    | 0.28               | 1.27                    | ±12.0%      |
| 1900                 | 40.0                               | 1.40                            | 7.93    | 7.26    | 8.03    | 0.30               | 1.27                    | ±12.0%      |
| 2000                 | 40.0                               | 1.40                            | 7.93    | 7.23    | 8.01    | 0.31               | 1.27                    | ±12.0%      |
| 2300                 | 39.5                               | 1.67                            | 7.77    | 7.09    | 7.82    | 0.32               | 1.27                    | ±12.0%      |
| 2450                 | 39.2                               | 1.80                            | 7.44    | 6.79    | 7.48    | 0.32               | 1.27                    | ±12.0%      |
| 2600                 | 39.0                               | 1.96                            | 7.36    | 6.70    | 7.41    | 0.29               | 1.27                    | ±12.0%      |
| 3300                 | 38.2                               | 2.71                            | 6.74    | 6.02    | 6.54    | 0.37               | 1.27                    | ±14.0%      |
| 3500                 | 37.9                               | 2.91                            | 7.08    | 6.34    | 6.93    | 0.37               | 1.27                    | ±14.0%      |
| 3700                 | 37.7                               | 3.12                            | 7.06    | 6.33    | 6.89    | 0.36               | 1.27                    | ±14.0%      |
| 3900                 | 37.5                               | 3.32                            | 7.38    | 6.56    | 7.19    | 0.37               | 1.27                    | ±14.0%      |
| 4100                 | 37.2                               | 3.53                            | 6.69    | 5.98    | 6.54    | 0.38               | 1.27                    | ±14.0%      |
| 4200                 | 37.1                               | 3.63                            | 6.35    | 5.62    | 6.14    | 0.38               | 1.27                    | ±14.0%      |
| 4400                 | 36.9                               | 3.84                            | 6.24    | 5.53    | 6.07    | 0.39               | 1.27                    | ±14.0%      |
| 4600                 | 36.7                               | 4.04                            | 6.40    | 5.67    | 6.23    | 0.38               | 1.27                    | ±14.0%      |
| 4800                 | 36.4                               | 4.25                            | 6.33    | 5.57    | 6.13    | 0.38               | 1.27                    | ±14.0%      |
| 4950                 | 36.3                               | 4.40                            | 5.70    | 5.10    | 5.65    | 0.43               | 1.36                    | ±14.0%      |
| 5250                 | 35.9                               | 4.71                            | 5.34    | 4.76    | 5.24    | 0.36               | 1.64                    | ±14.0%      |
| 5600                 | 35.5                               | 5.07                            | 4.90    | 4.30    | 4.75    | 0.42               | 1.67                    | ±14.0%      |
| 5750                 | 35.4                               | 5.22                            | 5.19    | 4.53    | 5.01    | 0.38               | 1.84                    | ±14.0%      |

<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. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±110 MHz.

<sup>F</sup> The probes are calibrated using tissue simulating liquids (TSL) that deviate for  $\epsilon$  and  $\sigma$  by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10%. If TSL with deviations from the target of less than ±5% are used, the calibration uncertainties are 11.1% for 0.7 - 3 GHz and 13.1% for 3 - 6 GHz.

<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.

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**Parameters of Probe: EX3DV4 - SN:3857****Calibration Parameter Determined in Head Tissue Simulating Media**

| <b>f (MHz)<sup>C</sup></b> | <b>Relative Permittivity<sup>F</sup></b> | <b>Conductivity<sup>F</sup> (S/m)</b> | <b>ConvF X</b> | <b>ConvF Y</b> | <b>ConvF Z</b> | <b>Alpha<sup>G</sup></b> | <b>Depth<sup>G</sup> (mm)</b> | <b>Unc (k = 2)</b> |
|----------------------------|------------------------------------------|---------------------------------------|----------------|----------------|----------------|--------------------------|-------------------------------|--------------------|
| 6500                       | 34.5                                     | 6.07                                  | 5.80           | 5.17           | 5.72           | 0.20                     | 2.50                          | ±18.6%             |

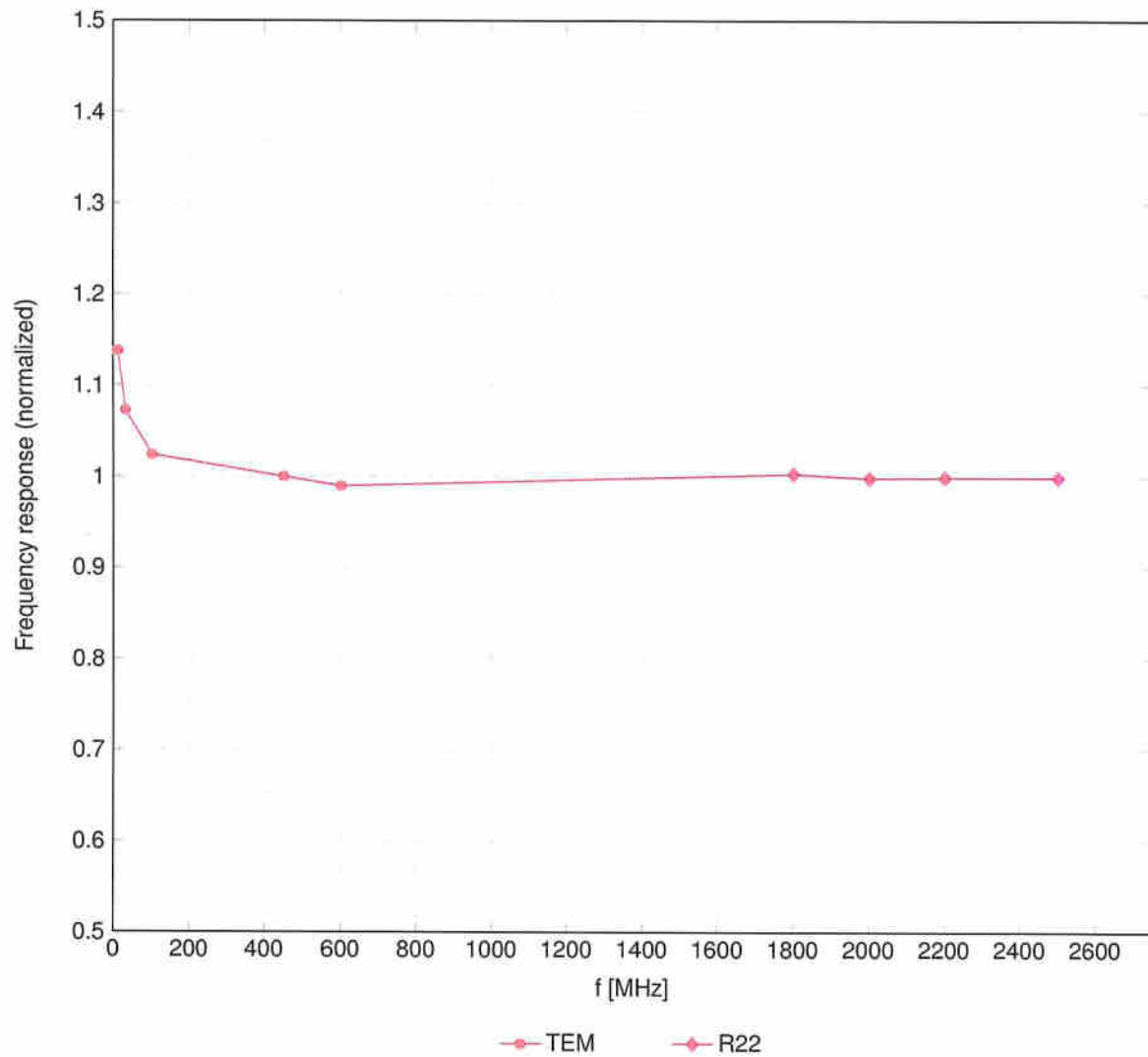
<sup>C</sup> Frequency validity at 6.5 GHz is -600/+700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

<sup>F</sup> The probes are calibrated using tissue simulating liquids (TSL) that deviate for  $\epsilon$  and  $\sigma$  by less than ±10% from the target values (typically better than ±6%) and are valid for TSL with deviations of up to ±10%.

<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; below ±2% for frequencies between 3–6 GHz; and below ±4% for frequencies between 6–10 GHz at any distance larger than half the probe tip diameter from the boundary.

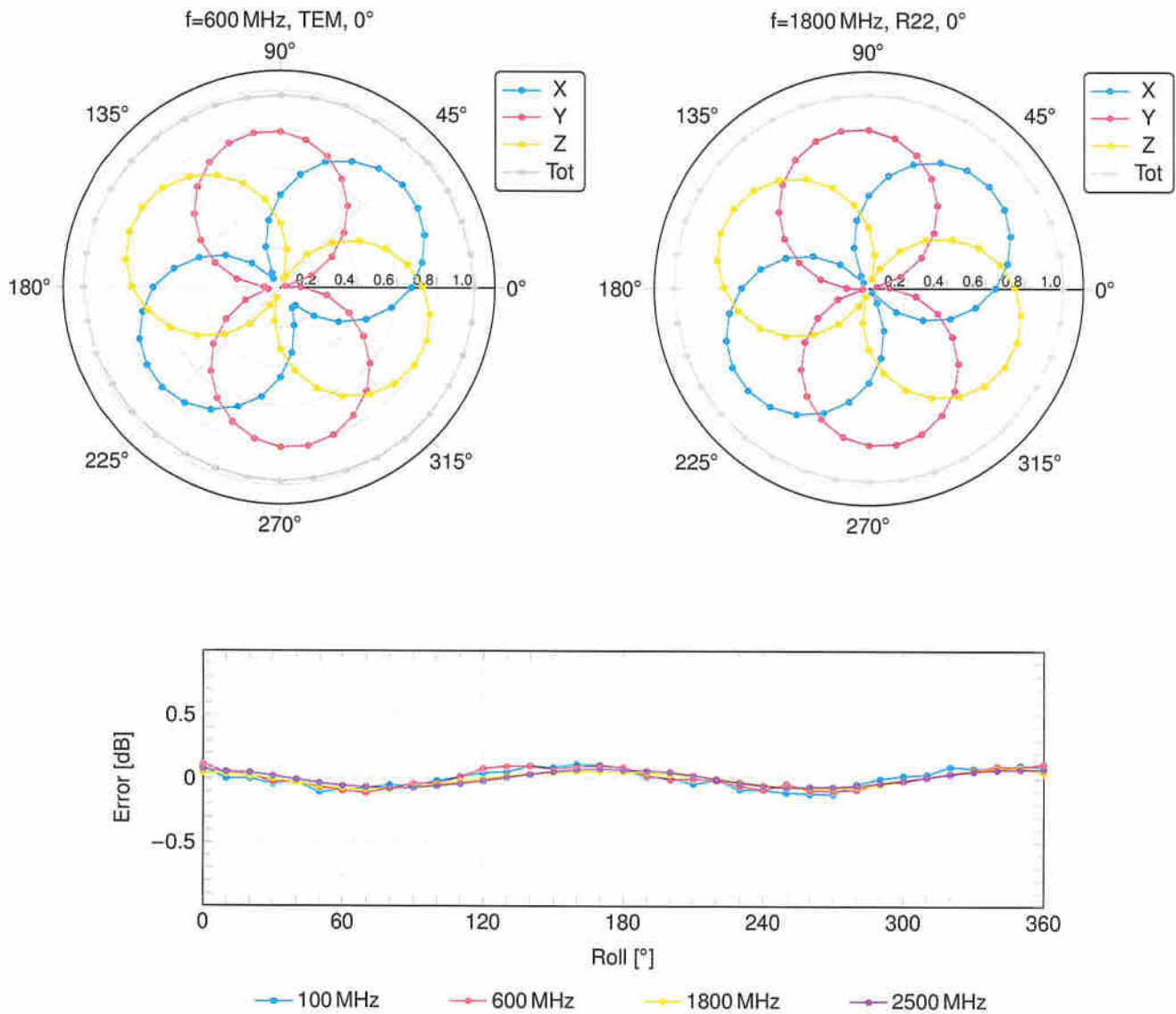
## Frequency Response of E-Field

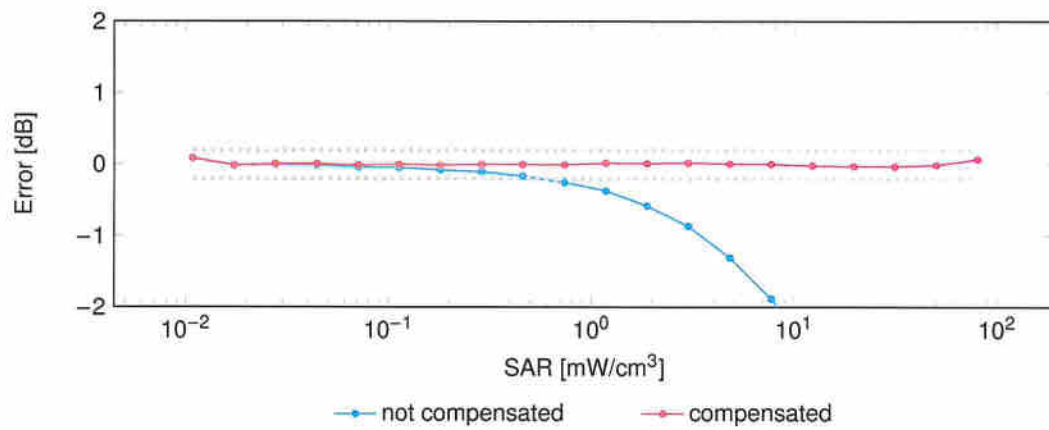
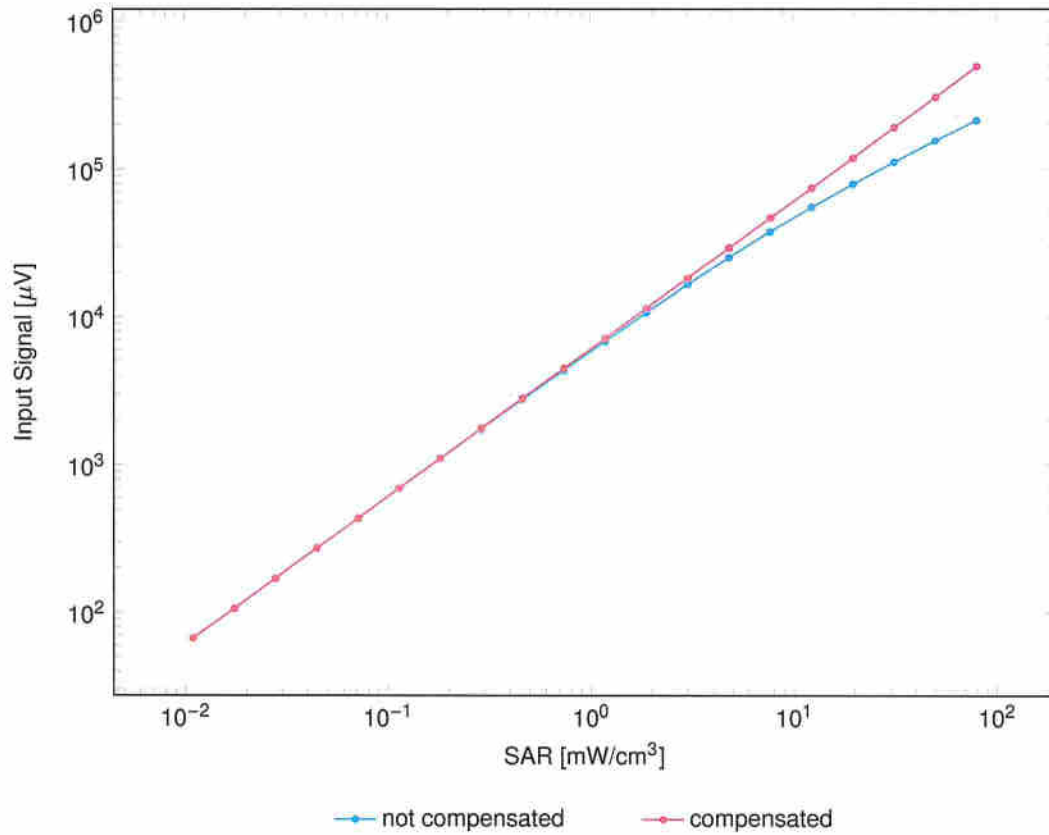
(TEM-Cell:ifi110 EXX, Waveguide:R22)



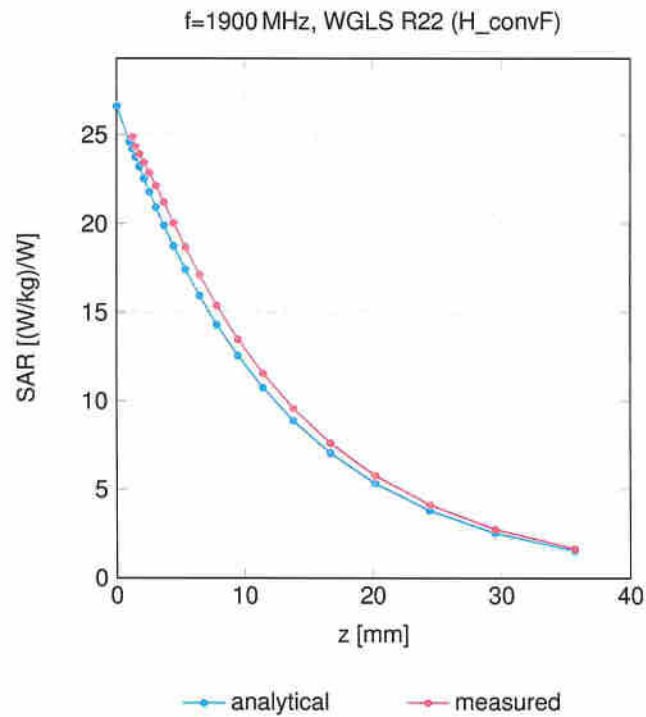
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )



**Receiving Pattern ( $\phi$ ),  $\vartheta = 0^\circ$** Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

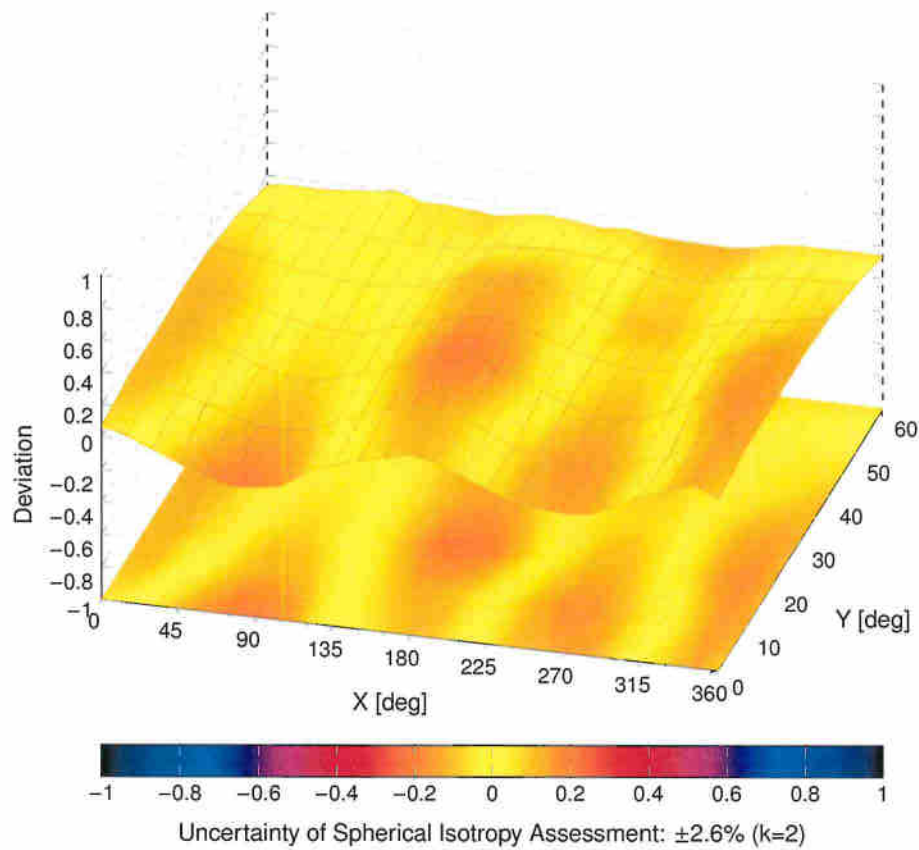
**Dynamic Range  $f(\text{SAR}_{\text{head}})$** (TEM cell,  $f_{\text{eval}} = 1900\text{MHz}$ )Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

