



SAR EVALUATION REPORT

**FCC 47 CFR § 2.1093
IEEE Std 1528-2013**

For
SMARTPHONE

**FCC ID: BCG-E3548A
Model Name: A2342**

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Table of Contents

1.	Attestation of Test Results	6
2.	Test Specification, Methods and Procedures.....	7
3.	Facilities and Accreditation	8
4.	SAR Measurement System & Test Equipment	9
4.1.	<i>SAR Measurement System.....</i>	<i>9</i>
4.2.	<i>SAR Scan Procedures.....</i>	<i>10</i>
4.3.	<i>Test Equipment.....</i>	<i>12</i>
5.	Measurement Uncertainty.....	15
6.	Device Under Test (DUT) Information	16
6.1.	<i>DUT Description</i>	<i>16</i>
6.2.	<i>Wireless Technologies.....</i>	<i>17</i>
6.3.	<i>General LTE SAR Test and Reporting Considerations.....</i>	<i>19</i>
6.4.	<i>LTE (TDD) Considerations.....</i>	<i>22</i>
6.5.	<i>General 5G NR(FR1) SAR Test and Reporting Considerations</i>	<i>23</i>
6.6.	<i>Time-Average Feature</i>	<i>25</i>
7.	RF Exposure Conditions (Test Configurations)	28
8.	Dielectric Property Measurements & System Check	29
8.1.	<i>Dielectric Property Measurements</i>	<i>29</i>
8.2.	<i>System Check.....</i>	<i>45</i>
9.	Conducted Output Power Measurements.....	51
9.1.	<i>GSM</i>	<i>51</i>
9.2.	<i>W-CDMA</i>	<i>54</i>
9.3.	<i>CDMA.....</i>	<i>66</i>
9.4.	<i>LTE.....</i>	<i>71</i>
9.5.	<i>LTE Up-Link Carrier Aggregation.....</i>	<i>145</i>
9.6.	<i>LTE Down-Link Carrier Aggregation</i>	<i>156</i>
9.7.	<i>5G NR(FR1)</i>	<i>157</i>
9.8.	<i>Wi-Fi 2.4GHz (DTS Band)</i>	<i>190</i>
9.9.	<i>Wi-Fi 5GHz (U-NII Bands).....</i>	<i>192</i>
9.10.	<i>Bluetooth.....</i>	<i>197</i>
10.	Measured and Reported (Scaled) SAR Results.....	199
10.1.	<i>GSM850.....</i>	<i>200</i>
10.2.	<i>GSM1900.....</i>	<i>201</i>

10.3.	W-CDMA Band 2.....	202
10.4.	W-CDMA Band 4.....	203
10.5.	W-CDMA Band 5.....	204
10.6.	CDMA BC0.....	204
10.7.	CDMA BC1.....	205
10.8.	CDMA BC10.....	206
10.9.	LTE Band 5 (10MHz Bandwidth)	207
10.10.	LTE Band 7 (20MHz Bandwidth)	208
10.11.	LTE Band 12 (10MHz Bandwidth)	210
10.12.	LTE Band 13 (10MHz Bandwidth)	211
10.13.	LTE Band 14 (10MHz Bandwidth)	212
10.14.	LTE Band 25 (20MHz Bandwidth)	213
10.15.	LTE Band 26 (10MHz Bandwidth)	215
10.16.	LTE Band 30 (10MHz Bandwidth)	216
10.17.	LTE Band 41 Power Class 3 (20MHz Bandwidth).....	218
10.18.	LTE Band 41 Power Class 2 (20MHz Bandwidth).....	220
10.19.	LTE Band 48 (20MHz Bandwidth)	221
10.20.	LTE Band 66 (20MHz Bandwidth)	223
10.21.	LTE Band 71 (20MHz Bandwidth)	225
10.22.	5G NR Band n5 (20MHz Bandwidth).....	226
10.23.	5G NR Band n12 (15MHz Bandwidth).....	226
10.24.	5G NR Band n25 (20MHz Bandwidth).....	227
10.25.	5G NR Band n41 (100MHz Bandwidth).....	227
10.26.	5G NR Band n41 Power Class 2 (100MHz Bandwidth)	228
10.27.	5G NR Band n66 (20MHz Bandwidth).....	229
10.28.	5G NR Band n71 (20MHz Bandwidth)	229
10.29.	5G NR Band n77 (100MHz Bandwidth)	230
10.30.	Wi-Fi (DTS Band).....	232
10.31.	Wi-Fi (U-NII Band).....	233
10.32.	Bluetooth.....	235
11.	SAR Measurement Variability.....	236
12.	Simultaneous Transmission Conditions	237
12.1.	Sum of the SAR for WWAN Cell-off & Wi-Fi & BT results.....	239
12.2.	Sum of the SAR for WWAN Cell-on(ANT1) & Wi-Fi & BT results.....	239
12.3.	Sum of the SAR for WWAN Cell-on(ANT2) & Wi-Fi & BT results.....	240
12.4.	Sum of the SAR for WWAN Cell-on(ANT3) & Wi-Fi & BT results.....	241
12.5.	Sum of the SAR for WWAN Cell-on(ANT4) & Wi-Fi & BT results.....	242

12.6.	Sum of the SAR for WWAN Cell-on(ANT7) & Wi-Fi & BT results.....	243
12.7.	Sum of the SAR for WWAN Cell-on(ANT8) & Wi-Fi & BT results.....	244
12.8.	Sum of the SAR for WWAN Cell-on(ANT9) & Wi-Fi & BT results.....	245
Appendixes		246
Appendix A:	SAR Setup Photos	246
Appendix B:	SAR System Check Plots	246
Appendix C:	SAR Highest Test Plots.....	246
Appendix D:	SAR Tissue Ingredients.....	246
Appendix E:	SAR Probe Certificates.....	246
Appendix F:	SAR Dipole Certificates	246
Appendix G:	LTE Down-Link Carrier Aggregation.....	246
Appendix H:	Body Detect Validation.....	246
Appendix I:	Wi-Fi Time-Averaged SAR(TAS)	246

1. Attestation of Test Results

Applicant Name	APPLE, INC.			
FCC ID	BCG-E3548A			
Model Name	A2342			
Applicable Standards	FCC 47 CFR § 2.1093 Published RF exposure KDB procedures IEEE Std 1528-2013			
Exposure Category	SAR Limits (W/Kg)			
	Peak spatial-average(1g of tissue)		Extremities (hands, wrists, ankles, etc.) (10g of tissue)	
General population / Uncontrolled exposure	1.6		4	
RF Exposure Conditions	Equipment Class - Highest Reported SAR (W/kg)			
	PCE	DTS	NII	DSS
Head	0.999	1.130	1.167	1.070
Body-worn (Dist.= 5 mm)	0.991	1.050	1.193	0.968
Hotspot (Dist.= 5 mm)	0.991	1.120	1.193	0.968
Simultaneous TX	Head	1.390	1.296	1.390
	Body-worn	1.489	1.489	1.574
	Hotspot	1.489	1.489	1.574
Date Tested	8/10/2018 to 9/29/2020			
Test Results	Pass			
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of the U.S. government.				
Approved & Released By:		Prepared By:		
				
Devin Chang Senior Test Engineer UL Verification Services Inc.		Chakrit Thammanavarat Senior Test Engineer UL Verification Services Inc.		

2. Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE STD 1528-2013, the following FCC Published RF exposure [KDB](#) procedures:

- 248227 D01 802.11 Wi-Fi SAR v02r02
- 447498 D01 General RF Exposure Guidance v06
- 447498 D03 Supplement C Cross-Reference v01
- 648474 D04 Handset SAR v01r03
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 865664 D02 RF Exposure Reporting v01r02
- 941225 D01 3G SAR Procedures v03r01
- 941225 D05 SAR for LTE Devices v02r05
- 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
- 941225 D06 Hotspot Mode v02r01

In addition to the above, the following information was used:

- [TCB workshop](#) October 2014; RF Exposure Procedures (Other LTE Considerations)
- [TCB workshop](#) April 2015; RF Exposure Procedures (Overlapping LTE Bands)
- [TCB workshop](#) October 2015; RF Exposure Procedures (KDB 941225 D05A)
- [TCB workshop](#) April 2016; RF Exposure Procedures (LTE Carrier Aggregation for DL)
- [TCB workshop](#) October 2016; RF Exposure Procedures (LTE Carrier Aggregation for UL)
- [TCB workshop](#) October 2016; RF Exposure Procedures (Bluetooth Duty Factor)
- [TCB workshop](#) October 2016; RF Exposure Procedures (DUT Holder Perturbations)
- [TCB workshop](#) May 2017; RF Exposure Procedures (Broadband Liquid Above 3 GHz)
- [TCB workshop](#) May 2017; RF Exposure Procedures (LTE Band 41 Power Class 2)
- [TCB workshop](#) November 2017; RF Exposure Procedures (LTE UL/DL Carrier Aggregation SAR)
- [TCB workshop](#) April 2018; RF Exposure Procedures (LTE DL CA SAR Test Exclusion)
- [TCB workshop](#) October 2018; RF Exposure Procedures (LTE Inter-Band Uplink Carrier Aggregation – Interim Procedures)
- [TCB workshop](#) April 2019; RF Exposure Procedures (802.11ax SAR Testing)
- [TCB workshop](#) November 2019; RF Exposure Policy Updates (5G NR FR1 NSA EN-DCUE SAR Evaluations)

3. Facilities and Accreditation

The test sites and measurement facilities used to collect data are located at

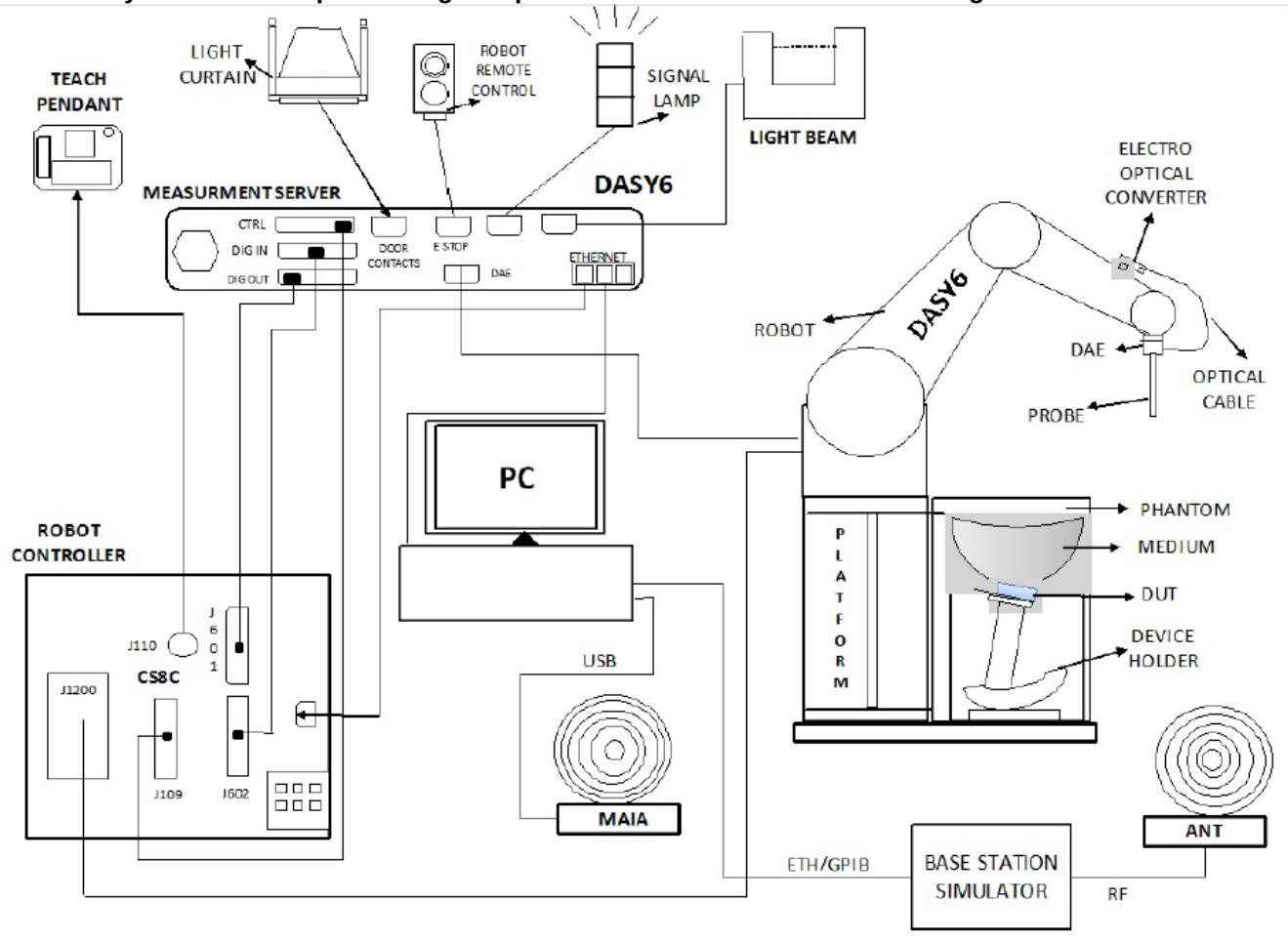
47173 Benicia Street	47266 Benicia Street
SAR Lab A	SAR Lab 1
SAR Lab B	SAR Lab 2
SAR Lab C	SAR Lab 3
SAR Lab D	SAR Lab 4
SAR Lab E	SAR Lab 5
SAR Lab F	SAR Lab 6
SAR Lab G	SAR Lab 8
SAR Lab H	SAR Lab L1
	SAR Lab L2
	SAR Lab L3
	SAR Lab L4
	SAR Lab L6

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0.

4. SAR Measurement System & Test Equipment

4.1. SAR Measurement System

The DASY5 system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

4.2. SAR Scan Procedures

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 2.1 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE Standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan). If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The Zoom Scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1 g and 10 g and displays these values next to the job's label.

Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

Step 4: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

4.3. Test Equipment

The measuring equipment used to perform the tests documented in this report has been calibrated in accordance with the manufacturers' recommendations, and is traceable to recognized national standards.

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Network Analyzer	Rohde & Schwarz	ZNLE6	101273	2/27/2021
Dielectric Probe kit	SPEAG	DAK-3.5	1103	1/16/2021
Shorting block	SPEAG	DAK-3.5 Short	SM DAK200BA	11/19/2020
Thermometer	Fischer Scientific	4242	140493798	6/5/2021
Network Analyzer	Rohde & Schwarz	ZNLE6	101274-mn	2/26/2021
Dielectric Probe kit	SPEAG	DAK-3.5	1082	10/8/2020
Shorting block	SPEAG	DAK-3.5 Short	SM DAK200DA	10/8/2020
Thermometer	Fischer Scientific	4242	140562250	6/5/2021

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Signal Generator	Rohde & Schwarz	SMB 100A	180969-yC	2/18/2021
Power Sensor	Rohde & Schwarz	NRP18A	100994-RE	2/18/2021
Signal Generator	Rohde & Schwarz	SMB 100A	180970-zC	2/18/2021
Power Sensor	Rohde & Schwarz	NRP18A	100995-hs	2/18/2021
Signal Generator	Rohde & Schwarz	SMB 100A	180968-gX	2/18/2021
Power Sensor	Rohde & Schwarz	NRP18A	100992-iu	2/18/2021
MXG Analog Signal Generator	Agilent	N5181A	MY50140630	1/21/2021
Power Sensor	Agilent	8481A	2237A31744	2/26/2021
Power Sensor	Agilent	8481A	2702A60780	2/12/2021
Power Meter	HP	437B	3125U16345	1/22/2021
Power Meter	HP	437B	3125U12345	1/22/2021
Regulated DC Power Supply	Ametek	XT15-4	1802A01877	N/A
MXG Analog Signal Generator	Agilent	N5181A	MY50140610	1/21/2021
Power Meter	HP	437B	3125U11364	1/22/2021
Power Meter	HP	437B	3125U09516	1/22/2021
Power Sensor	Agilent	8481A	1926A27048	2/12/2021
Power Sensor	Agilent	8481A	3318A92374	2/12/2021
DC Power Supply	HP	6296A	2841A-05955	N/A

Note(s):

*Equipment not used past calibration due date.

Lab Equipment

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
E-Field Probe (SAR Lab A)	SPEAG	EX3DV4	3794	2/14/2021
E-Field Probe (SAR Lab B)	SPEAG	EX3DV4	7463	7/24/2021
E-Field Probe (SAR Lab D)	SPEAG	EX3DV4	3773	3/20/2021
E-Field Probe (SAR Lab E)	SPEAG	EX3DV4	3989	1/23/2021
E-Field Probe (SAR Lab E)	SPEAG	EX3DV4	7578	2/10/2021
E-Field Probe (SAR Lab F)	SPEAG	EX3DV4	3902	5/15/2021
E-Field Probe (SAR Lab G)	SPEAG	EX3DV4	7498	4/24/2021
E-Field Probe (SAR Lab H)	SPEAG	EX3DV4	7500	4/24/2021
E-Field Probe (SAR Lab 1)	SPEAG	EX3DV4	7483	11/25/2020
E-Field Probe (SAR Lab 1)	SPEAG	EX3DV4	7335	2/21/2021
E-Field Probe (SAR Lab 2)	SPEAG	EX3DV4	3749	1/23/2021
E-Field Probe (SAR Lab 3)	SPEAG	EX3DV4	7501	5/15/2021
E-Field Probe (SAR Lab 4)	SPEAG	EX3DV4	3885	10/16/2020
E-Field Probe (SAR Lab 4)	SPEAG	EX3DV4	7356	4/23/2021
E-Field Probe (SAR Lab 5)	SPEAG	EX3DV4	3686	9/26/2020
E-Field Probe (SAR Lab 5)	SPEAG	EX3DV4	7482	7/27/2021
E-Field Probe (SAR Lab 6)	SPEAG	EX3DV4	3772	2/21/2021
E-Field Probe (SAR Lab 8)	SPEAG	EX3DV4	7335	2/21/2021
E-Field Probe (SAR Lab L1)	SPEAG	EX3DV4	7585	5/7/2021
E-Field Probe (SAR Lab L2)	SPEAG	EX3DV4	7587	5/8/2021
E-Field Probe (SAR Lab L3)	SPEAG	EX3DV4	7589	5/8/2021
E-Field Probe (SAR Lab L4)	SPEAG	EX3DV4	7586	5/8/2021
E-Field Probe (SAR Lab L6)	SPEAG	EX3DV4	7572	5/7/2021
Data Acquisition Electronics (SAR Lab A)	SPEAG	DAE4	1258	5/13/2021
Data Acquisition Electronics (SAR Lab A)	SPEAG	DAE4	1439	7/16/2021
Data Acquisition Electronics (SAR Lab B)	SPEAG	DAE4	1545	4/15/2021
Data Acquisition Electronics (SAR Lab D)	SPEAG	DAE4	1433	3/17/2021
Data Acquisition Electronics (SAR Lab E)	SPEAG	DAE4	1377	10/10/2020
Data Acquisition Electronics (SAR Lab E)	SPEAG	DAE4	1239	7/29/2021
Data Acquisition Electronics (SAR Lab F)	SPEAG	DAE4	1352	11/15/2020
Data Acquisition Electronics (SAR Lab G)	SPEAG	DAE4	1544	3/16/2021
Data Acquisition Electronics (SAR Lab H)	SPEAG	DAE4	1548	4/15/2021
Data Acquisition Electronics (SAR Lab 1)	SPEAG	DAE4	1380	8/19/2021
Data Acquisition Electronics (SAR Lab 2)	SPEAG	DAE4	1472	3/12/2021
Data Acquisition Electronics (SAR Lab 3)	SPEAG	DAE4	1546	5/15/2021
Data Acquisition Electronics (SAR Lab 4)	SPEAG	DAE4	1547	5/15/2021
Data Acquisition Electronics (SAR Lab 5)	SPEAG	DAE4	1540	2/21/2021
Data Acquisition Electronics (SAR Lab 6)	SPEAG	DAE4	1380	8/27/2020*
Data Acquisition Electronics (SAR Lab 6)	SPEAG	DAE4	1259	7/16/2021
Data Acquisition Electronics (SAR Lab 8)	SPEAG	DAE4	1359	2/26/2021
Data Acquisition Electronics (SAR Lab L1)	SPEAG	DAE4	1618	5/7/2021
Data Acquisition Electronics (SAR Lab L2)	SPEAG	DAE4	1621	5/7/2021
Data Acquisition Electronics (SAR Lab L3)	SPEAG	DAE4	1619	5/7/2021
Data Acquisition Electronics (SAR Lab L4)	SPEAG	DAE4	1622	5/8/2021
Data Acquisition Electronics (SAR Lab L6)	SPEAG	DAE4	1617	5/7/2021

Note(s):

*Equipment not used past calibration due date.

Lab Equipment

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
System Validation Dipole	SPEAG	D750V3	1071	11/20/2020
System Validation Dipole	SPEAG	D835V2	4d002	11/20/2020
System Validation Dipole	SPEAG	D835V2	4d142	8/18/2021
System Validation Dipole	SPEAG	D1750V2	1053	10/10/2020
System Validation Dipole	SPEAG	D1750V2	1050	4/21/2021
System Validation Dipole	SPEAG	D1750V2	1077	10/10/2020
System Validation Dipole	SPEAG	D1900V2	5d163	10/14/2020
System Validation Dipole	SPEAG	D1900V2	5d043	11/20/2020
System Validation Dipole	SPEAG	D1900V2	5d140	4/21/2021
System Validation Dipole	SPEAG	D2300V2	1002	4/17/2021
System Validation Dipole	SPEAG	D2300V2	1058	10/14/2020
System Validation Dipole	SPEAG	D2450V2	899	4/17/2021
System Validation Dipole	SPEAG	D2450V2	748	3/12/2021
System Validation Dipole	SPEAG	D2600V2	1036	4/17/2021
System Validation Dipole	SPEAG	D2600V2	1006	10/14/2020
System Validation Dipole	SPEAG	D3500V2	1011	4/17/2021
System Validation Dipole	SPEAG	D3500V2	1060	3/12/2021
System Validation Dipole	SPEAG	D3700V2	1039	5/11/2021
System Validation Dipole	SPEAG	D3900V2	1052	8/3/2021
System Validation Dipole	SPEAG	D5GHzV2	1168	11/23/2020
System Validation Dipole	SPEAG	D5GHzV2	1003	3/12/2021

Note(s):

*Equipment not used past calibration due date.

OTHER

Name of Equipment	Manufacturer	Type/Model	T Number	Serial No.	Cal. Due Date
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	959	137873-WG	2/19/2021
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	953	135390-WS	2/23/2021
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	957	134852-cy	2/25/2021
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	949	134851-LL	2/20/2021
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	970	137875-DZ	2/26/2021
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	259	124594-HX	2/21/2021
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	960	135384-pJ	2/26/2021
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	978	137877-ms	2/20/2021
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	268	124593-ss	2/19/2021
Power Meter	Keysight	N1912A	1273	MY55196007	1/22/2021
Power Sensor	Keysight	N1912A	309	MY52270022	2/13/2021
Power Sensor	Rohde & Schwarz	NRP85	211886	109115-nc	4/20/2021
Lab Thermometer	Keysight	Traceable	1819	170024401	3/11/2021

5. Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval.

Therefore, the measurement uncertainty is not required.

6. Device Under Test (DUT) Information

6.1. DUT Description

The Apple iPhone is a smartphone with multimedia functions (music, application support, and video), cellular GSM, GPRS, EGPRS, UMTS, LTE, 5G, CDMA, IEEE 802.11a/b/g/n/ac/ax, Bluetooth, Ultra-Wideband, GPS, NFC and WPT. All models support at least one UICC based SIM. The second SIM is either an UICC based p-SIM (physical SIM) or e-SIM (electronic SIM). The device supports a built-in inductive charging transmitter and receiver. The rechargeable battery is not user accessible.

The device utilizes two power modes: Mode A(DSI=0) and Mode B(DSI=1). Power selection is determined by the device's positioning and use case as described in Sec. 10. Mode A power is used when the device is used against the user's head, or away from the body. Mode B is used when the device is used in a body-worn configuration by the user.

The WWAN transmit antenna switching mechanism between WWAN antennas is implemented with a physical "break-before-make" switch so that only one antenna can be used for WWAN transmission at one time.

In Airplay mode, the device uses same power and power control mechanism as Wi-Fi. Airplay is not supported in hotspot mode. Airplay utilize the same 802.11 modes, modulation, MIMO, Channel Bandwidth, etc. as Wi-Fi does. Therefore Airplay usage is categorized by the Wi-Fi SAR testing contained in Section 10.

There are two vendors of the Wi-Fi/Bluetooth radio modules: variant 1 and variant 2. The Wi-Fi/BT radio modules have the same mechanical outline (e.g., the same package dimension and pin-out layout), use the same on-board antenna matching circuit, have an identical antenna structure, and are built and tested to conform to the same specifications and to operate within the same tolerances. It is confirmed that Variant 1 represents the worst case.

This product utilizes a time-averaged power control mechanism – Wi-Fi Time-Averaged SAR(TAS) within the Wi-Fi chipset – that ensures total power across all Wi-Fi transmitters does not exceed applicable regulatory limits. For further details, refer to the technical description document and Appendix I.