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





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## Appendix: Modulation Calibration Parameters

| UID   | Rev | Communication System Name                           | Group     | PAR (dB) | Unc <sup>E</sup> $k = 2$ |
|-------|-----|-----------------------------------------------------|-----------|----------|--------------------------|
| 0     |     | CW                                                  | CW        | 0.00     | ±4.7                     |
| 10010 | CAB | SAR Validation (Square, 100 ms, 10 ms)              | Test      | 10.00    | ±9.6                     |
| 10011 | CAC | UMTS-FDD (WCDMA)                                    | WCDMA     | 2.91     | ±9.6                     |
| 10012 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)            | WLAN      | 1.87     | ±9.6                     |
| 10013 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)       | WLAN      | 9.46     | ±9.6                     |
| 10021 | DAC | GSM-FDD (TDMA, GMSK)                                | GSM       | 9.39     | ±9.6                     |
| 10023 | DAC | GPRS-FDD (TDMA, GMSK, TN 0)                         | GSM       | 9.57     | ±9.6                     |
| 10024 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1)                       | GSM       | 6.56     | ±9.6                     |
| 10025 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0)                         | GSM       | 12.62    | ±9.6                     |
| 10026 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1)                       | GSM       | 9.55     | ±9.6                     |
| 10027 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2)                     | GSM       | 4.80     | ±9.6                     |
| 10028 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)                   | GSM       | 3.55     | ±9.6                     |
| 10029 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2)                     | GSM       | 7.78     | ±9.6                     |
| 10030 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH1)                 | Bluetooth | 5.30     | ±9.6                     |
| 10031 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH3)                 | Bluetooth | 1.87     | ±9.6                     |
| 10032 | CAA | IEEE 802.15.1 Bluetooth (GFSK, DH5)                 | Bluetooth | 1.16     | ±9.6                     |
| 10033 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)           | Bluetooth | 7.74     | ±9.6                     |
| 10034 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)           | Bluetooth | 4.53     | ±9.6                     |
| 10035 | CAA | IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)           | Bluetooth | 3.83     | ±9.6                     |
| 10036 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH1)               | Bluetooth | 8.01     | ±9.6                     |
| 10037 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH3)               | Bluetooth | 4.77     | ±9.6                     |
| 10038 | CAA | IEEE 802.15.1 Bluetooth (8-DPSK, DH5)               | Bluetooth | 4.10     | ±9.6                     |
| 10039 | CAB | CDMA2000 (1xRTT, RC1)                               | CDMA2000  | 4.57     | ±9.6                     |
| 10042 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate) | AMPS      | 7.78     | ±9.6                     |
| 10044 | CAA | IS-91/EIA/TIA-553 FDD (FDMA, FM)                    | AMPS      | 0.00     | ±9.6                     |
| 10048 | CAA | DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)           | DECT      | 13.80    | ±9.6                     |
| 10049 | CAA | DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)         | DECT      | 10.79    | ±9.6                     |
| 10056 | CAA | UMTS-TDD (TD-SCDMA, 1.28 Mcps)                      | TD-SCDMA  | 11.01    | ±9.6                     |
| 10058 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)                   | GSM       | 6.52     | ±9.6                     |
| 10059 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)            | WLAN      | 2.12     | ±9.6                     |
| 10060 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)          | WLAN      | 2.83     | ±9.6                     |
| 10061 | CAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)           | WLAN      | 3.60     | ±9.6                     |
| 10062 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)            | WLAN      | 8.68     | ±9.6                     |
| 10063 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)            | WLAN      | 8.63     | ±9.6                     |
| 10064 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)           | WLAN      | 9.09     | ±9.6                     |
| 10065 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)           | WLAN      | 9.00     | ±9.6                     |
| 10066 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)           | WLAN      | 9.38     | ±9.6                     |
| 10067 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)           | WLAN      | 10.12    | ±9.6                     |
| 10068 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)           | WLAN      | 10.24    | ±9.6                     |
| 10069 | CAE | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)           | WLAN      | 10.56    | ±9.6                     |
| 10071 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)       | WLAN      | 9.83     | ±9.6                     |
| 10072 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)      | WLAN      | 9.62     | ±9.6                     |
| 10073 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)      | WLAN      | 9.94     | ±9.6                     |
| 10074 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)      | WLAN      | 10.30    | ±9.6                     |
| 10075 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)      | WLAN      | 10.77    | ±9.6                     |
| 10076 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)      | WLAN      | 10.94    | ±9.6                     |
| 10077 | CAB | IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)      | WLAN      | 11.00    | ±9.6                     |
| 10081 | CAB | CDMA2000 (1xRTT, RC3)                               | CDMA2000  | 3.97     | ±9.6                     |
| 10082 | CAB | IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate) | AMPS      | 4.77     | ±9.6                     |
| 10090 | DAC | GPRS-FDD (TDMA, GMSK, TN 0-4)                       | GSM       | 6.56     | ±9.6                     |
| 10097 | CAC | UMTS-FDD (HSDPA)                                    | WCDMA     | 3.98     | ±9.6                     |
| 10098 | CAC | UMTS-FDD (HSUPA, Subtest 2)                         | WCDMA     | 3.98     | ±9.6                     |
| 10099 | DAC | EDGE-FDD (TDMA, 8PSK, TN 0-4)                       | GSM       | 9.55     | ±9.6                     |
| 10100 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | LTE-FDD   | 5.67     | ±9.6                     |
| 10101 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | LTE-FDD   | 6.42     | ±9.6                     |
| 10102 | CAF | LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | LTE-FDD   | 6.60     | ±9.6                     |
| 10103 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)            | LTE-TDD   | 9.29     | ±9.6                     |
| 10104 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)          | LTE-TDD   | 9.97     | ±9.6                     |
| 10105 | CAH | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)          | LTE-TDD   | 10.01    | ±9.6                     |
| 10108 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)            | LTE-FDD   | 5.80     | ±9.6                     |
| 10109 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)          | LTE-FDD   | 6.43     | ±9.6                     |
| 10110 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)             | LTE-FDD   | 5.75     | ±9.6                     |
| 10111 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)           | LTE-FDD   | 6.44     | ±9.6                     |

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| UID   | Rev | Communication System Name                      | Group   | PAR (dB) | Unc <sup>E</sup> k = 2 |
|-------|-----|------------------------------------------------|---------|----------|------------------------|
| 10112 | CAH | LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)     | LTE-FDD | 6.59     | ±9.6                   |
| 10113 | CAH | LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)      | LTE-FDD | 6.62     | ±9.6                   |
| 10114 | CAE | IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)  | WLAN    | 8.10     | ±9.6                   |
| 10115 | CAE | IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)  | WLAN    | 8.46     | ±9.6                   |
| 10116 | CAE | IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) | WLAN    | 8.15     | ±9.6                   |
| 10117 | CAE | IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)       | WLAN    | 8.07     | ±9.6                   |
| 10118 | CAE | IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)       | WLAN    | 8.59     | ±9.6                   |
| 10119 | CAE | IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)      | WLAN    | 8.13     | ±9.6                   |
| 10140 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)     | LTE-FDD | 6.49     | ±9.6                   |
| 10141 | CAF | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)     | LTE-FDD | 6.53     | ±9.6                   |
| 10142 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)        | LTE-FDD | 5.73     | ±9.6                   |
| 10143 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)      | LTE-FDD | 6.35     | ±9.6                   |
| 10144 | CAF | LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)      | LTE-FDD | 6.65     | ±9.6                   |
| 10145 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)      | LTE-FDD | 5.76     | ±9.6                   |
| 10146 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)    | LTE-FDD | 6.41     | ±9.6                   |
| 10147 | CAG | LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)    | LTE-FDD | 6.72     | ±9.6                   |
| 10149 | CAF | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)      | LTE-FDD | 6.42     | ±9.6                   |
| 10150 | CAF | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)      | LTE-FDD | 6.60     | ±9.6                   |
| 10151 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)        | LTE-TDD | 9.28     | ±9.6                   |
| 10152 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)      | LTE-TDD | 9.92     | ±9.6                   |
| 10153 | CAH | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)      | LTE-TDD | 10.05    | ±9.6                   |
| 10154 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)        | LTE-FDD | 5.75     | ±9.6                   |
| 10155 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)      | LTE-FDD | 6.43     | ±9.6                   |
| 10156 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)         | LTE-FDD | 5.79     | ±9.6                   |
| 10157 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)       | LTE-FDD | 6.49     | ±9.6                   |
| 10158 | CAH | LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)      | LTE-FDD | 6.62     | ±9.6                   |
| 10159 | CAH | LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)       | LTE-FDD | 6.56     | ±9.6                   |
| 10160 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)        | LTE-FDD | 5.82     | ±9.6                   |
| 10161 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)      | LTE-FDD | 6.43     | ±9.6                   |
| 10162 | CAF | LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)      | LTE-FDD | 6.58     | ±9.6                   |
| 10166 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)       | LTE-FDD | 5.46     | ±9.6                   |
| 10167 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)     | LTE-FDD | 6.21     | ±9.6                   |
| 10168 | CAG | LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)     | LTE-FDD | 6.79     | ±9.6                   |
| 10169 | CAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)          | LTE-FDD | 5.73     | ±9.6                   |
| 10170 | CAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)        | LTE-FDD | 6.52     | ±9.6                   |
| 10171 | AAF | LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)        | LTE-FDD | 6.49     | ±9.6                   |
| 10172 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)          | LTE-TDD | 9.21     | ±9.6                   |
| 10173 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)        | LTE-TDD | 9.48     | ±9.6                   |
| 10174 | CAH | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)        | LTE-TDD | 10.25    | ±9.6                   |
| 10175 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)          | LTE-FDD | 5.72     | ±9.6                   |
| 10176 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)        | LTE-FDD | 6.52     | ±9.6                   |
| 10177 | CAJ | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)           | LTE-FDD | 5.73     | ±9.6                   |
| 10178 | CAH | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)         | LTE-FDD | 6.52     | ±9.6                   |
| 10179 | CAH | LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)        | LTE-FDD | 6.50     | ±9.6                   |
| 10180 | CAH | LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)         | LTE-FDD | 6.50     | ±9.6                   |
| 10181 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)          | LTE-FDD | 5.72     | ±9.6                   |
| 10182 | CAF | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)        | LTE-FDD | 6.52     | ±9.6                   |
| 10183 | AAE | LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)        | LTE-FDD | 6.50     | ±9.6                   |
| 10184 | CAF | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)           | LTE-FDD | 5.73     | ±9.6                   |
| 10185 | CAF | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)         | LTE-FDD | 6.51     | ±9.6                   |
| 10186 | AAF | LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)         | LTE-FDD | 6.50     | ±9.6                   |
| 10187 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)         | LTE-FDD | 5.73     | ±9.6                   |
| 10188 | CAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)       | LTE-FDD | 6.52     | ±9.6                   |
| 10189 | AAG | LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)       | LTE-FDD | 6.50     | ±9.6                   |
| 10193 | CAE | IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)   | WLAN    | 8.09     | ±9.6                   |
| 10194 | CAE | IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)  | WLAN    | 8.12     | ±9.6                   |
| 10195 | CAE | IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)  | WLAN    | 8.21     | ±9.6                   |
| 10196 | CAE | IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)        | WLAN    | 8.10     | ±9.6                   |
| 10197 | CAE | IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)       | WLAN    | 8.13     | ±9.6                   |
| 10198 | CAE | IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)       | WLAN    | 8.27     | ±9.6                   |
| 10219 | CAE | IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)        | WLAN    | 8.03     | ±9.6                   |
| 10220 | CAE | IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)     | WLAN    | 8.13     | ±9.6                   |
| 10221 | CAE | IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)     | WLAN    | 8.27     | ±9.6                   |
| 10222 | CAE | IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)         | WLAN    | 8.06     | ±9.6                   |
| 10223 | CAE | IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)       | WLAN    | 8.48     | ±9.6                   |
| 10224 | CAE | IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)      | WLAN    | 8.08     | ±9.6                   |



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| UID   | Rev | Communication System Name                                            | Group    | PAR (dB) | Unc <sup>E</sup> k = 2 |
|-------|-----|----------------------------------------------------------------------|----------|----------|------------------------|
| 10225 | CAC | UMTS-FDD (HSPA+)                                                     | WCDMA    | 5.97     | ±9.6                   |
| 10226 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)                             | LTE-TDD  | 9.49     | ±9.6                   |
| 10227 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)                             | LTE-TDD  | 10.26    | ±9.6                   |
| 10228 | CAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)                               | LTE-TDD  | 9.22     | ±9.6                   |
| 10229 | CAE | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)                               | LTE-TDD  | 9.48     | ±9.6                   |
| 10230 | CAE | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)                               | LTE-TDD  | 10.25    | ±9.6                   |
| 10231 | CAE | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)                                 | LTE-TDD  | 9.19     | ±9.6                   |
| 10232 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)                               | LTE-TDD  | 9.48     | ±9.6                   |
| 10233 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)                               | LTE-TDD  | 10.25    | ±9.6                   |
| 10234 | CAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)                                 | LTE-TDD  | 9.21     | ±9.6                   |
| 10235 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)                              | LTE-TDD  | 9.48     | ±9.6                   |
| 10236 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)                              | LTE-TDD  | 10.25    | ±9.6                   |
| 10237 | CAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)                                | LTE-TDD  | 9.21     | ±9.6                   |
| 10238 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)                              | LTE-TDD  | 9.48     | ±9.6                   |
| 10239 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)                              | LTE-TDD  | 10.25    | ±9.6                   |
| 10240 | CAG | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)                                | LTE-TDD  | 9.21     | ±9.6                   |
| 10241 | CAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)                           | LTE-TDD  | 9.82     | ±9.6                   |
| 10242 | CAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)                           | LTE-TDD  | 9.86     | ±9.6                   |
| 10243 | CAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)                             | LTE-TDD  | 9.46     | ±9.6                   |
| 10244 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                             | LTE-TDD  | 10.06    | ±9.6                   |
| 10245 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                             | LTE-TDD  | 10.06    | ±9.6                   |
| 10246 | CAE | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                               | LTE-TDD  | 9.30     | ±9.6                   |
| 10247 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)                             | LTE-TDD  | 9.91     | ±9.6                   |
| 10248 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)                             | LTE-TDD  | 10.09    | ±9.6                   |
| 10249 | CAH | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)                               | LTE-TDD  | 9.29     | ±9.6                   |
| 10250 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)                            | LTE-TDD  | 9.81     | ±9.6                   |
| 10251 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)                            | LTE-TDD  | 10.17    | ±9.6                   |
| 10252 | CAH | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)                              | LTE-TDD  | 9.24     | ±9.6                   |
| 10253 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)                            | LTE-TDD  | 9.90     | ±9.6                   |
| 10254 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)                            | LTE-TDD  | 10.14    | ±9.6                   |
| 10255 | CAG | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)                              | LTE-TDD  | 9.20     | ±9.6                   |
| 10256 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)                          | LTE-TDD  | 9.96     | ±9.6                   |
| 10257 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)                          | LTE-TDD  | 10.08    | ±9.6                   |
| 10258 | CAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)                            | LTE-TDD  | 9.34     | ±9.6                   |
| 10259 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)                            | LTE-TDD  | 9.98     | ±9.6                   |
| 10260 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)                            | LTE-TDD  | 9.97     | ±9.6                   |
| 10261 | CAE | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)                              | LTE-TDD  | 9.24     | ±9.6                   |
| 10262 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)                            | LTE-TDD  | 9.83     | ±9.6                   |
| 10263 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)                            | LTE-TDD  | 10.16    | ±9.6                   |
| 10264 | CAH | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)                              | LTE-TDD  | 9.23     | ±9.6                   |
| 10265 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)                           | LTE-TDD  | 9.92     | ±9.6                   |
| 10266 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)                           | LTE-TDD  | 10.07    | ±9.6                   |
| 10267 | CAH | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)                             | LTE-TDD  | 9.30     | ±9.6                   |
| 10268 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)                           | LTE-TDD  | 10.06    | ±9.6                   |
| 10269 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)                           | LTE-TDD  | 10.13    | ±9.6                   |
| 10270 | CAG | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                             | LTE-TDD  | 9.58     | ±9.6                   |
| 10274 | CAC | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)                            | WCDMA    | 4.87     | ±9.6                   |
| 10275 | CAC | UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)                             | WCDMA    | 3.96     | ±9.6                   |
| 10277 | CAA | PHS (QPSK)                                                           | PHS      | 11.81    | ±9.6                   |
| 10278 | CAA | PHS (QPSK, BW 884 MHz, Rolloff 0.5)                                  | PHS      | 11.81    | ±9.6                   |
| 10279 | CAA | PHS (QPSK, BW 884 MHz, Rolloff 0.38)                                 | PHS      | 12.18    | ±9.6                   |
| 10290 | AAB | CDMA2000, RC1, SO55, Full Rate                                       | CDMA2000 | 3.91     | ±9.6                   |
| 10291 | AAB | CDMA2000, RC3, SO55, Full Rate                                       | CDMA2000 | 3.46     | ±9.6                   |
| 10292 | AAB | CDMA2000, RC3, SO32, Full Rate                                       | CDMA2000 | 3.39     | ±9.6                   |
| 10293 | AAB | CDMA2000, RC3, SO3, Full Rate                                        | CDMA2000 | 3.50     | ±9.6                   |
| 10295 | AAB | CDMA2000, RC1, SO3, 1/8th Rate 25 fr.                                | CDMA2000 | 12.49    | ±9.6                   |
| 10297 | AAE | LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)                              | LTE-FDD  | 5.81     | ±9.6                   |
| 10298 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)                               | LTE-FDD  | 5.72     | ±9.6                   |
| 10299 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)                             | LTE-FDD  | 6.39     | ±9.6                   |
| 10300 | AAE | LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)                             | LTE-FDD  | 6.60     | ±9.6                   |
| 10301 | AAA | IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)                 | WiMAX    | 12.03    | ±9.6                   |
| 10302 | AAA | IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols) | WiMAX    | 12.57    | ±9.6                   |
| 10303 | AAA | IEEE 802.16e WiMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)                | WiMAX    | 12.52    | ±9.6                   |
| 10304 | AAA | IEEE 802.16e WiMAX (29:18, 5 ms, 10 MHz, 64QAM, PUSC)                | WiMAX    | 11.86    | ±9.6                   |
| 10305 | AAA | IEEE 802.16e WiMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)   | WiMAX    | 15.24    | ±9.6                   |
| 10306 | AAA | IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 64QAM, PUSC, 18 symbols)   | WiMAX    | 14.67    | ±9.6                   |

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| UID   | Rev | Communication System Name                                                       | Group    | PAR (dB) | Unc <sup>E</sup> k = 2 |
|-------|-----|---------------------------------------------------------------------------------|----------|----------|------------------------|
| 10307 | AAA | IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)               | WiMAX    | 14.49    | ±9.6                   |
| 10308 | AAA | IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)                          | WiMAX    | 14.46    | ±9.6                   |
| 10309 | AAA | IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)           | WiMAX    | 14.58    | ±9.6                   |
| 10310 | AAA | IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)            | WiMAX    | 14.57    | ±9.6                   |
| 10311 | AAE | LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)                                        | LTE-FDD  | 6.06     | ±9.6                   |
| 10313 | AAA | iDEN 1:3                                                                        | iDEN     | 10.51    | ±9.6                   |
| 10314 | AAA | iDEN 1:6                                                                        | iDEN     | 13.48    | ±9.6                   |
| 10315 | AAB | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)                       | WLAN     | 1.71     | ±9.6                   |
| 10316 | AAB | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)                   | WLAN     | 8.36     | ±9.6                   |
| 10317 | AAE | IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)                         | WLAN     | 8.36     | ±9.6                   |
| 10352 | AAA | Pulse Waveform (200Hz, 10%)                                                     | Generic  | 10.00    | ±9.6                   |
| 10353 | AAA | Pulse Waveform (200Hz, 20%)                                                     | Generic  | 6.99     | ±9.6                   |
| 10354 | AAA | Pulse Waveform (200Hz, 40%)                                                     | Generic  | 3.98     | ±9.6                   |
| 10355 | AAA | Pulse Waveform (200Hz, 60%)                                                     | Generic  | 2.22     | ±9.6                   |
| 10356 | AAA | Pulse Waveform (200Hz, 80%)                                                     | Generic  | 0.97     | ±9.6                   |
| 10387 | AAA | QPSK Waveform, 1 MHz                                                            | Generic  | 5.10     | ±9.6                   |
| 10388 | AAA | QPSK Waveform, 10 MHz                                                           | Generic  | 5.22     | ±9.6                   |
| 10396 | AAA | 64-QAM Waveform, 100 kHz                                                        | Generic  | 6.27     | ±9.6                   |
| 10399 | AAA | 64-QAM Waveform, 40 MHz                                                         | Generic  | 6.27     | ±9.6                   |
| 10400 | AAF | IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)                            | WLAN     | 8.37     | ±9.6                   |
| 10401 | AAF | IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)                            | WLAN     | 8.60     | ±9.6                   |
| 10402 | AAF | IEEE 802.11ac WiFi (80 MHz, 64-QAM, 99pc duty cycle)                            | WLAN     | 8.53     | ±9.6                   |
| 10403 | AAB | CDMA2000 (1xEV-DO, Rev. 0)                                                      | CDMA2000 | 3.76     | ±9.6                   |
| 10404 | AAB | CDMA2000 (1xEV-DO, Rev. A)                                                      | CDMA2000 | 3.77     | ±9.6                   |
| 10406 | AAB | CDMA2000, RC3, SO32, SCH0, Full Rate                                            | CDMA2000 | 5.22     | ±9.6                   |
| 10410 | AAH | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4) | LTE-TDD  | 7.82     | ±9.6                   |
| 10414 | AAA | WLAN CCDF, 64-QAM, 40 MHz                                                       | Generic  | 8.54     | ±9.6                   |
| 10415 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)                       | WLAN     | 1.54     | ±9.6                   |
| 10416 | AAA | IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)                   | WLAN     | 8.23     | ±9.6                   |
| 10417 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)                       | WLAN     | 8.23     | ±9.6                   |
| 10418 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)   | WLAN     | 8.14     | ±9.6                   |
| 10419 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)  | WLAN     | 8.19     | ±9.6                   |
| 10422 | AAD | IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)                                    | WLAN     | 8.32     | ±9.6                   |
| 10423 | AAD | IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)                                 | WLAN     | 8.47     | ±9.6                   |
| 10424 | AAD | IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)                                 | WLAN     | 8.40     | ±9.6                   |
| 10425 | AAD | IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)                                     | WLAN     | 8.41     | ±9.6                   |
| 10426 | AAD | IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)                                   | WLAN     | 8.45     | ±9.6                   |
| 10427 | AAD | IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)                                  | WLAN     | 8.41     | ±9.6                   |
| 10430 | AAE | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)                                                | LTE-FDD  | 8.28     | ±9.6                   |
| 10431 | AAE | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)                                               | LTE-FDD  | 8.38     | ±9.6                   |
| 10432 | AAD | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)                                               | LTE-FDD  | 8.34     | ±9.6                   |
| 10433 | AAD | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)                                               | LTE-FDD  | 8.34     | ±9.6                   |
| 10434 | AAB | W-CDMA (BS Test Model 1, 64 DPCH)                                               | WCDMA    | 8.60     | ±9.6                   |
| 10435 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                  | LTE-TDD  | 7.82     | ±9.6                   |
| 10447 | AAE | LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)                                  | LTE-FDD  | 7.56     | ±9.6                   |
| 10448 | AAE | LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)                                 | LTE-FDD  | 7.53     | ±9.6                   |
| 10449 | AAD | LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)                                 | LTE-FDD  | 7.51     | ±9.6                   |
| 10450 | AAD | LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)                                 | LTE-FDD  | 7.48     | ±9.6                   |
| 10451 | AAB | W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)                                 | WCDMA    | 7.59     | ±9.6                   |
| 10453 | AAE | Validation (Square, 10 ms, 1 ms)                                                | Test     | 10.00    | ±9.6                   |
| 10456 | AAD | IEEE 802.11ac WiFi (160 MHz, 64-QAM, 99pc duty cycle)                           | WLAN     | 8.63     | ±9.6                   |
| 10457 | AAB | UMTS-FDD (DC-HSDPA)                                                             | WCDMA    | 6.62     | ±9.6                   |
| 10458 | AAA | CDMA2000 (1xEV-DO, Rev. B, 2 carriers)                                          | CDMA2000 | 6.55     | ±9.6                   |
| 10459 | AAA | CDMA2000 (1xEV-DO, Rev. B, 3 carriers)                                          | CDMA2000 | 8.25     | ±9.6                   |
| 10460 | AAB | UMTS-FDD (WCDMA, AMR)                                                           | WCDMA    | 2.39     | ±9.6                   |
| 10461 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 7.82     | ±9.6                   |
| 10462 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)               | LTE-TDD  | 8.30     | ±9.6                   |
| 10463 | AAC | LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)               | LTE-TDD  | 8.56     | ±9.6                   |
| 10464 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                   | LTE-TDD  | 7.82     | ±9.6                   |
| 10465 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.32     | ±9.6                   |
| 10466 | AAD | LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.57     | ±9.6                   |
| 10467 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                   | LTE-TDD  | 7.82     | ±9.6                   |
| 10468 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.32     | ±9.6                   |
| 10469 | AAG | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)                 | LTE-TDD  | 8.56     | ±9.6                   |
| 10470 | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)                  | LTE-TDD  | 7.82     | ±9.6                   |
| 10471 | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)                | LTE-TDD  | 8.32     | ±9.6                   |