Device Dimension	Overall (Length x Width): 160.84 mm x 78.07 mm Overall Diagonal: 178.56 mm (7.03 inch) Display Diagonal: 169.67 mm (6.68 inch)
Back Cover	The Back Cover is not removable
Battery Options	The rechargeable battery is not user accessible.
Accessory	Headset
Wireless Router (Hotspot)	Wi-Fi Hotspot mode permits the device to share its WWAN data connection with other Wi-Fi-enabled devices. ☒ Mobile Hotspot (Wi-Fi 2.4 GHz) ☒ Mobile Hotspot (Wi-Fi 5.2/5.8 GHz)
AirPlay	AirPlay mode enabled devices transfer data directly between each other ☒ AirPlay (Wi-Fi 2.4 GHz) ☒ AirPlay (Wi-Fi 5 GHz)
Bluetooth Tethering (Hotspot)	BT Tethering mode permits the device to share its cellular data connection with other devices. ☒ BT Tethering (Bluetooth 2.4 GHz)

6.2. Wireless Technologies

Wireless technologies	Frequency bands	Operating mode		Duty Cycle used for SAR testing
GSM	850 1900	Voice (GMSK) GPRS (GMSK) EDGE (8PSK)	GSM Class : B Multi-Slot Class: Class 10 - 2 Up, 4 Down	GSM Voice: 12.5% (E)GPRS: 1 Slot: 12.5% 2 Slots: 25%
Does this device support DTM (Dual Transfer Mode)? ☐ Yes ☒ No				
CDMA (CDMA2000)	BC0 BC1 BC10	1xRTT (Voice & Data) 1xEV-DO Rel. 0 1xEV-DO Rev. A 1xAdvanced		100%
Does this device support SV-DO (1xRTT-1xEVDO)? ☐ Yes ☒ No				
W-CDMA (UMTS)	Band 2 Band 4 Band 5	UMTS Rel. 99 (Voice & Data) HSDPA (Rel. 5) HSUPA (Rel. 6) HSPA+ (Rel. 7) DC-HSDPA (Rel. 8)		100%
LTE ⁴	FDD Band 2 FDD Band 4 FDD Band 5 FDD Band 7 FDD Band 12 FDD Band 13 FDD Band 14 FDD Band 17 FDD Band 25 FDD Band 26 FDD Band 29 (DL Only) FDD Band 30 TDD Band 41 ² TDD Band 46 (DL Only) TDD Band 48 FDD Band 66 FDD Band 71 Carrier Aggregation ³	QPSK 16QAM 64QAM 256QAM Carrier Aggregation (2 Uplinks and 6 Downlinks)		100% (FDD) 63.3% (TDD) Power Class 3 43.3% (TDD) Power Class 2 Refer to §6.4
	FDD Band 5B FDD Band 7C TDD Band 41C ² TDD Band 48C	Does this device support SV-LTE (1xRTT-LTE)? ☐ Yes ☒ No		
5G NR (FR1)	FDD band n2 FDD band n5 FDD band n12 FDD band n25 TDD band n41 ² FDD band n66 FDD band n71 TDD band n77	CP-OFDM: Pi/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM DFT-s-OFDM: QPSK, 16QAM, 64QAM, 256QAM		100% (FDD) 100% (TDD) Power Class 3 50% (TDD) Power Class 2
Wi-Fi	2.4 GHz ¹	802.11b 802.11g 802.11n (HT20) 802.11ac (HT20) 802.11ax (HE20)		100% (802.11b) 98.6% (802.11g/n 20MHz BW)
	5 GHz ¹	802.11a 802.11n (HT20) 802.11n (HT40) 802.11ac (VHT20) 802.11ac (VHT40) 802.11ac (VHT80) 802.11ax (HE20) 802.11ax (HE40) 802.11ax (HE80)		99.0% (802.11a/n/ac 20MHz BW) 97.7% (802.11n/ac 40MHz BW) 95.6% (802.11n/ac 80MHz BW)

		Does this device support bands 5.60 ~ 5.65 GHz? ☒ Yes ☐ No	
		Does this device support Band gap channel(s)? ☒ Yes ☐ No	
Bluetooth	2.4 GHz	BR, EDR, LE, and HDR	100%
NFC	13.56 MHz	Type A/B/F and ISO15693	N/A ⁴
UWB (Ultra-Wideband)	6.24 GHz and 8.2368 GHz	BPM-BPSK	N/A ⁴

Note(s):

1. Duty cycle for Wi-Fi and BT is referenced from the DTS and U-NII and BT reports.
2. This device supports Power Class 2 and Power Class 3 for LTE Band 41 and 5G NR(FR1) band n41.
3. LTE Uplink 2CA is the total combined power of the UL CA.
LTE Uplink Cat 13, LTE 3GPP Rel-13 (LTE 3GPP Rel-14 for B41 PC2)
4. Measured Duty Cycle is not required due to SAR test exemption.

6.3. General LTE SAR Test and Reporting Considerations

Item	Description						
Frequency range, Channel Bandwidth, Numbers and Frequencies	Band 2	Frequency range: 1850 - 1910 MHz (BW = 60 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	18700 /1860	18675/ 1857.5	18650/ 1855	18625/ 1852.5	18615/ 1851.5	18607/ 1850.7
	Mid	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880
	High	19100/ 1900	19125/ 1902.5	19150/ 1905	19175/ 1907.5	19185/ 1908.5	19193/ 1909.3
	Band 4	Frequency range: 1710 - 1755 MHz (BW = 45 MHz)					
		Channel Bandwidth					
		20 MHz ¹	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	20050/ 1720	20025/ 1717.5	20000/ 1715	19975/ 1712.5	19965/ 1711.5	19957/ 1710.7
	Mid	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5
	High	20300/ 1745	20325/ 1747.5	20350/ 1750	20375/ 1752.5	20385/ 1753.5	20393/ 1754.3
	Band 5	Frequency range: 824 - 849 MHz (BW = 25 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ¹	5 MHz	3 MHz	1.4 MHz
	Low			20450/ 829	20425/ 826.5	20415/ 825.5	20407/ 824.7
	Mid			20525/ 836.5	20525/ 836.5	20525/ 836.5	20525/ 836.5
	High			20600/ 844	20625/ 846.5	20635/ 847.5	20643/ 848.3
	Band 7	Frequency range: 2500 - 2570 MHz (BW = 70 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	20850 2510	20825 2507.5	20800 2505	20775 2502.5		
	Mid	21100 2535	21100 2535	21100 2535	21100 2535		
	High	21350 2560	21375 2562.5	21400 2565	21425 2567.5		
	Band 12	Frequency range: 699 – 716 MHz (BW = 17 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ¹	5 MHz	3 MHz	1.4 MHz
	Low			23060/ 704	23035/ 701.5	23025/ 700.5	23017/ 699.7
	Mid			23095/ 707.5	23095/ 707.5	23095/ 707.5	23095/ 707.5
	High			23130/ 711	23155/ 713.5	23165/ 714.5	23173/ 715.3
	Band 13	Frequency range: 777 - 787 MHz (BW = 10 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ¹	5 MHz ¹	3 MHz	1.4 MHz
	Low				23205/ 779.5		
	Mid			23230/ 782	23230/ 782		
	High				23255/ 784.5		
	Band 14	Frequency range: 788 - 798 MHz (BW = 10 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ¹	5 MHz ¹	3 MHz	1.4 MHz
	Low				23305/ 790.5		
	Mid			23330/ 793	23330/ 793		
	High				23355/ 794.5		

					795.5		
Band 17	Frequency range: 704 - 716 MHz (BW = 12 MHz)						
	Channel Bandwidth						
	20 MHz	15 MHz	10 MHz ¹	5 MHz ¹	3 MHz	1.4 MHz	
Low			23780/ 709	23755/ 706.5			
Mid			23790/ 710	23790/ 710			
High			23800/ 711	23825/ 713.5			
Band 25	Frequency range: 1850 - 1915 MHz (BW = 65 MHz)						
	Channel Bandwidth						
	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz	
Low	26140/ 1860	26115/ 1857.5	26090/ 1855	26065/ 1852.5	26055/ 1851.5	26047/ 1850.7	
Mid	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	
High	26590/ 1905	26615/ 1907.5	26640/ 1910	26665/ 1912.5	26675/ 1913.5	26683/ 1914.3	
Band 26	Frequency range: 814 - 849 MHz (BW = 35 MHz)						
	Channel Bandwidth						
	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz	
Low			26740/ 819	26715/ 816.5	26705/ 815.5	26697/ 814.7	
Mid			26865/ 831.5	26865/ 831.5	26865/ 831.5	26865/ 831.5	
High			26990/ 844	27015/ 846.5	27025/ 847.5	27033/ 848.3	
Band 30	Frequency range: 2305 - 2315 MHz (BW = 10 MHz)						
	Channel Bandwidth						
	20 MHz	15 MHz	10 MHz ¹	5 MHz ¹	3 MHz	1.4 MHz	
Low				27685/ 2307.5			
Mid			27710/ 2310	27710/ 2310			
High				27735/ 2312.5			
Band 41 ²	Frequency range: 2496 - 2690 MHz (BW = 194 MHz)						
	Channel Bandwidth						
	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz	
Low	39750 / 2506.0						
Low-Mid	40185 / 2549.5						
Mid	40620 / 2593.0						
Mid-High	41055 / 2636.5						
High	41490 / 2680.0						
Band 48	Frequency range: 3550 - 3700 MHz (BW = 150 MHz)						
	Channel Bandwidth						
	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz	
Low	55340/ 3560	55315/ 3557.5	55290/ 3555	55265/ 3552.5			
Mid-Low	55773/ 3603.3	55765/ 3602.5	55757/ 3601.7	55748/ 3600.8			
Mid-High	56207/ 3646.7	56215/ 3647.5	56223/ 3648.3	56232/ 3649.2			
High	56640/ 3690	56665/ 3692.5	56690/ 3695	56715/ 3697.5			
Band 66	Frequency range: 1710 - 1780 MHz (BW = 70 MHz)						
	Channel Bandwidth						
	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz	
Low	132072/ 1720	132047/ 1717.5	132022/ 1715	131997/ 1712.5	131987/ 1711.5	131979/ 1710.7	
Mid	132322/ 1745	132322/ 1745	132322/ 1745	132322/ 1745	132322/ 1745	132322/ 1745	
High	132572/ 1770	132597/ 1772.5	132622/ 1775	132647/ 1777.5	132657/ 1778.5	132665/ 1779.3	

	Band 71	Frequency range: 663 - 698 MHz (BW = 35 MHz)																																																																			
		Channel Bandwidth																																																																			
		20 MHz ¹	15 MHz ¹	10 MHz	5 MHz	3 MHz	1.4 MHz																																																														
Low		133222/ 673	133197/ 670.5	133172/ 668	133147/ 665.5																																																																
Mid	133297/ 680.5	133297/ 680.5	133297/ 680.5	133297/ 680.5																																																																	
High	133372/ 688	133397/ 690.5	133422/ 693	133447/ 695.5																																																																	
LTE transmitter and antenna implementation	LTE can transmit from either ANT1, ANT2, ANT3, ANT4, ANT7, ANT8, and ANT9 Then antenna switching is implemented with a physical, "break-before-make" switch such that only one antenna can be used for LTE transmission at a time.																																																																				
Maximum power reduction (MPR)	Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3 <table><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>> 5</td><td>> 4</td><td>> 8</td><td>> 12</td><td>> 16</td><td>> 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table> MPR Built-in by design The manufacturer MPR values are always within the 3GPP maximum MPR allowance but may not follow the default MPR values. A-MPR (additional MPR) was disabled during SAR testing							Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
Modulation	Channel bandwidth / Transmission bandwidth (N _{RB})						MPR (dB)																																																														
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz																																																															
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																														
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																														
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																														
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																														
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																														
256 QAM	≥ 1						≤ 5																																																														
Spectrum plots for RB configurations	A properly configured base station simulator was used for the SAR and power measurements; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.																																																																				

Notes:

- Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.
- LTE band 41 test channels in accordance with October 2014 TCB workshop for all channels bandwidths.
- SAR Testing for LTE was performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

6.4. LTE (TDD) Considerations

According to KDB 941225 D05 SAR for LTE Devices, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

LTE TDD Bands support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$20480 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-
10	$13168 \cdot T_s$	$13152 \cdot T_s$	$12800 \cdot T_s$	-	-	-

Table 4.2-2: Uplink-downlink configurations & Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.3%
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.3%
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.3%
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.7%
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.7%
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.7%
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.3%

Calculated Duty Cycle = Extended cyclic prefix in uplink * (T_s) * # of S + # of U / period

Note(s):

This device supports uplink-downlink configurations 0-6. The configuration with highest duty cycle was used for SAR Testing: configuration 0 at 63.3%(Power Class 3) and configuration 1 at 43.3%(Power Class 2) duty cycle.

6.5. General 5G NR(FR1) SAR Test and Reporting Considerations

Item	Description												
Frequency range, Channel Bandwidth, Numbers and Frequencies	n2	Frequency range: 1850 - 1910 MHz (BW = 60 MHz)											
		Channel Bandwidth (MHz)											
		100	90	80	60	50	40	30	25	20	15	10	5
	Low									372000 /1860	371500 /1857.5	371000 /1855	370500 /1852.5
	Mid									376000 /1880	376000 /1880	376000 /1880	376000 /1880
	High									380000 /1900	380500 /1902.5	381000 /1905	381500 /1907.5
	n5	Frequency range: 824 - 849 MHz (BW = 25 MHz)											
		Channel Bandwidth (MHz)											
		100	90	80	60	50	40	30	25	20 ¹	15 ¹	10 ¹	5
	Low									166800 /834	166300 /831.5	165800 /829	165300 /826.5
	Mid									167300 /836.5	167300 /836.5	167300 /836.5	167300 /836.5
	High									167800 /839	168300 /841.5	168800 /844	169300 /846.5
	n12	Frequency range: 699 – 716 MHz (BW = 17 MHz)											
		Channel Bandwidth (MHz)											
		100	90	80	60	50	40	30	25	20	15 ¹	10 ¹	5
	Low										141300 /706.5	140800 /704	140300 /701.5
	Mid										141500 /707.5	141500 /707.5	141500 /707.5
	High										141700 /708.5	142200 /711	142700 /713.5
	n25	Frequency range: 1850 - 1915 MHz (BW = 65 MHz)											
		Channel Bandwidth (MHz)											
		100	90	80	60	50	40	30	25	20	15	10	5
	Low									372000 /1860	371500 /1857.5	371000 /1855	370500 /1852.5
	Mid									376500 /1882.5	376500 /1882.5	376500 /1882.5	376500 /1882.5
	High									381000 /1905	381500 /1907.5	382000 /1910	382500 /1912.5
	n41 ³	Frequency range: 2496 - 2690 MHz (BW = 194 MHz)											
		Channel Bandwidth (MHz)											
		100 ¹	90 ¹	80 ¹	60	50	40	30	25	20	15	10	5
		509200 /2546	508200 /2541	507200 /2536	505200 /2526	504200 /2521	503200 /2516			501200 /2506			
		513900 /2569.5	513400 /2567	512900 /2564.5	511900 /2559.5	511400 /2557	510900 /2554.5			509900 /2549.5			
		518600 /2593	518600 /2593	518600 /2593	518600 /2593	518600 /2593	518600 /2593			518600 /2593			
		523300 /2616.5	523800 /2619	524300 /2621.5	525300 /2626.5	525800 /2629	526300 /2631.5			527300 /2636.5			
		528000 /2640	529000 /2645	530000 /2650	532000 /2660	533000 /2665	534000 /2670			536000 /2680			
	n66	Frequency range: 1710 - 1780 MHz (BW = 70 MHz)											
		Channel Bandwidth (MHz)											
		100	90	80	60	50	40 ¹	30 ¹	25 ¹	20	15	10	5
	Low									344000 /1720	343500 /1717.5	343000 /1715	342500 /1712.5
	Mid									349000 /1745	349000 /1745	349000 /1745	349000 /1745
	High									354000 /1770	354500 /1772.5	355000 /1775	355500 /1777.5
	n71	Frequency range: 663 - 698 MHz (BW = 35 MHz)											
		Channel Bandwidth (MHz)											
		100	90	80	60	50	40	30	25	20 ¹	15 ¹	10	5
	Low									134600 /673	134100 /670.5	133600 /668	133100 /665.5
	Mid									136100 /680.5	136100 /680.5	136100 /680.5	136100 /680.5
	High									137600 /688	138100 /690.5	138600 /693	139100 /695.5
	n77	Frequency range: 3700 - 3980 MHz (BW = 280 MHz)											
		Channel Bandwidth (MHz)											
		100	90	80	60	50	40	30	25	20	15	10	5
		650000 /3750	649666 /3744.99	649334 /3740.01	648666 /3729.99	648334 /3725.01	648000 /3720			647334 /3710.01			
		653000 /3795	652834 /3792.51	652666 /3789.99	652334 /3785.01	652166 /3782.49	652000 /3780			651666 /3774.99			
	Mid	656000 /3840	656000 /3840	656000 /3840	656000 /3840	656000 /3840	656000 /3840			656000 /3840			
	Mid- High	659000 /3885	659166 /3887.49	659334 /3890.01	659666 /3894.99	659834 /3897.51	660000 /3900			660266 /3903.99			

	High	662000 /3930	662334 /3935.01	662666 /3939.99	663334 /3950.01	663666 /3954.99	664000 /3960			664666 /3969.99			
SCS	15 kHz (n2, n5, n12, n25, n66, n71) 30 kHz (n41, n77)												
NR(FR1) transmitter and antenna implementation	Refer to section 7 and Appendix A.												
A-MPR(Additional MPR) disabled for SAT testing?	Yes												
EN-DC Carrier Aggregation Possible Combinations													
LTE Anchor Bands for NR band n2			LTE Band 5/12										
LTE Anchor Bands for NR band n5			LTE Band 2/7/30/48/66										
LTE Anchor Bands for NR band n12			LTE Band 2/66										
LTE Anchor Bands for NR band n25			LTE Band 12										
LTE Anchor Bands for NR band n41			LTE Band 2/25/26/41/66										
LTE Anchor Bands for NR band n66			LTE Band 5/12/13/48/71										
LTE Anchor Bands for NR band n71			LTE Band 2/7/66										
LTE Anchor Bands for NR band n77			LTE Band 41										

Notes:

- Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. 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 per FCC Guidance.
- SAR test for NR bands and LTE anchor Bands were performed separately due to limitations in SAR probe calibration factors. And, due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
- FR1 supported standalone.

6.6. Time-Average Feature

The equipment under test (EUT) incorporates the Smart Transmit (SmartTX) SAR averaging algorithm provided by Qualcomm for cellular technologies. Smart Transmit controls the Tx power of the cellular-based wireless device in real-time to maintain the time-averaged Tx power, and in turn, time-averaged RF exposure, below the predefined time-average power limit characterized for each technology and band.

The purpose of the Part 1 test in this report is to demonstrate that the EUT meets the FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target or PD_design_target, below the predefined time-average power limit, for each characterized technology and band.

Smart Transmit allows the device to transmit at higher power instantaneously as high as $P_{\max}$, when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} EFS settings and maximum tune up output power $P_{\max}$ configured for this EUT for various transmit conditions (DSI – Device State Index).

The maximum time-averaged output power (dBm) for any 2G/3G/4G/5G NR WWAN technology band, and DSI = minimum of “ P_{limit} EFS” and “Maximum tune up output power $P_{\max}$ ” includes device uncertainty.

SAR values in this report were scaled to the maximum time-averaged output power to determine compliance following KDB 447498 D01.

P_{design}	The power level that corresponds to the exposure design target (SAR_design_target) after accounting for all device design related uncertainties.
P_{limit}	Maximum tune-up output power for SAR Mode A and Mode B
$P_{\max}$	Maximum tune-up output power for RF
SAR Characterization	Table containing P_{limit} for all technologies and bands

SAR Characterization

Exposure Scenario		factor	Head				Body-worn & Hotspot				P _{max} (dBm) Tune-up power table				
Spatial-average			1g				1g								
Test Distance			0 mm				5 mm								
Power Mode (DSI)			Mode A (DSI=0)				Mode B (DSI=1)								
Antenna	Tech/Band		P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table					
	Transmit Average		Burst Average		Frame Average		Burst Average		Frame Average		Burst Average	Frame Average			
ANT1	GSM 850 2 slots ¹	0.25	41.06	32.50	35.04	26.48	36.83	32.50	30.81	26.48	32.50	26.48			
	GSM 1900 2 slots ¹	0.25	36.27	31.00	30.25	24.98	27.39	27.00	21.36	20.98	31.00	24.98			
	W-CDMA B2	1	29.95	25.70	29.95	25.70	21.14	21.00	21.14	21.00	25.70	25.70			
	W-CDMA B4	1	32.14	25.70	32.14	25.70	19.52	19.25	19.52	19.25	25.70	25.70			
	W-CDMA B5	1	33.76	25.70	33.76	25.70	29.22	25.70	29.22	25.70	25.70	25.70			
	CDMA BC0	1	35.32	25.70	35.32	25.70	29.76	25.70	29.76	25.70	25.70	25.70			
	CDMA BC1	1	30.06	25.70	30.06	25.70	21.50	21.00	21.50	21.00	25.70	25.70			
	CDMA BC10	1	34.27	25.70	34.27	25.70	29.47	25.70	29.47	25.70	25.70	25.70			
	LTE Band 5	1	33.32	25.70	33.32	25.70	26.34	25.70	26.34	25.70	25.70	25.70			
	LTE Band 7	1	29.90	25.70	29.90	25.70	21.07	20.75	21.07	20.75	25.70	25.70			
	LTE Band 12/17	1	34.80	25.70	34.80	25.70	26.75	25.70	26.75	25.70	25.70	25.70			
	LTE Band 13	1	34.37	25.70	34.37	25.70	27.71	25.70	27.71	25.70	25.70	25.70			
	LTE Band 14	1	34.37	25.70	34.37	25.70	27.80	25.70	27.80	25.70	25.70	25.70			
	LTE Band 25/2	1	30.39	25.70	30.39	25.70	21.52	21.00	21.52	21.00	25.70	25.70			
	LTE Band 26	1	32.32	25.70	32.32	25.70	29.32	25.70	29.32	25.70	25.70	25.70			
	LTE Band 30	1	27.53	25.70	27.53	25.70	21.29	21.25	21.29	21.25	25.70	25.70			
	LTE Band 41 ¹	0.633	32.08	25.70	30.10	23.71	23.43	23.25	21.45	21.26	25.70	23.71			
	LTE Band 66/4	1	34.59	25.70	34.59	25.70	19.39	19.25	19.39	19.25	25.70	25.70			
	LTE Band 71	1	35.11	25.70	35.11	25.70	27.48	25.70	27.48	25.70	25.70	25.70			
	NR n5	1	36.51	25.70	36.51	25.70	31.74	25.70	31.74	25.70	25.70	25.70			
	NR n12	1	36.56	25.70	36.56	25.70	31.23	25.70	31.23	25.70	25.70	25.70			
	NR n25/2	1	31.12	25.70	31.12	25.70	22.20	21.00	22.20	21.00	25.70	25.70			
	NR n41 ¹	1	35.09	25.70	35.09	25.70	24.51	21.25	24.51	21.25	23.70	23.70			
	NR n66	1	37.64	25.70	37.64	25.70	20.62	19.25	20.62	19.25	25.70	25.70			
	NR n71	1	37.71	25.70	37.71	25.70	32.08	25.70	32.08	25.70	25.70	25.70			
Exposure Scenario		factor	Head				Body-worn & Hotspot				P _{max} (dBm) Tune-up power table				
Spatial-average			1g				1g								
Test Distance			0 mm				5 mm								
Power Mode (DSI)			Mode A (DSI=0)				Mode B (DSI=1)								
Antenna	Tech/Band		P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table					
	Transmit Average		Burst Average		Frame Average		Burst Average		Frame Average		Burst Average	Frame Average			
ANT2	GSM 850 2 slots ¹	0.25	33.28	31.00	27.26	24.98	33.85	31.00	27.83	24.98	31.00	24.98			
	GSM 1900 2 slots ¹	0.25	26.77	26.50	20.74	20.48	26.72	26.50	20.70	20.48	28.50	22.48			
	W-CDMA B2	1	20.95	20.50	20.95	20.50	20.75	20.50	20.75	20.50	23.10	23.10			
	W-CDMA B4	1	21.97	21.50	21.97	21.50	21.84	21.00	21.84	21.00	23.10	23.10			
	W-CDMA B5	1	30.92	23.90	30.92	23.90	26.67	23.90	26.67	23.90	23.90	23.90			
	CDMA BC0	1	25.65	23.90	25.65	23.90	26.32	23.90	26.32	23.90	23.90	23.90			
	CDMA BC1	1	20.54	20.50	20.54	20.50	22.07	20.50	22.07	20.50	23.10	23.10			
	CDMA BC10	1	25.75	23.90	25.75	23.90	28.44	23.90	28.44	23.90	23.90	23.90			
	LTE Band 5	1	26.67	23.90	26.67	23.90	26.85	23.90	26.85	23.90	23.90	23.90			
	LTE Band 7	1	17.78	17.50	17.78	17.50	19.54	19.50	19.54	19.50	22.80	22.80			
	LTE Band 12/17	1	28.07	23.90	28.07	23.90	27.43	23.90	27.43	23.90	23.90	23.90			
	LTE Band 13	1	27.44	23.90	27.44	23.90	30.88	23.90	30.88	23.90	23.90	23.90			
	LTE Band 14	1	28.23	23.90	28.23	23.90	28.58	23.90	28.58	23.90	23.90	23.90			
	LTE Band 25/2	1	20.99	20.50	20.99	20.50	21.17	20.50	21.17	20.50	23.10	23.10			
	LTE Band 26	1	25.73	23.90	25.73	23.90	27.17	23.90	27.17	23.90	23.90	23.90			
	LTE Band 30	1	21.23	21.00	21.23	21.00	21.20	21.00	21.20	21.00	22.80	22.80			
	LTE Band 41 ¹	0.633	20.01	20.00	18.02	18.01	23.24	22.75	21.25	20.76	22.80	20.81			
	LTE Band 66/4	1	22.00	21.50	22.00	21.50	21.61	21.00	21.61	21.00	23.10	23.10			
	LTE Band 71	1	27.51	23.90	27.51	23.90	28.77	23.90	28.77	23.90	23.90	23.90			
	NR n5	1	28.25	23.90	28.25	23.90	29.87	23.90	29.87	23.90	23.90	23.90			
	NR n12	1	29.51	23.90	29.51	23.90	32.02	23.90	32.02	23.90	23.90	23.90			
	NR n25/2	1	21.92	20.50	21.92	20.50	21.80	20.50	21.80	20.50	23.10	23.10			
	NR n41 ¹	1	19.86	18.00	19.86	18.00	22.84	20.75	22.84	20.75	25.70	25.70			
	NR n66	1	24.41	21.50	24.41	21.50	22.59	21.00	22.59	21.00	23.10	23.10			
	NR n71	1	31.16	23.90	31.16	23.90	32.17	23.90	32.17	23.90	23.90	23.90			

Exposure Scenario		factor	Head				Body-worn & Hotspot				P _{max} (dBm) Tune-up power table				
Spatial-average			1g				1g								
Test Distance			0 mm				5 mm								
Power Mode (DSI)			Mode A (DSI=0)				Mode B (DSI=1)								
Antenna	Tech/Band		P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table					
	Transmit Average		Burst Average		Frame Average		Burst Average		Frame Average		Burst Average	Frame Average			
ANT3	GSM 1900 2 slots ¹	0.25	36.63	30.00	30.61	23.98	27.51	27.00	21.49	20.98	30.00	23.98			
	W-CDMA B2	1	30.65	24.70	30.65	24.70	21.50	21.00	21.50	21.00	24.70	24.70			
	W-CDMA B4	1	29.68	24.70	29.68	24.70	21.38	21.25	21.38	21.25	24.70	24.70			
	LTE Band 7	1	28.80	24.70	28.80	24.70	20.55	20.50	20.55	20.50	24.70	24.70			
	LTE Band 25/2	1	30.19	24.70	30.19	24.70	21.78	21.00	21.78	21.00	24.70	24.70			
	LTE Band 30	1	26.40	24.70	26.40	24.70	20.01	19.50	20.01	19.50	23.10	23.10			
	LTE Band 41 ¹	0.633	32.20	24.70	30.21	22.71	22.61	22.50	20.62	20.51	24.70	22.71			
	LTE Band 66/4	1	29.04	24.70	29.04	24.70	21.70	21.25	21.70	21.25	24.70	24.70			
	NR n25/2	1	31.44	24.70	31.44	24.70	22.17	21.00	22.17	21.00	24.70	24.70			
ANT4	NR n41 ¹	1	33.03	25.20	33.03	25.20	23.71	20.50	23.71	20.50	21.70	21.70			
	NR n66	1	31.44	24.70	31.44	24.70	23.26	21.25	23.26	21.25	24.70	24.70			
Exposure Scenario		factor	Head				Body-worn & Hotspot				P _{max} (dBm) Tune-up power table				
Spatial-average			1g				1g								
Test Distance			0 mm				5 mm								
Power Mode (DSI)			Mode A (DSI=0)				Mode B (DSI=1)								
Antenna	Tech/Band		P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table					
	Transmit Average		Burst Average		Frame Average		Burst Average		Frame Average		Burst Average	Frame Average			
ANT4	GSM 1900 2 slots ¹	0.25	25.57	25.25	19.54	19.23	26.84	26.50	20.82	20.48	28.00	21.98			
	W-CDMA B2	1	19.36	19.25	19.36	19.25	20.51	20.00	20.51	20.00	22.70	22.70			
	W-CDMA B4	1	21.28	21.00	21.28	21.00	21.99	21.50	21.99	21.50	22.70	22.70			
	LTE Band 7	1	19.67	19.50	19.67	19.50	18.63	18.50	18.63	18.50	22.20	22.20			
	LTE Band 25/2	1	19.43	19.25	19.43	19.25	20.33	20.00	20.33	20.00	22.70	22.70			
	LTE Band 30	1	20.29	20.00	20.29	20.00	19.62	19.00	19.62	19.00	22.20	22.20			
	LTE Band 41 ¹	0.633	21.75	21.75	19.77	19.76	20.67	20.50	18.68	18.51	22.20	20.21			
	LTE Band 48 ¹	0.633	22.60	22.20	20.61	20.21	21.08	21.00	19.10	19.01	22.20	20.21			
	LTE Band 66/4	1	21.40	21.00	21.40	21.00	21.85	21.50	21.85	21.50	22.70	22.70			
ANT7	NR n25/2	1	20.63	19.25	20.63	19.25	22.92	20.00	22.92	20.00	22.70	22.70			
	NR n41 ¹	1	24.94	19.75	24.94	19.75	19.57	18.50	19.57	18.50	25.20	25.20			
	NR n66	1	20.79	21.00	20.79	21.00	22.93	21.50	22.93	21.50	22.70	22.70			
	NR n77 ¹	1	19.78	19.50	19.78	19.50	19.64	19.50	19.64	19.50	22.50	22.50			
Exposure Scenario		factor	Head				Body-worn & Hotspot				P _{max} (dBm) Tune-up power table				
Spatial-average			1g				1g								
Test Distance			0 mm				5 mm								
Power Mode (DSI)			Mode A (DSI=0)				Mode B (DSI=1)								
Antenna	Tech/Band		P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table					
	Transmit Average		Burst Average		Frame Average		Burst Average		Frame Average		Burst Average	Frame Average			
ANT8	LTE Band 48 ¹	0.633	34.87	25.70	32.89	23.71	24.43	23.00	22.45	21.01	25.70	23.71			
	NR n77 ¹	1	29.96	25.70	29.96	25.70	19.75	19.50	19.75	19.50	25.70	25.70			
Exposure Scenario		factor	Head				Body-worn & Hotspot				P _{max} (dBm) Tune-up power table				
Spatial-average			1g				1g								
Test Distance			0 mm				5 mm								
Power Mode (DSI)			Mode A (DSI=0)				Mode B (DSI=1)								
Antenna	Tech/Band		P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 10 W/kg (SAR design target)	P _{limit} (dBm) Tune-up power table					
	Transmit Average		Burst Average		Frame Average		Burst Average		Frame Average		Burst Average	Frame Average			
ANT9	LTE Band 48 ¹	0.633	33.91	25.20	31.92	23.21	23.39	23.25	21.40	21.26	25.20	23.21			
	NR n77 ¹	1	35.91	25.20	35.91	25.20	18.82	18.75	18.82	18.75	25.20	25.20			

Note(s):

- All P_{limit} EFS and maximum tune up output P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., GSM & LTE TDD).
- Measurement Condition: All conducted power and SAR measurements in this report (Part 1 test) were performed by setting Reserve_power_margin (Smart Transmit EFS entry) to 0 dB.
- Only P_{limit} is considered for SAR Evaluation.
- LTE B30 and 5G NR n41 was SAR tested at P_{limit}. LTE B30 and 5G NR n41 conducted power values are listed for information but this device will only transmit in this band up to P_{max} power levels. For these test configurations P_{max} < P_{limit}. Therefore, testing was conducted at a level higher than P_{max}.

7. RF Exposure Conditions (Test Configurations)

This device has a total of 9 antennas. From Front of the device, antennas and supported frequencies are described and located as follows:

Antenna	Band	Rear	Front	Edge 1	Edge 2	Edge 3	Edge 4
				(Top Edge)	(Right Edge)	(Bottom Edge)	(Left Edge)
ANT1	GSM 850/1900 WCDMA B2/4/5 CDMA BC0/1/10 LTE B2/4/5/7/12/13/14/17/25/26/30/41/66/71 5G(FR1) n2/n5/n12/n25/n41/n66/n71	Yes	Yes	No	Yes	Yes	Yes
ANT2	GSM 850/1900 WCDMA B2/4/5 CDMA BC0/1/10 LTE B2/4/5/7/12/13/14/17/25/26/30/41/66/71 5G(FR1) n2/n5/n12/n25/n41/n66/n71	Yes	Yes	Yes	Yes	No	Yes
ANT3	GSM 1900 WCDMA B2/4 LTE B2/4/7/25/30/41/66 5G(FR1) n2/n25/n41/n66 Wi-Fi 2.4GHz Bluetooth	Yes	Yes	No	No	Yes	Yes
ANT4	GSM 1900 WCDMA B2/4 LTE B2/4/7/25/30/41/48/66 5G(FR1) n2/n25/n41/n66/n77 Wi-Fi 2.4GHz Bluetooth	Yes	Yes	Yes	Yes	No	No
ANT5	Wi-Fi 5GHz	Yes	Yes	No	No	Yes	Yes
ANT6	Wi-Fi 5GHz	Yes	Yes	Yes	Yes	No	No
ANT7	LTE B48 5G(FR1) n77	Yes	Yes	No	Yes	Yes	No
ANT8	LTE B48 5G(FR1) n77	Yes	Yes	Yes	No	No	Yes
ANT9	LTE B48 5G(FR1) n77	Yes	Yes	No	No	Yes	Yes

Note(s):

1. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot Mode.
2. The Body-worn minimum separation distance is 5 mm. To cover both body-worn and hotspot RF exposure conditions testing was performed at a separation distance of 5 mm.

8. Dielectric Property Measurements & System Check

8.1. Dielectric Property Measurements

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized.

The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 3 – 4 days of use; or earlier if the dielectric parameters can become out of tolerance; for example, when the parameters are marginal at the beginning of the measurement series.

Tissue dielectric parameters were measured at the low, middle and high frequency of each operating frequency range of the test device.

The dielectric constant (ϵ_r) and conductivity (σ) of typical tissue-equivalent media recipes are expected to be within $\pm 5\%$ of the required target values; but for SAR measurement systems that have implemented the SAR error compensation algorithms documented in IEEE Std 1528-2013, to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, the tolerance for ϵ_r and σ may be relaxed to $\pm 10\%$. This is limited to frequencies $\leq 3\text{ GHz}$.

Tissue Dielectric Parameters

FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

Target Frequency (MHz)	Head		Body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5000	36.2	4.45	49.3	5.07
5100	36.1	4.55	49.1	5.18
5200	36.0	4.66	49.0	5.30
5300	35.9	4.76	48.9	5.42
5400	35.8	4.86	48.7	5.53
5500	35.6	4.96	48.6	5.65
5600	35.5	5.07	48.5	5.77
5700	35.4	5.17	48.3	5.88
5800	35.3	5.27	48.2	6.00

IEEE Std 1528-2013

Refer to Table 3 within the IEEE Std 1528-2013

IEC 62209-1

Refer to Table A.3 within the IEC 62209-1

Dielectric Property Measurements Results:

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
A	8/24/2020	3500	Head	3700	39.39	37.70	4.48	3.02	3.12	-3.18
				3900	38.92	37.47	3.86	3.19	3.32	-3.97
				4000	38.84	37.36	3.96	3.24	3.29	-1.70
A	8/28/2020	3500	Head	3700	37.75	37.70	0.13	2.99	3.12	-4.02
				3900	37.43	37.47	-0.12	3.18	3.32	-4.15
				4000	37.21	37.36	-0.40	3.27	3.42	-4.36
A	9/1/2020	3500	Head	3700	36.85	37.70	-2.26	3.03	3.12	-2.70
				3900	36.42	37.47	3.26	3.26	3.32	-1.74
				4000	36.16	37.36	-3.21	3.33	3.42	-2.72
A	9/1/2020	3500	Head	3700	36.86	37.70	-2.23	3.16	3.12	1.31
				3900	36.44	37.47	-2.76	3.38	3.32	1.75
				4000	36.23	37.36	-3.02	3.49	3.42	1.95
A	9/5/2020	3500	Head	3700	36.92	37.70	-2.07	3.17	3.12	1.63
				3900	37.56	37.47	0.23	3.38	3.32	1.69
				4000	37.27	37.36	-0.24	3.58	3.42	4.46
A	9/9/2020	3500	Head	3700	36.72	37.70	-2.60	3.01	3.12	-3.47
				3900	36.36	37.47	-2.97	3.21	3.32	-3.25
				4000	36.17	37.36	-3.18	3.32	3.42	-3.16

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
B	8/24/2020	3900	Head	3700	39.12	37.70	3.76	2.99	3.12	-3.92
				3900	38.67	37.47	3.19	3.17	3.32	-4.63
				4000	38.61	37.36	3.35	3.28	3.42	-4.33
B	8/28/2020	3900	Head	3700	37.89	37.70	0.50	2.97	3.12	-4.66
				3900	37.50	37.47	0.07	3.18	3.32	-4.18
				4000	37.33	37.36	-0.08	3.28	3.42	-4.09
B	8/28/2020	3500	Head	3700	37.89	37.70	0.50	2.97	3.12	-4.66
				3900	37.50	37.47	0.07	3.18	3.32	-4.18
				4000	37.33	37.36	-0.08	3.28	3.42	-4.09
B	9/1/2020	3500	Head	3500	39.29	37.93	3.59	2.99	2.91	2.83
				3600	39.12	37.82	3.45	3.10	3.01	2.96
				3700	38.94	37.70	3.29	3.22	3.12	3.36
B	9/1/2020	3900	Head	3700	38.94	37.70	3.29	3.22	3.12	3.33
				3900	38.43	37.47	2.55	3.45	3.32	3.77
				4000	38.26	37.36	2.41	3.55	3.42	3.82
B	9/9/2020	3900	Head	3700	38.66	37.70	2.54	3.00	3.12	-3.67
				3900	38.32	37.47	2.26	3.19	3.32	-3.97
				4000	38.18	37.36	2.20	3.30	3.42	-3.63

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
D	9/28/2020	2600	Head	2600	38.35	39.01	-1.69	1.90	1.96	-2.96
				2495	38.50	39.14	-1.64	1.82	1.85	-1.77
				2690	38.16	38.90	-1.90	1.98	2.06	-4.05

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
E	8/22/2020	2300	Head	2300	37.89	39.47	-4.01	1.73	1.66	3.80
				2350	37.84	39.38	-3.92	1.77	1.71	3.41
				2400	37.76	39.30	-3.91	1.81	1.75	3.05
E	8/26/2020	1900	Head	1900	40.88	40.00	2.20	1.41	1.40	0.93
				1850	40.93	40.00	2.33	1.38	1.40	-1.29
				1920	40.88	40.00	2.20	1.44	1.40	2.50
E	8/26/2020	2300	Head	2300	40.33	39.47	2.17	1.67	1.66	0.26
				2350	40.23	39.38	2.15	1.71	1.71	-0.10
				2400	40.17	39.30	2.22	1.75	1.75	-0.09
E	8/31/2020	2300	Head	2300	39.02	39.47	-1.15	1.62	1.66	-2.51
				2350	38.91	39.38	-1.21	1.67	1.71	-2.50
				2400	38.83	39.30	-1.19	1.70	1.75	-2.95
E	9/8/2020	3500	Head	3700	37.22	37.70	-1.28	3.09	3.12	-0.97
				3900	36.81	37.47	-1.77	3.31	3.32	-0.48
				4000	36.61	37.36	-2.01	3.41	3.42	-0.38
E	9/15/2020	2450	Head	2450	37.73	39.20	-3.75	1.88	1.80	4.22
				2400	37.80	39.30	-3.81	1.83	1.75	4.42
				2480	37.76	39.16	-3.58	1.89	1.83	3.20
E	9/19/2020	2450	Head	2450	38.79	39.20	-1.05	1.80	1.80	0.17
				2400	38.90	39.30	-1.01	1.77	1.75	0.99
				2480	38.66	39.16	-1.28	1.82	1.83	-0.95
E	9/28/2020	2600	Head	2600	37.87	39.01	-2.92	1.93	1.96	-1.79
				2495	38.03	39.14	-2.84	1.84	1.85	-0.52
				2690	37.68	38.90	-3.13	2.00	2.06	-2.89

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
F	8/25/2020	5600	Head	5600	34.79	35.53	-2.09	5.12	5.06	1.26
				5500	35.07	35.65	-1.62	5.03	4.96	1.51
				5725	34.57	35.39	-2.32	5.28	5.19	1.73
F	9/2/2020	5600	Head	5600	34.11	35.53	-4.01	4.85	5.06	-4.10
				5500	34.27	35.65	-3.87	4.74	4.96	-4.44
				5725	33.90	35.39	-4.21	5.00	5.19	-3.57
F	9/6/2020	5600	Head	5600	34.25	35.53	-3.61	4.87	5.06	-3.80
				5500	34.36	35.65	-3.61	4.77	4.96	-3.75
				5725	34.00	35.39	-3.93	5.01	5.19	-3.53
F	9/10/2020	5600	Head	5600	34.22	35.53	-3.70	5.02	5.06	-0.74
				5500	34.41	35.65	-3.47	4.88	4.96	-1.59
				5725	33.97	35.39	-4.02	5.22	5.19	0.59
F	9/14/2020	5600	Head	5600	33.92	35.53	-4.54	4.90	5.06	-3.11
				5500	34.09	35.65	-4.37	4.79	4.96	-3.47
				5725	33.65	35.39	-4.92	5.06	5.19	-2.57

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
G	8/26/2020	2450	Head	2450	37.88	39.20	-3.37	1.79	1.80	-0.83
				2400	38.06	39.30	-3.15	1.73	1.75	-1.01
				2480	37.81	39.16	-3.45	1.81	1.83	-1.33
G	8/30/2020	2450	Head	2450	37.80	39.20	-3.57	1.82	1.80	1.06
				2400	37.98	39.30	-3.35	1.76	1.75	0.36
				2480	37.75	39.16	-3.61	1.84	1.83	0.36
G	9/3/2020	2450	Head	2450	40.15	39.20	2.42	1.80	1.80	-0.22
				2400	40.32	39.30	2.60	1.74	1.75	-0.49
				2480	40.06	39.16	2.29	1.81	1.83	-1.01
G	9/6/2020	2450	Head	2450	39.27	39.20	0.18	1.75	1.80	-2.61
				2400	39.38	39.30	0.21	1.70	1.75	-2.89
				2480	39.18	39.16	0.05	1.77	1.83	-3.35
G	9/11/2020	2450	Head	2450	38.43	39.20	-1.96	1.75	1.80	-2.89
				2400	38.54	39.30	-1.93	1.69	1.75	-3.41
				2480	38.32	39.16	-2.15	1.77	1.83	-3.57
G	9/15/2020	2450	Head	2450	40.85	39.20	4.21	1.79	1.80	-0.61
				2400	40.97	39.30	4.26	1.73	1.75	-1.06
				2480	40.72	39.16	3.98	1.81	1.83	-1.33
G	9/19/2020	2450	Head	2450	38.35	39.20	-2.17	1.79	1.80	-0.39
				2400	38.56	39.30	-1.87	1.74	1.75	-0.78
				2480	38.21	39.16	-2.43	1.81	1.83	-1.50
G	9/28/2020	2600	Head	2600	39.07	39.01	0.15	2.04	1.96	4.12
				2495	39.42	39.14	0.71	1.92	1.85	4.02
				2690	38.71	38.90	-0.48	2.14	2.06	4.10

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
H	9/2/2020	5250	Head	5250	36.20	35.93	0.74	4.59	4.70	-2.36
				5150	36.36	36.05	0.87	4.49	4.60	-2.41
				5350	36.05	35.82	0.64	4.70	4.80	-2.19
H	9/2/2020	5750	Head	5750	35.48	35.36	0.33	5.11	5.21	-1.99
				5700	35.55	35.42	0.37	5.05	5.16	-2.12
				5850	35.36	35.30	0.17	5.22	5.27	-1.02
H	9/6/2020	5250	Head	5250	36.11	35.93	0.49	4.72	4.70	0.46
				5150	36.27	36.05	0.62	4.61	4.60	0.31
				5350	35.92	35.82	0.28	4.84	4.80	0.72
H	9/6/2020	5750	Head	5750	35.28	35.36	-0.23	5.27	5.21	1.14
				5700	35.37	35.42	-0.14	5.20	5.16	0.74
				5850	35.15	35.30	-0.42	5.37	5.27	1.94
H	9/10/2020	5250	Head	5250	36.45	35.93	1.44	4.64	4.70	-1.28
				5150	36.63	36.05	1.62	4.53	4.60	-1.45
				5350	36.30	35.82	1.34	4.74	4.80	-1.42
H	9/10/2020	5750	Head	5750	35.79	35.36	1.21	5.17	5.21	-0.76
				5700	35.87	35.42	1.27	5.11	5.16	-0.94
				5850	35.67	35.30	1.05	5.28	5.27	0.09
H	9/14/2020	5250	Head	5250	34.61	35.93	-3.68	4.66	4.70	-0.87
				5150	34.80	36.05	-3.46	4.54	4.60	-1.30
				5350	34.45	35.82	-3.82	4.77	4.80	-0.68
H	9/14/2020	5750	Head	5750	33.74	35.36	-4.59	5.24	5.21	0.48
				5700	33.85	35.42	-4.43	5.17	5.16	0.20
				5850	33.58	35.30	-4.87	5.35	5.27	1.48
H	9/18/2020	5250	Head	5250	37.38	35.93	4.03	4.51	4.70	-4.09
				5150	37.61	36.05	4.34	4.42	4.60	-4.00
				5350	37.24	35.82	3.97	4.61	4.80	-4.05
H	9/18/2020	5750	Head	5750	36.68	35.36	3.72	5.04	5.21	-3.39
				5700	36.80	35.42	3.90	4.99	5.16	-3.30
				5850	36.61	35.30	3.71	5.14	5.27	-2.45

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
1	9/4/2020	750	Head	750	42.02	41.96	0.14	0.92	0.89	3.03
				660	43.54	42.42	2.63	0.91	0.89	2.14
				800	41.92	41.71	0.52	0.94	0.90	4.65
1	9/4/2020	835	Head	835	40.63	41.50	-2.10	0.91	0.90	1.64
				805	40.51	41.68	-2.81	0.90	0.90	-0.17
				850	40.66	41.50	-2.02	0.92	0.92	0.72
1	9/7/2020	835	Head	835	42.70	41.50	2.89	0.87	0.90	-3.18
				805	43.02	41.68	3.22	0.87	0.90	-2.76
				850	42.58	41.50	2.60	0.87	0.92	-4.46
1	9/10/2020	750	Head	750	40.81	41.96	-2.74	0.90	0.89	1.10
				660	41.10	42.42	-3.12	0.87	0.89	-1.83
				800	40.53	41.71	-2.82	0.92	0.90	2.70
1	9/11/2020	835	Head	835	41.40	41.50	-0.24	0.93	0.90	3.12
				805	41.49	41.68	-0.45	0.92	0.90	2.63
				850	41.36	41.50	-0.34	0.93	0.92	1.87
1	9/15/2020	835	Head	835	40.72	41.50	-1.88	0.95	0.90	6.08
				805	40.80	41.68	-2.11	0.95	0.90	5.33
				850	40.65	41.50	-2.05	0.96	0.92	4.80
1	9/19/2020	2600	Head	2600	38.38	39.01	-1.62	2.05	1.96	4.63
				2495	38.50	39.14	-1.64	1.97	1.85	6.35
				2690	38.15	38.90	-1.92	2.12	2.06	2.99

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
2	8/15/2020	2600	Head	2600	37.43	39.01	-4.05	1.92	1.96	-2.40
				2495	37.58	39.14	-3.99	1.83	1.85	-0.95
				2690	37.27	38.90	-4.18	1.98	2.06	-3.81
2	9/8/2020	2300	Head	2300	37.85	39.47	-4.11	1.77	1.66	6.33
				2350	37.91	39.38	-3.74	1.81	1.71	5.93
				2400	37.87	39.30	-3.63	1.84	1.75	4.87
2	9/17/2020	1750	Head	1750	38.72	40.08	-3.40	1.23	1.37	-9.86
				1710	38.85	40.15	-3.23	1.22	1.35	-9.61
				1755	38.71	40.08	-3.41	1.25	1.37	-9.02

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
3	8/27/2020	2600	Head	2600	38.91	39.01	-0.26	2.01	1.96	2.29
				2495	39.12	39.14	-0.06	1.91	1.85	3.21
				2690	38.72	38.90	-0.46	2.07	2.06	0.71
3	8/31/2020	2600	Head	2600	38.97	39.01	-0.10	1.92	1.96	-2.05
				2495	39.11	39.14	-0.08	1.84	1.85	-0.36
				2690	38.80	38.90	-0.25	2.00	2.06	-3.08
3	9/4/2020	2600	Head	2600	37.97	39.01	-2.67	1.93	1.96	-1.74
				2495	38.12	39.14	-2.61	1.84	1.85	-0.41
				2690	37.80	38.90	-2.82	2.00	2.06	-3.03
3	9/7/2020	2600	Head	2600	39.01	39.01	0.00	1.96	1.96	-0.16
				2495	39.28	39.14	0.35	1.88	1.85	1.64
				2690	38.84	38.90	-0.15	2.04	2.06	-0.99
3	9/11/2020	2600	Head	2600	38.18	39.01	-2.13	1.94	1.96	-1.18
				2495	38.30	39.14	-2.15	1.85	1.85	0.29
				2690	37.97	38.90	-2.38	2.01	2.06	-2.26
3	9/14/2020	2600	Head	2600	38.14	39.01	-2.23	2.02	1.96	3.10
				2495	38.31	39.14	-2.13	1.93	1.85	4.56
				2690	37.96	38.90	-2.41	2.10	2.06	2.02
3	9/18/2020	2600	Head	2600	37.95	39.01	-2.72	1.97	1.96	0.40
				2495	38.01	39.14	-2.90	1.89	1.85	2.35
				2690	37.75	38.90	-2.95	2.04	2.06	-0.85

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
4	8/17/2020	1900	Head	1900	40.19	40.00	0.47	1.43	1.40	1.79
				1850	40.29	40.00	0.72	1.40	1.40	-0.36
				1920	40.20	40.00	0.50	1.44	1.40	2.50
4	8/17/2020	1750	Head	1750	40.45	40.08	0.91	1.34	1.37	-2.41
				1710	40.52	40.15	0.93	1.32	1.35	-2.33
				1755	40.44	40.08	0.91	1.34	1.37	-2.32
4	8/22/2020	1900	Head	1900	38.19	40.00	-4.53	1.46	1.40	4.29
				1850	38.34	40.00	-4.15	1.43	1.40	2.14
				1920	38.22	40.00	-4.45	1.47	1.40	5.00
4	8/24/2020	1900	Head	1900	41.20	40.00	3.00	1.46	1.40	4.14
				1850	41.25	40.00	3.13	1.43	1.40	2.00
				1920	41.16	40.00	2.90	1.47	1.40	4.79
4	8/28/2020	1900	Head	1900	38.42	40.00	-3.95	1.46	1.40	4.21
				1850	38.47	40.00	-3.83	1.43	1.40	2.07
				1920	38.41	40.00	-3.98	1.47	1.40	4.93
4	8/31/2020	1900	Head	1900	39.82	40.00	-0.45	1.45	1.40	3.79
				1850	39.95	40.00	-0.12	1.42	1.40	1.14
				1920	39.79	40.00	-0.53	1.46	1.40	4.57
4	9/7/2020	1900	Head	1900	40.42	40.00	1.05	1.38	1.40	-1.43
				1850	40.41	40.00	1.02	1.35	1.40	-3.29
				1920	40.39	40.00	0.98	1.39	1.40	-1.00
4	9/11/2020	1900	Head	1900	39.13	40.00	-2.17	1.45	1.40	3.71
				1850	39.21	40.00	-1.98	1.42	1.40	1.57
				1920	39.09	40.00	-2.27	1.46	1.40	4.36
4	9/21/2020	1900	Head	1900	39.41	40.00	-1.48	1.46	1.40	4.29
				1850	39.49	40.00	-1.28	1.42	1.40	1.64
				1920	39.39	40.00	-1.53	1.47	1.40	4.79

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
5	8/11/2020	835	Head	835	42.96	41.50	3.52	0.93	0.90	3.17
				805	43.12	41.68	3.46	0.92	0.90	2.97
				850	42.88	41.50	3.33	0.93	0.92	1.91
5	8/17/2020	2600	Head	2600	40.51	39.01	3.84	1.91	1.96	-2.76
				2495	40.85	39.14	4.36	1.82	1.85	-1.66
				2690	40.43	38.90	3.94	1.97	2.06	-4.15
5	8/21/2020	2600	Head	2600	38.00	39.01	-2.59	1.91	1.96	-2.81
				2495	38.16	39.14	-2.51	1.82	1.85	-1.66
				2690	37.84	38.90	-2.72	1.98	2.06	-4.05
5	8/25/2020	2300	Head	2300	38.12	39.47	-3.43	1.73	1.66	3.80
				2350	38.10	39.38	-3.26	1.78	1.71	4.29
				2400	38.05	39.30	-3.17	1.81	1.75	3.45
5	8/28/2020	2300	Head	2300	39.12	39.47	-0.89	1.66	1.66	-0.22
				2350	39.14	39.38	-0.62	1.75	1.71	2.48
				2400	39.15	39.30	-0.37	1.76	1.75	0.42
5	9/11/2020	835	Head	835	39.91	41.50	-3.83	0.94	0.90	4.21
				805	39.93	41.68	-4.20	0.93	0.90	3.11
				850	39.87	41.50	-3.93	0.94	0.92	3.18

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
6	8/10/2020	1900	Head	1900	38.87	40.00	-2.83	1.43	1.40	2.43
				1850	38.93	40.00	-2.68	1.41	1.40	0.79
				1920	38.85	40.00	-2.88	1.45	1.40	3.79
6	8/11/2020	1900	Head	1900	39.06	40.00	-2.35	1.44	1.40	2.50
				1850	39.16	40.00	-2.10	1.41	1.40	0.86
				1920	39.01	40.00	-2.48	1.45	1.40	3.21
6	8/13/2020	1750	Head	1750	38.85	40.08	-3.08	1.31	1.37	-4.53
				1710	38.92	40.15	-3.05	1.29	1.35	-4.12
				1755	38.85	40.08	-3.06	1.31	1.37	-4.43
6	8/17/2020	1750	Head	1750	39.54	40.08	-1.36	1.32	1.37	-3.72
				1710	39.58	40.15	-1.41	1.28	1.35	-5.30
				1755	39.55	40.08	-1.31	1.32	1.37	-3.48
6	8/18/2020	1900	Head	1750	38.44	40.08	-4.10	1.37	1.37	-0.14
				1710	38.55	40.15	-3.98	1.35	1.35	0.27
				1755	38.43	40.08	-4.11	1.37	1.37	0.16
6	8/22/2020	1750	Head	1750	38.80	40.08	-3.20	1.35	1.37	-1.39
				1710	38.87	40.15	-3.18	1.33	1.35	-1.44
				1755	38.78	40.08	-3.24	1.35	1.37	-1.30
6	8/22/2020	1900	Head	1900	38.55	40.00	-3.63	1.44	1.40	2.93
				1850	38.65	40.00	-3.38	1.41	1.40	0.71
				1920	38.55	40.00	-3.63	1.45	1.40	3.57
6	8/24/2020	750	Head	750	39.87	41.96	-4.98	0.91	0.89	1.69
				660	43.19	42.42	1.81	0.88	0.89	-0.18
				800	39.93	41.71	-4.26	0.92	0.90	2.41
6	8/28/2020	1750	Head	1750	39.90	40.08	-0.46	1.31	1.37	-4.31
				1710	39.97	40.15	-0.44	1.29	1.35	-4.34
				1755	39.89	40.08	-0.47	1.31	1.37	-4.21
6	8/28/2020	1900	Head	1900	39.66	40.00	-0.85	1.39	1.40	-0.43
				1850	39.70	40.00	-0.75	1.36	1.40	-2.57
				1920	39.67	40.00	-0.82	1.40	1.40	0.07
6	9/1/2020	1900	Head	1900	39.59	40.00	-1.02	1.40	1.40	0.00
				1850	39.68	40.00	-0.80	1.38	1.40	-1.71
				1920	39.54	40.00	-1.15	1.41	1.40	0.86