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| UID   | Rev | Communication System Name                                            | Group   | PAR (dB) | Unc <sup>E</sup> $k = 2$ |
|-------|-----|----------------------------------------------------------------------|---------|----------|--------------------------|
| 10472 | AAG | LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 8.57     | ±9.6                     |
| 10473 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)       | LTE-TDD | 7.82     | ±9.6                     |
| 10474 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 8.32     | ±9.6                     |
| 10475 | AAF | LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 8.57     | ±9.6                     |
| 10477 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 8.32     | ±9.6                     |
| 10478 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 8.57     | ±9.6                     |
| 10479 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 7.74     | ±9.6                     |
| 10480 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.18     | ±9.6                     |
| 10481 | AAC | LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.45     | ±9.6                     |
| 10482 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)      | LTE-TDD | 7.71     | ±9.6                     |
| 10483 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 8.39     | ±9.6                     |
| 10484 | AAD | LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 8.47     | ±9.6                     |
| 10485 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)      | LTE-TDD | 7.59     | ±9.6                     |
| 10486 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 8.38     | ±9.6                     |
| 10487 | AAG | LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 8.60     | ±9.6                     |
| 10488 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 7.70     | ±9.6                     |
| 10489 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.31     | ±9.6                     |
| 10490 | AAG | LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.54     | ±9.6                     |
| 10491 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 7.74     | ±9.6                     |
| 10492 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.41     | ±9.6                     |
| 10493 | AAF | LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.55     | ±9.6                     |
| 10494 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 7.74     | ±9.6                     |
| 10495 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.37     | ±9.6                     |
| 10496 | AAG | LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.54     | ±9.6                     |
| 10497 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 7.67     | ±9.6                     |
| 10498 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.40     | ±9.6                     |
| 10499 | AAC | LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9) | LTE-TDD | 8.68     | ±9.6                     |
| 10500 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 7.67     | ±9.6                     |
| 10501 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.44     | ±9.6                     |
| 10502 | AAD | LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.52     | ±9.6                     |
| 10503 | AAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)     | LTE-TDD | 7.72     | ±9.6                     |
| 10504 | AAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.31     | ±9.6                     |
| 10505 | AAG | LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)   | LTE-TDD | 8.54     | ±9.6                     |
| 10506 | AAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 7.74     | ±9.6                     |
| 10507 | AAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.36     | ±9.6                     |
| 10508 | AAG | LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.55     | ±9.6                     |
| 10509 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 7.99     | ±9.6                     |
| 10510 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.49     | ±9.6                     |
| 10511 | AAF | LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.51     | ±9.6                     |
| 10512 | AAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)    | LTE-TDD | 7.74     | ±9.6                     |
| 10513 | AAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.42     | ±9.6                     |
| 10514 | AAG | LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)  | LTE-TDD | 8.45     | ±9.6                     |
| 10515 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)            | WLAN    | 1.58     | ±9.6                     |
| 10516 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)          | WLAN    | 1.57     | ±9.6                     |
| 10517 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)           | WLAN    | 1.58     | ±9.6                     |
| 10518 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)            | WLAN    | 8.23     | ±9.6                     |
| 10519 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)           | WLAN    | 8.39     | ±9.6                     |
| 10520 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)           | WLAN    | 8.12     | ±9.6                     |
| 10521 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)           | WLAN    | 7.97     | ±9.6                     |
| 10522 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)           | WLAN    | 8.45     | ±9.6                     |
| 10523 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)           | WLAN    | 8.08     | ±9.6                     |
| 10524 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)           | WLAN    | 8.27     | ±9.6                     |
| 10525 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS0, 99pc duty cycle)                   | WLAN    | 8.36     | ±9.6                     |
| 10526 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS1, 99pc duty cycle)                   | WLAN    | 8.42     | ±9.6                     |
| 10527 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS2, 99pc duty cycle)                   | WLAN    | 8.21     | ±9.6                     |
| 10528 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS3, 99pc duty cycle)                   | WLAN    | 8.36     | ±9.6                     |
| 10529 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS4, 99pc duty cycle)                   | WLAN    | 8.36     | ±9.6                     |
| 10531 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)                   | WLAN    | 8.43     | ±9.6                     |
| 10532 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS7, 99pc duty cycle)                   | WLAN    | 8.29     | ±9.6                     |
| 10533 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS8, 99pc duty cycle)                   | WLAN    | 8.38     | ±9.6                     |
| 10534 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS0, 99pc duty cycle)                   | WLAN    | 8.45     | ±9.6                     |
| 10535 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS1, 99pc duty cycle)                   | WLAN    | 8.45     | ±9.6                     |
| 10536 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS2, 99pc duty cycle)                   | WLAN    | 8.32     | ±9.6                     |
| 10537 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle)                   | WLAN    | 8.44     | ±9.6                     |
| 10538 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS4, 99pc duty cycle)                   | WLAN    | 8.54     | ±9.6                     |
| 10540 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc duty cycle)                   | WLAN    | 8.39     | ±9.6                     |

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| UID   | Rev | Communication System Name                                       | Group | PAR (dB) | Unc <sup>E</sup> $k = 2$ |
|-------|-----|-----------------------------------------------------------------|-------|----------|--------------------------|
| 10541 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duty cycle)              | WLAN  | 8.46     | ±9.6                     |
| 10542 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle)              | WLAN  | 8.65     | ±9.6                     |
| 10543 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS9, 99pc duty cycle)              | WLAN  | 8.65     | ±9.6                     |
| 10544 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS0, 99pc duty cycle)              | WLAN  | 8.47     | ±9.6                     |
| 10545 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS1, 99pc duty cycle)              | WLAN  | 8.55     | ±9.6                     |
| 10546 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS2, 99pc duty cycle)              | WLAN  | 8.35     | ±9.6                     |
| 10547 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duty cycle)              | WLAN  | 8.49     | ±9.6                     |
| 10548 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS4, 99pc duty cycle)              | WLAN  | 8.37     | ±9.6                     |
| 10550 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS6, 99pc duty cycle)              | WLAN  | 8.38     | ±9.6                     |
| 10551 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS7, 99pc duty cycle)              | WLAN  | 8.50     | ±9.6                     |
| 10552 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)              | WLAN  | 8.42     | ±9.6                     |
| 10553 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS9, 99pc duty cycle)              | WLAN  | 8.45     | ±9.6                     |
| 10554 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS0, 99pc duty cycle)             | WLAN  | 8.48     | ±9.6                     |
| 10555 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS1, 99pc duty cycle)             | WLAN  | 8.47     | ±9.6                     |
| 10556 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS2, 99pc duty cycle)             | WLAN  | 8.50     | ±9.6                     |
| 10557 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)             | WLAN  | 8.52     | ±9.6                     |
| 10558 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS4, 99pc duty cycle)             | WLAN  | 8.61     | ±9.6                     |
| 10560 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS6, 99pc duty cycle)             | WLAN  | 8.73     | ±9.6                     |
| 10561 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS7, 99pc duty cycle)             | WLAN  | 8.56     | ±9.6                     |
| 10562 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycle)             | WLAN  | 8.69     | ±9.6                     |
| 10563 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS9, 99pc duty cycle)             | WLAN  | 8.77     | ±9.6                     |
| 10564 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)  | WLAN  | 8.25     | ±9.6                     |
| 10565 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle) | WLAN  | 8.45     | ±9.6                     |
| 10566 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle) | WLAN  | 8.13     | ±9.6                     |
| 10567 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle) | WLAN  | 8.00     | ±9.6                     |
| 10568 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle) | WLAN  | 8.37     | ±9.6                     |
| 10569 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle) | WLAN  | 8.10     | ±9.6                     |
| 10570 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle) | WLAN  | 8.30     | ±9.6                     |
| 10571 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)       | WLAN  | 1.99     | ±9.6                     |
| 10572 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)       | WLAN  | 1.99     | ±9.6                     |
| 10573 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)     | WLAN  | 1.98     | ±9.6                     |
| 10574 | AAA | IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)      | WLAN  | 1.98     | ±9.6                     |
| 10575 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)  | WLAN  | 8.59     | ±9.6                     |
| 10576 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)  | WLAN  | 8.60     | ±9.6                     |
| 10577 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) | WLAN  | 8.70     | ±9.6                     |
| 10578 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) | WLAN  | 8.49     | ±9.6                     |
| 10579 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) | WLAN  | 8.36     | ±9.6                     |
| 10580 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) | WLAN  | 8.76     | ±9.6                     |
| 10581 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) | WLAN  | 8.35     | ±9.6                     |
| 10582 | AAA | IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) | WLAN  | 8.67     | ±9.6                     |
| 10583 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)       | WLAN  | 8.59     | ±9.6                     |
| 10584 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)       | WLAN  | 8.60     | ±9.6                     |
| 10585 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)      | WLAN  | 8.70     | ±9.6                     |
| 10586 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)      | WLAN  | 8.49     | ±9.6                     |
| 10587 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)      | WLAN  | 8.36     | ±9.6                     |
| 10588 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)      | WLAN  | 8.76     | ±9.6                     |
| 10589 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)      | WLAN  | 8.35     | ±9.6                     |
| 10590 | AAD | IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)      | WLAN  | 8.67     | ±9.6                     |
| 10591 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle)          | WLAN  | 8.63     | ±9.6                     |
| 10592 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)          | WLAN  | 8.79     | ±9.6                     |
| 10593 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 90pc duty cycle)          | WLAN  | 8.64     | ±9.6                     |
| 10594 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS3, 90pc duty cycle)          | WLAN  | 8.74     | ±9.6                     |
| 10595 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)          | WLAN  | 8.74     | ±9.6                     |
| 10596 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)          | WLAN  | 8.71     | ±9.6                     |
| 10597 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)          | WLAN  | 8.72     | ±9.6                     |
| 10598 | AAD | IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)          | WLAN  | 8.50     | ±9.6                     |
| 10599 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duty cycle)          | WLAN  | 8.79     | ±9.6                     |
| 10600 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS1, 90pc duty cycle)          | WLAN  | 8.88     | ±9.6                     |
| 10601 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)          | WLAN  | 8.82     | ±9.6                     |
| 10602 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)          | WLAN  | 8.94     | ±9.6                     |
| 10603 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)          | WLAN  | 9.03     | ±9.6                     |
| 10604 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)          | WLAN  | 8.76     | ±9.6                     |
| 10605 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)          | WLAN  | 8.97     | ±9.6                     |
| 10606 | AAD | IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)          | WLAN  | 8.82     | ±9.6                     |
| 10607 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS0, 90pc duty cycle)              | WLAN  | 8.64     | ±9.6                     |
| 10608 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle)              | WLAN  | 8.77     | ±9.6                     |



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| UID   | Rev | Communication System Name                              | Group     | PAR (dB) | Unc <sup>E</sup> k = 2 |
|-------|-----|--------------------------------------------------------|-----------|----------|------------------------|
| 10609 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)     | WLAN      | 8.57     | ±9.6                   |
| 10610 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)     | WLAN      | 8.78     | ±9.6                   |
| 10611 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)     | WLAN      | 8.70     | ±9.6                   |
| 10612 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)     | WLAN      | 8.77     | ±9.6                   |
| 10613 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle)     | WLAN      | 8.94     | ±9.6                   |
| 10614 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)     | WLAN      | 8.59     | ±9.6                   |
| 10615 | AAD | IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)     | WLAN      | 8.82     | ±9.6                   |
| 10616 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)     | WLAN      | 8.82     | ±9.6                   |
| 10617 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)     | WLAN      | 8.81     | ±9.6                   |
| 10618 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)     | WLAN      | 8.58     | ±9.6                   |
| 10619 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle)     | WLAN      | 8.86     | ±9.6                   |
| 10620 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)     | WLAN      | 8.87     | ±9.6                   |
| 10621 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle)     | WLAN      | 8.77     | ±9.6                   |
| 10622 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)     | WLAN      | 8.68     | ±9.6                   |
| 10623 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle)     | WLAN      | 8.82     | ±9.6                   |
| 10624 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)     | WLAN      | 8.96     | ±9.6                   |
| 10625 | AAD | IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle)     | WLAN      | 8.96     | ±9.6                   |
| 10626 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle)     | WLAN      | 8.83     | ±9.6                   |
| 10627 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)     | WLAN      | 8.88     | ±9.6                   |
| 10628 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)     | WLAN      | 8.71     | ±9.6                   |
| 10629 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)     | WLAN      | 8.85     | ±9.6                   |
| 10630 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)     | WLAN      | 8.72     | ±9.6                   |
| 10631 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle)     | WLAN      | 8.81     | ±9.6                   |
| 10632 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)     | WLAN      | 8.74     | ±9.6                   |
| 10633 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)     | WLAN      | 8.83     | ±9.6                   |
| 10634 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)     | WLAN      | 8.80     | ±9.6                   |
| 10635 | AAD | IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)     | WLAN      | 8.81     | ±9.6                   |
| 10636 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS0, 90pc duty cycle)    | WLAN      | 8.83     | ±9.6                   |
| 10637 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)    | WLAN      | 8.79     | ±9.6                   |
| 10638 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)    | WLAN      | 8.86     | ±9.6                   |
| 10639 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)    | WLAN      | 8.85     | ±9.6                   |
| 10640 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)    | WLAN      | 8.98     | ±9.6                   |
| 10641 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)    | WLAN      | 9.06     | ±9.6                   |
| 10642 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)    | WLAN      | 9.06     | ±9.6                   |
| 10643 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)    | WLAN      | 8.89     | ±9.6                   |
| 10644 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)    | WLAN      | 9.05     | ±9.6                   |
| 10645 | AAE | IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)    | WLAN      | 9.11     | ±9.6                   |
| 10646 | AAH | LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)  | LTE-TDD   | 11.96    | ±9.6                   |
| 10647 | AAG | LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7) | LTE-TDD   | 11.96    | ±9.6                   |
| 10648 | AAA | CDMA2000 (1x Advanced)                                 | CDMA2000  | 3.45     | ±9.6                   |
| 10652 | AAF | LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)         | LTE-TDD   | 6.91     | ±9.6                   |
| 10653 | AAF | LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)        | LTE-TDD   | 7.42     | ±9.6                   |
| 10654 | AAE | LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)        | LTE-TDD   | 6.96     | ±9.6                   |
| 10655 | AAF | LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)        | LTE-TDD   | 7.21     | ±9.6                   |
| 10658 | AAB | Pulse Waveform (200Hz, 10%)                            | Test      | 10.00    | ±9.6                   |
| 10659 | AAB | Pulse Waveform (200Hz, 20%)                            | Test      | 6.99     | ±9.6                   |
| 10660 | AAB | Pulse Waveform (200Hz, 40%)                            | Test      | 3.98     | ±9.6                   |
| 10661 | AAB | Pulse Waveform (200Hz, 60%)                            | Test      | 2.22     | ±9.6                   |
| 10662 | AAB | Pulse Waveform (200Hz, 80%)                            | Test      | 0.97     | ±9.6                   |
| 10670 | AAA | Bluetooth Low Energy                                   | Bluetooth | 2.19     | ±9.6                   |
| 10671 | AAC | IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)          | WLAN      | 9.09     | ±9.6                   |
| 10672 | AAC | IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)          | WLAN      | 8.57     | ±9.6                   |
| 10673 | AAC | IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)          | WLAN      | 8.78     | ±9.6                   |
| 10674 | AAC | IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)          | WLAN      | 8.74     | ±9.6                   |
| 10675 | AAC | IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)          | WLAN      | 8.90     | ±9.6                   |
| 10676 | AAC | IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)          | WLAN      | 8.77     | ±9.6                   |
| 10677 | AAC | IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)          | WLAN      | 8.73     | ±9.6                   |
| 10678 | AAC | IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)          | WLAN      | 8.78     | ±9.6                   |
| 10679 | AAC | IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)          | WLAN      | 8.89     | ±9.6                   |
| 10680 | AAC | IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)          | WLAN      | 8.80     | ±9.6                   |
| 10681 | AAC | IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)         | WLAN      | 8.62     | ±9.6                   |
| 10682 | AAC | IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)         | WLAN      | 8.83     | ±9.6                   |
| 10683 | AAC | IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)          | WLAN      | 8.42     | ±9.6                   |
| 10684 | AAC | IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)          | WLAN      | 8.26     | ±9.6                   |
| 10685 | AAC | IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)          | WLAN      | 8.33     | ±9.6                   |
| 10686 | AAC | IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)          | WLAN      | 8.28     | ±9.6                   |



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| UID   | Rev | Communication System Name                      | Group | PAR (dB) | Unc <sup>E</sup> $k = 2$ |
|-------|-----|------------------------------------------------|-------|----------|--------------------------|
| 10687 | AAC | IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)  | WLAN  | 8.45     | ±9.6                     |
| 10688 | AAC | IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)  | WLAN  | 8.29     | ±9.6                     |
| 10689 | AAC | IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)  | WLAN  | 8.55     | ±9.6                     |
| 10690 | AAC | IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)  | WLAN  | 8.29     | ±9.6                     |
| 10691 | AAC | IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)  | WLAN  | 8.25     | ±9.6                     |
| 10692 | AAC | IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)  | WLAN  | 8.29     | ±9.6                     |
| 10693 | AAC | IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle) | WLAN  | 8.25     | ±9.6                     |
| 10694 | AAC | IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle) | WLAN  | 8.57     | ±9.6                     |
| 10695 | AAC | IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)  | WLAN  | 8.78     | ±9.6                     |
| 10696 | AAC | IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)  | WLAN  | 8.91     | ±9.6                     |
| 10697 | AAC | IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)  | WLAN  | 8.61     | ±9.6                     |
| 10698 | AAC | IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)  | WLAN  | 8.89     | ±9.6                     |
| 10699 | AAC | IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)  | WLAN  | 8.82     | ±9.6                     |
| 10700 | AAC | IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)  | WLAN  | 8.73     | ±9.6                     |
| 10701 | AAC | IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)  | WLAN  | 8.86     | ±9.6                     |
| 10702 | AAC | IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)  | WLAN  | 8.70     | ±9.6                     |
| 10703 | AAC | IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)  | WLAN  | 8.82     | ±9.6                     |
| 10704 | AAC | IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)  | WLAN  | 8.56     | ±9.6                     |
| 10705 | AAC | IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle) | WLAN  | 8.69     | ±9.6                     |
| 10706 | AAC | IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle) | WLAN  | 8.66     | ±9.6                     |
| 10707 | AAC | IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)  | WLAN  | 8.32     | ±9.6                     |
| 10708 | AAC | IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)  | WLAN  | 8.55     | ±9.6                     |
| 10709 | AAC | IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)  | WLAN  | 8.33     | ±9.6                     |
| 10710 | AAC | IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)  | WLAN  | 8.29     | ±9.6                     |
| 10711 | AAC | IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)  | WLAN  | 8.39     | ±9.6                     |
| 10712 | AAC | IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)  | WLAN  | 8.67     | ±9.6                     |
| 10713 | AAC | IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)  | WLAN  | 8.33     | ±9.6                     |
| 10714 | AAC | IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)  | WLAN  | 8.26     | ±9.6                     |
| 10715 | AAC | IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)  | WLAN  | 8.45     | ±9.6                     |
| 10716 | AAC | IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)  | WLAN  | 8.30     | ±9.6                     |
| 10717 | AAC | IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle) | WLAN  | 8.48     | ±9.6                     |
| 10718 | AAC | IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle) | WLAN  | 8.24     | ±9.6                     |
| 10719 | AAC | IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)  | WLAN  | 8.81     | ±9.6                     |
| 10720 | AAC | IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)  | WLAN  | 8.87     | ±9.6                     |
| 10721 | AAC | IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)  | WLAN  | 8.76     | ±9.6                     |
| 10722 | AAC | IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)  | WLAN  | 8.55     | ±9.6                     |
| 10723 | AAC | IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)  | WLAN  | 8.70     | ±9.6                     |
| 10724 | AAC | IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)  | WLAN  | 8.90     | ±9.6                     |
| 10725 | AAC | IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)  | WLAN  | 8.74     | ±9.6                     |
| 10726 | AAC | IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)  | WLAN  | 8.72     | ±9.6                     |
| 10727 | AAC | IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)  | WLAN  | 8.66     | ±9.6                     |
| 10728 | AAC | IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)  | WLAN  | 8.65     | ±9.6                     |
| 10729 | AAC | IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle) | WLAN  | 8.64     | ±9.6                     |
| 10730 | AAC | IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle) | WLAN  | 8.67     | ±9.6                     |
| 10731 | AAC | IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)  | WLAN  | 8.42     | ±9.6                     |
| 10732 | AAC | IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)  | WLAN  | 8.46     | ±9.6                     |
| 10733 | AAC | IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)  | WLAN  | 8.40     | ±9.6                     |
| 10734 | AAC | IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)  | WLAN  | 8.25     | ±9.6                     |
| 10735 | AAC | IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)  | WLAN  | 8.33     | ±9.6                     |
| 10736 | AAC | IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)  | WLAN  | 8.27     | ±9.6                     |
| 10737 | AAC | IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)  | WLAN  | 8.36     | ±9.6                     |
| 10738 | AAC | IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)  | WLAN  | 8.42     | ±9.6                     |
| 10739 | AAC | IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)  | WLAN  | 8.29     | ±9.6                     |
| 10740 | AAC | IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)  | WLAN  | 8.48     | ±9.6                     |
| 10741 | AAC | IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle) | WLAN  | 8.40     | ±9.6                     |
| 10742 | AAC | IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle) | WLAN  | 8.43     | ±9.6                     |
| 10743 | AAC | IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle) | WLAN  | 8.94     | ±9.6                     |
| 10744 | AAC | IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle) | WLAN  | 9.16     | ±9.6                     |
| 10745 | AAC | IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle) | WLAN  | 8.93     | ±9.6                     |
| 10746 | AAC | IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle) | WLAN  | 9.11     | ±9.6                     |
| 10747 | AAC | IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle) | WLAN  | 9.04     | ±9.6                     |
| 10748 | AAC | IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle) | WLAN  | 8.93     | ±9.6                     |
| 10749 | AAC | IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle) | WLAN  | 8.90     | ±9.6                     |
| 10750 | AAC | IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle) | WLAN  | 8.79     | ±9.6                     |
| 10751 | AAC | IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle) | WLAN  | 8.82     | ±9.6                     |
| 10752 | AAC | IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle) | WLAN  | 8.81     | ±9.6                     |