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
8	8/10/2020	835	Head	835	39.56	41.50	-4.67	0.91	0.90	1.01
				805	39.61	41.68	-4.97	0.90	0.90	0.37
				850	39.51	41.50	-4.80	0.91	0.92	-0.07
8	8/14/2020	835	Head	835	40.12	41.50	-3.33	0.88	0.90	-1.89
				805	40.53	41.68	-2.76	0.89	0.90	-1.33
				850	40.01	41.50	-3.59	0.89	0.92	-3.25
8	8/18/2020	835	Head	835	43.38	41.50	4.53	0.95	0.90	5.84
				805	43.41	41.68	4.15	0.94	0.90	4.91
				850	43.34	41.50	4.43	0.96	0.92	4.55
8	8/22/2020	835	Head	835	40.26	41.50	-2.99	0.93	0.90	2.89
				805	40.31	41.68	-3.29	0.92	0.90	2.09
				850	40.24	41.50	-3.04	0.93	0.92	1.80
8	8/26/2020	835	Head	835	40.06	41.50	-3.47	0.93	0.90	3.19
				805	40.08	41.68	-3.84	0.92	0.90	2.32
				850	40.02	41.50	-3.57	0.93	0.92	1.97
8	8/30/2020	835	Head	835	42.60	41.50	2.65	0.89	0.90	-0.62
				805	42.80	41.68	2.69	0.89	0.90	-0.64
				850	42.55	41.50	2.53	0.90	0.92	-1.42
8	9/3/2020	835	Head	835	43.36	41.50	4.48	0.91	0.90	1.59
				805	43.45	41.68	4.25	0.90	0.90	0.62
				850	43.31	41.50	4.36	0.92	0.92	0.52

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
L1	8/19/2020	3500	Head	3500	39.40	37.93	3.88	2.90	2.91	-0.54
				3700	39.02	37.70	3.50	3.10	3.12	-0.65
				3600	39.20	37.82	3.66	3.00	3.01	-0.59
L1	8/24/2020	3500	Head	3500	36.47	37.93	-3.85	2.81	2.91	-3.42
				3700	36.16	37.70	-4.09	2.98	3.12	-4.50
				3600	36.47	37.82	-3.56	2.90	3.01	-3.88
L1	8/28/2020	3500	Head	3500	38.85	37.93	2.43	2.79	2.91	-4.11
				3700	38.45	37.70	1.99	2.98	3.12	-4.50
				3600	38.69	37.82	2.31	2.88	3.01	-4.44
L1	9/1/2020	3500	Head	3500	38.58	37.93	1.71	2.82	2.91	-3.32
				3700	38.25	37.70	1.46	3.00	3.12	-3.86
				3600	38.47	37.82	1.73	2.90	3.01	-3.88
L1	9/5/2020	3500	Head	3500	36.61	37.93	-3.48	3.00	2.91	2.93
				3700	36.35	37.70	-3.58	3.21	3.12	2.98
				3600	36.44	37.82	-3.64	3.10	3.01	2.92
L1	9/9/2020	3500	Head	3500	37.76	37.93	-0.45	3.04	2.91	4.48
				3700	37.48	37.70	-0.59	3.25	3.12	4.29
				3600	37.77	37.82	-0.12	3.14	3.01	4.15

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
L2	8/18/2020	5200	Head	5200	35.78	35.99	-0.58	4.59	4.65	-1.25
				5150	35.91	36.05	-0.38	4.53	4.60	-1.63
				5350	35.52	35.82	-0.83	4.77	4.80	-0.80
L2	8/18/2020	5600	Head	5600	35.09	35.53	-1.25	5.05	5.06	-0.30
				5500	35.27	35.65	-1.06	4.93	4.96	-0.62
				5725	34.86	35.39	-1.50	5.20	5.19	0.25
L2	8/18/2020	5800	Head	5800	34.73	35.30	-1.61	5.28	5.27	0.23
				5700	34.90	35.42	-1.47	5.16	5.16	0.03
				5850	34.63	35.30	-1.90	5.34	5.27	1.35
L2	8/19/2020	2600	Head	2600	37.85	39.01	-2.98	1.94	1.96	-0.98
				2495	37.95	39.14	-3.05	1.84	1.85	-0.36
				2690	37.68	38.90	-3.13	2.02	2.06	-2.06
L2	8/24/2020	2600	Head	2600	37.63	39.01	-3.54	1.90	1.96	-3.42
				2495	37.78	39.14	-3.48	1.82	1.85	-1.82
				2690	37.40	38.90	-3.85	1.97	2.06	-4.34
L2	8/28/2020	2600	Head	2600	38.23	39.01	-2.00	1.97	1.96	0.40
				2495	38.41	39.14	-1.87	1.88	1.85	1.91
				2690	38.09	38.90	-2.08	2.04	2.06	-0.80
L2	9/1/2020	2600	Head	2600	40.60	39.01	4.07	2.01	1.96	2.49
				2495	40.66	39.14	3.87	1.94	1.85	4.78
				2690	40.33	38.90	3.68	2.10	2.06	1.77
L2	9/5/2020	2600	Head	2600	39.99	39.01	2.51	2.03	1.96	3.25
				2495	40.11	39.14	2.47	1.93	1.85	4.35
				2690	39.74	38.90	2.17	2.13	2.06	3.23
L2	9/7/2020	2600	Head	2600	38.91	39.01	-0.26	2.02	1.96	2.69
				2495	39.12	39.14	-0.06	1.93	1.85	4.56
				2690	38.74	38.90	-0.40	2.10	2.06	2.07
L2	9/11/2020	2600	Head	2600	38.05	39.01	-2.46	1.94	1.96	-1.18
				2495	38.18	39.14	-2.46	1.86	1.85	0.40
				2690	37.84	38.90	-2.72	2.01	2.06	-2.40
L2	9/15/2020	2600	Head	2600	37.32	39.01	-4.33	1.91	1.96	-2.56
				2495	37.46	39.14	-4.30	1.83	1.85	-0.90
				2690	37.14	38.90	-4.52	1.98	2.06	-3.81
L2	9/19/2020	2600	Head	2600	39.16	39.01	0.38	1.95	1.96	-0.72
				2495	39.33	39.14	0.48	1.87	1.85	0.88
				2690	38.99	38.90	0.24	2.02	2.06	-1.87

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
L3	8/16/2020	2600	Head	2600	39.22	39.01	0.54	1.91	1.96	-2.56
				2495	39.38	39.14	0.60	1.82	1.85	-1.44
				2690	39.02	38.90	0.32	1.98	2.06	-3.86
L3	8/17/2020	3500	Head	3500	37.99	37.93	0.16	2.86	2.91	-1.81
				3600	37.80	37.82	-0.04	2.96	3.01	-1.69
				3700	37.66	37.70	-0.11	3.06	3.12	-1.71
L3	8/17/2020	3700	Head	3700	37.66	37.70	-0.11	3.06	3.12	-1.71
				3500	37.99	37.93	0.16	2.86	2.91	-1.81
				3600	37.80	37.82	-0.04	2.96	3.01	-1.69
L3	8/21/2020	3500	Head	3500	39.74	37.93	4.77	2.80	2.91	-3.90
				3600	39.56	37.82	4.61	2.89	3.01	-4.04
				3700	39.41	37.70	4.53	2.99	3.12	-4.18
L3	8/25/2020	3500	Head	3500	36.18	37.93	-4.61	2.90	2.91	-0.40
				3400	36.59	38.04	-3.82	2.84	2.81	1.02
				3600	36.14	37.82	-4.43	3.01	3.01	-0.30
L3	8/30/2020	3500	Head	3500	39.34	37.93	3.72	2.91	2.91	-0.12
				3400	39.66	38.04	4.25	2.84	2.81	0.92
				3600	39.27	37.82	3.85	3.00	3.01	-0.43
L3	8/30/2020	3500	Head	3500	39.34	37.93	3.72	2.91	2.91	-0.12
				3700	39.02	37.70	3.50	3.10	3.12	-0.42
				3600	39.27	37.82	3.85	3.00	3.01	-0.43
L3	9/2/2020	3500	Head	3500	39.27	37.93	3.53	2.85	2.91	-2.15
				3400	39.39	38.04	3.54	2.75	2.81	-2.00
				3600	39.04	37.82	3.24	2.95	3.01	-2.22
L3	9/2/2020	3500	Head	3700	38.87	37.70	3.09	3.05	3.12	-2.06
				3500	39.27	37.93	3.53	2.85	2.91	-2.15
				3600	39.04	37.82	3.24	2.95	3.01	-2.22
L3	9/6/2020	3500	Head	3500	37.80	37.93	-0.34	2.85	2.91	-2.08
				3400	37.98	38.04	-0.17	2.78	2.81	-1.08
				3600	37.66	37.82	-0.41	2.94	3.01	-2.42
L3	9/9/2020	3500	Head	3500	36.75	37.93	-3.11	2.81	2.91	-3.39
				3400	37.00	38.04	-2.74	2.72	2.81	-3.28
				3600	36.71	37.82	-2.92	2.88	3.01	-4.31
L3	9/14/2020	3500	Head	3500	37.47	37.93	-1.21	2.87	2.91	-1.57
				3400	37.68	38.04	-0.96	2.77	2.81	-1.26
				3600	37.30	37.82	-1.36	2.93	3.01	-2.75

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
L4	8/15/2020	1750	Head	1750	38.74	40.08	-3.35	1.34	1.37	-2.48
				1710	38.79	40.15	-3.38	1.31	1.35	-3.00
				1755	38.73	40.08	-3.36	1.34	1.37	-2.68
L4	8/22/2020	1750	Head	1750	41.17	40.08	2.71	1.36	1.37	-0.87
				1710	41.19	40.15	2.60	1.33	1.35	-1.22
				1755	41.16	40.08	2.70	1.36	1.37	-0.79
L4	8/24/2020	1750	Head	1750	41.96	40.08	4.68	1.41	1.37	2.63
				1710	42.04	40.15	4.72	1.39	1.35	3.09
				1755	41.96	40.08	4.70	1.41	1.37	2.57
L4	8/28/2020	1750	Head	1750	39.46	40.08	-1.56	1.39	1.37	1.76
				1710	39.43	40.15	-1.78	1.40	1.35	3.61
				1755	39.47	40.08	-1.51	1.39	1.37	1.55
L4	8/28/2020	1900	Head	1900	38.12	40.00	-4.70	1.41	1.40	0.36
				1850	38.29	40.00	-4.28	1.42	1.40	1.57
				1920	38.04	40.00	-4.90	1.42	1.40	1.29
L4	8/31/2020	1750	Head	1750	38.25	40.08	-4.58	1.43	1.37	4.09
				1710	38.25	40.15	-4.72	1.40	1.35	4.13
				1755	38.26	40.08	-4.53	1.43	1.37	4.02
L4	9/7/2020	3500	Head	3500	39.30	37.93	3.61	2.84	2.91	-2.32
				3600	39.07	37.82	3.32	2.92	3.01	-3.12
				3700	39.07	37.70	3.63	3.01	3.12	-3.31
L4	9/7/2020	1750	Head	1750	38.99	40.08	-2.73	1.41	1.37	3.00
				1710	39.06	40.15	-2.71	1.39	1.35	3.16
				1755	38.99	40.08	-2.71	1.41	1.37	2.93
L4	9/9/2020	1900	Head	1900	41.28	40.00	3.20	1.46	1.40	4.21
				1850	41.33	40.00	3.33	1.43	1.40	1.93
				1920	41.25	40.00	3.13	1.47	1.40	4.71
L4	9/13/2020	1900	Head	1900	40.84	40.00	2.10	1.43	1.40	2.43
				1850	40.94	40.00	2.35	1.40	1.40	-0.21
				1920	40.78	40.00	1.95	1.44	1.40	2.93
L4	9/17/2020	1900	Head	1900	40.71	40.00	1.78	1.41	1.40	0.57
				1850	40.81	40.00	2.03	1.38	1.40	-1.43
				1920	40.65	40.00	1.63	1.42	1.40	1.07

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
L6	8/7/2020	750	Head	750	40.20	41.96	-4.20	0.89	0.89	-0.24
				660	40.74	42.42	-3.97	0.89	0.89	0.74
				800	40.26	41.71	-3.47	0.90	0.90	0.80
L6	8/12/2020	750	Head	750	41.80	41.96	-0.38	0.90	0.89	0.71
				660	43.23	42.42	1.90	0.86	0.89	-2.85
				800	41.33	41.71	-0.90	0.92	0.90	2.47
L6	8/17/2020	750	Head	750	40.22	41.96	-4.15	0.91	0.89	1.64
				660	40.55	42.42	-4.42	0.88	0.87	0.93
				800	39.97	41.71	-4.16	0.93	0.90	3.13
L6	8/20/2020	750	Head	750	40.01	41.96	-4.65	0.92	0.89	2.94
				660	40.65	42.42	-4.18	0.89	0.89	0.43
				800	40.04	41.71	-3.99	0.94	0.90	4.43
L6	9/4/2020	750	Head	750	39.90	41.96	-4.91	0.88	0.89	-1.58
				660	44.48	42.42	4.85	0.85	0.89	-3.62
				800	40.50	41.71	-2.89	0.89	0.90	-0.85
L6	9/11/2020	835	Head	835	41.41	41.50	-0.22	0.93	0.90	3.07
				805	41.51	41.68	-0.41	0.92	0.90	2.61
				850	41.36	41.50	-0.34	0.93	0.92	1.85

8.2. System Check

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are re-measured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

System Performance Check Measurement Conditions:

- The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0 $\pm$ 0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be $\geq$ 15.0 cm for SAR measurements $\leq$ 3 GHz and $\geq$ 10.0 cm for measurements $>$ 3 GHz.
- The DASY system with an E-Field Probe was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 10 mm (above 1 GHz) and 15 mm (below 1 GHz) from dipole center to the simulating liquid surface.
- The coarse grid with a grid spacing of 15 mm was aligned with the dipole.
For 5 GHz band - The coarse grid with a grid spacing of 10 mm was aligned with the dipole.
- Special 7x7x7 (below 3 GHz) and/or 8x8x7 (above 3 GHz) fine cube was chosen for the cube.
- Distance between probe sensors and phantom surface was set to 3 mm.
For 5 GHz band - Distance between probe sensors and phantom surface was set to 2.5 mm
- The dipole input power (forward power) was 100 mW.
- The results are normalized to 1 W input power.

System Check Results

The 1-g and 10-g SAR measured with a reference dipole, using the required tissue-equivalent medium at the test frequency, must be within $\pm 10\%$ of the manufacturer calibrated dipole SAR target. Refer to Appendix B for the SAR System Check Plots.

SAR Lab	Date	Tissue Type	Dipole Type Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	
A	8/24/2020	Head	D3900V2 SN:1052	8/3/2021	6.750	67.50	70.10	-3.71	2.420	24.20	24.30	-0.41	
A	8/28/2020	Head	D3900V2 SN:1052	8/3/2021	6.470	64.70	70.10	-7.70	2.310	23.10	24.30	-4.94	1,2
A	9/1/2020	Head	D3900V2 SN:1052	8/3/2021	6.510	65.10	70.10	-7.13	2.320	23.20	24.30	-4.53	
A	9/1/2020	Head	D3900V2 SN:1052	8/3/2021	7.140	71.40	70.10	1.85	2.540	25.40	24.30	4.53	
A	9/5/2020	Head	D3900V2 SN:1052	8/3/2021	6.930	69.30	70.10	-1.14	2.490	24.90	24.30	2.47	
A	9/9/2020	Head	D3900V2 SN:1052	8/3/2021	7.190	71.90	70.10	2.57	2.610	26.10	24.30	7.41	

SAR Lab	Date	Tissue Type	Dipole Type Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	
B	8/24/2020	Head	D3900V2 SN:1052	8/3/2021	7.210	72.10	70.10	2.85	2.620	26.20	24.30	7.82	
B	8/28/2020	Head	D3900V2 SN:1052	8/3/2021	6.420	64.20	70.10	-8.42	2.360	23.60	24.30	-2.88	3,4
B	8/28/2020	Head	D3500V2 SN:1011	4/17/2021	7.170	71.70	68.87	4.11	2.830	28.30	26.47	6.91	
B	9/1/2020	Head	D3500V2 SN:1011	4/17/2021	7.240	72.40	68.87	5.13	2.890	28.90	26.47	9.18	5,6
B	9/1/2020	Head	D3900V2 SN:1052	8/3/2021	6.720	67.20	70.10	-4.14	2.520	25.20	24.30	3.70	
B	9/9/2020	Head	D3900V2 SN:1052	8/3/2021	6.920	69.20	70.10	-1.28	2.600	26.00	24.30	7.00	

SAR Lab	Date	Tissue Type	Dipole Type Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	
D	9/28/2020	Head	D2600V2 SN:1006	10/14/2020	5.410	54.10	55.70	-2.87	2.410	24.10	25.10	-3.98	7,8

SAR Lab	Date	Tissue Type	Dipole Type Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	
E	8/22/2020	Head	D2300V2 SN:1002	4/17/2021	4.680	46.80	49.76	-5.95	2.350	23.50	23.64	-0.59	
E	8/26/2020	Head	D1900V2 SN:5d140	4/21/2021	4.220	42.20	38.77	8.85	2.140	21.40	19.90	7.54	9,10
E	8/26/2020	Head	D2300V2 SN:1002	4/17/2021	5.420	54.20	49.76	8.92	2.580	25.80	23.64	9.14	11,12
E	8/31/2020	Head	D2300V2 SN:1002	4/17/2021	5.040	50.40	49.76	1.29	2.410	24.10	23.64	1.95	
E	9/8/2020	Head	D3900V2 SN:1052	8/3/2021	7.110	71.10	70.10	1.43	2.590	25.90	24.30	6.58	13,14
E	9/15/2020	Head	D2450V2 SN:899	4/17/2021	5.510	55.10	51.75	6.47	2.620	26.20	24.12	8.62	15,16
E	9/19/2020	Head	D2450V2 SN:899	4/17/2021	5.480	54.80	51.75	5.89	2.550	25.50	24.12	5.72	
E	9/28/2020	Head	D2600V2 SN:1036	4/17/2021	5.680	56.80	56.53	0.48	2.600	26.00	25.23	3.05	17,18

SAR Lab	Date	Tissue Type	Dipole Type Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta $\pm 10\%$	
F	8/25/2020	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/12/2021	8.400	84.00	79.80	5.26	2.400	24.00	22.50	6.67	
F	9/2/2020	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/12/2021	7.400	74.00	79.80	-7.27	2.120	21.20	22.50	-5.78	
F	9/6/2020	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/12/2021	8.200	82.00	79.80	2.76	2.360	23.60	22.50	4.89	
F	9/10/2020	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/12/2021	7.200	72.00	79.80	-9.77	2.210	22.10	22.50	-1.78	19,20
F	9/14/2020	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/12/2021	7.540	75.40	79.80	-5.51	2.320	23.20	22.50	3.11	

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
G	8/26/2020	Head	D2450V2 SN:899	4/17/2021	5.180	51.80	51.75	0.10	2.340	23.40	24.12	-2.99	
G	8/30/2020	Head	D2450V2 SN:899	4/17/2021	5.370	53.70	51.75	3.77	2.440	24.40	24.12	1.16	
G	9/3/2020	Head	D2450V2 SN:899	4/17/2021	5.480	54.80	51.75	5.89	2.500	25.00	24.12	3.65	
G	9/6/2020	Head	D2450V2 SN:748	3/12/2021	5.350	53.50	54.14	-1.18	2.430	24.30	25.24	-3.72	21,22
G	9/11/2020	Head	D2450V2 SN:899	4/17/2021	5.210	52.10	51.75	0.68	2.400	24.00	24.12	-0.50	
G	9/15/2020	Head	D2450V2 SN:899	4/17/2021	5.190	51.90	51.75	0.29	2.350	23.50	24.12	-2.57	
G	9/19/2020	Head	D2450V2 SN:899	4/17/2021	4.850	48.50	51.75	-6.28	2.230	22.30	24.12	-7.55	23,24
G	9/28/2020	Head	D2600V2 SN:1036	4/17/2021	6.080	60.80	56.53	7.55	2.630	26.30	25.23	4.24	25,26

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
H	9/2/2020	Head	D5GHZV2 SN:1168 (5.2 GHz)	11/23/2020	7.700	77.00	79.20	-2.78	2.230	22.30	22.50	-0.89	
H	9/2/2020	Head	D5GHZV2 SN:1168 (5.8 GHz)	11/23/2020	7.720	77.20	79.60	-3.02	2.240	22.40	22.40	0.00	
H	9/6/2020	Head	D5GHZV2 SN:1168 (5.2 GHz)	11/23/2020	7.960	79.60	79.20	0.51	2.310	23.10	22.50	2.67	
H	9/6/2020	Head	D5GHZV2 SN:1168 (5.8 GHz)	11/23/2020	8.290	82.90	79.60	4.15	2.400	24.00	22.40	7.14	
H	9/10/2020	Head	D5GHZV2 SN:1168 (5.2 GHz)	11/23/2020	7.190	71.90	79.20	-9.22	2.090	20.90	22.50	-7.11	27,28
H	9/10/2020	Head	D5GHZV2 SN:1168 (5.8 GHz)	11/23/2020	7.890	78.90	79.60	-0.88	2.300	23.00	22.40	2.68	
H	9/14/2020	Head	D5GHZV2 SN:1168 (5.2 GHz)	11/23/2020	7.280	72.80	79.20	-8.08	2.120	21.20	22.50	-5.78	
H	9/14/2020	Head	D5GHZV2 SN:1168 (5.8 GHz)	11/23/2020	7.960	79.60	79.60	0.00	2.310	23.10	22.40	3.13	
H	9/18/2020	Head	D5GHZV2 SN:1168 (5.2 GHz)	11/23/2020	7.940	79.40	79.20	0.25	2.310	23.10	22.50	2.67	
H	9/18/2020	Head	D5GHZV2 SN:1168 (5.8 GHz)	11/23/2020	7.880	78.80	79.60	-1.01	2.300	23.00	22.40	2.68	

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
1	9/4/2020	Head	D750V3 SN:1071	11/20/2020	0.828	8.28	8.52	-2.82	0.569	5.69	5.56	2.34	29,30
1	9/4/2020	Head	D835V2 SN:4d002	11/20/2020	0.997	9.97	9.78	1.94	0.669	6.69	6.37	5.02	
1	9/7/2020	Head	D835V2 SN:4d142	8/18/2021	0.947	9.47	9.36	1.18	0.660	6.60	6.09	8.37	31,32
1	9/10/2020	Head	D750V3 SN:1071	11/20/2020	0.855	8.55	8.52	0.35	0.606	6.06	5.56	8.99	
1	9/11/2020	Head	D835V2 SN:4d002	11/20/2020	0.978	9.78	9.78	0.00	0.690	6.90	6.37	8.32	
1	9/15/2020	Head	D835V2 SN:4d002	11/20/2020	1.050	10.50	9.78	7.36	0.692	6.92	6.37	8.63	33,34
1	9/19/2020	Head	D2600V2 SN:1006	10/14/2020	5.970	59.70	55.70	7.18	2.700	27.00	25.10	7.57	35,36

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
2	8/15/2020	Head	D2600V2 SN:1006	10/14/2020	5.640	56.40	55.70	1.26	2.530	25.30	25.10	0.80	37,38
2	9/8/2020	Head	D2300V2 SN:1058	10/14/2020	5.130	51.30	48.70	5.34	2.440	24.40	23.70	2.95	39,40
2	9/17/2020	Head	D1750V2 SN:1053	10/10/2020	3.500	35.00	37.20	-5.91	1.850	18.50	19.60	-5.61	41,42

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
3	8/27/2020	Head	D2600V2 SN:1006	10/14/2020	5.830	58.30	55.70	4.67	2.610	26.10	25.10	3.98	
3	8/31/2020	Head	D2600V2 SN:1006	10/14/2020	5.840	58.40	55.70	4.85	2.630	26.30	25.10	4.78	
3	9/4/2020	Head	D2600V2 SN:1036	4/17/2021	5.600	56.00	56.53	-0.94	2.510	25.10	25.23	-0.52	
3	9/7/2020	Head	D2600V2 SN:1036	4/17/2021	5.910	59.10	56.53	4.55	2.640	26.40	25.23	4.64	43,44
3	9/11/2020	Head	D2600V2 SN:1006	10/14/2020	5.630	56.30	55.70	1.08	2.540	25.40	25.10	1.20	
3	9/14/2020	Head	D2600V2 SN:1006	10/14/2020	6.000	60.00	55.70	7.72	2.700	27.00	25.10	7.57	45,46
3	9/18/2020	Head	D2600V2 SN:1006	10/14/2020	5.990	59.90	55.70	7.54	2.690	26.90	25.10	7.17	

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
4	8/17/2020	Head	D1900V2 SN:5d043	11/20/2020	4.380	43.80	40.40	8.42	2.250	22.50	21.10	6.64	47,48
4	8/17/2020	Head	D1750V2 SN:1053	10/10/2020	3.930	39.30	37.20	5.65	2.070	20.70	19.60	5.61	49,50
4	8/22/2020	Head	D1900V2 SN:5d043	11/20/2020	4.370	43.70	40.40	8.17	2.260	22.60	21.10	7.11	
4	8/24/2020	Head	D1900V2 SN:5d163	10/14/2020	4.220	42.20	40.30	4.71	2.180	21.80	21.10	3.32	
4	8/28/2020	Head	D1900V2 SN:5d163	10/14/2020	4.300	43.00	40.30	6.70	2.220	22.20	21.10	5.21	51,52
4	8/31/2020	Head	D1900V2 SN:5d163	10/14/2020	4.150	41.50	40.30	2.98	2.140	21.40	21.10	1.42	
4	9/7/2020	Head	D1900V2 SN:5d163	10/14/2020	3.900	39.00	40.30	-3.23	2.030	20.30	21.10	-3.79	
4	9/11/2020	Head	D1900V2 SN:5d163	10/14/2020	4.110	41.10	40.30	1.99	2.120	21.20	21.10	0.47	
4	9/21/2020	Head	D1900V2 SN:5d163	10/14/2020	4.120	41.20	40.30	2.23	2.130	21.30	21.10	0.95	

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
5	8/11/2020	Head	D835V2 SN:4d002	11/20/2020	1.040	10.40	9.78	6.34	0.679	6.79	6.37	6.59	53,54
5	8/17/2020	Head	D2600V2 SN:1006	10/14/2020	5.940	59.40	55.70	6.64	2.660	26.60	25.10	5.98	55,56
5	8/21/2020	Head	D2600V2 SN:1006	10/14/2020	5.500	55.00	55.70	-1.26	2.460	24.60	25.10	-1.99	
5	8/25/2020	Head	D2300V2 SN:1058	10/14/2020	4.630	46.30	48.70	-4.93	2.190	21.90	23.70	-7.59	57,58
5	8/28/2020	Head	D2300V2 SN:1058	10/14/2020	4.930	49.30	48.70	1.23	2.320	23.20	23.70	-2.11	
5	9/11/2020	Head	D835V2 SN:4d142	8/18/2021	1.020	10.20	9.36	8.97	0.660	6.60	6.09	8.37	59,60

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
6	8/10/2020	Head	D1900V2 SN:5d043	11/20/2020	4.220	42.20	40.40	4.46	2.170	21.70	21.10	2.84	
6	8/11/2020	Head	D1900V2 SN:5d043	11/20/2020	4.370	43.70	40.40	8.17	2.250	22.50	21.10	6.64	61,62
6	8/13/2020	Head	D1750V2 SN:1077	10/10/2020	3.630	36.30	37.00	-1.89	1.910	19.10	19.40	-1.55	
6	8/17/2020	Head	D1750V2 SN:1077	10/10/2020	3.640	36.40	37.00	-1.62	1.930	19.30	19.40	-0.52	
6	8/18/2020	Head	D1900V2 SN:5d163	10/14/2020	4.380	43.80	40.30	8.68	2.270	22.70	21.10	7.58	63,64
6	8/22/2020	Head	D1750V2 SN:1050	4/21/2021	3.620	36.20	35.51	1.94	1.920	19.20	18.91	1.53	65,66
6	8/22/2020	Head	D1900V2 SN:5d140	4/21/2021	3.950	39.50	38.77	1.88	2.040	20.40	19.90	2.51	67,68
6	8/24/2020	Head	D750V3 SN:1071	11/20/2020	0.804	8.04	8.52	-5.63	0.526	5.26	5.56	-5.40	69,70
6	8/28/2020	Head	D1750V2 SN:1077	10/10/2020	3.550	35.50	37.00	-4.05	1.890	18.90	19.40	-2.58	71,72
6	8/28/2020	Head	D1900V2 SN:5d163	10/14/2020	4.360	43.60	40.30	8.19	2.270	22.70	21.10	7.58	
6	9/1/2020	Head	D1900V2 SN:5d043	11/20/2020	4.170	41.70	40.40	3.22	2.180	21.80	21.10	3.32	

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
8	8/10/2020	Head	D835V2 SN:4d002	11/20/2020	1.010	10.10	9.78	3.27	0.669	6.69	6.37	5.02	
8	8/14/2020	Head	D835V2 SN:4d002	11/20/2020	0.932	9.32	9.78	-4.70	0.613	6.13	6.37	-3.77	
8	8/18/2020	Head	D835V2 SN:4d002	11/20/2020	0.893	8.93	9.78	-8.69	0.584	5.84	6.37	-8.32	73.74
8	8/22/2020	Head	D835V2 SN:4d002	11/20/2020	0.931	9.31	9.78	-4.81	0.611	6.11	6.37	-4.08	
8	8/26/2020	Head	D835V2 SN:4d002	11/20/2020	0.922	9.22	9.78	-5.73	0.607	6.07	6.37	-4.71	
8	8/30/2020	Head	D835V2 SN:4d002	11/20/2020	0.901	9.01	9.78	-7.87	0.584	5.84	6.37	-8.32	
8	9/3/2020	Head	D835V2 SN:4d002	11/20/2020	0.992	9.92	9.78	1.43	0.643	6.43	6.37	0.94	

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
L1	8/19/2020	Head	D3500V2 SN:1060	3/12/2021	5.860	58.60	64.89	-9.69	2.280	22.80	24.80	-8.06	75.76
L1	8/24/2020	Head	D3500V2 SN:1060	3/12/2021	6.230	62.30	64.89	-3.99	2.410	24.10	24.80	-2.82	
L1	8/28/2020	Head	D3500V2 SN:1060	3/12/2021	5.910	59.10	64.89	-8.92	2.320	23.20	24.80	-6.45	
L1	9/1/2020	Head	D3500V2 SN:1060	3/12/2021	5.990	59.90	64.89	-7.69	2.330	23.30	24.80	-6.05	
L1	9/5/2020	Head	D3500V2 SN:1011	4/17/2021	6.850	68.50	68.87	-0.54	2.640	26.40	26.47	-0.26	
L1	9/9/2020	Head	D3500V2 SN:1011	4/17/2021	6.670	66.70	68.87	-3.15	2.580	25.80	26.47	-2.53	77.78

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
L2	8/18/2020	Head	D5GHZV2 SN:1168 (5.2 GHz)	11/23/2020	7.750	77.50	79.20	-2.15	2.220	22.20	22.50	-1.33	
L2	8/18/2020	Head	D5GHZV2 SN:1168 (5.6 GHz)	11/23/2020	8.990	89.90	83.80	7.28	2.520	25.20	23.70	6.33	79.80
L2	8/18/2020	Head	D5GHZV2 SN:1168 (5.8 GHz)	11/23/2020	8.060	80.60	79.60	1.26	2.270	22.70	22.40	1.34	
L2	8/19/2020	Head	D2600V2 SN:1006	10/14/2020	5.910	59.10	55.70	6.10	2.660	26.60	25.10	5.98	
L2	8/24/2020	Head	D2600V2 SN:1036	4/17/2021	5.780	57.80	56.53	2.25	2.600	26.00	25.23	3.05	
L2	8/28/2020	Head	D2600V2 SN:1006	10/14/2020	5.950	59.50	55.70	6.82	2.660	26.60	25.10	5.98	81.82
L2	9/1/2020	Head	D2600V2 SN:1006	10/14/2020	5.880	58.80	55.70	5.57	2.640	26.40	25.10	5.18	
L2	9/5/2020	Head	D2600V2 SN:1036	4/17/2021	6.120	61.20	56.53	8.26	2.740	27.40	25.23	8.60	83.84
L2	9/7/2020	Head	D2600V2 SN:1036	4/17/2021	5.780	57.80	56.53	2.25	2.570	25.70	25.23	1.86	
L2	9/11/2020	Head	D2600V2 SN:1006	10/14/2020	5.640	56.40	55.70	1.26	2.530	25.30	25.10	0.80	
L2	9/15/2020	Head	D2600V2 SN:1006	10/14/2020	5.910	59.10	55.70	6.10	2.630	26.30	25.10	4.78	
L2	9/19/2020	Head	D2600V2 SN:1006	10/14/2020	5.790	57.90	55.70	3.95	2.590	25.90	25.10	3.19	

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
L3	8/16/2020	Head	D2600V2 SN:1006	10/14/2020	5.370	53.70	55.70	-3.59	2.400	24.00	25.10	-4.38	85,86
L3	8/17/2020	Head	D3500V2 SN:1060	3/12/2021	6.160	61.60	64.89	-5.07	2.390	23.90	24.80	-3.63	
L3	8/17/2020	Head	D3700V2 SN:1039	5/11/2021	6.840	68.40	67.00	2.09	2.550	25.50	24.10	5.81	
L3	8/21/2020	Head	D3500V2 SN:1060	3/12/2021	5.970	59.70	64.89	-8.00	2.280	22.80	24.80	-8.06	
L3	8/21/2020	Head	D3700V2 SN:1039	5/11/2021	7.100	71.00	67.00	5.97	2.650	26.50	24.10	9.96	
L3	8/25/2020	Head	D3500V2 SN:1060	3/12/2021	5.950	59.50	64.89	-8.31	2.340	23.40	24.80	-5.65	
L3	8/25/2020	Head	D3700V2 SN:1039	5/11/2021	6.930	69.30	67.00	3.43	2.580	25.80	24.10	7.05	
L3	8/30/2020	Head	D3500V2 SN:1060	3/12/2021	6.690	66.90	64.89	3.10	2.620	26.20	24.80	5.65	
L3	8/30/2020	Head	D3700V2 SN:1039	5/11/2021	6.830	68.30	67.00	1.94	2.590	25.90	24.10	7.47	
L3	9/2/2020	Head	D3500V2 SN:1060	3/12/2021	5.980	59.80	64.89	-7.84	2.350	23.50	24.80	-5.24	
L3	9/2/2020	Head	D3700V2 SN:1039	5/11/2021	6.580	65.80	67.00	-1.79	2.460	24.60	24.10	2.07	
L3	9/6/2020	Head	D3500V2 SN:1060	3/12/2021	6.620	66.20	64.89	2.02	2.550	25.50	24.80	2.82	
L3	9/6/2020	Head	D3700V2 SN:1039	5/11/2021	6.660	66.60	67.00	-0.60	2.490	24.90	24.10	3.32	
L3	9/9/2020	Head	D3700V2 SN:1039	5/11/2021	6.920	69.20	67.00	3.28	2.580	25.80	24.10	7.05	
L3	9/9/2020	Head	D3500V2 SN:1060	3/12/2021	5.890	58.90	64.89	-9.23	2.320	23.20	24.80	-6.45	87,88
L3	9/14/2020	Head	D3500V2 SN:1060	3/12/2021	5.900	59.00	64.89	-9.08	2.310	23.10	24.80	-6.85	
L3	9/14/2020	Head	D3700V2 SN:1039	5/11/2021	7.150	71.50	67.00	6.72	2.650	26.50	24.10	9.96	89,90

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
L4	8/15/2020	Head	D1750V2 SN:1077	10/10/2020	3.720	37.20	37.00	0.54	1.950	19.50	19.40	0.52	
L4	8/22/2020	Head	D1750V2 SN:1077	10/10/2020	3.600	36.00	37.00	-2.70	1.890	18.90	19.40	-2.58	
L4	8/24/2020	Head	D1750V2 SN:1077	10/10/2020	3.660	36.60	37.00	-1.08	1.940	19.40	19.40	0.00	
L4	8/28/2020	Head	D1750V2 SN:1077	10/10/2020	3.850	38.50	37.00	4.05	2.050	20.50	19.40	5.67	
L4	8/28/2020	Head	D1900V2 SN:5d163	10/14/2020	4.260	42.60	40.30	5.71	2.180	21.80	21.10	3.32	91,92
L4	8/31/2020	Head	D1750V2 SN:1053	10/10/2020	3.920	39.20	37.20	5.38	2.080	20.80	19.60	6.12	93,94
L4	9/7/2020	Head	D3500V2 SN:1060	3/12/2021	6.500	65.00	64.89	0.17	2.490	24.90	24.80	0.40	95,96
L4	9/7/2020	Head	D1750V2 SN:1077	10/10/2020	3.860	38.60	37.00	4.32	2.050	20.50	19.40	5.67	97,98
L4	9/9/2020	Head	D1900V2 SN:5d163	10/14/2020	4.200	42.00	40.30	4.22	2.170	21.70	21.10	2.84	
L4	9/13/2020	Head	D1900V2 SN:5d163	10/14/2020	3.880	38.80	40.30	-3.72	2.000	20.00	21.10	-5.21	
L4	9/17/2020	Head	D1900V2 SN:5d163	10/14/2020	3.960	39.60	40.30	-1.74	2.050	20.50	21.10	-2.84	

SAR Lab	Date	Tissue Type	Dipole Type _Serial #	Dipole Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot No.
					Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	
L6	8/7/2020	Head	D750V3 SN:1071	11/20/2020	0.879	8.79	8.52	3.17	0.576	5.76	5.56	3.60	
L6	8/12/2020	Head	D750V3 SN:1071	11/20/2020	0.864	8.64	8.52	1.41	0.567	5.67	5.56	1.98	
L6	8/17/2020	Head	D750V3 SN:1071	11/20/2020	0.798	7.98	8.52	-6.34	0.522	5.22	5.56	-6.12	
L6	8/20/2020	Head	D750V3 SN:1071	11/20/2020	0.882	8.82	8.52	3.52	0.576	5.76	5.56	3.60	
L6	9/4/2020	Head	D750V3 SN:1071	11/20/2020	0.786	7.86	8.52	-7.75	0.513	5.13	5.56	-7.73	99,100
L6	9/11/2020	Head	D835V2 SN:4d142	8/18/2021	0.963	9.63	9.36	2.88	0.627	6.27	6.09	2.96	101,102

9. Conducted Output Power Measurements

Power measurements were performed in accordance to the device's two power modes, Mode A and Mode B for each antenna. Mode A power is used when the device is used against the user's head or away from the body. Mode B power is used when the device is used in a Body-worn configuration by the user.

The selection between antennas in the application is based on RSSI based antenna selection. The full details of power selections are described in the operational description. Refer to Sec. 7 and Sec. 10 for details of the testing. Test reductions have applied accordingly following the SAR KDB Procedure for the supported wireless technologies of the DUT. This is noted in detail for each technology in their respective Sections.

The Tune-up limit already includes component tolerance. KDB 447498 sec.4.1.(d) at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

9.1. GSM

Per KDB 941225 D01 3G SAR Procedures:

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data 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.

When different maximum output power applies to GSM voice or GPRS/EDGE time slots, GSM voice and GPRS/EDGE time slots should be tested separately to determine compliance by summing the corresponding reported SAR.

The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance

Per October 2013 TCB Workshop:

When the maximum frame-averaged powers levels are within 0.25 dB of each other, test the configuration with the most number of time slots.

Maximum Output Power (Tune-up Limit) for GSM

SAR is not required for EDGE (8PSK) mode because the maximum output power and tune-up limit is $\leq 1/4$ dB higher than GPRS/EDGE (GMSK) or the adjusted SAR of the highest reported SAR of GPRS/EDGE (GMSK) is ≤ 1.2 W/kg.

RF Air interface	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
GSM850	Voice/GPRS (1 slot)	33.50	33.50	32.00	32.00				
	GPRS 2 slots	32.50	32.50	31.00	31.00				
	EGPRS 1 slot	28.00	28.00	26.50	26.50				
	EGPRS 2 slots	27.00	27.00	25.50	25.50				
GSM1900	Voice/GPRS (1 slot)	32.00	30.00	29.50	29.50	31.00	30.00	28.25	29.00
	GPRS 2 slots	31.00	27.00	26.50	26.50	30.00	27.00	25.25	26.50
	EGPRS 1 slot	27.00	27.00	24.50	24.50	26.00	26.00	24.00	24.00
	EGPRS 2 slots	26.00	26.00	23.50	23.50	25.00	25.00	23.00	23.00

GSM850 Measured Results (ANT1)

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Tune-up Limit		Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	1	128	824.2	33.13	24.10	33.50	24.47	33.13	24.10	33.50	24.47
			190	836.6	33.18	24.15			33.18	24.15		
			251	848.8	33.13	24.10			33.13	24.10		
		2	128	824.2	32.12	26.10	32.50	26.48	32.12	26.10	32.50	26.48
			190	836.6	32.17	26.15			32.17	26.15		
			251	848.8	32.12	26.10			32.12	26.10		
EDGE (8PSK)	MCS5	1	128	824.2	27.12	18.09	28.00	18.97	27.12	18.09	28.00	18.97
			190	836.6	27.18	18.15			27.18	18.15		
			251	848.8	27.13	18.10			27.13	18.10		
		2	128	824.2	26.12	20.10	27.00	20.98	26.12	20.10	27.00	20.98
			190	836.6	26.18	20.16			26.18	20.16		
			251	848.8	26.12	20.10			26.12	20.10		

Note(s):

Based on the Tune-up Procedure, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

GSM850 Measured Results (ANT2)

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Tune-up Limit		Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	1	128	824.2	31.76	22.73	32.00	22.97	31.76	22.73	32.00	22.97
			190	836.6	31.70	22.67			31.70	22.67		
			251	848.8	31.52	22.49			31.52	22.49		
		2	128	824.2	30.72	24.70	31.00	24.98	30.72	24.70	31.00	24.98
			190	836.6	30.75	24.73			30.75	24.73		
			251	848.8	30.50	24.48			30.50	24.48		
EDGE (8PSK)	MCS5	1	128	824.2	26.32	17.29	26.50	17.47	26.32	17.29	26.50	17.47
			190	836.6	26.27	17.24			26.27	17.24		
			251	848.8	26.08	17.05			26.08	17.05		
		2	128	824.2	25.50	19.48	25.50	19.48	25.50	19.48	25.50	19.48
			190	836.6	25.46	19.44			25.46	19.44		
			251	848.8	25.26	19.24			25.26	19.24		

Note(s):

Based on the Tune-up Procedure, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

GSM1900 Measured Results (ANT1)

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Tune-up Limit		Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	1	512	1850.2	31.68	22.65	32.00	22.97	29.41	20.38	30.00	20.97
			661	1880.0	31.92	22.89			29.40	20.37		
			810	1909.8	31.80	22.77			29.33	20.30		
		2	512	1850.2	30.73	24.71	31.00	24.98	26.43	20.41	27.00	20.98
			661	1880.0	30.92	24.90			26.47	20.45		
			810	1909.8	30.80	24.78			26.40	20.38		
EDGE (8PSK)	MCS5	1	512	1850.2	26.32	17.29	27.00	17.97	26.32	17.29	27.00	17.97
			661	1880.0	26.55	17.52			26.55	17.52		
			810	1909.8	26.45	17.42			26.45	17.42		
		2	512	1850.2	25.61	19.59	26.00	19.98	25.61	19.59	26.00	19.98
			661	1880.0	25.81	19.79			25.81	19.79		
			810	1909.8	25.69	19.67			25.69	19.67		

Note(s):

Based on the Tune-up Procedure, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

GSM1900 Measured Results (ANT2)

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Tune-up Limit		Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	1	512	1850.2	29.10	20.07	29.50	20.47	29.10	20.07	29.50	20.47
			661	1880.0	29.10	20.07			29.10	20.07		
			810	1909.8	29.00	19.97			29.00	19.97		
		2	512	1850.2	26.00	19.98	26.50	20.48	26.00	19.98	26.50	20.48
			661	1880.0	26.10	20.08			26.10	20.08		
			810	1909.8	26.05	20.03			26.05	20.03		
EDGE (8PSK)	MCS5	1	512	1850.2	24.35	15.32	24.50	15.47	24.35	15.32	24.50	15.47
			661	1880.0	24.49	15.46			24.49	15.46		
			810	1909.8	24.42	15.39			24.42	15.39		
		2	512	1850.2	22.82	16.80	23.50	17.48	22.82	16.80	23.50	17.48
			661	1880.0	23.10	17.08			23.10	17.08		
			810	1909.8	22.91	16.89			22.91	16.89		

Note(s):

Based on the Tune-up Procedure, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

GSM1900 Measured Results (ANT3)

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Tune-up Limit		Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	1	512	1850.2	30.32	21.29	31.00	21.97	29.29	20.26	30.00	20.97
			661	1880.0	30.30	21.27			29.40	20.37		
			810	1909.8	30.97	21.94			29.42	20.39		
		2	512	1850.2	29.01	22.99	30.00	23.98	26.50	20.48	27.00	20.98
			661	1880.0	29.30	23.28			26.50	20.48		
			810	1909.8	29.20	23.18			26.50	20.48		
EDGE (8PSK)	MCS5	1	512	1850.2	25.39	16.36	26.00	16.97	25.95	16.92	26.00	16.97
			661	1880.0	25.34	16.31			25.27	16.24		
			810	1909.8	25.01	15.98			25.10	16.07		
		2	512	1850.2	24.00	17.98	25.00	18.98	24.25	18.23	25.00	18.98
			661	1880.0	24.13	18.11			24.55	18.53		
			810	1909.8	24.71	18.69			25.00	18.98		

Note(s):

Based on the Tune-up Procedure, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

GSM1900 Measured Results (ANT4)

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Tune-up Limit		Measured		Tune-up Limit	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	1	512	1850.2	27.66	18.63	28.25	19.22	28.17	19.14	29.00	19.97
			661	1880.0	28.00	18.97			28.31	19.28		
			810	1909.8	27.73	18.70			28.25	19.22		
		2	512	1850.2	25.00	18.98	25.25	19.23	26.10	20.08	26.50	20.48
			661	1880.0	25.00	18.98			26.25	20.23		
			810	1909.8	24.90	18.88			26.25	20.23		
EDGE (8PSK)	MCS5	1	512	1850.2	23.77	14.74	24.00	14.97	23.77	14.74	24.00	14.97
			661	1880.0	23.95	14.92			23.95	14.92		
			810	1909.8	23.69	14.66			23.69	14.66		
		2	512	1850.2	22.68	16.66	23.00	16.98	22.68	16.66	23.00	16.98
			661	1880.0	22.86	16.84			22.86	16.84		
			810	1909.8	22.43	16.41			22.43	16.41		

Note(s):

Based on the Tune-up Procedure, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

9.2. W-CDMA

Per KDB 941225 D01 3G SAR Procedures for W-CDMA:

Maximum output power is verified on the high, middle and low channels and using the appropriate 12.2 kbps RMC with TPC (transmit power control) set to all "1's"

Release 99 Setup Procedures used to establish the test signals

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1. A summary of these settings are illustrated below:

Mode	Subtest	Rel99
WCDMA General Settings	Loopback Mode	Test Mode 2
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	β_c/β_d	8/15

HSDPA Setup Procedures used to establish the test signals

The following 4 Sub-tests were completed according to Release 5 procedures in table C.10.1.4 of 3GPP TS 34.121-1. A summary of these settings are illustrated below:

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (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: Δ_{ACK} , Δ_{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, Δ_{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 β_c/β_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 $\beta_d = 15/15$.

HSUPA Setup Procedures used to establish the test signals

The following 5 Sub-tests were completed according to Release 6 procedures in table C.11.1.3 of 3GPP TS 34.121-1. A summary of these settings are illustrated below:

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{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	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	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, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{HS} = 5/15 * \beta_c$.

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

Note 3: For subtest 1 the β_c/β_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: β_{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.

DC-HSDPA Setup Procedures used to establish the test signals

The following 4 Sub-tests for DC-HSDPA were completed according to Release 8 procedures in table C08.1.12 of 3GPP TS 34.121-1. A summary of subtest settings are illustrated below:

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.		

HSPA+ Setup Procedures used to establish the test signals

The following 1 Sub-test was completed according to Release 7 procedures in table C.11.1.4 of 3GPP TS34.121. A summary of these settings are illustrated below:

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_c (Note 3)	β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β_{ed1} : 30/15 β_{ed2} : 30/15	β_{ed3} : 24/15 β_{ed4} : 24/15	3.5	2.5	14	105	105
Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0). Note 3: CM is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default. Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value. Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.											

Maximum Output Power (Tune-up Limit) for W-CDMA

SAR measurement is not required for the HSDPA, HSUPA, DC-HSDPA and HSPA+. When primary mode and the adjusted SAR is ≤ 1.2 W/kg and secondary mode is $\leq 1/4$ dB higher than the primary mode

RF Air interface	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
W-CDMA Band 2	R99	25.70	21.00	20.50	20.50	24.70	21.00	19.25	20.00
	HSDPA	25.70	21.00	20.50	20.50	24.70	21.00	19.25	20.00
	HSUPA	25.70	21.00	20.50	20.50	24.70	21.00	19.25	20.00
	DC-HSDPA	25.70	21.00	20.50	20.50	24.70	21.00	19.25	20.00
	HSPA+	25.70	21.00	20.50	20.50	24.70	21.00	19.25	20.00
W-CDMA Band 4	R99	25.70	19.25	21.50	21.00	24.70	21.25	21.00	21.50
	HSDPA	25.70	19.25	21.50	21.00	24.70	21.25	21.00	21.50
	HSUPA	25.70	19.25	21.50	21.00	24.70	21.25	21.00	21.50
	DC-HSDPA	25.70	19.25	21.50	21.00	24.70	21.25	21.00	21.50
	HSPA+	25.70	19.25	21.50	21.00	24.70	21.25	21.00	21.50
W-CDMA Band 5	R99	25.70	25.70	23.90	23.90				
	HSDPA	25.70	25.70	23.90	23.90				
	HSUPA	25.70	25.70	23.90	23.90				
	DC-HSDPA	25.70	25.70	23.90	23.90				
	HSPA+	25.70	25.70	23.90	23.90				

W-CDMA Band 2 Measured Results (ANT1)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A {dBm}			Power Mode B {dBm}		
				Measured Pw r	MPR	Tune-up Limit	Measured Pw r	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	25.12	N/A	25.70	20.60	N/A	21.00
		9400	1880.0	25.20			20.60		
		9538	1907.6	25.06			20.50		
HSDPA	Subtest 1	9262	1852.4	25.15	0.00	25.70	20.60	0.00	21.00
		9400	1880.0	25.02			20.51		
		9538	1907.6	25.04			20.53		
	Subtest 2	9262	1852.4	25.14	0.00	25.70	20.40	0.00	21.00
		9400	1880.0	25.00			20.51		
		9538	1907.6	25.06			20.54		
	Subtest 3	9262	1852.4	24.63	0.50	25.20	20.11	0.50	20.50
		9400	1880.0	24.51			20.00		
		9538	1907.6	24.55			20.02		
	Subtest 4	9262	1852.4	24.61	0.50	25.20	20.13	0.50	20.50
		9400	1880.0	24.50			20.00		
		9538	1907.6	24.54			20.05		
HSUPA	Subtest 1	9262	1852.4	25.13	0.00	25.70	20.59	0.00	21.00
		9400	1880.0	25.05			20.50		
		9538	1907.6	25.05			20.52		
	Subtest 2	9262	1852.4	23.12	2.00	23.70	18.58	2.00	19.00
		9400	1880.0	23.06			18.55		
		9538	1907.6	23.08			18.54		
	Subtest 3	9262	1852.4	24.09	1.00	24.70	19.58	1.00	20.00
		9400	1880.0	24.03			19.52		
		9538	1907.6	24.05			19.52		
	Subtest 4	9262	1852.4	23.13	2.00	23.70	18.61	2.00	19.00
		9400	1880.0	23.04			18.55		
		9538	1907.6	23.05			18.54		
	Subtest 5	9262	1852.4	24.79	0.00	25.70	20.18	0.00	21.00
		9400	1880.0	24.70			20.09		
		9538	1907.6	24.71			20.13		
DC-HSDPA	Subtest 1	9262	1852.4	24.93	0.00	25.70	20.40	0.00	21.00
		9400	1880.0	24.81			20.50		
		9538	1907.6	24.84			20.40		
	Subtest 2	9262	1852.4	24.91	0.00	25.70	20.40	0.00	21.00
		9400	1880.0	24.81			20.50		
		9538	1907.6	24.83			20.40		
	Subtest 3	9262	1852.4	24.41	0.50	25.20	20.31	0.50	20.50
		9400	1880.0	24.31			20.21		
		9538	1907.6	24.32			20.23		
	Subtest 4	9262	1852.4	24.38	0.50	25.20	20.33	0.50	20.50
		9400	1880.0	24.30			20.22		
		9538	1907.6	24.33			20.24		
HSPA+	Subtest 1	9262	1852.4	23.20	2.50	23.20	18.50	2.50	18.50
		9400	1880.0	23.20			18.50		
		9538	1907.6	23.20			18.50		