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| UID   | Rev | Communication System Name                       | Group         | PAR (dB) | Unc <sup>E</sup> $k = 2$ |
|-------|-----|-------------------------------------------------|---------------|----------|--------------------------|
| 10753 | AAC | IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle) | WLAN          | 9.00     | ±9.6                     |
| 10754 | AAC | IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle) | WLAN          | 8.94     | ±9.6                     |
| 10755 | AAC | IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)  | WLAN          | 8.64     | ±9.6                     |
| 10756 | AAC | IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)  | WLAN          | 8.77     | ±9.6                     |
| 10757 | AAC | IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)  | WLAN          | 8.77     | ±9.6                     |
| 10758 | AAC | IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)  | WLAN          | 8.69     | ±9.6                     |
| 10759 | AAC | IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)  | WLAN          | 8.58     | ±9.6                     |
| 10760 | AAC | IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)  | WLAN          | 8.49     | ±9.6                     |
| 10761 | AAC | IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)  | WLAN          | 8.58     | ±9.6                     |
| 10762 | AAC | IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)  | WLAN          | 8.49     | ±9.6                     |
| 10763 | AAC | IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)  | WLAN          | 8.53     | ±9.6                     |
| 10764 | AAC | IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)  | WLAN          | 8.54     | ±9.6                     |
| 10765 | AAC | IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle) | WLAN          | 8.54     | ±9.6                     |
| 10766 | AAC | IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle) | WLAN          | 8.51     | ±9.6                     |
| 10767 | AAG | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)      | 5G NR FR1 TDD | 7.99     | ±9.6                     |
| 10768 | AAE | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 8.01     | ±9.6                     |
| 10769 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 8.01     | ±9.6                     |
| 10770 | AAE | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 8.02     | ±9.6                     |
| 10771 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 8.02     | ±9.6                     |
| 10772 | AAE | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 8.23     | ±9.6                     |
| 10773 | AAF | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 8.03     | ±9.6                     |
| 10774 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)     | 5G NR FR1 TDD | 8.02     | ±9.6                     |
| 10775 | AAF | 5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)    | 5G NR FR1 TDD | 8.31     | ±9.6                     |
| 10776 | AAE | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.30     | ±9.6                     |
| 10777 | AAC | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.30     | ±9.6                     |
| 10778 | AAE | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.34     | ±9.6                     |
| 10779 | AAC | 5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.42     | ±9.6                     |
| 10780 | AAE | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.38     | ±9.6                     |
| 10781 | AAF | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.38     | ±9.6                     |
| 10782 | AAE | 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.43     | ±9.6                     |
| 10783 | AAG | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)   | 5G NR FR1 TDD | 8.31     | ±9.6                     |
| 10784 | AAE | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.29     | ±9.6                     |
| 10785 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.40     | ±9.6                     |
| 10786 | AAE | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.35     | ±9.6                     |
| 10787 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.44     | ±9.6                     |
| 10788 | AAE | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.39     | ±9.6                     |
| 10789 | AAF | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.37     | ±9.6                     |
| 10790 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)  | 5G NR FR1 TDD | 8.39     | ±9.6                     |
| 10791 | AAG | 5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 7.83     | ±9.6                     |
| 10792 | AAE | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.92     | ±9.6                     |
| 10793 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.95     | ±9.6                     |
| 10794 | AAE | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.82     | ±9.6                     |
| 10795 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.84     | ±9.6                     |
| 10796 | AAE | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.82     | ±9.6                     |
| 10797 | AAF | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 8.01     | ±9.6                     |
| 10798 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.89     | ±9.6                     |
| 10799 | AAF | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.93     | ±9.6                     |
| 10801 | AAF | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.89     | ±9.6                     |
| 10802 | AAE | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 7.87     | ±9.6                     |
| 10803 | AAF | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 7.93     | ±9.6                     |
| 10805 | AAE | 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.34     | ±9.6                     |
| 10806 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.37     | ±9.6                     |
| 10809 | AAE | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.34     | ±9.6                     |
| 10810 | AAF | 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.34     | ±9.6                     |
| 10812 | AAF | 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.35     | ±9.6                     |
| 10817 | AAG | 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 8.35     | ±9.6                     |
| 10818 | AAE | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.34     | ±9.6                     |
| 10819 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.33     | ±9.6                     |
| 10820 | AAE | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.30     | ±9.6                     |
| 10821 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.41     | ±9.6                     |
| 10822 | AAE | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.41     | ±9.6                     |
| 10823 | AAF | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.36     | ±9.6                     |
| 10824 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.39     | ±9.6                     |
| 10825 | AAF | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.41     | ±9.6                     |
| 10827 | AAF | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.42     | ±9.6                     |
| 10828 | AAE | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)  | 5G NR FR1 TDD | 8.43     | ±9.6                     |



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| UID   | Rev | Communication System Name                            | Group         | PAR (dB) | Unc <sup>E</sup> k = 2 |
|-------|-----|------------------------------------------------------|---------------|----------|------------------------|
| 10829 | AAF | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 8.40     | ±9.6                   |
| 10830 | AAE | 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.63     | ±9.6                   |
| 10831 | AAD | 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.73     | ±9.6                   |
| 10832 | AAE | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.74     | ±9.6                   |
| 10833 | AAD | 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70     | ±9.6                   |
| 10834 | AAE | 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.75     | ±9.6                   |
| 10835 | AAF | 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70     | ±9.6                   |
| 10836 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.66     | ±9.6                   |
| 10837 | AAF | 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.68     | ±9.6                   |
| 10839 | AAF | 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.70     | ±9.6                   |
| 10840 | AAE | 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)          | 5G NR FR1 TDD | 7.67     | ±9.6                   |
| 10841 | AAF | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)         | 5G NR FR1 TDD | 7.71     | ±9.6                   |
| 10843 | AAD | 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 8.49     | ±9.6                   |
| 10844 | AAE | 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 8.34     | ±9.6                   |
| 10846 | AAE | 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)        | 5G NR FR1 TDD | 8.41     | ±9.6                   |
| 10854 | AAE | 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.34     | ±9.6                   |
| 10855 | AAD | 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.36     | ±9.6                   |
| 10856 | AAE | 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.37     | ±9.6                   |
| 10857 | AAD | 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.35     | ±9.6                   |
| 10858 | AAE | 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.36     | ±9.6                   |
| 10859 | AAF | 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.34     | ±9.6                   |
| 10860 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.41     | ±9.6                   |
| 10861 | AAF | 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.40     | ±9.6                   |
| 10863 | AAF | 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.41     | ±9.6                   |
| 10864 | AAE | 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)       | 5G NR FR1 TDD | 8.37     | ±9.6                   |
| 10865 | AAF | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)      | 5G NR FR1 TDD | 8.41     | ±9.6                   |
| 10866 | AAF | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.68     | ±9.6                   |
| 10868 | AAF | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.89     | ±9.6                   |
| 10869 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 5.75     | ±9.6                   |
| 10870 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)  | 5G NR FR2 TDD | 5.86     | ±9.6                   |
| 10871 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)    | 5G NR FR2 TDD | 5.75     | ±9.6                   |
| 10872 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz) | 5G NR FR2 TDD | 6.52     | ±9.6                   |
| 10873 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 6.61     | ±9.6                   |
| 10874 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz) | 5G NR FR2 TDD | 6.65     | ±9.6                   |
| 10875 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)        | 5G NR FR2 TDD | 7.78     | ±9.6                   |
| 10876 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)     | 5G NR FR2 TDD | 8.39     | ±9.6                   |
| 10877 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)       | 5G NR FR2 TDD | 7.95     | ±9.6                   |
| 10878 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)    | 5G NR FR2 TDD | 8.41     | ±9.6                   |
| 10879 | AAE | 5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)       | 5G NR FR2 TDD | 8.12     | ±9.6                   |
| 10880 | AAE | 5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)    | 5G NR FR2 TDD | 8.38     | ±9.6                   |
| 10881 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)      | 5G NR FR2 TDD | 5.75     | ±9.6                   |
| 10882 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)   | 5G NR FR2 TDD | 5.96     | ±9.6                   |
| 10883 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)     | 5G NR FR2 TDD | 6.57     | ±9.6                   |
| 10884 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)  | 5G NR FR2 TDD | 6.53     | ±9.6                   |
| 10885 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)     | 5G NR FR2 TDD | 6.61     | ±9.6                   |
| 10886 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)  | 5G NR FR2 TDD | 6.65     | ±9.6                   |
| 10887 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)         | 5G NR FR2 TDD | 7.78     | ±9.6                   |
| 10888 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)      | 5G NR FR2 TDD | 8.35     | ±9.6                   |
| 10889 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)        | 5G NR FR2 TDD | 8.02     | ±9.6                   |
| 10890 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)     | 5G NR FR2 TDD | 8.40     | ±9.6                   |
| 10891 | AAE | 5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)        | 5G NR FR2 TDD | 8.13     | ±9.6                   |
| 10892 | AAE | 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)     | 5G NR FR2 TDD | 8.41     | ±9.6                   |
| 10897 | AAE | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)        | 5G NR FR1 TDD | 5.66     | ±9.6                   |
| 10898 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.67     | ±9.6                   |
| 10899 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.67     | ±9.6                   |
| 10900 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68     | ±9.6                   |
| 10901 | AAB | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68     | ±9.6                   |
| 10902 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68     | ±9.6                   |
| 10903 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68     | ±9.6                   |
| 10904 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68     | ±9.6                   |
| 10905 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68     | ±9.6                   |
| 10906 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)       | 5G NR FR1 TDD | 5.68     | ±9.6                   |
| 10907 | AAE | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)      | 5G NR FR1 TDD | 5.78     | ±9.6                   |
| 10908 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.93     | ±9.6                   |
| 10909 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.96     | ±9.6                   |
| 10910 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 5.83     | ±9.6                   |



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| UID   | Rev | Communication System Name                           | Group         | PAR (dB) | Unc <sup>E</sup> $k = 2$ |
|-------|-----|-----------------------------------------------------|---------------|----------|--------------------------|
| 10911 | AAB | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.93     | ±9.6                     |
| 10912 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84     | ±9.6                     |
| 10913 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.84     | ±9.6                     |
| 10914 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.85     | ±9.6                     |
| 10915 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.83     | ±9.6                     |
| 10916 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.87     | ±9.6                     |
| 10917 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.94     | ±9.6                     |
| 10918 | AAE | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)    | 5G NR FR1 TDD | 5.86     | ±9.6                     |
| 10919 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.86     | ±9.6                     |
| 10920 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.87     | ±9.6                     |
| 10921 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84     | ±9.6                     |
| 10922 | AAB | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.82     | ±9.6                     |
| 10923 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84     | ±9.6                     |
| 10924 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84     | ±9.6                     |
| 10925 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.95     | ±9.6                     |
| 10926 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.84     | ±9.6                     |
| 10927 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)   | 5G NR FR1 TDD | 5.94     | ±9.6                     |
| 10928 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)       | 5G NR FR1 FDD | 5.52     | ±9.6                     |
| 10929 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52     | ±9.6                     |
| 10930 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.52     | ±9.6                     |
| 10931 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51     | ±9.6                     |
| 10932 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51     | ±9.6                     |
| 10933 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51     | ±9.6                     |
| 10934 | AAC | 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51     | ±9.6                     |
| 10935 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)      | 5G NR FR1 FDD | 5.51     | ±9.6                     |
| 10936 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)     | 5G NR FR1 FDD | 5.90     | ±9.6                     |
| 10937 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.77     | ±9.6                     |
| 10938 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.90     | ±9.6                     |
| 10939 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.82     | ±9.6                     |
| 10940 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.89     | ±9.6                     |
| 10941 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.83     | ±9.6                     |
| 10942 | AAC | 5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.85     | ±9.6                     |
| 10943 | AAD | 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.95     | ±9.6                     |
| 10944 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)    | 5G NR FR1 FDD | 5.81     | ±9.6                     |
| 10945 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.85     | ±9.6                     |
| 10946 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.83     | ±9.6                     |
| 10947 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.87     | ±9.6                     |
| 10948 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.94     | ±9.6                     |
| 10949 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.87     | ±9.6                     |
| 10950 | AAC | 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.94     | ±9.6                     |
| 10951 | AAD | 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   | 5G NR FR1 FDD | 5.92     | ±9.6                     |
| 10952 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 FDD | 8.25     | ±9.6                     |
| 10953 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.15     | ±9.6                     |
| 10954 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.23     | ±9.6                     |
| 10955 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 FDD | 8.42     | ±9.6                     |
| 10956 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 FDD | 8.14     | ±9.6                     |
| 10957 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.31     | ±9.6                     |
| 10958 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.61     | ±9.6                     |
| 10959 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 FDD | 8.33     | ±9.6                     |
| 10960 | AAE | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   | 5G NR FR1 TDD | 9.32     | ±9.6                     |
| 10961 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.36     | ±9.6                     |
| 10962 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.40     | ±9.6                     |
| 10963 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)  | 5G NR FR1 TDD | 9.55     | ±9.6                     |
| 10964 | AAE | 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   | 5G NR FR1 TDD | 9.29     | ±9.6                     |
| 10965 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.37     | ±9.6                     |
| 10966 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.55     | ±9.6                     |
| 10967 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)  | 5G NR FR1 TDD | 9.42     | ±9.6                     |
| 10968 | AAD | 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.49     | ±9.6                     |
| 10972 | AAC | 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)         | 5G NR FR1 TDD | 11.59    | ±9.6                     |
| 10973 | AAD | 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)     | 5G NR FR1 TDD | 9.06     | ±9.6                     |
| 10974 | AAD | 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)  | 5G NR FR1 TDD | 10.28    | ±9.6                     |
| 10978 | AAA | ULLA BDR                                            | ULLA          | 1.16     | ±9.6                     |
| 10979 | AAA | ULLA HDR4                                           | ULLA          | 8.58     | ±9.6                     |
| 10980 | AAA | ULLA HDR8                                           | ULLA          | 10.32    | ±9.6                     |
| 10981 | AAA | ULLA HDRp4                                          | ULLA          | 3.19     | ±9.6                     |
| 10982 | AAA | ULLA HDRp8                                          | ULLA          | 3.43     | ±9.6                     |

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| UID   | Rev | Communication System Name                          | Group         | PAR (dB) | Unc <sup>E</sup> $k = 2$ |
|-------|-----|----------------------------------------------------|---------------|----------|--------------------------|
| 10983 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.31     | ±9.6                     |
| 10984 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 9.42     | ±9.6                     |
| 10985 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.54     | ±9.6                     |
| 10986 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.50     | ±9.6                     |
| 10987 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.53     | ±9.6                     |
| 10988 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.38     | ±9.6                     |
| 10989 | AAC | 5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.33     | ±9.6                     |
| 10990 | AAB | 5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 9.52     | ±9.6                     |
| 11003 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 TDD | 10.24    | ±9.6                     |
| 11004 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 TDD | 10.73    | ±9.6                     |
| 11005 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.70     | ±9.6                     |
| 11006 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.55     | ±9.6                     |
| 11007 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.46     | ±9.6                     |
| 11008 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz) | 5G NR FR1 FDD | 8.51     | ±9.6                     |
| 11009 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.76     | ±9.6                     |
| 11010 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.95     | ±9.6                     |
| 11011 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.96     | ±9.6                     |
| 11012 | AAA | 5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz) | 5G NR FR1 FDD | 8.68     | ±9.6                     |
| 11013 | AAB | IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)     | WLAN          | 8.47     | ±9.6                     |
| 11014 | AAB | IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)     | WLAN          | 8.45     | ±9.6                     |
| 11015 | AAB | IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)     | WLAN          | 8.44     | ±9.6                     |
| 11016 | AAB | IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)     | WLAN          | 8.44     | ±9.6                     |
| 11017 | AAB | IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)     | WLAN          | 8.41     | ±9.6                     |
| 11018 | AAB | IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)     | WLAN          | 8.40     | ±9.6                     |
| 11019 | AAB | IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)     | WLAN          | 8.29     | ±9.6                     |
| 11020 | AAB | IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)     | WLAN          | 8.27     | ±9.6                     |
| 11021 | AAB | IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)     | WLAN          | 8.46     | ±9.6                     |
| 11022 | AAB | IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)    | WLAN          | 8.36     | ±9.6                     |
| 11023 | AAB | IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)    | WLAN          | 8.09     | ±9.6                     |
| 11024 | AAB | IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)    | WLAN          | 8.42     | ±9.6                     |
| 11025 | AAB | IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)    | WLAN          | 8.37     | ±9.6                     |
| 11026 | AAB | IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)     | WLAN          | 8.39     | ±9.6                     |

<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.



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## ***Appendix E. Conducted RF Output Power Table***

The detailed power tables are shown as follows.



## Appendix E. Output Power Measurement

### <GSM Conducted Power>

#### General Note:

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

#### Full&Default Power Mode

| GSM850 Ant 0    | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
|                 | Frequency (MHz)           | 824.2 | 836.4 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   | 32.09                     | 32.32 | 32.12 | 33.50               | 23.09                     | 23.32 | 23.12 | 24.50               |
| GPRS 1 Tx slot  | 32.10                     | 32.31 | 32.15 | 33.50               | 23.10                     | 23.31 | 23.15 | 24.50               |
| GPRS 2 Tx slots | 29.49                     | 29.70 | 29.55 | 31.00               | 23.49                     | 23.70 | 23.55 | 25.00               |
| GPRS 3 Tx slots | 27.70                     | 27.81 | 27.65 | 29.00               | 23.44                     | 23.55 | 23.39 | 24.74               |
| GPRS 4 Tx slots | 26.02                     | 26.24 | 26.13 | 27.00               | 23.02                     | 23.24 | 23.13 | 24.00               |
| EDGE 1 Tx slot  | 25.41                     | 25.61 | 25.42 | 26.50               | 16.41                     | 16.61 | 16.42 | 17.50               |
| EDGE 2 Tx slots | 23.85                     | 24.02 | 23.88 | 25.00               | 17.85                     | 18.02 | 17.88 | 19.00               |
| EDGE 3 Tx slots | 22.55                     | 22.74 | 22.62 | 24.00               | 18.29                     | 18.48 | 18.36 | 19.74               |
| EDGE 4 Tx slots | 21.06                     | 21.21 | 21.05 | 22.00               | 18.06                     | 18.21 | 18.05 | 19.00               |

| GSM850 Ant1     | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
|                 | Frequency (MHz)           | 824.2 | 836.4 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   | 30.42                     | 30.55 | 30.45 | 31.50               | 21.42                     | 21.55 | 21.45 | 22.50               |
| GPRS 1 Tx slot  | 30.41                     | 30.52 | 30.43 | 31.50               | 21.41                     | 21.52 | 21.43 | 22.50               |
| GPRS 2 Tx slots | 28.02                     | 28.23 | 28.08 | 29.00               | 22.02                     | 22.23 | 22.08 | 23.00               |
| GPRS 3 Tx slots | 26.21                     | 26.32 | 26.16 | 27.50               | 21.95                     | 22.06 | 21.90 | 23.24               |
| GPRS 4 Tx slots | 24.73                     | 24.95 | 24.84 | 26.00               | 21.73                     | 21.95 | 21.84 | 23.00               |
| EDGE 1 Tx slot  | 24.16                     | 24.36 | 24.17 | 25.50               | 15.16                     | 15.36 | 15.17 | 16.50               |
| EDGE 2 Tx slots | 22.61                     | 22.78 | 22.64 | 24.00               | 16.61                     | 16.78 | 16.64 | 18.00               |
| EDGE 3 Tx slots | 21.34                     | 21.53 | 21.41 | 22.50               | 17.08                     | 17.27 | 17.15 | 18.24               |
| EDGE 4 Tx slots | 20.27                     | 20.42 | 20.26 | 21.50               | 17.27                     | 17.42 | 17.26 | 18.50               |

| GSM1900 Ant 2   | Burst Average Power (dBm) |        |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|--------|-------|---------------------|---------------------------|-------|--------|---------------------|
|                 | 512                       | 661    | 810   |                     | 512                       | 661   | 810    |                     |
|                 | Frequency (MHz)           | 1850.2 | 1880  |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot   | 28.86                     | 29.07  | 28.90 | 30.50               | 19.86                     | 20.07 | 19.90  | 21.50               |
| GPRS 1 Tx slot  | 28.74                     | 29.00  | 28.87 | 30.50               | 19.74                     | 20.00 | 19.87  | 21.50               |
| GPRS 2 Tx slots | 26.64                     | 26.76  | 26.55 | 28.00               | 20.64                     | 20.76 | 20.55  | 22.00               |
| GPRS 3 Tx slots | 24.82                     | 24.91  | 24.70 | 26.00               | 20.56                     | 20.65 | 20.44  | 21.74               |
| GPRS 4 Tx slots | 23.28                     | 23.52  | 23.29 | 24.50               | 20.28                     | 20.52 | 20.29  | 21.50               |
| EDGE 1 Tx slot  | 24.35                     | 24.51  | 24.40 | 25.50               | 15.35                     | 15.51 | 15.40  | 16.50               |
| EDGE 2 Tx slots | 22.84                     | 22.97  | 22.80 | 24.00               | 16.84                     | 16.97 | 16.80  | 18.00               |
| EDGE 3 Tx slots | 21.25                     | 21.39  | 21.23 | 22.50               | 16.99                     | 17.13 | 16.97  | 18.24               |
| EDGE 4 Tx slots | 20.15                     | 20.40  | 20.28 | 20.50               | 17.15                     | 17.40 | 17.28  | 17.50               |