W-CDMA Band 2 Measured Results (ANT2)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	20.25	N/A	20.50	20.25	N/A	20.50
		9400	1880.0	20.25			20.25		
		9538	1907.6	20.25			20.25		
HSDPA	Subtest 1	9262	1852.4	20.16	0.00	20.50	20.16	0.00	20.50
		9400	1880.0	20.05			20.05		
		9538	1907.6	20.03			20.03		
	Subtest 2	9262	1852.4	20.20	0.00	20.50	20.20	0.00	20.50
		9400	1880.0	19.98			19.98		
		9538	1907.6	19.91			19.91		
	Subtest 3	9262	1852.4	19.63	0.50	20.00	19.63	0.50	20.00
		9400	1880.0	19.48			19.48		
		9538	1907.6	19.50			19.50		
	Subtest 4	9262	1852.4	19.69	0.50	20.00	19.69	0.50	20.00
		9400	1880.0	19.51			19.51		
		9538	1907.6	19.43			19.43		
HSUPA	Subtest 1	9262	1852.4	20.11	0.00	20.50	20.11	0.00	20.50
		9400	1880.0	20.00			20.00		
		9538	1907.6	19.97			19.97		
	Subtest 2	9262	1852.4	18.11	2.00	18.50	18.11	2.00	18.50
		9400	1880.0	18.04			18.04		
		9538	1907.6	17.96			17.96		
	Subtest 3	9262	1852.4	19.10	1.00	19.50	19.10	1.00	19.50
		9400	1880.0	19.05			19.05		
		9538	1907.6	19.01			19.01		
	Subtest 4	9262	1852.4	18.11	2.00	18.50	18.11	2.00	18.50
		9400	1880.0	18.07			18.07		
		9538	1907.6	18.00			18.00		
	Subtest 5	9262	1852.4	19.72	0.00	20.50	19.72	0.00	20.50
		9400	1880.0	19.57			19.57		
		9538	1907.6	19.58			19.58		
DC-HSDPA	Subtest 1	9262	1852.4	20.14	0.00	20.50	20.14	0.00	20.50
		9400	1880.0	20.05			20.05		
		9538	1907.6	19.99			19.99		
	Subtest 2	9262	1852.4	20.11	0.00	20.50	20.11	0.00	20.50
		9400	1880.0	19.93			19.93		
		9538	1907.6	19.91			19.91		
	Subtest 3	9262	1852.4	19.62	0.50	20.00	19.62	0.50	20.00
		9400	1880.0	19.46			19.46		
		9538	1907.6	19.44			19.44		
	Subtest 4	9262	1852.4	19.60	0.50	20.00	19.60	0.50	20.00
		9400	1880.0	19.44			19.44		
		9538	1907.6	19.46			19.46		
HSPA+	Subtest 1	9262	1852.4	17.75	2.50	18.00	17.75	2.50	18.00
		9400	1880.0	17.75			17.75		
		9538	1907.6	17.75			17.75		

W-CDMA Band 2 Measured Results (ANT3)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	24.67	N/A	24.70	20.50	N/A	21.00
		9400	1880.0	24.70			20.50		
		9538	1907.6	24.63			20.50		
HSDPA	Subtest 1	9262	1852.4	24.53	0.0	24.70	20.24	0.0	21.00
		9400	1880.0	24.44			20.15		
		9538	1907.6	24.60			20.20		
	Subtest 2	9262	1852.4	24.59	0.0	24.70	20.17	0.0	21.00
		9400	1880.0	24.52			20.16		
		9538	1907.6	24.60			20.25		
	Subtest 3	9262	1852.4	24.09	0.5	24.20	19.71	0.5	20.50
		9400	1880.0	23.96			19.58		
		9538	1907.6	24.08			19.75		
	Subtest 4	9262	1852.4	24.06	0.5	24.20	19.68	0.5	20.50
		9400	1880.0	23.94			19.63		
		9538	1907.6	24.02			19.73		
HSUPA	Subtest 1	9262	1852.4	24.57	0.0	24.70	20.17	0.0	21.00
		9400	1880.0	24.56			20.15		
		9538	1907.6	24.57			20.20		
	Subtest 2	9262	1852.4	22.57	2.0	22.70	18.20	2.0	19.00
		9400	1880.0	22.54			18.19		
		9538	1907.6	22.63			18.25		
	Subtest 3	9262	1852.4	23.58	1.0	23.70	19.19	1.0	20.00
		9400	1880.0	23.57			19.15		
		9538	1907.6	23.62			19.25		
	Subtest 4	9262	1852.4	22.56	2.0	22.70	18.24	2.0	19.00
		9400	1880.0	22.48			18.19		
		9538	1907.6	22.57			18.25		
	Subtest 5	9262	1852.4	24.17	0.0	24.70	20.00	0.0	21.00
		9400	1880.0	24.08			20.00		
		9538	1907.6	24.16			20.00		
DC-HSDPA	Subtest 1	9262	1852.4	24.10	0.0	24.70	20.09	0.0	21.00
		9400	1880.0	23.98			20.00		
		9538	1907.6	24.07			20.08		
	Subtest 2	9262	1852.4	24.06	0.0	24.70	20.08	0.0	21.00
		9400	1880.0	23.97			20.00		
		9538	1907.6	24.05			20.01		
	Subtest 3	9262	1852.4	23.57	0.5	24.20	19.50	0.5	20.50
		9400	1880.0	23.47			19.50		
		9538	1907.6	23.59			19.58		
	Subtest 4	9262	1852.4	23.60	0.5	24.20	19.54	0.5	20.50
		9400	1880.0	23.50			19.50		
		9538	1907.6	23.54			19.50		
HSPA+	Subtest 1	9262	1852.4	21.30	2.5	22.20	17.50	2.5	18.50
		9400	1880.0	21.30			17.50		
		9538	1907.6	21.30			17.50		

W-CDMA Band 2 Measured Results (ANT4)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	19.25	N/A	19.25	19.73	N/A	20.00
		9400	1880.0	19.25			19.75		
		9538	1907.6	19.25			19.70		
HSDPA	Subtest 1	9262	1852.4	19.04	0.00	19.25	19.75	0.00	20.00
		9400	1880.0	18.93			19.61		
		9538	1907.6	18.88			19.47		
	Subtest 2	9262	1852.4	19.07	0.00	19.25	19.72	0.00	20.00
		9400	1880.0	18.99			19.63		
		9538	1907.6	18.85			19.50		
	Subtest 3	9262	1852.4	18.57	0.50	18.75	19.22	0.50	19.50
		9400	1880.0	18.42			19.08		
		9538	1907.6	18.29			18.99		
	Subtest 4	9262	1852.4	18.51	0.50	18.75	19.23	0.50	19.50
		9400	1880.0	18.44			19.08		
		9538	1907.6	18.37			18.98		
HSUPA	Subtest 1	9262	1852.4	19.05	0.00	19.25	19.73	0.00	20.00
		9400	1880.0	19.02			19.62		
		9538	1907.6	18.83			19.50		
	Subtest 2	9262	1852.4	17.00	2.00	17.25	17.74	2.00	18.00
		9400	1880.0	16.98			17.63		
		9538	1907.6	16.90			17.53		
	Subtest 3	9262	1852.4	18.07	1.00	18.25	18.74	1.00	19.00
		9400	1880.0	18.02			18.66		
		9538	1907.6	17.86			18.53		
	Subtest 4	9262	1852.4	17.03	2.00	17.25	17.75	2.00	18.00
		9400	1880.0	16.97			17.65		
		9538	1907.6	16.91			17.50		
	Subtest 5	9262	1852.4	18.63	0.00	19.25	19.29	0.00	20.00
		9400	1880.0	18.55			19.22		
		9538	1907.6	18.42			19.09		
DC-HSDPA	Subtest 1	9262	1852.4	19.12	0.00	19.25	19.34	0.00	20.00
		9400	1880.0	19.04			19.21		
		9538	1907.6	18.90			19.09		
	Subtest 2	9262	1852.4	19.08	0.00	19.25	19.75	0.00	20.00
		9400	1880.0	18.98			19.66		
		9538	1907.6	18.88			19.48		
	Subtest 3	9262	1852.4	18.59	0.50	18.75	19.23	0.50	19.50
		9400	1880.0	18.42			19.12		
		9538	1907.6	18.35			18.99		
	Subtest 4	9262	1852.4	18.56	0.50	18.75	19.23	0.50	19.50
		9400	1880.0	18.47			19.14		
		9538	1907.6	18.40			18.97		
HSPA+	Subtest 1	9262	1852.4	16.07	2.50	16.75	18.73	2.50	17.50
		9400	1880.0	15.95			18.62		
		9538	1907.6	15.86			18.76		

W-CDMA Band 4 Measured Results (ANT1)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A {dBm}			Power Mode B {dBm}		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	24.91	N/A	25.70	19.09	N/A	19.25
		1413	1732.6	25.50			19.10		
		1513	1752.6	24.80			19.00		
HSDPA	Subtest 1	1312	1712.4	25.42	0.00	25.70	18.67	0.00	19.25
		1413	1732.6	25.27			18.58		
		1513	1752.6	25.20			18.52		
	Subtest 2	1312	1712.4	25.36	0.00	25.70	18.64	0.00	19.25
		1413	1732.6	25.26			18.56		
		1513	1752.6	25.21			18.54		
	Subtest 3	1312	1712.4	24.89	0.50	25.20	18.05	0.50	18.75
		1413	1732.6	24.76			17.99		
		1513	1752.6	24.72			17.99		
	Subtest 4	1312	1712.4	24.84	0.50	25.20	18.06	0.50	18.75
		1413	1732.6	24.76			18.00		
		1513	1752.6	24.71			18.01		
HSUPA	Subtest 1	1312	1712.4	25.35	0.00	25.70	18.51	0.00	19.25
		1413	1732.6	25.27			18.46		
		1513	1752.6	25.20			18.42		
	Subtest 2	1312	1712.4	23.37	2.00	23.70	16.51	2.00	17.25
		1413	1732.6	23.27			16.49		
		1513	1752.6	23.24			16.43		
	Subtest 3	1312	1712.4	24.32	1.00	24.70	17.62	1.00	18.25
		1413	1732.6	24.26			17.46		
		1513	1752.6	24.21			17.47		
	Subtest 4	1312	1712.4	23.38	2.00	23.70	16.59	2.00	17.25
		1413	1732.6	23.27			16.44		
		1513	1752.6	23.22			16.47		
	Subtest 5	1312	1712.4	24.88	0.00	25.70	18.62	0.00	19.25
		1413	1732.6	24.83			18.68		
		1513	1752.6	24.78			18.98		
DC-HSDPA	Subtest 1	1312	1712.4	25.48	0.00	25.70	18.84	0.00	19.25
		1413	1732.6	25.35			18.57		
		1513	1752.6	25.29			18.64		
	Subtest 2	1312	1712.4	25.36	0.00	25.70	19.05	0.00	19.25
		1413	1732.6	25.31			19.04		
		1513	1752.6	25.26			19.10		
	Subtest 3	1312	1712.4	24.73	0.50	25.20	18.75	0.50	18.75
		1413	1732.6	24.82			18.69		
		1513	1752.6	24.77			18.68		
	Subtest 4	1312	1712.4	24.84	0.50	25.20	18.72	0.50	18.75
		1413	1732.6	24.78			18.65		
		1513	1752.6	24.69			18.65		
HSPA+	Subtest 1	1312	1712.4	23.20	2.50	23.20	16.75	2.50	16.75
		1413	1732.6	23.20			16.75		
		1513	1752.6	23.20			16.75		

W-CDMA Band 4 Measured Results (ANT2)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	21.47	N/A	21.50	20.10	N/A	21.00
		1413	1732.6	21.43			20.00		
		1513	1752.6	21.38			20.10		
HSDPA	Subtest 1	1312	1712.4	21.37	0.00	21.50	20.00	0.00	21.00
		1413	1732.6	21.32			20.00		
		1513	1752.6	21.30			20.00		
	Subtest 2	1312	1712.4	21.37	0.00	21.50	20.00	0.00	21.00
		1413	1732.6	21.32			20.00		
		1513	1752.6	21.28			20.00		
	Subtest 3	1312	1712.4	20.85	0.50	21.00	19.79	0.50	20.50
		1413	1732.6	20.84			19.77		
		1513	1752.6	20.76			19.70		
	Subtest 4	1312	1712.4	20.79	0.50	21.00	19.80	0.50	20.50
		1413	1732.6	20.83			19.74		
		1513	1752.6	20.76			19.76		
HSUPA	Subtest 1	1312	1712.4	21.33	0.00	21.50	20.00	0.00	21.00
		1413	1732.6	21.30			20.00		
		1513	1752.6	21.25			20.00		
	Subtest 2	1312	1712.4	19.34	2.00	19.50	18.34	2.00	19.00
		1413	1732.6	19.31			18.28		
		1513	1752.6	19.28			18.26		
	Subtest 3	1312	1712.4	20.34	1.00	20.50	19.32	1.00	20.00
		1413	1732.6	20.32			19.24		
		1513	1752.6	20.25			19.21		
	Subtest 4	1312	1712.4	19.33	2.00	19.50	18.25	2.00	19.00
		1413	1732.6	19.32			18.20		
		1513	1752.6	19.26			18.26		
	Subtest 5	1312	1712.4	20.91	0.00	21.50	20.00	0.00	21.00
		1413	1732.6	20.85			20.00		
		1513	1752.6	20.80			20.00		
DC-HSDPA	Subtest 1	1312	1712.4	21.34	0.00	21.50	20.00	0.00	21.00
		1413	1732.6	21.30			20.00		
		1513	1752.6	21.25			20.00		
	Subtest 2	1312	1712.4	21.36	0.00	21.50	20.00	0.00	21.00
		1413	1732.6	21.33			20.00		
		1513	1752.6	21.27			20.00		
	Subtest 3	1312	1712.4	20.86	0.50	21.00	19.80	0.50	20.50
		1413	1732.6	20.81			19.90		
		1513	1752.6	20.75			19.80		
	Subtest 4	1312	1712.4	20.87	0.50	21.00	19.70	0.50	20.50
		1413	1732.6	20.83			19.90		
		1513	1752.6	20.77			19.80		
HSPA+	Subtest 1	1312	1712.4	19.00	2.50	19.00	18.50	2.50	18.50
		1413	1732.6	19.00			18.50		
		1513	1752.6	19.00			18.50		

W-CDMA Band 4 Measured Results (ANT3)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B [dBm]		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	24.24	N/A	24.70	20.80	N/A	21.25
		1413	1732.6	24.30			20.90		
		1513	1752.6	24.11			20.80		
HSDPA	Subtest 1	1312	1712.4	24.09	0.0	24.70	20.72	0	21.25
		1413	1732.6	24.06			20.73		
		1513	1752.6	24.09			20.70		
	Subtest 2	1312	1712.4	24.09	0.0	24.70	20.70	0	21.25
		1413	1732.6	24.06			20.70		
		1513	1752.6	24.08			20.60		
	Subtest 3	1312	1712.4	23.60	0.5	24.20	20.25	0.5	20.75
		1413	1732.6	23.53			20.24		
		1513	1752.6	23.59			20.28		
	Subtest 4	1312	1712.4	23.56	0.5	24.20	20.30	0.5	20.75
		1413	1732.6	23.54			20.20		
		1513	1752.6	23.62			20.26		
HSUPA	Subtest 1	1312	1712.4	24.08	0.0	24.70	20.76	0	21.25
		1413	1732.6	24.05			20.72		
		1513	1752.6	24.09			20.72		
	Subtest 2	1312	1712.4	22.04	2.0	22.70	18.80	2	19.25
		1413	1732.6	22.10			18.73		
		1513	1752.6	22.00			18.71		
	Subtest 3	1312	1712.4	23.08	1.0	23.70	19.78	1	20.25
		1413	1732.6	23.01			19.68		
		1513	1752.6	23.06			19.73		
	Subtest 4	1312	1712.4	22.06	2.0	22.70	18.83	2	19.25
		1413	1732.6	22.02			18.69		
		1513	1752.6	22.00			18.68		
	Subtest 5	1312	1712.4	23.70	0.0	24.70	20.28	0	21.25
		1413	1732.6	23.73			20.32		
		1513	1752.6	23.75			20.33		
DC-HSDPA	Subtest 1	1312	1712.4	24.17	0.0	24.70	20.82	0	21.25
		1413	1732.6	24.16			20.71		
		1513	1752.6	24.13			20.72		
	Subtest 2	1312	1712.4	24.19	0.0	24.70	20.76	0	21.25
		1413	1732.6	24.16			20.71		
		1513	1752.6	24.20			20.79		
	Subtest 3	1312	1712.4	23.70	0.5	24.20	20.31	0.5	20.75
		1413	1732.6	23.68			20.27		
		1513	1752.6	23.69			20.27		
	Subtest 4	1312	1712.4	23.68	0.5	24.20	20.31	0.5	20.75
		1413	1732.6	23.62			20.30		
		1513	1752.6	23.70			20.20		
HSPA+	Subtest 1	1312	1712.4	21.80	2.5	22.20	18.55	2.5	18.75
		1413	1732.6	21.80			18.62		
		1513	1752.6	21.90			18.63		

W-CDMA Band 4 Measured Results (ANT4)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	20.75	N/A	21.00	20.75	N/A	21.50
		1413	1732.6	20.75			20.75		
		1513	1752.6	20.75			20.75		
HSDPA	Subtest 1	1312	1712.4	20.43	0.00	21.00	20.64	0.00	21.50
		1413	1732.6	20.29			20.54		
		1513	1752.6	20.06			20.50		
	Subtest 2	1312	1712.4	20.08	0.00	21.00	20.56	0.00	21.50
		1413	1732.6	20.40			20.52		
		1513	1752.6	20.24			20.51		
	Subtest 3	1312	1712.4	19.81	0.50	20.50	20.09	0.50	21.00
		1413	1732.6	19.67			20.03		
		1513	1752.6	19.50			20.00		
	Subtest 4	1312	1712.4	19.59	0.50	20.50	20.07	0.50	21.00
		1413	1732.6	19.77			20.07		
		1513	1752.6	19.68			20.01		
HSUPA	Subtest 1	1312	1712.4	20.25	0.00	21.00	20.62	0.00	21.50
		1413	1732.6	20.30			20.58		
		1513	1752.6	20.08			20.50		
	Subtest 2	1312	1712.4	18.33	2.00	19.00	18.62	2.00	19.50
		1413	1732.6	18.31			18.54		
		1513	1752.6	18.32			18.55		
	Subtest 3	1312	1712.4	19.23	1.00	20.00	19.64	1.00	20.50
		1413	1732.6	19.04			19.53		
		1513	1752.6	19.00			19.50		
	Subtest 4	1312	1712.4	18.41	2.00	19.00	18.57	2.00	19.50
		1413	1732.6	18.36			18.57		
		1513	1752.6	18.28			18.53		
	Subtest 5	1312	1712.4	20.33	0.00	21.00	20.75	0.00	21.50
		1413	1732.6	20.04			20.75		
		1513	1752.6	20.04			20.60		
DC-HSDPA	Subtest 1	1312	1712.4	20.75	0.00	21.00	20.70	0.00	21.50
		1413	1732.6	20.69			20.60		
		1513	1752.6	20.66			20.50		
	Subtest 2	1312	1712.4	20.75	0.00	21.00	20.70	0.00	21.50
		1413	1732.6	20.71			20.68		
		1513	1752.6	20.66			20.63		
	Subtest 3	1312	1712.4	20.28	0.50	20.50	20.55	0.50	21.00
		1413	1732.6	20.21			20.48		
		1513	1752.6	20.15			20.42		
	Subtest 4	1312	1712.4	20.19	0.50	20.50	20.46	0.50	21.00
		1413	1732.6	20.20			20.47		
		1513	1752.6	20.12			20.39		
HSPA+	Subtest 1	1312	1712.4	17.99	2.50	18.50	18.50	2.50	19.00
		1413	1732.6	17.97			18.48		
		1513	1752.6	17.90			18.48		

W-CDMA Band 5 Measured Results (ANT1)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A {dBm}			Power Mode B {dBm}		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	4132	826.4	25.00	N/A	25.70	25.00	N/A	25.70
		4183	836.6	25.10			25.10		
		4233	846.6	25.10			25.10		
HSDPA	Subtest 1	4132	826.4	24.85	0.00	25.70	24.85	0.00	25.70
		4183	836.6	24.87			24.87		
		4233	846.6	24.86			24.86		
	Subtest 2	4132	826.4	24.87	0.00	25.70	24.87	0.00	25.70
		4183	836.6	24.83			24.83		
		4233	846.6	24.84			24.84		
	Subtest 3	4132	826.4	24.40	0.50	25.20	24.40	0.50	25.20
		4183	836.6	24.31			24.31		
		4233	846.6	24.29			24.29		
	Subtest 4	4132	826.4	24.31	0.50	25.20	24.31	0.50	25.20
		4183	836.6	24.35			24.35		
		4233	846.6	24.38			24.38		
HSUPA	Subtest 1	4132	826.4	24.87	0.00	25.70	24.87	0.00	25.70
		4183	836.6	24.79			24.79		
		4233	846.6	24.77			24.77		
	Subtest 2	4132	826.4	22.85	2.00	23.70	22.85	2.00	23.70
		4183	836.6	22.82			22.82		
		4233	846.6	22.85			22.85		
	Subtest 3	4132	826.4	23.88	1.00	24.70	23.88	1.00	24.70
		4183	836.6	23.90			23.90		
		4233	846.6	23.86			23.86		
	Subtest 4	4132	826.4	22.89	2.00	23.70	22.89	2.00	23.70
		4183	836.6	22.89			22.89		
		4233	846.6	22.81			22.81		
	Subtest 5	4132	826.4	24.84	0.00	25.70	24.84	0.00	25.70
		4183	836.6	24.79			24.79		
		4233	846.6	24.78			24.78		
DC-HSDPA	Subtest 1	4132	826.4	24.97	0.00	25.70	24.97	0.00	25.70
		4183	836.6	24.95			24.95		
		4233	846.6	24.88			24.88		
	Subtest 2	4132	826.4	24.99	0.00	25.70	24.99	0.00	25.70
		4183	836.6	25.00			25.00		
		4233	846.6	24.91			24.91		
	Subtest 3	4132	826.4	24.43	0.50	25.20	24.43	0.50	25.20
		4183	836.6	24.49			24.49		
		4233	846.6	24.43			24.43		
	Subtest 4	4132	826.4	24.48	0.50	25.20	24.48	0.50	25.20
		4183	836.6	24.49			24.49		
		4233	846.6	24.43			24.43		
HSPA+	Subtest 1	4132	826.4	23.20	2.50	23.20	23.20	2.50	23.20
		4183	836.6	23.20			23.20		
		4233	846.6	23.20			23.20		

W-CDMA Band 5 Measured Results (ANT2)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	4132	826.4	23.27	N/A	23.90	23.27	N/A	23.90
		4183	836.6	23.30			23.30		
		4233	846.6	23.22			23.22		
HSDPA	Subtest 1	4132	826.4	23.27	0.00	23.90	23.27	0.00	23.90
		4183	836.6	23.22			23.22		
		4233	846.6	23.24			23.24		
	Subtest 2	4132	826.4	23.22	0.00	23.90	23.22	0.00	23.90
		4183	836.6	23.21			23.21		
		4233	846.6	23.22			23.22		
	Subtest 3	4132	826.4	22.75	0.50	23.40	22.75	0.50	23.40
		4183	836.6	22.68			22.68		
		4233	846.6	22.71			22.71		
	Subtest 4	4132	826.4	22.71	0.50	23.40	22.71	0.50	23.40
		4183	836.6	22.69			22.69		
		4233	846.6	22.71			22.71		
HSUPA	Subtest 1	4132	826.4	23.26	0.00	23.90	23.26	0.00	23.90
		4183	836.6	23.16			23.16		
		4233	846.6	23.18			23.18		
	Subtest 2	4132	826.4	21.29	2.00	21.90	21.29	2.00	21.90
		4183	836.6	21.24			21.24		
		4233	846.6	21.16			21.16		
	Subtest 3	4132	826.4	22.22	1.00	22.90	22.22	1.00	22.90
		4183	836.6	22.21			22.21		
		4233	846.6	22.18			22.18		
	Subtest 4	4132	826.4	21.23	2.00	21.90	21.23	2.00	21.90
		4183	836.6	21.19			21.19		
		4233	846.6	21.20			21.20		
	Subtest 5	4132	826.4	23.17	0.00	23.90	23.17	0.00	23.90
		4183	836.6	23.25			23.25		
		4233	846.6	23.20			23.20		
DC-HSDPA	Subtest 1	4132	826.4	23.17	0.00	23.90	23.17	0.00	23.90
		4183	836.6	23.12			23.12		
		4233	846.6	23.15			23.15		
	Subtest 2	4132	826.4	23.15	0.00	23.90	23.15	0.00	23.90
		4183	836.6	23.13			23.13		
		4233	846.6	23.15			23.15		
	Subtest 3	4132	826.4	22.68	0.50	23.40	22.68	0.50	23.40
		4183	836.6	22.64			22.64		
		4233	846.6	22.66			22.66		
	Subtest 4	4132	826.4	22.56	0.50	23.40	22.56	0.50	23.40
		4183	836.6	22.52			22.52		
		4233	846.6	22.52			22.52		
HSPA+	Subtest 1	4132	826.4	21.40	2.50	21.40	21.40	2.50	21.40
		4183	836.6	21.40			21.40		
		4233	846.6	21.40			21.40		

9.3. CDMA

1x Advanced Setup Procedures used to establish the test signals

Call box setup procedure

- Protocol Rev > 6 (IS-2000-0)
- System ID: 331; NID: 65535, Reg. Ch. #.:
- Radio Config (RC) > Fwd11,Rvs8
- Service Option (SO) Setup > SO75 (Loopback)
- Traffic Data Rate > Full
- Rvs Power Ctrl > All Up bits (Maximum TxPout)
- Reverse Power Control Mode: 00-200 to 400 bps
- Smart blanking was disabled.

1xEV-DO Rev. B Setup Procedures used to establish the test signals

Call box setup procedure

- CMW 500 Signal Generator > 1xEV-DO Taskbar Enable
- CMW 500 1xEV-DO Signaling Configuration Window >
- 1xEV-DO Signaling On Window:
Under Access Network Control:
Band Class: BC0: US Cellular
RF Channel: 31
1xEV-DO Power: -70 dBm
Release B
- 1xEV-DO Signaling Configuration Window

Under RF Frequency Band / Channel: Enter Ch. Frequency
➤ Under Carrier Configuration: RF Frequency
For Two Carriers: Low Channel (1013)

	<u>RF Channel</u>	<u>RF Channel Offset</u>
Carrier [0]	31	0
Carrier [1]	1013	982

	<u>Carrier Sector</u>	<u>Active on AN</u>	<u>Assigned to AT</u>
Pilot [0]	C0/S0	✓	✓
	CA/S1	✓	✓

For Three Carriers: Low Channel (1013)

	<u>RF Channel</u>	<u>RF Channel Offset</u>
Carrier [0]	72	0
Carrier [1]	31	-41
Carrier [2]	1013	941

	<u>Carrier Sector</u>	<u>Active on AN</u>	<u>Assigned to AT</u>
Pilot [0]	C0/S0	✓	✓
Pilot [1]	C1/S1	✓	✓
Pilot [2]	C2/S2	✓	✓

- Rvs Power Ctrl > All Up bits (to get the maximum power)

Maximum Output Power (Tune-up Limit) for CDMA

SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55. The 3G SAR test reduction procedure is applied to RC1 with RC3 as the primary mode

Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 D01 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCHn), with FCH only as the primary mode.

When VOIP is supported by Ev-Do devices for next to the ear use, head exposure SAR is required.

SAR measurement is not required for the 1xEVDO Rev. A, Rev. B and 1x-Advanced. When primary mode and the adjusted SAR is ≤ 1.2 W/kg and secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode

RF Air interface	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
CDMA BC0	1xRTT	25.70	25.70	23.90	23.90				
	1xAdvanced	25.70	25.70	23.90	23.90				
	1xEVDO Rel. 0	25.70	25.70	23.90	23.90				
	1xEVDO Rev. A	25.70	25.70	23.90	23.90				
CDMA BC1	1xRTT	25.70	21.00	20.50	20.50				
	1xAdvanced	25.70	21.00	20.50	20.50				
	1xEVDO Rel. 0	25.70	21.00	20.50	20.50				
	1xEVDO Rev. A	25.70	21.00	20.50	20.50				
CDMA BC10	1xRTT	25.70	25.70	23.90	23.90				
	1xAdvanced	25.70	25.70	23.90	23.90				
	1xEVDO Rel. 0	25.70	25.70	23.90	23.90				
	1xEVDO Rev. A	25.70	25.70	23.90	23.90				

CDMA BC0, BC1, and BC10 are not supported on ANT3 and ANT4

CDMA BC0 Measured Results (ANT1)

Mode		Channel	Freq. (MHz)	Power Mode A {dBm}		Power Mode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	1013	824.70	25.49	25.70	25.49	25.70
		384	836.52	25.50		25.50	
		777	848.31	25.44		25.44	
	RC3, SO55 (Loopback)	1013	824.70	25.37		25.37	
		384	836.52	25.61		25.61	
		777	848.31	25.37		25.37	
	RC3, SO32 (+F-SCH)	1013	824.70	25.64		25.64	
		384	836.52	25.68		25.68	
		777	848.31	25.66		25.66	
1xAdvanced	Fw d11/Rvs8 SO75 (Loopback)	1013	824.70	25.40	25.70	25.40	25.70
		384	836.52	25.39		25.39	
		777	848.31	25.41		25.41	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	1013	824.70	25.57	25.70	25.57	25.70
		384	836.52	25.61		25.61	
		777	848.31	25.55		25.55	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	1013	824.70	25.30	25.70	25.30	25.70
		384	836.52	25.39		25.39	
		777	848.31	25.40		25.40	

CDMA BC0 Measured Results (ANT2)

Mode		Channel	Freq. (MHz)	Power Mode A (dBm)		Power Mode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	1013	824.70	23.13	23.90	23.13	23.90
		384	836.52	23.20		23.20	
		777	848.31	23.20		23.20	
	RC3, SO55 (Loopback)	1013	824.70	23.20		23.20	
		384	836.52	23.25		23.25	
		777	848.31	23.22		23.22	
	RC3, SO32 (+F-SCH)	1013	824.70	23.34		23.34	
		384	836.52	23.40		23.40	
		777	848.31	23.29		23.29	
1xAdvanced	Fw d11/Rvs8 SO75 (Loopback)	1013	824.70	23.13	23.90	23.13	23.90
		384	836.52	23.10		23.10	
		777	848.31	23.10		23.10	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	1013	824.70	23.19	23.90	23.19	23.90
		384	836.52	23.25		23.25	
		777	848.31	23.19		23.19	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	1013	824.70	23.00	23.90	23.00	23.90
		384	836.52	23.17		23.17	
		777	848.31	23.10		23.10	

CDMA BC1 Measured Results (ANT1)

Mode		Channel	Freq. (MHz)	Power Mode A {dBm}		Power Mode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	25	1851.25	25.22	25.70	20.51	21.00
		600	1880.00	25.50		20.91	
		1175	1908.75	25.50		20.55	
	RC3, SO55 (Loopback)	25	1851.25	25.20		20.66	
		600	1880.00	25.50		20.71	
		1175	1908.75	25.50		20.54	
	RC3, SO32 (+F-SCH)	25	1851.25	25.40		21.00	
		600	1880.00	25.50		21.00	
		1175	1908.75	25.46		21.00	
1xAdvanced	Fw d11/Rvs8 SO75 (Loopback)	25	1851.25	25.40	25.70	20.93	21.00
		600	1880	25.30		20.56	
		1175	1908.75	25.45		20.76	
1xEV-Do Rel. 0	307.2 kbps (2 slot, QPSK)	25	1851.25	25.40	25.70	20.72	21.00
		600	1880.00	25.50		20.62	
		1175	1908.75	25.40		20.70	
1xEV-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	25	1851.25	25.39	25.70	20.85	21.00
		600	1880	25.30		20.91	
		1175	1908.75	25.40		20.73	

CDMA BC1 Measured Results (ANT2)

Mode		Channel	Freq. (MHz)	Power Mode A (dBm)		Power Mode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	25	1851.25	20.00	20.50	20.00	20.50
		600	1880.00	20.15		20.15	
		1175	1908.75	20.38		20.38	
	RC3, SO55 (Loopback)	25	1851.25	20.50		20.50	
		600	1880.00	20.50		20.50	
		1175	1908.75	20.50		20.50	
	RC3, SO32 (+F-SCH)	25	1851.25	20.50		20.50	
		600	1880.00	20.50		20.50	
		1175	1908.75	20.50		20.50	
1xAdvanced	Fw d11/Rvs8 SO75 (Loopback)	25	1851.25	20.49	20.50	20.49	20.50
		600	1880	20.34		20.34	
		1175	1908.75	20.48		20.48	
1xEV-Do Rel. 0	307.2 kbps (2 slot, QPSK)	25	1851.25	20.50	20.50	20.50	20.50
		600	1880.00	20.50		20.50	
		1175	1908.75	20.50		20.50	
1xEV-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	25	1851.25	20.31	20.50	20.31	20.50
		600	1880	20.35		20.35	
		1175	1908.75	20.38		20.38	

CDMA BC10 Measured Results (ANT1)

Mode		Channel	Freq. (MHz)	Power Mode A {dBm}		Power Mode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	560	820.00	25.50	25.70	25.50	25.70
	RC3, SO55 (Loopback)	560	820.00	25.54		25.54	
	RC3, SO32 (+F-SCH)	560	820.00	25.56		25.56	
1xAdvanced	Fw d11/Rvs8 SO75 (Loopback)	560	820.00	25.43	25.70	25.43	25.70
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	560	820.00	25.54	25.70	25.54	25.70
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	560	820.00	25.35	25.70	25.35	25.70

CDMA BC10 Measured Results (ANT2)

Mode		Channel	Freq. (MHz)	Power Mode A (dBm)		Power Mode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	560	820.00	23.58	23.90	23.58	23.90
	RC3, SO55 (Loopback)	560	820.00	23.65		23.65	
	RC3, SO32 (+F-SCH)	560	820.00	23.65		23.65	
1xAdvanced	Fw d11/Rvs8 SO75 (Loopback)	560	820.00	23.35	23.90	23.35	23.90
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	560	820.00	23.65	23.90	23.65	23.90
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	560	820.00	23.55	23.90	23.55	23.90

9.4. LTE

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3

Modulation	Channel bandwidth / Transmission bandwidth (N_{RB})						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM	≥ 1						≤ 5

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (subclause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	N/A

Maximum Output Power (Tune-up Limit) for LTE

According to April 2015 TCB workshop, SAR test exclusion can be applied for testing overlapping LTE bands as follows:

- a) The maximum output power, including tolerance, for the smaller band must be $\leq$ the larger band to qualify for the SAR test exclusion.
- b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.
 - LTE Band 2 (1850-1910 MHz) is covered by LTE Band 25 (1850-1915 MHz)
 - LTE Band 4 (1710-1755 MHz) is covered by LTE Band 66 (1710-1780 MHz)
 - LTE Band 17 (704-716 MHz) is covered by LTE Band 12 (699-716 MHz)

Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.

LTE QPSK configuration has the highest maximum average output power per 3GPP standard.

SAR measurement is not required for the 16QAM and 64QAM. When the highest maximum output power for 16QAM and 64QAM is $\leq \frac{1}{2}$ dB higher than the QPSK or when the reported SAR for the QPSK configuration is ≤ 1.45 W/kg.

Please refer to section 6.3. for LTE detail test channels.

RF Air interface	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
LTE Band 2	QPSK	25.70	21.00	20.50	20.50	24.70	21.00	19.25	20.00
LTE Band 4	QPSK	25.70	19.25	21.50	21.00	24.70	21.25	21.00	21.50
LTE Band 5	QPSK	25.70	25.70	23.90	23.90				
LTE Band 7	QPSK	25.70	20.75	17.50	19.50	24.70	20.50	19.50	18.50
LTE Band 12	QPSK	25.70	25.70	23.90	23.90				
LTE Band 13	QPSK	25.70	25.70	23.90	23.90				
LTE Band 14	QPSK	25.70	25.70	23.90	23.90				
LTE Band 17	QPSK	25.70	25.70	23.90	23.90				
LTE Band 25	QPSK	25.70	21.00	20.50	20.50	24.70	21.00	19.25	20.00
LTE Band 26	QPSK	25.70	25.70	23.90	23.90				
LTE Band 30	QPSK	25.70	21.25	21.00	21.00	24.70	19.50	20.00	19.00
LTE Band 41 (PC3)	QPSK	25.70	23.25	20.00	22.75	24.70	22.50	21.75	20.50
LTE Band 41 (PC 2)	QPSK	27.70	N/A	N/A	N/A	26.70	N/A	N/A	N/A
LTE Band 66	QPSK	25.70	19.25	21.50	21.00	24.70	21.25	21.00	21.50
LTE Band 71	QPSK	25.70	25.70	23.90	23.90				
RF Air interface	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT7		ANT8		ANT9		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
LTE Band 48	QPSK	25.70	23.00	22.20	22.20	25.20	23.25	22.20	21.00

LTE Band 5 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A {dBm}					Power Mode B {dBm}					
					20525		MPR	Tune-up Limit		20525		MPR	Tune-up Limit	
					836.5 MHz					836.5 MHz				
10 MHz	QPSK	1	0		25.04		0.00	25.70		25.04		0.00	25.70	
		1	25		25.20		0.00	25.70		25.20		0.00	25.70	
		1	49		24.92		0.00	25.70		24.92		0.00	25.70	
		25	0		23.98		1.00	24.70		23.98		1.00	24.70	
		25	12		24.20		1.00	24.70		24.20		1.00	24.70	
		25	25		24.00		1.00	24.70		24.00		1.00	24.70	
		50	0		24.20		1.00	24.70		24.20		1.00	24.70	
	16QAM	1	0		24.14		1.00	24.70		24.14		1.00	24.70	
		1	25		24.02		1.00	24.70		24.02		1.00	24.70	
		1	49		23.99		1.00	24.70		23.99		1.00	24.70	
		25	0		23.13		2.00	23.70		23.13		2.00	23.70	
		25	12		23.18		2.00	23.70		23.18		2.00	23.70	
		25	25		23.16		2.00	23.70		23.16		2.00	23.70	
		50	0		23.14		2.00	23.70		23.14		2.00	23.70	
	64QAM	1	0		23.70		2.00	23.70		23.70		2.00	23.70	
		1	25		23.69		2.00	23.70		23.69		2.00	23.70	
		1	49		23.58		2.00	23.70		23.58		2.00	23.70	
		25	0		22.62		3.00	22.70		22.62		3.00	22.70	
		25	12		22.63		3.00	22.70		22.63		3.00	22.70	
		25	25		22.48		3.00	22.70		22.48		3.00	22.70	
		50	0		22.42		3.00	22.70		22.42		3.00	22.70	
	256QAM	1	0		20.48		5.00	20.70		20.48		5.00	20.70	
		1	25		20.39		5.00	20.70		20.39		5.00	20.70	
		1	49		20.28		5.00	20.70		20.28		5.00	20.70	
		25	0		20.62		5.00	20.70		20.62		5.00	20.70	
		25	12		20.63		5.00	20.70		20.63		5.00	20.70	
		25	25		20.48		5.00	20.70		20.48		5.00	20.70	
		50	0		20.42		5.00	20.70		20.42		5.00	20.70	
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A {dBm}					Power Mode B {dBm}					
				20425.00	20525.00	20625.00	MPR	Tune-up Limit	20425.00	20525.00	20625.00	MPR	Tune-up Limit	
				826.5 MHz	836.5 MHz	846.5 MHz			826.5 MHz	836.5 MHz	846.5 MHz			
5 MHz	QPSK	1	0		24.98	24.93	24.86	0.00	25.70	24.98	24.93	24.86	0.00	25.70
		1	12		24.83	24.86	24.73	0.00	25.70	24.83	24.86	24.73	0.00	25.70
		1	24		24.83	24.83	24.70	0.00	25.70	24.83	24.83	24.70	0.00	25.70
		12	0		24.18	24.02	24.06	1.00	24.70	24.18	24.02	24.06	1.00	24.70
		12	7		24.15	24.06	24.04	1.00	24.70	24.15	24.06	24.04	1.00	24.70
		12	13		24.08	24.03	23.97	1.00	24.70	24.08	24.03	23.97	1.00	24.70
		25	0		24.09	24.04	24.02	1.00	24.70	24.09	24.04	24.02	1.00	24.70
	16QAM	1	0		24.37	24.30	24.67	1.00	24.70	24.37	24.30	24.67	1.00	24.70
		1	12		24.30	24.22	24.56	1.00	24.70	24.30	24.22	24.56	1.00	24.70
		1	24		24.24	24.20	24.48	1.00	24.70	24.24	24.20	24.48	1.00	24.70
		12	0		23.23	23.09	23.18	2.00	23.70	23.23	23.09	23.18	2.00	23.70
		12	7		23.16	23.16	23.16	2.00	23.70	23.16	23.16	23.16	2.00	23.70
		12	13		23.12	23.08	23.11	2.00	23.70	23.12	23.08	23.11	2.00	23.70
		25	0		23.07	23.06	23.08	2.00	23.70	23.07	23.06	23.08	2.00	23.70
	64QAM	1	0		23.48	23.53	23.56	2.00	23.70	23.48	23.53	23.56	2.00	23.70
		1	12		23.55	23.39	23.00	2.00	23.70	23.55	23.39	23.00	2.00	23.70
		1	24		23.57	23.26	22.70	2.00	23.70	23.57	23.26	22.70	2.00	23.70
		12	0		22.55	22.63	21.84	3.00	22.70	22.55	22.63	21.84	3.00	22.70
		12	7		22.65	22.56	21.84	3.00	22.70	22.65	22.56	21.84	3.00	22.70
		12	13		22.62	22.50	21.74	3.00	22.70	22.62	22.50	21.74	3.00	22.70
		25	0		22.56	22.53	21.79	3.00	22.70	22.56	22.53	21.79	3.00	22.70
	256QAM	1	0		20.48	20.53	20.56	5.00	20.70	20.48	20.53	20.56	5.00	20.70
		1	12		20.55	20.39	20.00	5.00	20.70	20.55	20.39	20.00	5.00	20.70
		1	24		20.57	20.26	20.06	5.00	20.70	20.57	20.26	20.06	5.00	20.70
		12	0		20.55	20.63	19.84	5.00	20.70	20.55	20.63	19.84	5.00	20.70
		12	7		20.65	20.56	19.84	5.00	20.70	20.65	20.56	19.84	5.00	20.70
		12	13		20.62	20.50	19.74	5.00	20.70	20.62	20.50	19.74	5.00	20.70
		25	0		20.56	20.53	19.79	5.00	20.70	20.56	20.53	19.79	5.00	20.70

LTE Band 5 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A {dBm}					Power Mode B {dBm}				
				20415.00	20525.00	20635.00	MPR	Tune-up Limit	20415.00	20525.00	20635.00	MPR	Tune-up Limit
				825.5 MHz	836.5 MHz	847.5 MHz			825.5 MHz	836.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	25.17	25.03	25.06	0.00	25.70	25.17	25.03	25.06	0.00	25.70
		1	8	25.07	25.01	25.02	0.00	25.70	25.07	25.01	25.02	0.00	25.70
		1	14	25.05	25.01	25.00	0.00	25.70	25.05	25.01	25.00	0.00	25.70
		8	0	24.45	24.36	24.30	1.00	24.70	24.45	24.36	24.30	1.00	24.70
		8	4	24.40	24.32	24.27	1.00	24.70	24.40	24.32	24.27	1.00	24.70
		8	7	24.39	24.34	24.27	1.00	24.70	24.39	24.34	24.27	1.00	24.70
	16QAM	15	0	24.42	24.33	24.25	1.00	24.70	24.42	24.33	24.25	1.00	24.70
		1	0	24.55	24.33	24.70	1.00	24.70	24.55	24.33	24.70	1.00	24.70
		1	8	24.41	24.29	24.60	1.00	24.70	24.41	24.29	24.60	1.00	24.70
		1	14	24.36	24.23	24.57	1.00	24.70	24.36	24.23	24.57	1.00	24.70
		8	0	23.48	23.45	23.39	2.00	23.70	23.48	23.45	23.39	2.00	23.70
		8	4	23.48	23.44	23.37	2.00	23.70	23.48	23.44	23.37	2.00	23.70
	64QAM	8	7	23.48	23.44	23.37	2.00	23.70	23.48	23.44	23.37	2.00	23.70
		15	0	23.36	23.37	23.32	2.00	23.70	23.36	23.37	23.32	2.00	23.70
		1	0	23.64	23.69	22.99	2.00	23.70	23.64	23.69	22.99	2.00	23.70
		1	8	23.61	23.70	22.89	2.00	23.70	23.61	23.70	22.89	2.00	23.70
		1	14	23.56	23.69	23.66	2.00	23.70	23.56	23.69	23.66	2.00	23.70
		8	0	22.51	22.64	21.90	3.00	22.70	22.51	22.64	21.90	3.00	22.70
1.4 MHz	QPSK	8	4	22.54	22.67	21.91	3.00	22.70	22.54	22.67	21.91	3.00	22.70
		8	7	22.54	22.65	21.82	3.00	22.70	22.54	22.65	21.82	3.00	22.70
		15	0	22.57	22.56	21.78	3.00	22.70	22.57	22.56	21.78	3.00	22.70
	256QAM	1	0	20.44	20.63	20.59	5.00	20.70	20.44	20.63	20.59	5.00	20.70
		1	8	20.41	20.57	20.49	5.00	20.70	20.41	20.57	20.49	5.00	20.70
		1	14	20.36	20.49	20.23	5.00	20.70	20.36	20.49	20.23	5.00	20.70
	16QAM	8	0	20.51	20.64	19.90	5.00	20.70	20.51	20.64	19.90	5.00	20.70
		8	4	20.54	20.67	19.91	5.00	20.70	20.54	20.67	19.91	5.00	20.70
		8	7	20.54	20.65	19.82	5.00	20.70	20.54	20.65	19.82	5.00	20.70
		15	0	20.57	20.56	19.78	5.00	20.70	20.57	20.56	19.78	5.00	20.70
	64QAM	1	0	25.22	25.04	24.93	0.00	25.70	25.22	25.04	24.93	0.00	25.70
		1	3	25.26	25.11	24.98	0.00	25.70	25.26	25.11	24.98	0.00	25.70
		1	5	25.17	25.03	24.94	0.00	25.70	25.17	25.03	24.94	0.00	25.70
		3	0	25.13	25.08	24.94	0.00	25.70	25.13	25.08	24.94	0.00	25.70
		3	1	25.19	25.10	25.00	0.00	25.70	25.19	25.10	25.00	0.00	25.70
		3	3	25.18	25.10	24.98	0.00	25.70	25.18	25.10	24.98	0.00	25.70
1.4 MHz	QPSK	6	0	24.03	23.90	23.86	1.00	24.70	24.03	23.90	23.86	1.00	24.70
		1	0	24.18	24.29	23.91	1.00	24.70	24.18	24.29	23.91	1.00	24.70
		1	3	24.21	24.39	23.96	1.00	24.70	24.21	24.39	23.96	1.00	24.70
		1	5	24.12	24.29	23.86	1.00	24.70	24.12	24.29	23.86	1.00	24.70
		3	0	24.11	24.13	24.04	1.00	24.70	24.11	24.13	24.04	1.00	24.70
		3	1	24.11	24.15	24.09	1.00	24.70	24.11	24.15	24.09	1.00	24.70
	16QAM	3	3	24.13	24.18	24.10	1.00	24.70	24.13	24.18	24.10	1.00	24.70
		6	0	23.17	22.88	23.03	2.00	23.70	23.17	22.88	23.03	2.00	23.70
		1	0	23.14	23.03	23.24	2.00	23.70	23.14	23.03	23.24	2.00	23.70
		1	3	23.23	23.16	23.23	2.00	23.70	23.23	23.16	23.23	2.00	23.70
		1	5	23.11	23.00	23.06	2.00	23.70	23.11	23.00	23.06	2.00	23.70
		3	0	23.37	23.10	23.05	2.00	23.70	23.37	23.10	23.05	2.00	23.70
	64QAM	3	1	23.39	23.14	23.07	2.00	23.70	23.39	23.14	23.07	2.00	23.70
		3	3	23.37	23.14	22.87	2.00	23.70	23.37	23.14	22.87	2.00	23.70
		6	0	21.92	22.27	22.06	3.00	22.70	21.92	22.27	22.06	3.00	22.70
		1	0	20.44	20.33	20.54	5.00	20.70	20.44	20.33	20.54	5.00	20.70
		1	3	20.53	20.46	20.53	5.00	20.70	20.53	20.46	20.53	5.00	20.70
		1	5	20.41	20.30	20.36	5.00	20.70	20.41	20.30	20.36	5.00	20.70
1.4 MHz	256QAM	3	0	20.67	20.40	20.35	5.00	20.70	20.67	20.40	20.35	5.00	20.70
		3	1	20.69	20.44	20.37	5.00	20.70	20.69	20.44	20.37	5.00	20.70
		3	3	20.67	20.44	20.17	5.00	20.70	20.67	20.44	20.17	5.00	20.70
		6	0	20.42	20.57	20.36	5.00	20.70	20.42	20.57	20.36	5.00	20.70

LTE Band 5 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					20525		MPR	Tune-up Limit		20525		MPR	Tune-up Limit
					836.5 MHz					836.5 MHz			
10 MHz	QPSK	1	0		23.59		0.00	23.90		23.59		0.00	23.90
		1	25		23.80		0.00	23.90		23.80		0.00	23.90
		1	49		23.47		0.00	23.90		23.47		0.00	23.90
		25	0		22.61		1.00	22.90		22.61		1.00	22.90
		25	12		22.80		1.00	22.90		22.80		1.00	22.90
		25	25		22.63		1.00	22.90		22.63		1.00	22.90
		50	0		22.70		1.00	22.90		22.70		1.00	22.90
	16QAM	1	0		22.73		1.00	22.90		22.73		1.00	22.90
		1	25		22.62		1.00	22.90		22.62		1.00	22.90
		1	49		22.60		1.00	22.90		22.60		1.00	22.90
		25	0		21.73		2.00	21.90		21.73		2.00	21.90
		25	12		21.82		2.00	21.90		21.82		2.00	21.90
		25	25		21.76		2.00	21.90		21.76		2.00	21.90
		50	0		21.75		2.00	21.90		21.75		2.00	21.90
	64QAM	1	0		21.27		2.00	21.90		21.27		2.00	21.90
		1	25		21.80		2.00	21.90		21.80		2.00	21.90
		1	49		21.55		2.00	21.90		21.55		2.00	21.90
		25	0		20.02		3.00	20.90		20.02		3.00	20.90
		25	12		20.63		3.00	20.90		20.63		3.00	20.90
		25	25		20.34		3.00	20.90		20.34		3.00	20.90
		50	0		20.49		3.00	20.90		20.49		3.00	20.90
	256QAM	1	0		18.21		5.00	18.90		18.21		5.00	18.90
		1	25		18.31		5.00	18.90		18.31		5.00	18.90
		1	49		18.42		5.00	18.90		18.42		5.00	18.90
		25	0		18.32		5.00	18.90		18.32		5.00	18.90
		25	12		18.27		5.00	18.90		18.27		5.00	18.90
		25	25		18.32		5.00	18.90		18.32		5.00	18.90
		50	0		18.43		5.00	18.90		18.43		5.00	18.90
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20425	20525	20625	MPR	Tune-up Limit	20425	20525	20625	MPR	Tune-up Limit
				826.5 MHz	836.5 MHz	846.5 MHz			826.5 MHz	836.5 MHz	846.5 MHz		
5 MHz	QPSK	1	0	23.24	23.77	23.71	0.00	23.90	23.24	23.77	23.71	0.00	23.90
		1	12	23.17	23.68	23.58	0.00	23.90	23.17	23.68	23.58	0.00	23.90
		1	24	23.03	23.65	23.51	0.00	23.90	23.03	23.65	23.51	0.00	23.90
		12	0	22.76	22.66	22.68	1.00	22.90	22.76	22.66	22.68	1.00	22.90
		12	7	22.71	22.70	22.65	1.00	22.90	22.71	22.70	22.65	1.00	22.90
		12	13	22.68	22.65	22.59	1.00	22.90	22.68	22.65	22.59	1.00	22.90
		25	0	22.71	22.68	22.65	1.00	22.90	22.71	22.68	22.65	1.00	22.90
	16QAM	1	0	22.39	22.89	22.90	1.00	22.90	22.39	22.89	22.90	1.00	22.90
		1	12	22.26	22.83	22.84	1.00	22.90	22.26	22.83	22.84	1.00	22.90
		1	24	22.22	22.82	22.67	1.00	22.90	22.22	22.82	22.67	1.00	22.90
		12	0	21.90	21.76	21.75	2.00	21.90	21.90	21.76	21.75	2.00	21.90
		12	7	21.86	21.76	21.71	2.00	21.90	21.86	21.76	21.71	2.00	21.90
		12	13	21.83	21.73	21.63	2.00	21.90	21.83	21.73	21.63	2.00	21.90
		25	0	21.81	21.72	21.59	2.00	21.90	21.81	21.72	21.59	2.00	21.90
	64QAM	1	0	21.18	21.65	21.84	2.00	21.90	21.18	21.65	21.84	2.00	21.90
		1	12	21.33	21.35	21.67	2.00	21.90	21.33	21.35	21.67	2.00	21.90
		1	24	21.29	20.97	20.90	2.00	21.90	21.29	20.97	20.90	2.00	21.90
		12	0	20.19	20.65	20.59	3.00	20.90	20.19	20.65	20.59	3.00	20.90
		12	7	20.28	20.53	20.46	3.00	20.90	20.28	20.53	20.46	3.00	20.90
		12	13	20.40	20.40	20.05	3.00	20.90	20.40	20.40	20.05	3.00	20.90
		25	0	20.19	20.44	20.22	3.00	20.90	20.19	20.44	20.22	3.00	20.90
	256QAM	1	0	18.35	18.28	18.45	5.00	18.90	18.35	18.28	18.45	5.00	18.90
		1	12	18.47	18.43	18.50	5.00	18.90	18.47	18.43	18.50	5.00	18.90
		1	24	18.36	18.49	18.26	5.00	18.90	18.36	18.49	18.26	5.00	18.90
		12	0	18.33	18.22	18.46	5.00	18.90	18.33	18.22	18.46	5.00	18.90
		12	7	18.44	18.22	18.26	5.00	18.90	18.44	18.22	18.26	5.00	18.90
		12	13	18.37	18.50	18.27	5.00	18.90	18.37	18.50	18.27	5.00	18.90
		25	0	18.49	18.43	18.29	5.00	18.90	18.49	18.43	18.29	5.00	18.90