### Reduced Power Mode for DSI 0

| GSM850 Ant1     | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
|                 | Frequency (MHz)           | 824.2 | 836.4 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   | 30.42                     | 30.55 | 30.45 | 31.50               | 21.42                     | 21.55 | 21.45 | 22.50               |
| GPRS 1 Tx slot  | 30.41                     | 30.52 | 30.43 | 31.50               | 21.41                     | 21.52 | 21.43 | 22.50               |
| GPRS 2 Tx slots | 28.02                     | 28.23 | 28.08 | 29.00               | 22.02                     | 22.23 | 22.08 | 23.00               |
| GPRS 3 Tx slots | 26.21                     | 26.32 | 26.16 | 27.50               | 21.95                     | 22.06 | 21.90 | 23.24               |
| GPRS 4 Tx slots | 24.73                     | 24.95 | 24.84 | 26.00               | 21.73                     | 21.95 | 21.84 | 23.00               |
| EDGE 1 Tx slot  | 24.16                     | 24.36 | 24.17 | 25.50               | 15.16                     | 15.36 | 15.17 | 16.50               |
| EDGE 2 Tx slots | 22.61                     | 22.78 | 22.64 | 24.00               | 16.61                     | 16.78 | 16.64 | 18.00               |
| EDGE 3 Tx slots | 21.34                     | 21.53 | 21.41 | 22.50               | 17.08                     | 17.27 | 17.15 | 18.24               |
| EDGE 4 Tx slots | 20.27                     | 20.42 | 20.26 | 21.50               | 17.27                     | 17.42 | 17.26 | 18.50               |

| GSM850 Ant 0 DSI0 | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-------------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                   | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
|                   | Frequency (MHz)           | 824.2 | 836.4 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot     | 32.09                     | 32.32 | 32.12 | 33.50               | 23.09                     | 23.32 | 23.12 | 24.50               |
| GPRS 1 Tx slot    | 32.10                     | 32.31 | 32.15 | 33.50               | 23.10                     | 23.31 | 23.15 | 24.50               |
| GPRS 2 Tx slots   | 29.49                     | 29.70 | 29.55 | 31.00               | 23.49                     | 23.70 | 23.55 | 25.00               |
| GPRS 3 Tx slots   | 27.70                     | 27.81 | 27.65 | 29.00               | 23.44                     | 23.55 | 23.39 | 24.74               |
| GPRS 4 Tx slots   | 26.02                     | 26.24 | 26.13 | 27.00               | 23.02                     | 23.24 | 23.13 | 24.00               |
| EDGE 1 Tx slot    | 25.41                     | 25.61 | 25.42 | 26.50               | 16.41                     | 16.61 | 16.42 | 17.50               |
| EDGE 2 Tx slots   | 23.85                     | 24.02 | 23.88 | 25.00               | 17.85                     | 18.02 | 17.88 | 19.00               |
| EDGE 3 Tx slots   | 22.55                     | 22.74 | 22.62 | 24.00               | 18.29                     | 18.48 | 18.36 | 19.74               |
| EDGE 4 Tx slots   | 21.06                     | 21.21 | 21.05 | 22.00               | 18.06                     | 18.21 | 18.05 | 19.00               |

| GSM1900 Ant 2 DSI0 | Burst Average Power (dBm) |        |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|--------------------|---------------------------|--------|-------|---------------------|---------------------------|-------|--------|---------------------|
|                    | 512                       | 661    | 810   |                     | 512                       | 661   | 810    |                     |
|                    | Frequency (MHz)           | 1850.2 | 1880  |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot      | 28.86                     | 29.07  | 28.90 | 30.50               | 19.86                     | 20.07 | 19.90  | 21.50               |
| GPRS 1 Tx slot     | 28.74                     | 29.00  | 28.87 | 30.50               | 19.74                     | 20.00 | 19.87  | 21.50               |
| GPRS 2 Tx slots    | 26.64                     | 26.76  | 26.55 | 28.00               | 20.64                     | 20.76 | 20.55  | 22.00               |
| GPRS 3 Tx slots    | 24.82                     | 24.91  | 24.70 | 26.00               | 20.56                     | 20.65 | 20.44  | 21.74               |
| GPRS 4 Tx slots    | 23.28                     | 23.52  | 23.29 | 24.50               | 20.28                     | 20.52 | 20.29  | 21.50               |
| EDGE 1 Tx slot     | 24.35                     | 24.51  | 24.40 | 25.50               | 15.35                     | 15.51 | 15.40  | 16.50               |
| EDGE 2 Tx slots    | 22.84                     | 22.97  | 22.80 | 24.00               | 16.84                     | 16.97 | 16.80  | 18.00               |
| EDGE 3 Tx slots    | 21.25                     | 21.39  | 21.23 | 22.50               | 16.99                     | 17.13 | 16.97  | 18.24               |
| EDGE 4 Tx slots    | 20.15                     | 20.40  | 20.28 | 20.50               | 17.15                     | 17.40 | 17.28  | 17.50               |

### Reduced Power Mode for DSI 1

| GSM850 Ant 0 DSI1 | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-------------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                   | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
|                   | Frequency (MHz)           | 824.2 | 836.4 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot     | 32.09                     | 32.32 | 32.12 | 33.50               | 23.09                     | 23.32 | 23.12 | 24.50               |
| GPRS 1 Tx slot    | 32.10                     | 32.31 | 32.15 | 33.50               | 23.10                     | 23.31 | 23.15 | 24.50               |
| GPRS 2 Tx slots   | 29.49                     | 29.70 | 29.55 | 31.00               | 23.49                     | 23.70 | 23.55 | 25.00               |
| GPRS 3 Tx slots   | 27.70                     | 27.81 | 27.65 | 29.00               | 23.44                     | 23.55 | 23.39 | 24.74               |
| GPRS 4 Tx slots   | 26.02                     | 26.24 | 26.13 | 27.00               | 23.02                     | 23.24 | 23.13 | 24.00               |
| EDGE 1 Tx slot    | 25.41                     | 25.61 | 25.42 | 26.50               | 16.41                     | 16.61 | 16.42 | 17.50               |
| EDGE 2 Tx slots   | 23.85                     | 24.02 | 23.88 | 25.00               | 17.85                     | 18.02 | 17.88 | 19.00               |
| EDGE 3 Tx slots   | 22.55                     | 22.74 | 22.62 | 24.00               | 18.29                     | 18.48 | 18.36 | 19.74               |
| EDGE 4 Tx slots   | 21.06                     | 21.21 | 21.05 | 22.00               | 18.06                     | 18.21 | 18.05 | 19.00               |

| GSM1900 Ant 2 DSI1 | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|--------------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| TX Channel         | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| Frequency (MHz)    | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot      | 28.86                     | 29.07 | 28.90  | 30.50               | 19.86                     | 20.07 | 19.90  | 21.50               |
| GPRS 1 Tx slot     | 28.74                     | 29.00 | 28.87  | 30.50               | 19.74                     | 20.00 | 19.87  | 21.50               |
| GPRS 2 Tx slots    | 26.64                     | 26.76 | 26.55  | 28.00               | 20.64                     | 20.76 | 20.55  | 22.00               |
| GPRS 3 Tx slots    | 24.82                     | 24.91 | 24.70  | 26.00               | 20.56                     | 20.65 | 20.44  | 21.74               |
| GPRS 4 Tx slots    | 23.28                     | 23.52 | 23.29  | 24.50               | 20.28                     | 20.52 | 20.29  | 21.50               |
| EDGE 1 Tx slot     | 24.35                     | 24.51 | 24.40  | 25.50               | 15.35                     | 15.51 | 15.40  | 16.50               |
| EDGE 2 Tx slots    | 22.84                     | 22.97 | 22.80  | 24.00               | 16.84                     | 16.97 | 16.80  | 18.00               |
| EDGE 3 Tx slots    | 21.25                     | 21.39 | 21.23  | 22.50               | 16.99                     | 17.13 | 16.97  | 18.24               |
| EDGE 4 Tx slots    | 20.15                     | 20.40 | 20.28  | 20.50               | 17.15                     | 17.40 | 17.28  | 17.50               |

| GSM850 Ant1     | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| TX Channel      | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   | 30.42                     | 30.55 | 30.45 | 31.50               | 21.42                     | 21.55 | 21.45 | 22.50               |
| GPRS 1 Tx slot  | 30.41                     | 30.52 | 30.43 | 31.50               | 21.41                     | 21.52 | 21.43 | 22.50               |
| GPRS 2 Tx slots | 28.02                     | 28.23 | 28.08 | 29.00               | 22.02                     | 22.23 | 22.08 | 23.00               |
| GPRS 3 Tx slots | 26.21                     | 26.32 | 26.16 | 27.50               | 21.95                     | 22.06 | 21.90 | 23.24               |
| GPRS 4 Tx slots | 24.73                     | 24.95 | 24.84 | 26.00               | 21.73                     | 21.95 | 21.84 | 23.00               |
| EDGE 1 Tx slot  | 24.16                     | 24.36 | 24.17 | 25.50               | 15.16                     | 15.36 | 15.17 | 16.50               |
| EDGE 2 Tx slots | 22.61                     | 22.78 | 22.64 | 24.00               | 16.61                     | 16.78 | 16.64 | 18.00               |
| EDGE 3 Tx slots | 21.34                     | 21.53 | 21.41 | 22.50               | 17.08                     | 17.27 | 17.15 | 18.24               |
| EDGE 4 Tx slots | 20.27                     | 20.42 | 20.26 | 21.50               | 17.27                     | 17.42 | 17.26 | 18.50               |

### Reduced Power Mode for DSI 2

| GSM850 Ant 0 DSI2 | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-------------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| TX Channel        | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| Frequency (MHz)   | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot     | 30.69                     | 30.92 | 30.72 | 32.10               | 21.69                     | 21.92 | 21.72 | 23.10               |
| GPRS 1 Tx slot    | 30.70                     | 30.91 | 30.75 | 32.10               | 21.70                     | 21.91 | 21.75 | 23.10               |
| GPRS 2 Tx slots   | 27.59                     | 27.80 | 27.65 | 29.10               | 21.59                     | 21.80 | 21.65 | 23.10               |
| GPRS 3 Tx slots   | 26.00                     | 26.11 | 25.95 | 27.30               | 21.74                     | 21.85 | 21.69 | 23.04               |
| GPRS 4 Tx slots   | 25.12                     | 25.34 | 25.24 | 26.10               | 22.12                     | 22.34 | 22.24 | 23.10               |
| EDGE 1 Tx slot    | 25.41                     | 25.61 | 25.42 | 26.50               | 16.41                     | 16.61 | 16.42 | 17.50               |
| EDGE 2 Tx slots   | 23.85                     | 24.02 | 23.88 | 25.00               | 17.85                     | 18.02 | 17.88 | 19.00               |
| EDGE 3 Tx slots   | 22.55                     | 22.74 | 22.62 | 24.00               | 18.29                     | 18.48 | 18.36 | 19.74               |
| EDGE 4 Tx slots   | 21.06                     | 21.21 | 21.05 | 22.00               | 18.06                     | 18.21 | 18.05 | 19.00               |

| GSM1900 Ant 2 DSI2 | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|--------------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| TX Channel         | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| Frequency (MHz)    | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot      | 27.76                     | 27.97 | 27.80  | 29.40               | 18.76                     | 18.97 | 18.80  | 20.40               |
| GPRS 1 Tx slot     | 27.64                     | 27.90 | 27.77  | 29.40               | 18.64                     | 18.90 | 18.77  | 20.40               |
| GPRS 2 Tx slots    | 25.04                     | 25.16 | 24.95  | 26.40               | 19.04                     | 19.16 | 18.95  | 20.40               |
| GPRS 3 Tx slots    | 23.52                     | 23.61 | 23.40  | 24.60               | 19.26                     | 19.35 | 19.14  | 20.34               |
| GPRS 4 Tx slots    | 22.07                     | 22.42 | 22.19  | 23.40               | 19.07                     | 19.42 | 19.19  | 20.40               |
| EDGE 1 Tx slot     | 24.35                     | 24.51 | 24.40  | 25.50               | 15.35                     | 15.51 | 15.40  | 16.50               |
| EDGE 2 Tx slots    | 22.84                     | 22.97 | 22.80  | 24.00               | 16.84                     | 16.97 | 16.80  | 18.00               |
| EDGE 3 Tx slots    | 21.25                     | 21.39 | 21.23  | 22.50               | 16.99                     | 17.13 | 16.97  | 18.24               |
| EDGE 4 Tx slots    | 20.15                     | 20.40 | 20.28  | 20.50               | 17.15                     | 17.40 | 17.28  | 17.50               |



| GSM850 Ant1     | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| TX Channel      | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   | 30.42                     | 30.55 | 30.45 | 31.50               | 21.42                     | 21.55 | 21.45 | 22.50               |
| GPRS 1 Tx slot  | 30.41                     | 30.52 | 30.43 | 31.50               | 21.41                     | 21.52 | 21.43 | 22.50               |
| GPRS 2 Tx slots | 28.02                     | 28.23 | 28.08 | 29.00               | 22.02                     | 22.23 | 22.08 | 23.00               |
| GPRS 3 Tx slots | 26.21                     | 26.32 | 26.16 | 27.50               | 21.95                     | 22.06 | 21.90 | 23.24               |
| GPRS 4 Tx slots | 24.73                     | 24.95 | 24.84 | 26.00               | 21.73                     | 21.95 | 21.84 | 23.00               |
| EDGE 1 Tx slot  | 24.16                     | 24.36 | 24.17 | 25.50               | 15.16                     | 15.36 | 15.17 | 16.50               |
| EDGE 2 Tx slots | 22.61                     | 22.78 | 22.64 | 24.00               | 16.61                     | 16.78 | 16.64 | 18.00               |
| EDGE 3 Tx slots | 21.34                     | 21.53 | 21.41 | 22.50               | 17.08                     | 17.27 | 17.15 | 18.24               |
| EDGE 4 Tx slots | 20.27                     | 20.42 | 20.26 | 21.50               | 17.27                     | 17.42 | 17.26 | 18.50               |

#### Reduced Power Mode for DSI 4

| GSM850 Ant 0 DSI4 | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-------------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| TX Channel        | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| Frequency (MHz)   | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot     | 32.09                     | 32.32 | 32.12 | 33.50               | 23.09                     | 23.32 | 23.12 | 24.50               |
| GPRS 1 Tx slot    | 32.10                     | 32.31 | 32.15 | 33.50               | 23.10                     | 23.31 | 23.15 | 24.50               |
| GPRS 2 Tx slots   | 29.49                     | 29.70 | 29.55 | 31.00               | 23.49                     | 23.70 | 23.55 | 25.00               |
| GPRS 3 Tx slots   | 27.70                     | 27.81 | 27.65 | 29.00               | 23.44                     | 23.55 | 23.39 | 24.74               |
| GPRS 4 Tx slots   | 26.02                     | 26.24 | 26.13 | 27.00               | 23.02                     | 23.24 | 23.13 | 24.00               |
| EDGE 1 Tx slot    | 25.41                     | 25.61 | 25.42 | 26.50               | 16.41                     | 16.61 | 16.42 | 17.50               |
| EDGE 2 Tx slots   | 23.85                     | 24.02 | 23.88 | 25.00               | 17.85                     | 18.02 | 17.88 | 19.00               |
| EDGE 3 Tx slots   | 22.55                     | 22.74 | 22.62 | 24.00               | 18.29                     | 18.48 | 18.36 | 19.74               |
| EDGE 4 Tx slots   | 21.06                     | 21.21 | 21.05 | 22.00               | 18.06                     | 18.21 | 18.05 | 19.00               |

| GSM1900 Ant 2 DSI4 | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|--------------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| TX Channel         | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| Frequency (MHz)    | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot      | 28.86                     | 29.07 | 28.90  | 30.50               | 19.86                     | 20.07 | 19.90  | 21.50               |
| GPRS 1 Tx slot     | 28.74                     | 29.00 | 28.87  | 30.50               | 19.74                     | 20.00 | 19.87  | 21.50               |
| GPRS 2 Tx slots    | 26.64                     | 26.76 | 26.55  | 28.00               | 20.64                     | 20.76 | 20.55  | 22.00               |
| GPRS 3 Tx slots    | 24.82                     | 24.91 | 24.70  | 26.00               | 20.56                     | 20.65 | 20.44  | 21.74               |
| GPRS 4 Tx slots    | 23.28                     | 23.52 | 23.29  | 24.50               | 20.28                     | 20.52 | 20.29  | 21.50               |
| EDGE 1 Tx slot     | 24.35                     | 24.51 | 24.40  | 25.50               | 15.35                     | 15.51 | 15.40  | 16.50               |
| EDGE 2 Tx slots    | 22.84                     | 22.97 | 22.80  | 24.00               | 16.84                     | 16.97 | 16.80  | 18.00               |
| EDGE 3 Tx slots    | 21.25                     | 21.39 | 21.23  | 22.50               | 16.99                     | 17.13 | 16.97  | 18.24               |
| EDGE 4 Tx slots    | 20.15                     | 20.40 | 20.28  | 20.50               | 17.15                     | 17.40 | 17.28  | 17.50               |

| GSM850 Ant1     | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| TX Channel      | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   | 30.42                     | 30.55 | 30.45 | 31.50               | 21.42                     | 21.55 | 21.45 | 22.50               |
| GPRS 1 Tx slot  | 30.41                     | 30.52 | 30.43 | 31.50               | 21.41                     | 21.52 | 21.43 | 22.50               |
| GPRS 2 Tx slots | 28.02                     | 28.23 | 28.08 | 29.00               | 22.02                     | 22.23 | 22.08 | 23.00               |
| GPRS 3 Tx slots | 26.21                     | 26.32 | 26.16 | 27.50               | 21.95                     | 22.06 | 21.90 | 23.24               |
| GPRS 4 Tx slots | 24.73                     | 24.95 | 24.84 | 26.00               | 21.73                     | 21.95 | 21.84 | 23.00               |
| EDGE 1 Tx slot  | 24.16                     | 24.36 | 24.17 | 25.50               | 15.16                     | 15.36 | 15.17 | 16.50               |
| EDGE 2 Tx slots | 22.61                     | 22.78 | 22.64 | 24.00               | 16.61                     | 16.78 | 16.64 | 18.00               |
| EDGE 3 Tx slots | 21.34                     | 21.53 | 21.41 | 22.50               | 17.08                     | 17.27 | 17.15 | 18.24               |
| EDGE 4 Tx slots | 20.27                     | 20.42 | 20.26 | 21.50               | 17.27                     | 17.42 | 17.26 | 18.50               |

### Reduced Power Mode for DSI 5

| GSM850 Ant 0 DSI5 | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-------------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| TX Channel        | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| Frequency (MHz)   | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot     | 32.09                     | 32.32 | 32.12 | 33.50               | 23.09                     | 23.32 | 23.12 | 24.50               |
| GPRS 1 Tx slot    | 32.10                     | 32.31 | 32.15 | 33.50               | 23.10                     | 23.31 | 23.15 | 24.50               |
| GPRS 2 Tx slots   | 29.49                     | 29.70 | 29.55 | 31.00               | 23.49                     | 23.70 | 23.55 | 25.00               |
| GPRS 3 Tx slots   | 27.70                     | 27.81 | 27.65 | 29.00               | 23.44                     | 23.55 | 23.39 | 24.74               |
| GPRS 4 Tx slots   | 26.02                     | 26.24 | 26.13 | 27.00               | 23.02                     | 23.24 | 23.13 | 24.00               |
| EDGE 1 Tx slot    | 25.41                     | 25.61 | 25.42 | 26.50               | 16.41                     | 16.61 | 16.42 | 17.50               |
| EDGE 2 Tx slots   | 23.85                     | 24.02 | 23.88 | 25.00               | 17.85                     | 18.02 | 17.88 | 19.00               |
| EDGE 3 Tx slots   | 22.55                     | 22.74 | 22.62 | 24.00               | 18.29                     | 18.48 | 18.36 | 19.74               |
| EDGE 4 Tx slots   | 21.06                     | 21.21 | 21.05 | 22.00               | 18.06                     | 18.21 | 18.05 | 19.00               |

| GSM1900 Ant 2 DSI5 | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|--------------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| TX Channel         | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| Frequency (MHz)    | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot      | 28.86                     | 29.07 | 28.90  | 30.50               | 19.86                     | 20.07 | 19.90  | 21.50               |
| GPRS 1 Tx slot     | 28.74                     | 29.00 | 28.87  | 30.50               | 19.74                     | 20.00 | 19.87  | 21.50               |
| GPRS 2 Tx slots    | 26.64                     | 26.76 | 26.55  | 28.00               | 20.64                     | 20.76 | 20.55  | 22.00               |
| GPRS 3 Tx slots    | 24.82                     | 24.91 | 24.70  | 26.00               | 20.56                     | 20.65 | 20.44  | 21.74               |
| GPRS 4 Tx slots    | 23.28                     | 23.52 | 23.29  | 24.50               | 20.28                     | 20.52 | 20.29  | 21.50               |
| EDGE 1 Tx slot     | 24.35                     | 24.51 | 24.40  | 25.50               | 15.35                     | 15.51 | 15.40  | 16.50               |
| EDGE 2 Tx slots    | 22.84                     | 22.97 | 22.80  | 24.00               | 16.84                     | 16.97 | 16.80  | 18.00               |
| EDGE 3 Tx slots    | 21.25                     | 21.39 | 21.23  | 22.50               | 16.99                     | 17.13 | 16.97  | 18.24               |
| EDGE 4 Tx slots    | 20.15                     | 20.40 | 20.28  | 20.50               | 17.15                     | 17.40 | 17.28  | 17.50               |

| GSM850 Ant1     | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| TX Channel      | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   | 30.42                     | 30.55 | 30.45 | 31.50               | 21.42                     | 21.55 | 21.45 | 22.50               |
| GPRS 1 Tx slot  | 30.41                     | 30.52 | 30.43 | 31.50               | 21.41                     | 21.52 | 21.43 | 22.50               |
| GPRS 2 Tx slots | 28.02                     | 28.23 | 28.08 | 29.00               | 22.02                     | 22.23 | 22.08 | 23.00               |
| GPRS 3 Tx slots | 26.21                     | 26.32 | 26.16 | 27.50               | 21.95                     | 22.06 | 21.90 | 23.24               |
| GPRS 4 Tx slots | 24.73                     | 24.95 | 24.84 | 26.00               | 21.73                     | 21.95 | 21.84 | 23.00               |
| EDGE 1 Tx slot  | 24.16                     | 24.36 | 24.17 | 25.50               | 15.16                     | 15.36 | 15.17 | 16.50               |
| EDGE 2 Tx slots | 22.61                     | 22.78 | 22.64 | 24.00               | 16.61                     | 16.78 | 16.64 | 18.00               |
| EDGE 3 Tx slots | 21.34                     | 21.53 | 21.41 | 22.50               | 17.08                     | 17.27 | 17.15 | 18.24               |
| EDGE 4 Tx slots | 20.27                     | 20.42 | 20.26 | 21.50               | 17.27                     | 17.42 | 17.26 | 18.50               |

### <WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

### HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
  - i. Set Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters were set according to each
  - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
  - iii. Set RMC 12.2Kbps + HSDPA mode.
  - iv. Set Cell Power = -86 dBm
  - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
  - vi. Select HSDPA Uplink Parameters
  - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
  - viii. Set Ack-Nack Repetition Factor to 3
  - ix. Set CQI Feedback Cycle (k) to 4 ms
  - x. Set CQI Repetition Factor to 2
  - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

**Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH**

| Sub-test | $\beta_c$         | $\beta_d$         | $\beta_d$<br>(SF) | $\beta_c/\beta_d$ | $\beta_{hs}$<br>(Note 1,<br>Note 2) | CM (dB)<br>(Note 3) | MPR (dB)<br>(Note 3) |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------------------------|---------------------|----------------------|
| 1        | 2/15              | 15/15             | 64                | 2/15              | 4/15                                | 0.0                 | 0.0                  |
| 2        | 12/15<br>(Note 4) | 15/15<br>(Note 4) | 64                | 12/15<br>(Note 4) | 24/15                               | 1.0                 | 0.0                  |
| 3        | 15/15             | 8/15              | 64                | 15/8              | 30/15                               | 1.5                 | 0.5                  |
| 4        | 15/15             | 4/15              | 64                | 15/4              | 30/15                               | 1.5                 | 0.5                  |

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ .

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA,  $\Delta_{ACK}$  and  $\Delta_{NACK} = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ , and  $\Delta_{CQI} = 24/15$  with  $\beta_{hs} = 24/15 * \beta_c$ .

Note 3: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the  $\beta_c/\beta_d$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 11/15$  and  $\beta_d = 15/15$ .

### Setup Configuration



### HSUPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting \* :
  - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
  - Set the Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
  - Set Cell Power = -86 dBm
  - Set Channel Type = 12.2k + HSPA
  - Set UE Target Power
  - Power Ctrl Mode= Alternating bits
  - Set and observe the E-TFCI
  - Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- The transmitted maximum output power was recorded.

**Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH**

| Sub-test | $\beta_c$      | $\beta_d$      | $\beta_d$ (SF) | $\beta_c/\beta_d$ | $\beta_{HS}$ (Note 1) | $\beta_{ec}$ | $\beta_{ed}$ (Note 4) (Note 5)               | $\beta_{ed}$ (SF) | $\beta_{ed}$ (Codes) | CM (dB) (Note 2) | MPR (dB) (Note 2) (Note 6) | AG Index (Note 5) | E-TFCI |
|----------|----------------|----------------|----------------|-------------------|-----------------------|--------------|----------------------------------------------|-------------------|----------------------|------------------|----------------------------|-------------------|--------|
| 1        | 11/15 (Note 3) | 15/15 (Note 3) | 64             | 11/15 (Note 3)    | 22/15                 | 209/25       | 1309/225                                     | 4                 | 1                    | 1.0              | 0.0                        | 20                | 75     |
| 2        | 6/15           | 15/15          | 64             | 6/15              | 12/15                 | 12/15        | 94/75                                        | 4                 | 1                    | 3.0              | 2.0                        | 12                | 67     |
| 3        | 15/15          | 9/15           | 64             | 15/9              | 30/15                 | 30/15        | $\beta_{ed1}: 47/15$<br>$\beta_{ed2}: 47/15$ | 4                 | 2                    | 2.0              | 1.0                        | 15                | 92     |
| 4        | 2/15           | 15/15          | 64             | 2/15              | 4/15                  | 2/15         | 56/75                                        | 4                 | 1                    | 3.0              | 2.0                        | 17                | 71     |
| 5        | 15/15          | 0              | -              | -                 | 5/15                  | 5/15         | 47/15                                        | 4                 | 1                    | 1.0              | 0.0                        | 12                | 67     |

Note 1: For sub-test 1 to 4,  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ . For sub-test 5,  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 5/15$  with  $\beta_{hs} = 5/15 * \beta_c$ .

Note 2: CM = 1 for  $\beta_d/\beta_c = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the  $\beta_c/\beta_d$  ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 10/15$  and  $\beta_d = 15/15$ .

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

### Setup Configuration

### DC-HSDPA 3GPP release 8 Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration below
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting:
  - Set RMC 12.2Kbps + HSDPA mode.
  - Set Cell Power = -25 dBm
  - Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
  - Select HSDPA Uplink Parameters
  - Set Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
    - Subtest 1:  $\beta_c/\beta_d=2/15$
    - Subtest 2:  $\beta_c/\beta_d=12/15$
    - Subtest 3:  $\beta_c/\beta_d=15/8$
    - Subtest 4:  $\beta_c/\beta_d=15/4$
  - Set Delta ACK, Delta NACK and Delta CQI = 8
  - Set Ack-Nack Repetition Factor to 3
  - Set CQI Feedback Cycle (k) to 4 ms
  - Set CQI Repetition Factor to 2
  - Power Ctrl Mode = All Up bits
- The transmitted maximum output power was recorded.

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

#### C.8.1.12 Fixed Reference Channel Definition H-Set 12

Table C.8.1.12: Fixed Reference Channel H-Set 12

| Parameter                                                                                                                                              | Unit      | Value |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|
| Nominal Avg. Inf. Bit Rate                                                                                                                             | kbps      | 60    |
| Inter-TTI Distance                                                                                                                                     | TTI's     | 1     |
| Number of HARQ Processes                                                                                                                               | Processes | 6     |
| Information Bit Payload ( $N_{inf}$ )                                                                                                                  | Bits      | 120   |
| Number Code Blocks                                                                                                                                     | Blocks    | 1     |
| Binary Channel Bits Per TTI                                                                                                                            | Bits      | 960   |
| Total Available SML's in UE                                                                                                                            | SML's     | 19200 |
| Number of SML's per HARQ Proc.                                                                                                                         | SML's     | 3200  |
| Coding Rate                                                                                                                                            |           | 0.15  |
| Number of Physical Channel Codes                                                                                                                       | Codes     | 1     |
| Modulation                                                                                                                                             |           | QPSK  |
| Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.               |           |       |
| Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used. |           |       |

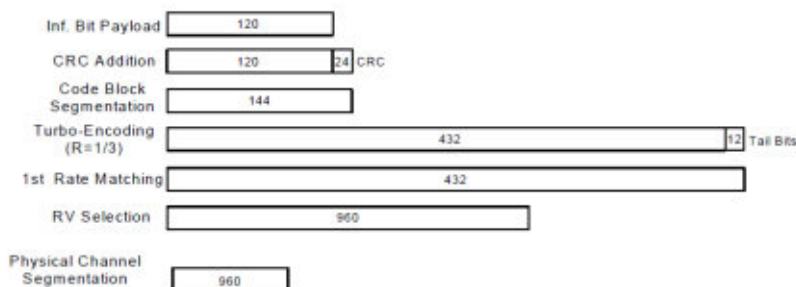


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

### Setup Configuration

## <WCDMA Conducted Power>

### General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA) are less than  $\frac{1}{4}$  dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

### Full&Default Power Mode

| Band            |                    | WCDMA V Ant 0 |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|---------------|-------|-------|---------------------|
| TX Channel      |                    | 4132          | 4182  | 4233  |                     |
| Rx Channel      |                    | 4357          | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 826.4         | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 22.94         | 22.98 | 22.96 | 24.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 22.88         | 23.02 | 22.98 | 24.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 21.66         | 21.88 | 21.86 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 21.83         | 21.80 | 21.69 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 21.24         | 21.25 | 21.23 | 22.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 21.16         | 21.38 | 21.15 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 21.68         | 21.80 | 21.95 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 21.94         | 21.78 | 21.84 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 21.34         | 21.34 | 21.22 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 21.37         | 21.34 | 21.23 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 21.76         | 21.70 | 21.79 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 19.76         | 19.68 | 19.81 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 20.71         | 20.81 | 20.84 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 19.56         | 19.65 | 19.91 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 21.79         | 21.90 | 21.83 | 23.00               |

| Band            |                    | WCDMA V Ant 1 |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|---------------|-------|-------|---------------------|
| TX Channel      |                    | 4132          | 4182  | 4233  |                     |
| Rx Channel      |                    | 4357          | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 826.4         | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 21.92         | 21.88 | 21.97 | 23.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 21.99         | 22.06 | 22.05 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 20.60         | 20.79 | 20.92 | 22.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 20.68         | 20.67 | 20.55 | 22.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 20.15         | 20.12 | 20.23 | 21.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 20.14         | 20.39 | 20.14 | 21.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 20.62         | 20.81 | 20.85 | 22.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 20.99         | 20.74 | 20.88 | 22.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 20.40         | 20.38 | 20.20 | 21.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 20.43         | 20.27 | 20.21 | 21.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 20.76         | 20.76 | 20.78 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 18.78         | 18.61 | 18.69 | 20.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 19.72         | 19.87 | 19.78 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 18.49         | 18.71 | 18.86 | 20.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 20.70         | 20.77 | 20.83 | 22.00               |



| Band            |                    | WCDMA II Ant 2 |       |        | Tune-up Limit (dBm) | WCDMA IV Ant 2 |        |        | Tune-up Limit (dBm) |
|-----------------|--------------------|----------------|-------|--------|---------------------|----------------|--------|--------|---------------------|
| TX Channel      |                    | 9262           | 9400  | 9538   |                     | 1312           | 1413   | 1513   |                     |
| Rx Channel      |                    | 9662           | 9800  | 9938   |                     | 1537           | 1638   | 1738   |                     |
| Frequency (MHz) |                    | 1852.4         | 1880  | 1907.6 |                     | 1712.4         | 1732.6 | 1752.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 22.76          | 22.84 | 22.75  | 24.00               | 22.64          | 22.65  | 22.64  | 24.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 22.67          | 22.91 | 22.80  | 24.00               | 22.61          | 22.79  | 22.77  | 24.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 21.54          | 21.65 | 21.68  | 23.00               | 21.33          | 21.65  | 21.64  | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 21.62          | 21.62 | 21.52  | 23.00               | 21.62          | 21.55  | 21.47  | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 21.08          | 21.01 | 21.09  | 22.50               | 20.94          | 21.05  | 20.91  | 22.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 20.99          | 21.13 | 20.94  | 22.50               | 20.86          | 21.17  | 20.84  | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 21.53          | 21.69 | 21.72  | 23.00               | 21.44          | 21.53  | 21.70  | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 21.71          | 21.61 | 21.70  | 23.00               | 21.60          | 21.54  | 21.56  | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 21.13          | 21.20 | 21.04  | 22.50               | 21.04          | 21.05  | 20.97  | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 21.15          | 21.18 | 21.10  | 22.50               | 21.05          | 21.01  | 20.90  | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 21.59          | 21.59 | 21.62  | 23.00               | 21.51          | 21.50  | 21.59  | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 19.57          | 19.50 | 19.60  | 21.00               | 19.55          | 19.44  | 19.54  | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 20.56          | 20.68 | 20.73  | 22.00               | 20.47          | 20.55  | 20.51  | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 19.45          | 19.50 | 19.72  | 21.00               | 19.24          | 19.32  | 19.67  | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 21.54          | 21.74 | 21.72  | 23.00               | 21.54          | 21.61  | 21.60  | 23.00               |

#### Reduced Power Mode for DSI 0

| Band            |                    | WCDMA V Ant 1 |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|---------------|-------|-------|---------------------|
| TX Channel      |                    | 4132          | 4182  | 4233  |                     |
| Rx Channel      |                    | 4357          | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 826.4         | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 21.92         | 21.88 | 21.97 | 23.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 21.99         | 22.06 | 22.05 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 20.60         | 20.79 | 20.92 | 22.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 20.68         | 20.67 | 20.55 | 22.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 20.15         | 20.12 | 20.23 | 21.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 20.14         | 20.39 | 20.14 | 21.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 20.62         | 20.81 | 20.85 | 22.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 20.99         | 20.74 | 20.88 | 22.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 20.40         | 20.38 | 20.20 | 21.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 20.43         | 20.27 | 20.21 | 21.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 20.76         | 20.76 | 20.78 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 18.78         | 18.61 | 18.69 | 20.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 19.72         | 19.87 | 19.78 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 18.49         | 18.71 | 18.86 | 20.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 20.70         | 20.77 | 20.83 | 22.00               |

| Band            |                    | WCDMA V Ant 0 DSI0 |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|--------------------|-------|-------|---------------------|
| TX Channel      |                    | 4132               | 4182  | 4233  |                     |
| Rx Channel      |                    | 4357               | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 826.4              | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 22.94              | 22.98 | 22.96 | 24.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 22.88              | 23.02 | 22.98 | 24.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 21.66              | 21.88 | 21.86 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 21.83              | 21.80 | 21.69 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 21.24              | 21.25 | 21.23 | 22.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 21.16              | 21.38 | 21.15 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 21.68              | 21.80 | 21.95 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 21.94              | 21.78 | 21.84 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 21.34              | 21.34 | 21.22 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 21.37              | 21.34 | 21.23 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 21.76              | 21.70 | 21.79 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 19.76              | 19.68 | 19.81 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 20.71              | 20.81 | 20.84 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 19.56              | 19.65 | 19.91 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 21.79              | 21.90 | 21.83 | 23.00               |

| Band            |                    | WCDMA II Ant 2 DSI0 |       |        | Tune-up Limit (dBm) | WCDMA IV Ant 2 DSI0 |        |        | Tune-up Limit (dBm) |
|-----------------|--------------------|---------------------|-------|--------|---------------------|---------------------|--------|--------|---------------------|
| TX Channel      |                    | 9262                | 9400  | 9538   |                     | 1312                | 1413   | 1513   |                     |
| Rx Channel      |                    | 9662                | 9800  | 9938   |                     | 1537                | 1638   | 1738   |                     |
| Frequency (MHz) |                    | 1852.4              | 1880  | 1907.6 |                     | 1712.4              | 1732.6 | 1752.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 22.39               | 22.45 | 22.32  | 24.00               | 22.64               | 22.65  | 22.64  | 24.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 22.22               | 22.46 | 22.38  | 24.00               | 22.61               | 22.79  | 22.77  | 24.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 21.13               | 21.25 | 21.28  | 23.00               | 21.33               | 21.65  | 21.64  | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 21.26               | 21.24 | 21.15  | 23.00               | 21.62               | 21.55  | 21.47  | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 20.64               | 20.63 | 20.72  | 22.50               | 20.94               | 21.05  | 20.91  | 22.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 20.55               | 20.71 | 20.50  | 22.50               | 20.86               | 21.17  | 20.84  | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 21.09               | 21.25 | 21.27  | 23.00               | 21.44               | 21.53  | 21.70  | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 21.28               | 21.19 | 21.26  | 23.00               | 21.60               | 21.54  | 21.56  | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 20.76               | 20.84 | 20.69  | 22.50               | 21.04               | 21.05  | 20.97  | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 20.76               | 20.73 | 20.72  | 22.50               | 21.05               | 21.01  | 20.90  | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 21.22               | 21.14 | 21.19  | 23.00               | 21.51               | 21.50  | 21.59  | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 19.15               | 19.07 | 19.19  | 21.00               | 19.55               | 19.44  | 19.54  | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 20.12               | 20.27 | 20.30  | 22.00               | 20.47               | 20.55  | 20.51  | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 19.06               | 19.05 | 19.32  | 21.00               | 19.24               | 19.32  | 19.67  | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 21.16               | 21.31 | 21.30  | 23.00               | 21.54               | 21.61  | 21.60  | 23.00               |

### Reduced Power Mode for DSI 1

| Band            |                    | WCDMA V Ant 0 DSI1 |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|--------------------|-------|-------|---------------------|
| TX Channel      |                    | 4132               | 4182  | 4233  |                     |
| Rx Channel      |                    | 4357               | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 826.4              | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 22.94              | 22.98 | 22.96 | 24.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 22.88              | 23.02 | 22.98 | 24.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 21.66              | 21.88 | 21.86 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 21.83              | 21.80 | 21.69 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 21.24              | 21.25 | 21.23 | 22.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 21.16              | 21.38 | 21.15 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 21.68              | 21.80 | 21.95 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 21.94              | 21.78 | 21.84 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 21.34              | 21.34 | 21.22 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 21.37              | 21.34 | 21.23 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 21.76              | 21.70 | 21.79 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 19.76              | 19.68 | 19.81 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 20.71              | 20.81 | 20.84 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 19.56              | 19.65 | 19.91 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 21.79              | 21.90 | 21.83 | 23.00               |

| Band            |                    | WCDMA II Ant 2 DSI1 |       |        | Tune-up Limit (dBm) | WCDMA IV Ant 2 DSI1 |        |        | Tune-up Limit (dBm) |
|-----------------|--------------------|---------------------|-------|--------|---------------------|---------------------|--------|--------|---------------------|
| TX Channel      |                    | 9262                | 9400  | 9538   |                     | 1312                | 1413   | 1513   |                     |
| Rx Channel      |                    | 9662                | 9800  | 9938   |                     | 1537                | 1638   | 1738   |                     |
| Frequency (MHz) |                    | 1852.4              | 1880  | 1907.6 |                     | 1712.4              | 1732.6 | 1752.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 20.83               | 20.91 | 20.82  | 22.10               | 22.05               | 22.06  | 22.05  | 23.10               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 20.74               | 20.98 | 20.87  | 22.10               | 22.02               | 22.20  | 22.18  | 23.10               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 20.61               | 20.72 | 20.75  | 22.10               | 21.33               | 21.65  | 21.64  | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 20.69               | 20.69 | 20.59  | 22.10               | 21.62               | 21.55  | 21.47  | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 20.35               | 20.48 | 20.56  | 22.10               | 20.94               | 21.05  | 20.91  | 22.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 20.46               | 20.20 | 20.31  | 22.10               | 20.86               | 21.17  | 20.84  | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 20.60               | 20.76 | 20.79  | 22.10               | 21.44               | 21.53  | 21.70  | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 20.78               | 20.68 | 20.77  | 22.10               | 21.60               | 21.54  | 21.56  | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 20.20               | 20.27 | 20.11  | 22.10               | 21.04               | 21.05  | 20.97  | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 20.22               | 20.25 | 20.17  | 22.10               | 21.05               | 21.01  | 20.90  | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 20.66               | 20.66 | 20.69  | 22.10               | 21.51               | 21.50  | 21.59  | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 19.57               | 19.50 | 19.60  | 21.00               | 19.55               | 19.44  | 19.54  | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 20.56               | 20.68 | 20.73  | 22.10               | 20.47               | 20.55  | 20.51  | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 19.45               | 19.50 | 19.72  | 21.00               | 19.24               | 19.32  | 19.67  | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 20.61               | 20.81 | 20.79  | 22.10               | 21.54               | 21.61  | 21.60  | 23.00               |

| Band            |                    | WCDMA V Ant 1 |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|---------------|-------|-------|---------------------|
| TX Channel      |                    | 4132          | 4182  | 4233  |                     |
| Rx Channel      |                    | 4357          | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 826.4         | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 21.92         | 21.88 | 21.97 | 23.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 21.99         | 22.06 | 22.05 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 20.60         | 20.79 | 20.92 | 22.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 20.68         | 20.67 | 20.55 | 22.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 20.15         | 20.12 | 20.23 | 21.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 20.14         | 20.39 | 20.14 | 21.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 20.62         | 20.81 | 20.85 | 22.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 20.99         | 20.74 | 20.88 | 22.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 20.40         | 20.38 | 20.20 | 21.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 20.43         | 20.27 | 20.21 | 21.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 20.76         | 20.76 | 20.78 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 18.78         | 18.61 | 18.69 | 20.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 19.72         | 19.87 | 19.78 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 18.49         | 18.71 | 18.86 | 20.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 20.70         | 20.77 | 20.83 | 22.00               |

#### Reduced Power Mode for DSI 2

| Band            |                    | WCDMA V Ant 0 DSI2 |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|--------------------|-------|-------|---------------------|
| TX Channel      |                    | 4132               | 4182  | 4233  |                     |
| Rx Channel      |                    | 4357               | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 826.4              | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 21.15              | 21.19 | 21.13 | 22.70               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 21.15              | 21.20 | 21.18 | 22.70               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 19.84              | 19.98 | 20.14 | 21.70               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 20.12              | 19.95 | 19.90 | 21.70               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 19.41              | 19.48 | 19.50 | 21.20               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 19.33              | 19.61 | 19.37 | 21.20               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 20.00              | 20.12 | 20.22 | 21.70               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 20.09              | 19.86 | 20.01 | 21.70               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 19.63              | 19.54 | 19.40 | 21.20               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 19.48              | 19.61 | 19.48 | 21.20               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 19.94              | 20.02 | 19.98 | 21.70               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 17.90              | 17.76 | 18.13 | 19.70               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 18.89              | 19.10 | 19.12 | 20.70               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 17.80              | 17.77 | 18.11 | 19.70               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 20.01              | 20.04 | 19.96 | 21.70               |



| Band            |                    | WCDMA II Ant 2 DSI2 |       |        | Tune-up Limit (dBm) | WCDMA IV Ant 2 DSI2 |        |        | Tune-up Limit (dBm) |
|-----------------|--------------------|---------------------|-------|--------|---------------------|---------------------|--------|--------|---------------------|
| TX Channel      |                    | 9262                | 9400  | 9538   |                     | 1312                | 1413   | 1513   |                     |
| Rx Channel      |                    | 9662                | 9800  | 9938   |                     | 1537                | 1638   | 1738   |                     |
| Frequency (MHz) |                    | 1852.4              | 1880  | 1907.6 |                     | 1712.4              | 1732.6 | 1752.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 18.60               | 18.66 | 18.56  | 20.30               | 19.10               | 19.04  | 19.04  | 20.20               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 18.68               | 18.70 | 18.69  | 20.30               | 19.07               | 19.17  | 19.15  | 20.20               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 17.42               | 17.54 | 17.59  | 19.30               | 17.89               | 18.27  | 18.19  | 19.20               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 17.43               | 17.48 | 17.43  | 19.30               | 18.02               | 18.10  | 17.92  | 19.20               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 16.89               | 16.81 | 16.95  | 18.80               | 17.38               | 17.47  | 17.33  | 18.70               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 16.84               | 16.97 | 16.82  | 18.80               | 17.44               | 17.78  | 17.24  | 18.70               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 17.48               | 17.55 | 17.51  | 19.30               | 18.05               | 18.14  | 18.13  | 19.20               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 17.57               | 17.38 | 17.54  | 19.30               | 18.03               | 17.93  | 18.00  | 19.20               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 16.92               | 17.04 | 16.88  | 18.80               | 17.49               | 17.46  | 17.40  | 18.70               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 17.03               | 17.00 | 16.89  | 18.80               | 17.46               | 17.56  | 17.40  | 18.70               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 17.45               | 17.47 | 17.51  | 19.30               | 17.92               | 18.02  | 18.02  | 19.20               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 15.34               | 15.35 | 15.40  | 17.30               | 15.98               | 16.01  | 16.09  | 17.20               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 16.41               | 16.54 | 16.58  | 18.30               | 17.08               | 17.11  | 16.93  | 18.20               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 15.47               | 15.44 | 15.45  | 17.30               | 15.68               | 15.85  | 16.05  | 17.20               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 17.33               | 17.59 | 17.45  | 19.30               | 17.99               | 18.12  | 18.11  | 19.20               |

| Band            |                    | WCDMA V Ant 1 |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|---------------|-------|-------|---------------------|
| TX Channel      |                    | 4132          | 4182  | 4233  |                     |
| Rx Channel      |                    | 4357          | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 826.4         | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 21.92         | 21.88 | 21.97 | 23.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 21.99         | 22.06 | 22.05 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 20.60         | 20.79 | 20.92 | 22.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 20.68         | 20.67 | 20.55 | 22.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 20.15         | 20.12 | 20.23 | 21.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 20.14         | 20.39 | 20.14 | 21.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 20.62         | 20.81 | 20.85 | 22.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 20.99         | 20.74 | 20.88 | 22.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 20.40         | 20.38 | 20.20 | 21.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 20.43         | 20.27 | 20.21 | 21.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 20.76         | 20.76 | 20.78 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 18.78         | 18.61 | 18.69 | 20.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 19.72         | 19.87 | 19.78 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 18.49         | 18.71 | 18.86 | 20.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 20.70         | 20.77 | 20.83 | 22.00               |

### Reduced Power Mode for DSI 4

| Band            |                    | WCDMA V Ant 0 DSI4 |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|--------------------|-------|-------|---------------------|
| TX Channel      |                    | 4132               | 4182  | 4233  |                     |
| Rx Channel      |                    | 4357               | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 826.4              | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 22.94              | 22.98 | 22.96 | 24.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 22.88              | 23.02 | 22.98 | 24.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 21.66              | 21.88 | 21.86 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 21.83              | 21.80 | 21.69 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 21.24              | 21.25 | 21.23 | 22.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 21.16              | 21.38 | 21.15 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 21.68              | 21.80 | 21.95 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 21.94              | 21.78 | 21.84 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 21.34              | 21.34 | 21.22 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 21.37              | 21.34 | 21.23 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 21.76              | 21.70 | 21.79 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 19.76              | 19.68 | 19.81 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 20.71              | 20.81 | 20.84 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 19.56              | 19.65 | 19.91 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 21.79              | 21.90 | 21.83 | 23.00               |

| Band            |                    | WCDMA II Ant 2 DSI4 |       |        | Tune-up Limit (dBm) | WCDMA IV Ant 2 DSI4 |        |        | Tune-up Limit (dBm) |
|-----------------|--------------------|---------------------|-------|--------|---------------------|---------------------|--------|--------|---------------------|
| TX Channel      |                    | 9262                | 9400  | 9538   |                     | 1312                | 1413   | 1513   |                     |
| Rx Channel      |                    | 9662                | 9800  | 9938   |                     | 1537                | 1638   | 1738   |                     |
| Frequency (MHz) |                    | 1852.4              | 1880  | 1907.6 |                     | 1712.4              | 1732.6 | 1752.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 19.14               | 19.22 | 19.14  | 20.70               | 20.63               | 20.66  | 20.60  | 21.70               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 19.13               | 19.36 | 19.21  | 20.70               | 20.64               | 20.82  | 20.74  | 21.70               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 18.92               | 19.10 | 19.09  | 20.70               | 20.48               | 20.60  | 20.53  | 21.70               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 19.08               | 19.03 | 18.96  | 20.70               | 20.43               | 20.67  | 20.55  | 21.70               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 18.88               | 19.06 | 19.12  | 20.70               | 20.43               | 20.58  | 20.56  | 21.70               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 18.92               | 18.98 | 19.04  | 20.70               | 20.43               | 20.62  | 20.59  | 21.70               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 18.90               | 19.03 | 19.09  | 20.70               | 20.48               | 20.60  | 20.55  | 21.70               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 18.91               | 19.05 | 19.05  | 20.70               | 20.45               | 20.58  | 20.50  | 21.70               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 18.88               | 19.04 | 19.07  | 20.70               | 20.46               | 20.60  | 20.56  | 21.70               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 18.91               | 19.02 | 19.04  | 20.70               | 20.48               | 20.66  | 20.52  | 21.70               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 18.87               | 18.98 | 19.08  | 20.70               | 20.10               | 20.15  | 20.22  | 21.70               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 18.92               | 19.05 | 19.05  | 20.70               | 20.48               | 20.58  | 20.54  | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 18.91               | 19.03 | 19.03  | 20.70               | 20.46               | 20.58  | 20.50  | 21.70               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 18.93               | 19.04 | 19.08  | 20.70               | 20.45               | 20.62  | 20.50  | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 18.89               | 19.07 | 19.07  | 20.70               | 20.11               | 20.20  | 20.21  | 21.70               |

| Band            |                    | WCDMA V Ant 1 |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|---------------|-------|-------|---------------------|
| TX Channel      |                    | 4132          | 4182  | 4233  |                     |
| Rx Channel      |                    | 4357          | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 826.4         | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 21.92         | 21.88 | 21.97 | 23.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 21.99         | 22.06 | 22.05 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 20.60         | 20.79 | 20.92 | 22.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 20.68         | 20.67 | 20.55 | 22.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 20.15         | 20.12 | 20.23 | 21.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 20.14         | 20.39 | 20.14 | 21.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 20.62         | 20.81 | 20.85 | 22.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 20.99         | 20.74 | 20.88 | 22.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 20.40         | 20.38 | 20.20 | 21.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 20.43         | 20.27 | 20.21 | 21.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 20.76         | 20.76 | 20.78 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 18.78         | 18.61 | 18.69 | 20.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 19.72         | 19.87 | 19.78 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 18.49         | 18.71 | 18.86 | 20.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 20.70         | 20.77 | 20.83 | 22.00               |

#### Reduced Power Mode for DSI 5

| Band            |                    | WCDMA V Ant 0 DSI5 |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|--------------------|-------|-------|---------------------|
| TX Channel      |                    | 4132               | 4182  | 4233  |                     |
| Rx Channel      |                    | 4357               | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 826.4              | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 22.94              | 22.98 | 22.96 | 24.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 22.88              | 23.02 | 22.98 | 24.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 21.66              | 21.88 | 21.86 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 21.83              | 21.80 | 21.69 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 21.24              | 21.25 | 21.23 | 22.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 21.16              | 21.38 | 21.15 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 21.68              | 21.80 | 21.95 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 21.94              | 21.78 | 21.84 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 21.34              | 21.34 | 21.22 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 21.37              | 21.34 | 21.23 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 21.76              | 21.70 | 21.79 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 19.76              | 19.68 | 19.81 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 20.71              | 20.81 | 20.84 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 19.56              | 19.65 | 19.91 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 21.79              | 21.90 | 21.83 | 23.00               |

| Band            |                    | WCDMA II Ant 2 DSI5 |       |        | Tune-up Limit (dBm) | WCDMA IV Ant 2 DSI5 |        |        | Tune-up Limit (dBm) |
|-----------------|--------------------|---------------------|-------|--------|---------------------|---------------------|--------|--------|---------------------|
| TX Channel      |                    | 9262                | 9400  | 9538   |                     | 1312                | 1413   | 1513   |                     |
| Rx Channel      |                    | 9662                | 9800  | 9938   |                     | 1537                | 1638   | 1738   |                     |
| Frequency (MHz) |                    | 1852.4              | 1880  | 1907.6 |                     | 1712.4              | 1732.6 | 1752.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 20.83               | 20.91 | 20.82  | 22.00               | 21.15               | 21.16  | 21.15  | 22.20               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 20.74               | 20.98 | 20.87  | 22.00               | 21.12               | 21.30  | 21.28  | 22.20               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 20.61               | 20.72 | 20.75  | 22.00               | 20.43               | 20.75  | 20.74  | 22.20               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 20.69               | 20.69 | 20.59  | 22.00               | 20.72               | 20.65  | 20.57  | 22.20               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 20.35               | 20.48 | 20.56  | 21.50               | 20.04               | 20.15  | 20.01  | 21.70               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 20.46               | 20.20 | 20.31  | 21.50               | 19.96               | 20.27  | 19.94  | 21.70               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 20.60               | 20.76 | 20.79  | 22.00               | 20.54               | 20.63  | 20.80  | 22.20               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 20.78               | 20.68 | 20.77  | 22.00               | 20.70               | 20.64  | 20.66  | 22.20               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 20.20               | 20.27 | 20.11  | 21.50               | 20.14               | 20.15  | 20.07  | 21.70               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 20.22               | 20.25 | 20.17  | 21.50               | 20.15               | 20.11  | 20.00  | 21.70               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 20.66               | 20.66 | 20.69  | 22.00               | 20.61               | 20.60  | 20.69  | 22.20               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 19.57               | 19.50 | 19.60  | 20.00               | 18.65               | 18.54  | 18.64  | 20.20               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 20.56               | 20.68 | 20.73  | 21.00               | 19.57               | 19.65  | 19.61  | 21.20               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 19.45               | 19.50 | 19.72  | 20.00               | 18.34               | 18.42  | 18.77  | 20.20               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 20.61               | 20.81 | 20.79  | 22.00               | 20.64               | 20.71  | 20.70  | 22.20               |

| Band            |                    | WCDMA V Ant 1 |       |       | Tune-up Limit (dBm) |
|-----------------|--------------------|---------------|-------|-------|---------------------|
| TX Channel      |                    | 4132          | 4182  | 4233  |                     |
| Rx Channel      |                    | 4357          | 4407  | 4458  |                     |
| Frequency (MHz) |                    | 826.4         | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps       | 21.92         | 21.88 | 21.97 | 23.00               |
| 3GPP Rel 99     | RMC 12.2Kbps       | 21.99         | 22.06 | 22.05 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-1    | 20.60         | 20.79 | 20.92 | 22.00               |
| 3GPP Rel 6      | HSDPA Subtest-2    | 20.68         | 20.67 | 20.55 | 22.00               |
| 3GPP Rel 6      | HSDPA Subtest-3    | 20.15         | 20.12 | 20.23 | 21.50               |
| 3GPP Rel 6      | HSDPA Subtest-4    | 20.14         | 20.39 | 20.14 | 21.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 20.62         | 20.81 | 20.85 | 22.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 20.99         | 20.74 | 20.88 | 22.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 20.40         | 20.38 | 20.20 | 21.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 20.43         | 20.27 | 20.21 | 21.50               |
| 3GPP Rel 6      | HSUPA Subtest-1    | 20.76         | 20.76 | 20.78 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-2    | 18.78         | 18.61 | 18.69 | 20.00               |
| 3GPP Rel 6      | HSUPA Subtest-3    | 19.72         | 19.87 | 19.78 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-4    | 18.49         | 18.71 | 18.86 | 20.00               |
| 3GPP Rel 6      | HSUPA Subtest-5    | 20.70         | 20.77 | 20.83 | 22.00               |



## <LTE Conducted Power>

### General Note:

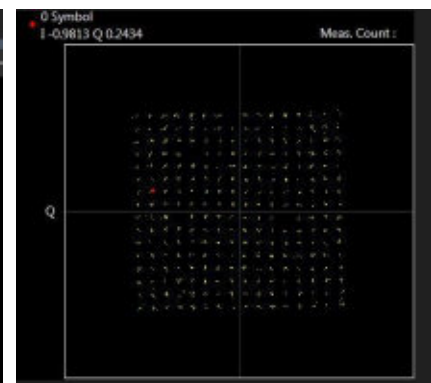
1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE 4 / B5 / B17 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE band 4 / 5 / 38 SAR test was covered by Band 66 / 26 / 41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
  - a. the maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion
  - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to May 2017 TCB workshop, for 16QAM and 64QAM, 256QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 256QAM, 64QAM and 16QAM signal modulation are correct.



16QAM



64QAM



256QAM

# Full&Default Power Mode

## Band 5 Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|
| Channel         |            |         |           | 20450                    | 20525                       | 20600                     |                           |             |
| Frequency (MHz) |            |         |           | 829                      | 836.5                       | 844                       |                           |             |
| 10              | QPSK       | 1       | 0         | 22.74                    | 22.84                       | 22.79                     | 24                        | 0           |
| 10              | QPSK       | 1       | 25        | 22.79                    | 22.78                       | 22.81                     |                           |             |
| 10              | QPSK       | 1       | 49        | 22.80                    | 22.83                       | 22.74                     |                           |             |
| 10              | QPSK       | 25      | 0         | 21.87                    | 22.04                       | 21.83                     | 23                        | 1           |
| 10              | QPSK       | 25      | 12        | 21.93                    | 21.85                       | 21.85                     |                           |             |
| 10              | QPSK       | 25      | 25        | 22.02                    | 21.89                       | 21.90                     |                           |             |
| 10              | QPSK       | 50      | 0         | 21.85                    | 21.96                       | 21.90                     | 23                        | 1           |
| 10              | 16QAM      | 1       | 0         | 22.22                    | 22.21                       | 22.23                     |                           |             |
| 10              | 16QAM      | 1       | 25        | 22.15                    | 22.25                       | 22.28                     |                           |             |
| 10              | 16QAM      | 1       | 49        | 22.24                    | 22.23                       | 22.42                     | 22                        | 2           |
| 10              | 16QAM      | 25      | 0         | 21.03                    | 20.95                       | 20.84                     |                           |             |
| 10              | 16QAM      | 25      | 12        | 20.91                    | 20.92                       | 20.98                     |                           |             |
| 10              | 16QAM      | 25      | 25        | 20.94                    | 20.88                       | 20.90                     | 22                        | 2           |
| 10              | 16QAM      | 50      | 0         | 20.84                    | 20.90                       | 20.75                     |                           |             |
| 10              | 64QAM      | 1       | 0         | 20.92                    | 20.94                       | 20.87                     |                           |             |
| 10              | 64QAM      | 1       | 25        | 20.95                    | 20.89                       | 20.86                     | 22                        | 2           |
| 10              | 64QAM      | 1       | 49        | 20.84                    | 20.90                       | 20.89                     |                           |             |
| 10              | 64QAM      | 25      | 0         | 20.08                    | 19.97                       | 19.88                     |                           |             |
| 10              | 64QAM      | 25      | 12        | 19.94                    | 19.92                       | 19.98                     | 21                        | 3           |
| 10              | 64QAM      | 25      | 25        | 20.10                    | 20.05                       | 19.99                     |                           |             |
| 10              | 64QAM      | 50      | 0         | 19.86                    | 20.00                       | 20.00                     |                           |             |
| 10              | 256QAM     | 1       | 0         | 17.83                    | 17.69                       | 17.82                     | 19                        | 5           |
| 10              | 256QAM     | 1       | 25        | 17.91                    | 17.85                       | 17.79                     |                           |             |
| 10              | 256QAM     | 1       | 49        | 17.77                    | 17.79                       | 17.91                     |                           |             |
| 10              | 256QAM     | 25      | 0         | 17.91                    | 17.74                       | 17.87                     | 19                        | 5           |
| 10              | 256QAM     | 25      | 12        | 17.81                    | 17.80                       | 17.75                     |                           |             |
| 10              | 256QAM     | 25      | 25        | 17.82                    | 17.83                       | 17.82                     |                           |             |
| 10              | 256QAM     | 50      | 0         | 17.79                    | 17.85                       | 17.83                     |                           |             |
| Channel         |            |         |           | 20425                    | 20525                       | 20625                     |                           |             |
| Frequency (MHz) |            |         |           | 826.5                    | 836.5                       | 846.5                     |                           |             |
| 5               | QPSK       | 1       | 0         | 22.54                    | 22.62                       | 22.56                     | 24                        | 0           |
| 5               | QPSK       | 1       | 12        | 22.54                    | 22.65                       | 22.65                     |                           |             |
| 5               | QPSK       | 1       | 24        | 22.56                    | 22.66                       | 22.56                     |                           |             |
| 5               | QPSK       | 12      | 0         | 21.71                    | 21.88                       | 21.69                     | 23                        | 1           |
| 5               | QPSK       | 12      | 7         | 21.75                    | 21.72                       | 21.65                     |                           |             |
| 5               | QPSK       | 12      | 13        | 21.83                    | 21.72                       | 21.73                     |                           |             |
| 5               | QPSK       | 25      | 0         | 21.60                    | 21.72                       | 21.76                     | 23                        | 1           |
| 5               | 16QAM      | 1       | 0         | 22.08                    | 22.05                       | 21.98                     |                           |             |
| 5               | 16QAM      | 1       | 12        | 21.98                    | 22.02                       | 22.13                     |                           |             |
| 5               | 16QAM      | 1       | 24        | 22.03                    | 22.04                       | 22.21                     | 22                        | 2           |
| 5               | 16QAM      | 12      | 0         | 20.90                    | 20.75                       | 20.65                     |                           |             |
| 5               | 16QAM      | 12      | 7         | 20.72                    | 20.76                       | 20.85                     |                           |             |
| 5               | 16QAM      | 12      | 13        | 20.81                    | 20.77                       | 20.78                     | 22                        | 2           |
| 5               | 16QAM      | 25      | 0         | 20.68                    | 20.77                       | 20.60                     |                           |             |
| 5               | 64QAM      | 1       | 0         | 20.78                    | 20.83                       | 20.63                     |                           |             |
| 5               | 64QAM      | 1       | 12        | 20.70                    | 20.70                       | 20.73                     | 22                        | 2           |
| 5               | 64QAM      | 1       | 24        | 20.68                    | 20.67                       | 20.77                     |                           |             |
| 5               | 64QAM      | 12      | 0         | 19.91                    | 19.84                       | 19.66                     |                           |             |
| 5               | 64QAM      | 12      | 7         | 19.78                    | 19.73                       | 19.75                     | 21                        | 3           |

|                 |        |    |    |       |       |       |                           |             |
|-----------------|--------|----|----|-------|-------|-------|---------------------------|-------------|
| 5               | 64QAM  | 12 | 13 | 19.89 | 19.92 | 19.78 |                           |             |
| 5               | 64QAM  | 25 | 0  | 19.68 | 19.77 | 19.76 |                           |             |
| 5               | 256QAM | 1  | 0  | 17.62 | 17.47 | 17.59 |                           |             |
| 5               | 256QAM | 1  | 12 | 17.72 | 17.67 | 17.65 | 19                        | 5           |
| 5               | 256QAM | 1  | 24 | 17.66 | 17.56 | 17.79 | 19                        | 5           |
| 5               | 256QAM | 12 | 0  | 17.73 | 17.50 | 17.63 |                           |             |
| 5               | 256QAM | 12 | 7  | 17.71 | 17.65 | 17.64 |                           |             |
| 5               | 256QAM | 12 | 13 | 17.61 | 17.62 | 17.65 |                           |             |
| 5               | 256QAM | 25 | 0  | 17.66 | 17.62 | 17.62 | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Channel         |        |    |    | 20415 | 20525 | 20635 |                           |             |
| Frequency (MHz) |        |    |    | 825.5 | 836.5 | 847.5 | 24                        | 0           |
| 3               | QPSK   | 1  | 0  | 22.60 | 22.67 | 22.59 |                           |             |
| 3               | QPSK   | 1  | 8  | 22.56 | 22.57 | 22.62 |                           |             |
| 3               | QPSK   | 1  | 14 | 22.61 | 22.62 | 22.63 | 23                        | 1           |
| 3               | QPSK   | 8  | 0  | 21.75 | 21.91 | 21.60 |                           |             |
| 3               | QPSK   | 8  | 4  | 21.82 | 21.71 | 21.73 |                           |             |
| 3               | QPSK   | 8  | 7  | 21.86 | 21.69 | 21.74 |                           |             |
| 3               | QPSK   | 15 | 0  | 21.61 | 21.72 | 21.76 | 23                        | 1           |
| 3               | 16QAM  | 1  | 0  | 22.09 | 22.09 | 22.00 |                           |             |
| 3               | 16QAM  | 1  | 8  | 21.94 | 22.09 | 22.10 |                           |             |
| 3               | 16QAM  | 1  | 14 | 22.01 | 21.99 | 22.26 | 22                        | 2           |
| 3               | 16QAM  | 8  | 0  | 20.81 | 20.80 | 20.61 |                           |             |
| 3               | 16QAM  | 8  | 4  | 20.71 | 20.73 | 20.87 |                           |             |
| 3               | 16QAM  | 8  | 7  | 20.83 | 20.74 | 20.74 |                           |             |
| 3               | 16QAM  | 15 | 0  | 20.66 | 20.78 | 20.56 | 22                        | 2           |
| 3               | 64QAM  | 1  | 0  | 20.76 | 20.69 | 20.69 |                           |             |
| 3               | 64QAM  | 1  | 8  | 20.85 | 20.65 | 20.61 |                           |             |
| 3               | 64QAM  | 1  | 14 | 20.62 | 20.73 | 20.72 | 21                        | 3           |
| 3               | 64QAM  | 8  | 0  | 19.97 | 19.84 | 19.64 |                           |             |
| 3               | 64QAM  | 8  | 4  | 19.69 | 19.79 | 19.77 |                           |             |
| 3               | 64QAM  | 8  | 7  | 19.86 | 19.93 | 19.77 |                           |             |
| 3               | 64QAM  | 15 | 0  | 19.64 | 19.83 | 19.88 | 19                        | 5           |
| 3               | 256QAM | 1  | 0  | 17.62 | 17.53 | 17.71 |                           |             |
| 3               | 256QAM | 1  | 8  | 17.81 | 17.71 | 17.56 |                           |             |
| 3               | 256QAM | 1  | 14 | 17.58 | 17.66 | 17.77 | 19                        | 5           |
| 3               | 256QAM | 8  | 0  | 17.67 | 17.49 | 17.62 |                           |             |
| 3               | 256QAM | 8  | 4  | 17.66 | 17.65 | 17.62 |                           |             |
| 3               | 256QAM | 8  | 7  | 17.62 | 17.70 | 17.64 |                           |             |
| 3               | 256QAM | 15 | 0  | 17.55 | 17.65 | 17.59 | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Channel         |        |    |    | 20407 | 20525 | 20643 |                           |             |
| Frequency (MHz) |        |    |    | 824.7 | 836.5 | 848.3 | 24                        | 0           |
| 1.4             | QPSK   | 1  | 0  | 22.47 | 22.61 | 22.43 |                           |             |
| 1.4             | QPSK   | 1  | 3  | 22.56 | 22.52 | 22.40 |                           |             |
| 1.4             | QPSK   | 1  | 5  | 22.60 | 22.44 | 22.47 |                           |             |
| 1.4             | QPSK   | 3  | 0  | 22.44 | 22.64 | 22.45 |                           |             |
| 1.4             | QPSK   | 3  | 1  | 22.46 | 22.60 | 22.50 |                           |             |
| 1.4             | QPSK   | 3  | 3  | 22.44 | 22.51 | 22.45 | 23                        | 1           |
| 1.4             | QPSK   | 6  | 0  | 21.43 | 21.47 | 21.48 |                           |             |
| 1.4             | 16QAM  | 1  | 0  | 21.62 | 21.42 | 21.46 | 23                        | 1           |
| 1.4             | 16QAM  | 1  | 3  | 21.80 | 21.70 | 21.78 |                           |             |
| 1.4             | 16QAM  | 1  | 5  | 21.40 | 21.60 | 21.73 |                           |             |
| 1.4             | 16QAM  | 3  | 0  | 22.04 | 22.08 | 21.98 |                           |             |
| 1.4             | 16QAM  | 3  | 1  | 21.96 | 21.91 | 22.00 |                           |             |
| 1.4             | 16QAM  | 3  | 3  | 21.84 | 22.05 | 22.15 |                           |             |
| 1.4             | 16QAM  | 6  | 0  | 20.57 | 20.58 | 20.69 | 22                        | 2           |

|     |        |   |   |       |       |       |    |   |
|-----|--------|---|---|-------|-------|-------|----|---|
| 1.4 | 64QAM  | 1 | 0 | 20.69 | 20.51 | 20.77 | 22 | 2 |
| 1.4 | 64QAM  | 1 | 3 | 20.64 | 20.61 | 20.66 |    |   |
| 1.4 | 64QAM  | 1 | 5 | 20.51 | 20.46 | 20.48 |    |   |
| 1.4 | 64QAM  | 3 | 0 | 20.51 | 20.57 | 20.65 |    |   |
| 1.4 | 64QAM  | 3 | 1 | 20.69 | 20.51 | 20.76 |    |   |
| 1.4 | 64QAM  | 3 | 3 | 20.61 | 20.63 | 20.65 | 19 | 5 |
| 1.4 | 64QAM  | 6 | 0 | 20.36 | 20.51 | 20.51 |    |   |
| 1.4 | 256QAM | 1 | 0 | 17.64 | 17.53 | 17.52 |    |   |
| 1.4 | 256QAM | 1 | 3 | 17.58 | 17.53 | 17.44 |    |   |
| 1.4 | 256QAM | 1 | 5 | 17.55 | 17.53 | 17.47 |    |   |
| 1.4 | 256QAM | 3 | 0 | 17.71 | 17.58 | 17.40 |    |   |
| 1.4 | 256QAM | 3 | 1 | 17.51 | 17.49 | 17.46 |    |   |
| 1.4 | 256QAM | 3 | 3 | 17.59 | 17.50 | 17.59 | 19 | 5 |
| 1.4 | 256QAM | 6 | 0 | 17.50 | 17.57 | 17.65 |    |   |

## Band 13 Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|
| Channel         |            |         |           | 23230                    |                             |                           |                           |             |
| Frequency (MHz) |            |         |           | 782                      |                             |                           |                           |             |
| 10              | QPSK       | 1       | 0         |                          | 22.78                       |                           | 24                        | 0           |
| 10              | QPSK       | 1       | 25        |                          | 22.68                       |                           |                           |             |
| 10              | QPSK       | 1       | 49        |                          | 22.77                       |                           |                           |             |
| 10              | QPSK       | 25      | 0         |                          | 22.03                       |                           | 23                        | 1           |
| 10              | QPSK       | 25      | 12        |                          | 21.81                       |                           |                           |             |
| 10              | QPSK       | 25      | 25        |                          | 21.87                       |                           |                           |             |
| 10              | QPSK       | 50      | 0         |                          | 21.94                       |                           | 23                        | 1           |
| 10              | 16QAM      | 1       | 0         |                          | 22.14                       |                           |                           |             |
| 10              | 16QAM      | 1       | 25        |                          | 22.21                       |                           |                           |             |
| 10              | 16QAM      | 1       | 49        |                          | 22.23                       |                           | 22                        | 2           |
| 10              | 16QAM      | 25      | 0         |                          | 20.82                       |                           |                           |             |
| 10              | 16QAM      | 25      | 12        |                          | 20.81                       |                           |                           |             |
| 10              | 16QAM      | 25      | 25        |                          | 20.85                       |                           | 22                        | 2           |
| 10              | 16QAM      | 50      | 0         |                          | 20.81                       |                           |                           |             |
| 10              | 64QAM      | 1       | 0         |                          | 20.86                       |                           |                           |             |
| 10              | 64QAM      | 1       | 25        |                          | 20.89                       |                           | 21                        | 3           |
| 10              | 64QAM      | 1       | 49        |                          | 20.89                       |                           |                           |             |
| 10              | 64QAM      | 25      | 0         |                          | 19.94                       |                           |                           |             |
| 10              | 64QAM      | 25      | 12        |                          | 19.85                       |                           | 19                        | 5           |
| 10              | 64QAM      | 25      | 25        |                          | 19.93                       |                           |                           |             |
| 10              | 64QAM      | 50      | 0         |                          | 19.97                       |                           |                           |             |
| 10              | 256QAM     | 1       | 0         |                          | 17.66                       |                           | 19                        | 5           |
| 10              | 256QAM     | 1       | 25        |                          | 17.80                       |                           |                           |             |
| 10              | 256QAM     | 1       | 49        |                          | 17.69                       |                           |                           |             |
| 10              | 256QAM     | 25      | 0         |                          | 17.67                       |                           | 24                        | 0           |
| 10              | 256QAM     | 25      | 12        |                          | 17.73                       |                           |                           |             |
| 10              | 256QAM     | 25      | 25        |                          | 17.69                       |                           |                           |             |
| 10              | 256QAM     | 50      | 0         |                          | 17.80                       |                           | 23                        | 1           |
| Channel         |            |         |           | 23205                    | 23230                       | 23255                     |                           |             |
| Frequency (MHz) |            |         |           | 779.5                    | 782                         | 784.5                     |                           |             |
| 5               | QPSK       | 1       | 0         | 22.60                    | 22.67                       | 22.60                     | 24                        | 0           |
| 5               | QPSK       | 1       | 12        | 22.55                    | 22.55                       | 22.59                     |                           |             |
| 5               | QPSK       | 1       | 24        | 22.67                    | 22.64                       | 22.63                     |                           |             |
| 5               | QPSK       | 12      | 0         | 21.67                    | 21.93                       | 21.65                     | 23                        | 1           |



|   |        |    |    |       |       |       |    |   |
|---|--------|----|----|-------|-------|-------|----|---|
| 5 | QPSK   | 12 | 7  | 21.83 | 21.66 | 21.72 |    |   |
| 5 | QPSK   | 12 | 13 | 21.82 | 21.77 | 21.73 |    |   |
| 5 | QPSK   | 25 | 0  | 21.73 | 21.81 | 21.70 |    |   |
| 5 | 16QAM  | 1  | 0  | 22.11 | 22.07 | 22.12 | 23 | 1 |
| 5 | 16QAM  | 1  | 12 | 21.96 | 22.14 | 22.15 |    |   |
| 5 | 16QAM  | 1  | 24 | 22.08 | 22.05 | 22.18 |    |   |
| 5 | 16QAM  | 12 | 0  | 20.82 | 20.85 | 20.65 | 22 | 2 |
| 5 | 16QAM  | 12 | 7  | 20.72 | 20.76 | 20.78 |    |   |
| 5 | 16QAM  | 12 | 13 | 20.82 | 20.67 | 20.71 |    |   |
| 5 | 16QAM  | 25 | 0  | 20.66 | 20.76 | 20.58 | 22 | 2 |
| 5 | 64QAM  | 1  | 0  | 20.74 | 20.82 | 20.62 |    |   |
| 5 | 64QAM  | 1  | 12 | 20.80 | 20.74 | 20.70 |    |   |
| 5 | 64QAM  | 1  | 24 | 20.72 | 20.70 | 20.74 | 21 | 3 |
| 5 | 64QAM  | 12 | 0  | 19.93 | 19.73 | 19.64 |    |   |
| 5 | 64QAM  | 12 | 7  | 19.80 | 19.71 | 19.75 |    |   |
| 5 | 64QAM  | 12 | 13 | 19.87 | 19.92 | 19.78 | 19 | 5 |
| 5 | 64QAM  | 25 | 0  | 19.66 | 19.82 | 19.80 |    |   |
| 5 | 256QAM | 1  | 0  | 17.58 | 17.56 | 17.72 |    |   |
| 5 | 256QAM | 1  | 12 | 17.78 | 17.67 | 17.68 | 19 | 5 |
| 5 | 256QAM | 1  | 24 | 17.63 | 17.69 | 17.78 |    |   |
| 5 | 256QAM | 12 | 0  | 17.80 | 17.51 | 17.75 |    |   |
| 5 | 256QAM | 12 | 7  | 17.63 | 17.65 | 17.64 | 19 | 5 |
| 5 | 256QAM | 12 | 13 | 17.59 | 17.60 | 17.69 |    |   |
| 5 | 256QAM | 25 | 0  | 17.65 | 17.65 | 17.66 |    |   |

## Band 17 Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|
| Channel         |            |         |           | 23780                    | 23790                       | 23800                     |                           |             |
| Frequency (MHz) |            |         |           | 709                      | 710                         | 711                       |                           |             |
| 10              | QPSK       | 1       | 0         | 22.70                    | 22.75                       | 22.68                     | 24                        | 0           |
| 10              | QPSK       | 1       | 25        | 22.69                    | 22.65                       | 22.67                     |                           |             |
| 10              | QPSK       | 1       | 49        | 22.73                    | 22.73                       | 22.61                     |                           |             |
| 10              | QPSK       | 25      | 0         | 21.76                    | 21.94                       | 21.69                     | 23                        | 1           |
| 10              | QPSK       | 25      | 12        | 21.90                    | 21.83                       | 21.83                     |                           |             |
| 10              | QPSK       | 25      | 25        | 21.66                    | 21.74                       | 21.84                     |                           |             |
| 10              | QPSK       | 50      | 0         | 21.80                    | 21.91                       | 21.89                     | 23                        | 1           |
| 10              | 16QAM      | 1       | 0         | 22.19                    | 22.16                       | 22.10                     |                           |             |
| 10              | 16QAM      | 1       | 25        | 22.00                    | 22.20                       | 22.15                     |                           |             |
| 10              | 16QAM      | 1       | 49        | 22.18                    | 22.11                       | 22.33                     | 22                        | 2           |
| 10              | 16QAM      | 25      | 0         | 20.91                    | 20.92                       | 20.71                     |                           |             |
| 10              | 16QAM      | 25      | 12        | 20.79                    | 20.89                       | 20.83                     |                           |             |
| 10              | 16QAM      | 25      | 25        | 20.90                    | 20.79                       | 20.83                     | 22                        | 2           |
| 10              | 16QAM      | 50      | 0         | 20.71                    | 20.84                       | 20.62                     |                           |             |
| 10              | 64QAM      | 1       | 0         | 20.89                    | 20.83                       | 20.80                     |                           |             |
| 10              | 64QAM      | 1       | 25        | 20.84                    | 20.82                       | 20.77                     | 21                        | 3           |
| 10              | 64QAM      | 1       | 49        | 20.80                    | 20.80                       | 20.81                     |                           |             |
| 10              | 64QAM      | 25      | 0         | 20.07                    | 19.90                       | 19.80                     |                           |             |
| 10              | 64QAM      | 25      | 12        | 19.88                    | 19.77                       | 19.94                     | 19                        | 5           |
| 10              | 64QAM      | 25      | 25        | 19.98                    | 19.93                       | 19.89                     |                           |             |
| 10              | 64QAM      | 50      | 0         | 19.83                    | 19.97                       | 19.95                     |                           |             |
| 10              | 256QAM     | 1       | 0         | 17.76                    | 17.54                       | 17.74                     | 19                        | 5           |
| 10              | 256QAM     | 1       | 25        | 17.78                    | 17.83                       | 17.72                     |                           |             |
| 10              | 256QAM     | 1       | 49        | 17.65                    | 17.76                       | 17.81                     |                           |             |
| 10              | 256QAM     | 25      | 0         | 17.84                    | 17.61                       | 17.78                     | 19                        | 5           |

|                 |        |    |    |       |       |       |                     |          |
|-----------------|--------|----|----|-------|-------|-------|---------------------|----------|
| 10              | 256QAM | 25 | 12 | 17.68 | 17.78 | 17.75 |                     |          |
| 10              | 256QAM | 25 | 25 | 17.71 | 17.79 | 17.68 |                     |          |
| 10              | 256QAM | 50 | 0  | 17.77 | 17.83 | 17.78 |                     |          |
| Channel         |        |    |    | 23755 | 23790 | 23825 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |        |    |    | 706.5 | 710   | 713.5 |                     |          |
| 5               | QPSK   | 1  | 0  | 22.63 | 22.69 | 22.66 | 24                  | 0        |
| 5               | QPSK   | 1  | 12 | 22.65 | 22.59 | 22.65 |                     |          |
| 5               | QPSK   | 1  | 24 | 22.67 | 22.59 | 22.63 |                     |          |
| 5               | QPSK   | 12 | 0  | 21.73 | 21.85 | 21.65 | 23                  | 1        |
| 5               | QPSK   | 12 | 7  | 21.75 | 21.63 | 21.61 |                     |          |
| 5               | QPSK   | 12 | 13 | 21.89 | 21.67 | 21.67 |                     |          |
| 5               | QPSK   | 25 | 0  | 21.61 | 21.84 | 21.79 | 23                  | 1        |
| 5               | 16QAM  | 1  | 0  | 21.97 | 22.02 | 22.12 |                     |          |
| 5               | 16QAM  | 1  | 12 | 21.96 | 22.07 | 22.17 |                     |          |
| 5               | 16QAM  | 1  | 24 | 22.09 | 22.02 | 22.32 | 22                  | 2        |
| 5               | 16QAM  | 12 | 0  | 20.79 | 20.77 | 20.63 |                     |          |
| 5               | 16QAM  | 12 | 7  | 20.75 | 20.73 | 20.82 |                     |          |
| 5               | 16QAM  | 12 | 13 | 20.70 | 20.65 | 20.72 | 22                  | 2        |
| 5               | 16QAM  | 25 | 0  | 20.60 | 20.66 | 20.57 |                     |          |
| 5               | 64QAM  | 1  | 0  | 20.74 | 20.75 | 20.64 |                     |          |
| 5               | 64QAM  | 1  | 12 | 20.71 | 20.70 | 20.64 | 22                  | 2        |
| 5               | 64QAM  | 1  | 24 | 20.66 | 20.66 | 20.76 |                     |          |
| 5               | 64QAM  | 12 | 0  | 19.89 | 19.85 | 19.77 |                     |          |
| 5               | 64QAM  | 12 | 7  | 19.77 | 19.75 | 19.88 | 21                  | 3        |
| 5               | 64QAM  | 12 | 13 | 19.91 | 19.81 | 19.83 |                     |          |
| 5               | 64QAM  | 25 | 0  | 19.69 | 19.84 | 19.80 |                     |          |
| 5               | 256QAM | 1  | 0  | 17.73 | 17.51 | 17.71 | 19                  | 5        |
| 5               | 256QAM | 1  | 12 | 17.74 | 17.63 | 17.65 |                     |          |
| 5               | 256QAM | 1  | 24 | 17.55 | 17.60 | 17.75 |                     |          |
| 5               | 256QAM | 12 | 0  | 17.69 | 17.61 | 17.63 | 19                  | 5        |
| 5               | 256QAM | 12 | 7  | 17.68 | 17.63 | 17.54 |                     |          |
| 5               | 256QAM | 12 | 13 | 17.62 | 17.70 | 17.63 |                     |          |
| 5               | 256QAM | 25 | 0  | 17.64 | 17.65 | 17.71 |                     |          |

## Band 26 for FCC Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 26765                 | 26865                    | 26965                  |                     |          |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |
| 15              | QPSK       | 1       | 0         | 22.84                 | 23.04                    | 22.89                  | 24                  | 0        |
| 15              | QPSK       | 1       | 37        | 22.97                 | 22.91                    | 22.96                  |                     |          |
| 15              | QPSK       | 1       | 74        | 22.99                 | 22.93                    | 22.84                  |                     |          |
| 15              | QPSK       | 36      | 0         | 22.06                 | 22.24                    | 21.89                  | 23                  | 1        |
| 15              | QPSK       | 36      | 20        | 22.00                 | 22.05                    | 21.94                  |                     |          |
| 15              | QPSK       | 36      | 39        | 22.20                 | 22.09                    | 21.97                  |                     |          |
| 15              | QPSK       | 75      | 0         | 22.04                 | 22.14                    | 21.99                  | 23                  | 1        |
| 15              | 16QAM      | 1       | 0         | 22.40                 | 22.34                    | 22.41                  |                     |          |
| 15              | 16QAM      | 1       | 37        | 22.33                 | 22.36                    | 22.45                  |                     |          |
| 15              | 16QAM      | 1       | 74        | 22.43                 | 22.36                    | 22.48                  | 22                  | 2        |
| 15              | 16QAM      | 36      | 0         | 21.23                 | 21.14                    | 20.95                  |                     |          |
| 15              | 16QAM      | 36      | 20        | 21.04                 | 21.09                    | 21.12                  |                     |          |
| 15              | 16QAM      | 36      | 39        | 21.09                 | 21.05                    | 21.07                  | 22                  | 2        |
| 15              | 16QAM      | 75      | 0         | 20.91                 | 21.04                    | 20.87                  |                     |          |
| 15              | 64QAM      | 1       | 0         | 21.09                 | 21.11                    | 20.93                  | 22                  | 2        |

|                 |        |    |    |       |       |       |                           |             |
|-----------------|--------|----|----|-------|-------|-------|---------------------------|-------------|
| 15              | 64QAM  | 1  | 37 | 21.11 | 21.05 | 21.01 |                           |             |
| 15              | 64QAM  | 1  | 74 | 20.99 | 20.98 | 21.04 |                           |             |
| 15              | 64QAM  | 36 | 0  | 20.22 | 20.06 | 20.06 |                           |             |
| 15              | 64QAM  | 36 | 20 | 20.06 | 20.06 | 20.11 |                           |             |
| 15              | 64QAM  | 36 | 39 | 20.18 | 20.18 | 20.14 |                           |             |
| 15              | 64QAM  | 75 | 0  | 19.95 | 20.11 | 20.09 | 21                        | 3           |
| 15              | 256QAM | 1  | 0  | 17.94 | 17.76 | 17.98 |                           |             |
| 15              | 256QAM | 1  | 37 | 18.02 | 17.99 | 17.96 |                           |             |
| 15              | 256QAM | 1  | 74 | 17.82 | 17.84 | 18.08 | 19                        | 5           |
| 15              | 256QAM | 36 | 0  | 18.11 | 17.93 | 17.94 |                           |             |
| 15              | 256QAM | 36 | 20 | 17.91 | 17.86 | 17.94 |                           |             |
| 15              | 256QAM | 36 | 39 | 17.92 | 17.89 | 17.90 |                           |             |
| 15              | 256QAM | 75 | 0  | 17.93 | 17.97 | 17.96 |                           |             |
| Channel         |        |    |    | 26740 | 26865 | 26990 | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 819   | 831.5 | 844   |                           |             |
| 10              | QPSK   | 1  | 0  | 22.68 | 22.74 | 22.73 | 24                        | 0           |
| 10              | QPSK   | 1  | 25 | 22.69 | 22.68 | 22.71 |                           |             |
| 10              | QPSK   | 1  | 49 | 22.80 | 22.82 | 22.62 |                           |             |
| 10              | QPSK   | 25 | 0  | 21.84 | 21.93 | 21.70 | 23                        | 1           |
| 10              | QPSK   | 25 | 12 | 21.90 | 21.85 | 21.81 |                           |             |
| 10              | QPSK   | 25 | 25 | 21.93 | 21.85 | 21.81 |                           |             |
| 10              | QPSK   | 50 | 0  | 21.80 | 21.82 | 21.77 |                           |             |
| 10              | 16QAM  | 1  | 0  | 22.12 | 22.06 | 22.23 | 23                        | 1           |
| 10              | 16QAM  | 1  | 25 | 22.09 | 22.23 | 22.18 |                           |             |
| 10              | 16QAM  | 1  | 49 | 22.11 | 22.15 | 22.36 |                           |             |
| 10              | 16QAM  | 25 | 0  | 20.93 | 20.80 | 20.73 | 22                        | 2           |
| 10              | 16QAM  | 25 | 12 | 20.91 | 20.77 | 20.85 |                           |             |
| 10              | 16QAM  | 25 | 25 | 20.85 | 20.81 | 20.81 |                           |             |
| 10              | 16QAM  | 50 | 0  | 20.80 | 20.75 | 20.67 |                           |             |
| 10              | 64QAM  | 1  | 0  | 20.86 | 20.88 | 20.78 | 22                        | 2           |
| 10              | 64QAM  | 1  | 25 | 20.94 | 20.89 | 20.82 |                           |             |
| 10              | 64QAM  | 1  | 49 | 20.73 | 20.84 | 20.75 |                           |             |
| 10              | 64QAM  | 25 | 0  | 20.00 | 19.96 | 19.83 | 21                        | 3           |
| 10              | 64QAM  | 25 | 12 | 19.93 | 19.88 | 19.90 |                           |             |
| 10              | 64QAM  | 25 | 25 | 19.97 | 19.93 | 19.91 |                           |             |
| 10              | 64QAM  | 50 | 0  | 19.77 | 19.93 | 19.93 |                           |             |
| 10              | 256QAM | 1  | 0  | 17.78 | 17.66 | 17.68 | 19                        | 5           |
| 10              | 256QAM | 1  | 25 | 17.80 | 17.78 | 17.73 |                           |             |
| 10              | 256QAM | 1  | 49 | 17.71 | 17.72 | 17.88 |                           |             |
| 10              | 256QAM | 25 | 0  | 17.83 | 17.70 | 17.84 | 19                        | 5           |
| 10              | 256QAM | 25 | 12 | 17.72 | 17.76 | 17.66 |                           |             |
| 10              | 256QAM | 25 | 25 | 17.77 | 17.73 | 17.70 |                           |             |
| 10              | 256QAM | 50 | 0  | 17.64 | 17.74 | 17.74 |                           |             |
| Channel         |        |    |    | 26715 | 26865 | 27015 | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |        |    |    | 816.5 | 831.5 | 846.5 |                           |             |
| 5               | QPSK   | 1  | 0  | 22.63 | 22.80 | 22.65 | 24                        | 0           |
| 5               | QPSK   | 1  | 12 | 22.70 | 22.69 | 22.78 |                           |             |
| 5               | QPSK   | 1  | 24 | 22.76 | 22.73 | 22.64 |                           |             |
| 5               | QPSK   | 12 | 0  | 21.74 | 21.96 | 21.78 | 23                        | 1           |
| 5               | QPSK   | 12 | 7  | 21.90 | 21.78 | 21.78 |                           |             |
| 5               | QPSK   | 12 | 13 | 22.00 | 21.85 | 21.84 |                           |             |
| 5               | QPSK   | 25 | 0  | 21.78 | 21.84 | 21.90 |                           |             |
| 5               | 16QAM  | 1  | 0  | 22.20 | 22.21 | 22.12 | 23                        | 1           |
| 5               | 16QAM  | 1  | 12 | 22.08 | 22.21 | 22.14 |                           |             |
| 5               | 16QAM  | 1  | 24 | 22.18 | 22.22 | 22.35 |                           |             |