LTE Band 5 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20415	20525	20635	MPR	Tune-up Limit	20415	20525	20635	MPR	Tune-up Limit
				825.5 MHz	836.5 MHz	847.5 MHz			825.5 MHz	836.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	23.23	23.57	23.57	0.00	23.90	23.23	23.57	23.57	0.00	23.90
		1	8	23.12	23.55	23.52	0.00	23.90	23.12	23.55	23.52	0.00	23.90
		1	14	23.06	23.55	23.44	0.00	23.90	23.06	23.55	23.44	0.00	23.90
		8	0	22.75	22.62	22.62	1.00	22.90	22.75	22.62	22.62	1.00	22.90
		8	4	22.74	22.64	22.61	1.00	22.90	22.74	22.64	22.61	1.00	22.90
		8	7	22.73	22.65	22.60	1.00	22.90	22.73	22.65	22.60	1.00	22.90
	16QAM	15	0	22.74	22.65	22.59	1.00	22.90	22.74	22.65	22.59	1.00	22.90
		1	0	22.87	22.64	22.90	1.00	22.90	22.87	22.64	22.90	1.00	22.90
		1	8	22.71	22.59	22.90	1.00	22.90	22.71	22.59	22.90	1.00	22.90
		1	14	22.69	22.53	22.88	1.00	22.90	22.69	22.53	22.88	1.00	22.90
		8	0	21.81	21.73	21.68	2.00	21.90	21.81	21.73	21.68	2.00	21.90
		8	4	21.81	21.77	21.70	2.00	21.90	21.81	21.77	21.70	2.00	21.90
	64QAM	8	7	21.82	21.78	21.70	2.00	21.90	21.82	21.78	21.70	2.00	21.90
		15	0	21.72	21.72	21.62	2.00	21.90	21.72	21.72	21.62	2.00	21.90
		1	0	21.04	21.90	21.26	2.00	21.90	21.04	21.90	21.26	2.00	21.90
		1	8	21.05	21.60	21.09	2.00	21.90	21.05	21.60	21.09	2.00	21.90
		1	14	21.02	21.37	21.60	2.00	21.90	21.02	21.37	21.60	2.00	21.90
		8	0	19.99	20.60	20.40	3.00	20.90	19.99	20.60	20.40	3.00	20.90
	256QAM	8	4	20.05	20.51	20.19	3.00	20.90	20.05	20.51	20.19	3.00	20.90
		8	7	20.10	20.47	20.02	3.00	20.90	20.10	20.47	20.02	3.00	20.90
		15	0	20.11	20.40	20.07	3.00	20.90	20.11	20.40	20.07	3.00	20.90
		1	0	18.21	18.35	18.32	5.00	18.90	18.21	18.35	18.32	5.00	18.90
		1	8	18.48	18.35	18.36	5.00	18.90	18.48	18.35	18.36	5.00	18.90
		1	14	18.23	18.48	18.29	5.00	18.90	18.23	18.48	18.29	5.00	18.90
1.4 MHz	QPSK	8	0	18.22	18.39	18.28	5.00	18.90	18.22	18.39	18.28	5.00	18.90
		8	4	18.39	18.37	18.33	5.00	18.90	18.39	18.37	18.33	5.00	18.90
		8	7	18.38	18.48	18.47	5.00	18.90	18.38	18.48	18.47	5.00	18.90
		15	0	18.43	18.35	18.24	5.00	18.90	18.43	18.35	18.24	5.00	18.90
	16QAM	1	0	23.07	23.47	23.42	0.00	23.90	23.07	23.47	23.42	0.00	23.90
		1	3	23.13	23.53	23.45	0.00	23.90	23.13	23.53	23.45	0.00	23.90
		1	5	23.04	23.49	23.38	0.00	23.90	23.04	23.49	23.38	0.00	23.90
		3	0	23.07	23.49	23.32	0.00	23.90	23.07	23.49	23.32	0.00	23.90
		3	1	23.09	23.53	23.38	0.00	23.90	23.09	23.53	23.38	0.00	23.90
		3	3	23.12	23.54	23.37	0.00	23.90	23.12	23.54	23.37	0.00	23.90
	64QAM	6	0	22.67	22.55	22.43	1.00	22.90	22.67	22.55	22.43	1.00	22.90
		1	0	22.72	22.89	22.58	1.00	22.90	22.72	22.89	22.58	1.00	22.90
		1	3	22.75	22.00	22.59	1.00	22.90	22.75	22.00	22.59	1.00	22.90
		1	5	22.68	22.00	22.52	1.00	22.90	22.68	22.00	22.52	1.00	22.90
		3	0	22.86	22.76	22.49	1.00	22.90	22.86	22.76	22.49	1.00	22.90
		3	1	22.89	22.81	22.53	1.00	22.90	22.89	22.81	22.53	1.00	22.90
	256QAM	3	3	22.88	22.76	22.52	1.00	22.90	22.88	22.76	22.52	1.00	22.90
		6	0	21.88	21.46	21.47	2.00	21.90	21.88	21.46	21.47	2.00	21.90
		1	0	21.71	21.79	21.85	2.00	21.90	21.71	21.79	21.85	2.00	21.90
		1	3	21.80	21.80	21.79	2.00	21.90	21.80	21.80	21.79	2.00	21.90
		1	5	21.80	21.62	21.45	2.00	21.90	21.80	21.62	21.45	2.00	21.90
		3	0	21.85	21.83	21.82	2.00	21.90	21.85	21.83	21.82	2.00	21.90
1.4 MHz	64QAM	3	1	21.90	21.88	21.71	2.00	21.90	21.90	21.88	21.71	2.00	21.90
		3	3	21.88	21.76	21.67	2.00	21.90	21.88	21.76	21.67	2.00	21.90
		6	0	20.90	20.34	20.88	3.00	20.90	20.90	20.34	20.88	3.00	20.90
	256QAM	1	0	18.47	18.26	18.26	5.00	18.90	18.47	18.26	18.26	5.00	18.90
		1	3	18.42	18.40	18.41	5.00	18.90	18.42	18.40	18.41	5.00	18.90
		1	5	18.48	18.20	18.23	5.00	18.90	18.48	18.20	18.23	5.00	18.90
	16QAM	3	0	18.35	18.23	18.49	5.00	18.90	18.35	18.23	18.49	5.00	18.90
		3	1	18.45	18.41	18.45	5.00	18.90	18.45	18.41	18.45	5.00	18.90
		3	3	18.39	18.33	18.36	5.00	18.90	18.39	18.33	18.36	5.00	18.90
		6	0	18.24	18.37	18.48	5.00	18.90	18.24	18.37	18.48	5.00	18.90

LTE Band 7 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A {dBm}					Power Mode B {dBm}				
				20850	21100	21350	MPR	Tune-up Limit	20850	21100	21350	MPR	Tune-up Limit
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20 MHz	QPSK	1	0	24.73	25.63	25.17	0.00	25.70	20.30	20.34	20.31	0.00	20.75
		1	49	25.60	25.70	25.50	0.00	25.70	20.60	20.60	20.60	0.00	20.75
		1	99	24.74	25.65	25.21	0.00	25.70	20.21	20.26	20.27	0.00	20.75
		50	0	23.73	24.18	24.04	1.00	24.70	20.32	20.36	20.33	0.00	20.75
		50	24	24.50	24.50	24.50	1.00	24.70	20.60	20.60	20.60	0.00	20.75
		50	50	23.77	24.22	24.11	1.00	24.70	20.35	20.37	20.38	0.00	20.75
	16QAM	100	0	23.74	24.25	24.06	1.00	24.70	20.38	20.60	20.34	0.00	20.75
		1	0	23.83	24.61	24.49	1.00	24.70	20.42	20.37	20.52	0.00	20.75
		1	49	23.79	24.58	24.46	1.00	24.70	20.34	20.34	20.48	0.00	20.75
		1	99	23.74	24.58	24.43	1.00	24.70	20.35	20.35	20.46	0.00	20.75
		50	0	23.07	23.13	23.01	2.00	23.70	20.16	20.34	20.38	0.00	20.75
		50	24	23.15	23.21	23.00	2.00	23.70	20.24	20.41	20.40	0.00	20.75
	64QAM	50	50	23.12	23.19	23.05	2.00	23.70	20.20	20.39	20.43	0.00	20.75
		100	0	23.17	23.20	23.01	2.00	23.70	20.22	20.41	20.39	0.00	20.75
		1	0	23.13	23.25	23.16	2.00	23.70	20.34	20.44	20.53	0.00	20.75
		1	49	23.27	23.32	23.23	2.00	23.70	20.33	20.42	20.54	0.00	20.75
		1	99	22.87	23.31	23.20	2.00	23.70	20.29	20.44	20.55	0.00	20.75
		50	0	22.12	22.15	22.05	3.00	22.70	20.20	20.21	20.20	0.00	20.75
	256QAM	50	24	22.19	22.23	22.04	3.00	22.70	20.26	20.29	20.20	0.00	20.75
		50	50	22.08	22.18	22.07	3.00	22.70	20.22	20.27	20.22	0.00	20.75
		100	0	22.17	22.20	22.01	3.00	22.70	20.24	20.24	20.12	0.00	20.75
		1	0	19.96	20.02	19.85	5.00	20.70	20.04	20.01	19.96	0.05	20.70
		1	49	19.88	19.96	20.03	5.00	20.70	20.07	20.06	19.82	0.05	20.70
		1	99	19.99	19.84	19.90	5.00	20.70	20.10	20.04	19.93	0.05	20.70
15 MHz	QPSK	50	0	19.89	19.94	20.03	5.00	20.70	19.83	20.01	19.88	0.05	20.70
		50	24	19.82	20.06	20.00	5.00	20.70	19.95	19.93	20.09	0.05	20.70
		50	50	20.02	20.02	19.86	5.00	20.70	19.87	19.86	20.04	0.05	20.70
		100	0	20.07	20.00	20.06	5.00	20.70	20.10	19.89	20.05	0.05	20.70
	16QAM	1	0	24.77	24.85	24.76	0.00	25.70	20.30	20.40	20.28	0.00	20.75
		1	37	24.79	24.88	24.79	0.00	25.70	20.27	20.34	20.29	0.00	20.75
		1	74	24.76	24.92	24.81	0.00	25.70	20.29	20.33	20.26	0.00	20.75
		36	0	24.43	24.12	24.05	1.00	24.70	20.40	20.34	20.33	0.00	20.75
		36	20	24.45	24.21	24.15	1.00	24.70	20.43	20.45	20.43	0.00	20.75
		36	39	24.43	24.20	24.12	1.00	24.70	20.40	20.41	20.41	0.00	20.75
	64QAM	75	0	24.41	24.19	24.11	1.00	24.70	20.38	20.38	20.40	0.00	20.75
		1	0	23.84	24.61	24.45	1.00	24.70	20.39	20.43	20.31	0.00	20.75
		1	37	23.80	24.57	24.46	1.00	24.70	20.37	20.47	20.37	0.00	20.75
		1	74	23.72	24.53	24.43	1.00	24.70	20.33	20.39	20.34	0.00	20.75
		36	0	23.13	23.10	23.02	2.00	23.70	20.31	20.34	20.35	0.00	20.75
		36	20	23.16	23.19	23.11	2.00	23.70	20.30	20.42	20.46	0.00	20.75
	256QAM	36	39	23.13	23.16	23.07	2.00	23.70	20.26	20.39	20.42	0.00	20.75
		75	0	23.16	23.17	23.10	2.00	23.70	20.29	20.42	20.42	0.00	20.75
		1	0	23.20	23.57	23.49	2.00	23.70	20.26	20.49	20.41	0.00	20.75
		1	37	23.63	23.66	23.56	2.00	23.70	20.21	20.49	20.41	0.00	20.75
		1	74	23.61	23.67	23.56	2.00	23.70	20.21	20.51	20.40	0.00	20.75
		36	0	22.17	22.11	22.01	3.00	22.70	20.31	20.16	20.19	0.00	20.75
	64QAM	36	20	22.14	22.17	22.08	3.00	22.70	20.30	20.23	20.28	0.00	20.75
		36	39	22.11	22.13	22.04	3.00	22.70	20.26	20.21	20.26	0.00	20.75
		75	0	22.15	22.18	22.10	3.00	22.70	20.22	20.26	20.24	0.00	20.75
	256QAM	1	0	20.05	19.84	20.04	5.00	20.70	20.00	19.85	19.87	0.05	20.70
		1	37	19.94	20.02	19.98	5.00	20.70	19.81	19.92	19.99	0.05	20.70
		1	74	19.94	20.02	19.89	5.00	20.70	19.88	20.02	19.83	0.05	20.70
		36	0	19.92	20.03	20.02	5.00	20.70	19.87	19.94	19.89	0.05	20.70
	256QAM	36	20	19.88	19.92	19.99	5.00	20.70	19.82	19.85	20.08	0.05	20.70
		36	39	19.89	19.91	20.05	5.00	20.70	20.08	19.81	19.94	0.05	20.70
		75	0	19.83	20.10	19.87	5.00	20.70	20.04	19.93	19.90	0.05	20.70

LTE Band 7 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20800.00	21100.00	21400.00	MPR	Tune-up Limit	20800.00	21100.00	21400.00	MPR	Tune-up Limit
				2505 MHz	2535 MHz	2565 MHz			2505 MHz	2535 MHz	2565 MHz		
10 MHz	QPSK	1	0	25.19	25.17	25.04	0.00	25.70	20.27	20.22	20.24	0.00	20.75
		1	25	25.19	25.17	25.12	0.00	25.70	20.25	20.23	20.24	0.00	20.75
		1	49	25.22	25.21	25.09	0.00	25.70	20.28	20.20	20.33	0.00	20.75
		25	0	24.05	24.13	23.99	1.00	24.70	20.43	20.42	20.40	0.00	20.75
		25	12	24.05	24.17	24.01	1.00	24.70	20.45	20.43	20.40	0.00	20.75
		25	25	24.01	24.16	24.07	1.00	24.70	20.41	20.40	20.46	0.00	20.75
	16QAM	50	0	24.05	24.18	24.01	1.00	24.70	20.42	20.41	20.40	0.00	20.75
		1	0	24.19	24.14	24.08	1.00	24.70	20.32	20.34	20.32	0.00	20.75
		1	25	24.15	24.08	24.01	1.00	24.70	20.25	20.29	20.28	0.00	20.75
		1	49	24.15	24.14	24.04	1.00	24.70	20.28	20.31	20.28	0.00	20.75
		25	0	23.13	23.28	23.12	2.00	23.70	20.28	20.51	20.41	0.00	20.75
		25	12	23.08	23.30	23.13	2.00	23.70	20.27	20.52	20.39	0.00	20.75
	64QAM	25	25	23.09	23.26	23.18	2.00	23.70	20.23	20.50	20.46	0.00	20.75
		50	0	23.01	23.22	23.07	2.00	23.70	20.27	20.43	20.36	0.00	20.75
		1	0	23.25	23.19	23.11	2.00	23.70	20.31	20.39	20.40	0.00	20.75
		1	25	23.28	23.20	23.16	2.00	23.70	20.23	20.41	20.41	0.00	20.75
		1	49	23.23	23.20	23.20	2.00	23.70	20.24	20.42	20.47	0.00	20.75
		25	0	22.09	22.20	22.06	3.00	22.70	20.26	20.23	20.24	0.00	20.75
	256QAM	25	12	22.05	22.23	22.08	3.00	22.70	20.27	20.24	20.26	0.00	20.75
		25	25	22.05	22.20	22.15	3.00	22.70	20.27	20.24	20.34	0.00	20.75
		50	0	22.00	22.15	22.01	3.00	22.70	20.20	20.18	20.19	0.00	20.75
		1	0	19.84	19.96	19.90	5.00	20.70	19.81	20.02	19.98	0.05	20.70
		1	25	19.86	19.93	19.93	5.00	20.70	20.04	19.97	19.86	0.05	20.70
		1	49	20.01	19.86	20.06	5.00	20.70	20.07	20.08	19.87	0.05	20.70
5 MHz	QPSK	25	0	19.87	19.96	20.09	5.00	20.70	19.82	19.92	19.95	0.05	20.70
		25	12	19.96	19.96	19.99	5.00	20.70	19.95	20.02	19.98	0.05	20.70
		25	25	19.83	19.97	19.81	5.00	20.70	20.04	20.09	19.99	0.05	20.70
		50	0	19.95	19.93	19.96	5.00	20.70	20.07	19.82	19.97	0.05	20.70
	16QAM	1	0	25.30	25.21	25.19	0.00	25.70	20.38	20.26	20.37	0.00	20.75
		1	12	25.28	25.25	25.19	0.00	25.70	20.36	20.31	20.31	0.00	20.75
		1	24	25.28	25.34	25.22	0.00	25.70	20.38	20.29	20.32	0.00	20.75
		12	0	24.42	24.11	24.05	1.00	24.70	20.39	20.43	20.42	0.00	20.75
		12	7	24.37	24.09	24.05	1.00	24.70	20.38	20.37	20.45	0.00	20.75
		12	13	24.38	24.07	24.01	1.00	24.70	20.37	20.35	20.43	0.00	20.75
	64QAM	25	0	24.42	24.13	24.05	1.00	24.70	20.43	20.38	20.43	0.00	20.75
		1	0	23.91	24.19	24.19	1.00	24.70	20.52	20.42	20.16	0.00	20.75
		1	12	23.90	24.22	24.15	1.00	24.70	20.45	20.45	20.15	0.00	20.75
		1	24	23.96	24.26	24.15	1.00	24.70	20.50	20.48	20.11	0.00	20.75
		12	0	23.27	23.19	23.13	2.00	23.70	20.26	20.51	20.48	0.00	20.75
		12	7	23.27	23.16	23.08	2.00	23.70	20.25	20.51	20.44	0.00	20.75
	256QAM	12	13	23.23	23.13	23.09	2.00	23.70	20.22	20.52	20.46	0.00	20.75
		25	0	23.21	23.06	23.01	2.00	23.70	20.21	20.42	20.35	0.00	20.75
		1	0	22.70	23.23	23.25	2.00	23.70	20.34	20.20	20.48	0.00	20.75
		1	12	22.89	23.31	23.28	2.00	23.70	20.35	20.22	20.40	0.00	20.75
		1	24	22.95	23.33	23.23	2.00	23.70	20.38	20.22	20.44	0.00	20.75
		12	0	22.79	23.18	23.09	2.00	23.70	20.20	20.19	20.15	0.00	20.75
	64QAM	12	7	23.06	23.16	23.05	2.00	23.70	20.20	20.19	20.10	0.00	20.75
		12	13	23.05	23.14	23.05	2.00	23.70	20.20	20.17	20.11	0.00	20.75
		25	0	21.92	22.10	22.00	3.00	22.70	20.17	20.14	20.16	0.00	20.75
	256QAM	1	0	19.92	20.07	20.09	5.00	20.70	20.05	19.98	20.03	0.05	20.70
		1	12	19.95	19.90	19.90	5.00	20.70	20.07	19.81	19.85	0.05	20.70
		1	24	20.01	20.07	19.84	5.00	20.70	20.02	19.90	19.80	0.05	20.70
		12	0	20.06	19.88	20.03	5.00	20.70	19.81	20.00	19.80	0.05	20.70
	256QAM	12	7	19.96	19.93	19.99	5.00	20.70	19.87	20.06	19.93	0.05	20.70
		12	13	19.86	19.93	19.93	5.00	20.70	19.92	20.01	20.00	0.05	20.70
		25	0	19.83	20.05	19.86	5.00	20.70	20.10	19.84	19.83	0.05	20.70

LTE Band 7 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20850	21100	21350	MPR	Tune-up Limit	20850	21100	21350	MPR	Tune-up Limit
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20 MHz	QPSK	1	0	17.09	17.17	17.08	0.00	17.50	19.15	19.19	19.12	0.00	19.50
		1	49	17.25	17.25	17.25	0.00	17.50	19.40	19.35	19.40	0.00	19.50
		1	99	17.04	17.13	17.04	0.00	17.50	19.06	19.12	19.06	0.00	19.50
		50	0	16.91	17.02	16.89	0.00	17.50	18.71	18.85	18.76	0.00	19.50
		50	24	17.25	17.25	17.25	0.00	17.50	19.40	19.35	19.40	0.00	19.50
		50	50	16.98	17.04	16.95	0.00	17.50	18.74	18.89	18.81	0.00	19.50
	16QAM	100	0	16.98	17.25	16.96	0.00	17.50	18.74	19.35	18.83	0.00	19.50
		1	0	17.08	16.91	17.12	0.00	17.50	18.64	18.84	18.93	0.00	19.50
		1	49	16.99	17.20	17.25	0.00	17.50	18.61	18.85	18.84	0.00	19.50
		1	99	16.92	17.13	16.97	0.00	17.50	18.77	18.80	18.86	0.00	19.50
		50	0	16.84	16.95	16.93	0.00	17.50	19.21	19.22	19.18	0.00	19.50
		50	24	16.93	17.06	17.00	0.00	17.50	18.96	19.20	19.24	0.00	19.50
	64QAM	50	50	16.87	17.02	16.93	0.00	17.50	19.23	19.17	19.18	0.00	19.50
		100	0	16.90	17.07	16.98	0.00	17.50	19.24	19.20	19.23	0.00	19.50
		1	0	17.07	17.13	17.06	0.00	17.50	19.03	19.23	19.15	0.00	19.50
		1	49	17.04	17.17	17.10	0.00	17.50	19.02	19.25	19.19	0.00	19.50
		1	99	17.00	17.16	17.11	0.00	17.50	18.99	19.24	19.17	0.00	19.50
		50	0	16.93	17.11	17.04	0.00	17.50	19.00	19.09	19.04	0.00	19.50
	256QAM	50	24	16.99	17.19	17.14	0.00	17.50	19.06	19.16	19.10	0.00	19.50
		50	50	16.93	17.15	17.08	0.00	17.50	19.02	19.13	19.07	0.00	19.50
		100	0	16.97	17.17	17.10	0.00	17.50	19.02	19.13	19.04	0.00	19.50
		1	0	17.25	17.27	17.02	0.00	17.50	17.17	17.21	17.06	1.70	17.80
		1	49	17.25	17.24	17.25	0.00	17.50	17.14	17.05	17.26	1.70	17.80
		1	99	17.26	17.16	17.13	0.00	17.50	17.28	17.20	17.05	1.70	17.80
15 MHz	QPSK	50	0	17.07	17.00	17.12	0.00	17.50	17.03	17.17	17.03	1.70	17.80
		50	24	17.07	17.07	17.18	0.00	17.50	17.20	17.26	17.23	1.70	17.80
		50	50	17.01	17.02	17.02	0.00	17.50	17.29	17.18	17.19	1.70	17.80
		100	0	17.24	17.08	17.17	0.00	17.50	17.28	17.14	17.30	1.70	17.80
	16QAM	1	0	17.13	17.18	17.09	0.00	17.50	19.03	18.97	19.12	0.00	19.50
		1	37	17.07	17.14	17.04	0.00	17.50	19.24	19.13	19.08	0.00	19.50
		1	74	17.09	17.14	16.98	0.00	17.50	19.01	19.12	19.08	0.00	19.50
		36	0	17.00	16.98	16.92	0.00	17.50	18.83	19.09	18.77	0.00	19.50
		36	20	17.00	17.05	16.89	0.00	17.50	18.83	18.90	18.76	0.00	19.50
		36	39	16.98	17.02	16.94	0.00	17.50	18.78	18.87	18.82	0.00	19.50
		75	0	16.98	17.02	16.88	0.00	17.50	19.00	18.88	18.73	0.00	19.50
		1	0	17.22	17.19	16.88	0.00	17.50	19.13	18.50	18.85	0.00	19.50
		1	37	17.21	17.02	16.85	0.00	17.50	19.08	18.50	18.81	0.00	19.50
		1	74	17.18	16.96	16.75	0.00	17.50	19.07	18.50	18.70	0.00	19.50
		36	0	17.17	16.94	16.89	0.00	17.50	18.82	18.55	19.12	0.00	19.50
		36	20	17.15	17.02	16.88	0.00	17.50	18.79	18.65	19.10	0.00	19.50
	64QAM	36	39	17.11	16.99	16.93	0.00	17.50	18.77	18.62	19.16	0.00	19.50
		75	0	17.13	17.02	16.87	0.00	17.50	18.76	18.61	18.50	0.00	19.50
		1	0	17.05	17.00	16.96	0.00	17.50	19.01	19.10	19.22	0.00	19.50
		1	37	17.07	17.06	17.00	0.00	17.50	19.04	19.11	19.23	0.00	19.50
		1	74	17.06	17.06	17.00	0.00	17.50	19.01	19.11	19.24	0.00	19.50
		36	0	16.94	16.89	16.83	0.00	17.50	18.93	18.97	19.10	0.00	19.50
	256QAM	36	20	16.91	16.97	16.83	0.00	17.50	18.91	19.04	19.10	0.00	19.50
		36	39	16.90	16.96	16.90	0.00	17.50	18.88	19.01	19.17	0.00	19.50
		75	0	16.94	17.00	16.84	0.00	17.50	18.86	19.05	19.05	0.00	19.50
		1	0	17.04	17.09	17.24	0.00	17.50	17.11	17.02	17.20	1.70	17.80
		1	37	17.01	17.09	17.16	0.00	17.50	17.26	17.04	17.20	1.70	17.80
		1	74	17.21	17.07	17.16	0.00	17.50	17.14	17.30	17.09	1.70	17.80
	256QAM	36	0	17.25	17.09	17.04	0.00	17.50	17.03	17.22	17.03	1.70	17.80
		36	20	17.08	17.18	17.02	0.00	17.50	17.00	17.12	17.16	1.70	17.80
		36	39	17.26	17.02	17.23	0.00	17.50	17.25	17.02	17.29	1.70	17.80
		75	0	17.04	17.09	17.22	0.00	17.50	17.23	17.03	17.28	1.70	17.80

LTE Band 7 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20800	21100	21400	MPR	Tune-up Limit	20800	21100	21400	MPR	Tune-up Limit
				2505 MHz	2535 MHz	2565 MHz			2505 MHz	2535 MHz	2565 MHz		
10 MHz	QPSK	1	0	17.12	17.00	17.05	0.00	17.50	19.22	19.14	19.10	0.00	19.50
		1	25	17.04	17.01	16.99	0.00	17.50	19.17	19.05	19.04	0.00	19.50
		1	49	17.09	16.98	16.94	0.00	17.50	19.17	18.87	19.00	0.00	19.50
		25	0	17.00	17.02	16.88	0.00	17.50	18.80	18.94	18.78	0.00	19.50
		25	12	17.03	17.03	16.99	0.00	17.50	18.83	18.96	18.87	0.00	19.50
		25	25	16.96	17.00	16.93	0.00	17.50	18.80	18.92	18.83	0.00	19.50
		50	0	16.99	17.02	16.85	0.00	17.50	18.82	18.93	18.77	0.00	19.50
	16QAM	1	0	17.24	16.98	16.83	0.00	17.50	18.67	18.93	18.74	0.00	19.50
		1	25	17.18	16.90	16.74	0.00	17.50	18.57	18.84	18.65	0.00	19.50
		1	49	17.19	16.92	16.75	0.00	17.50	18.59	18.85	18.65	0.00	19.50
		25	0	17.17	17.11	16.91	0.00	17.50	18.67	18.50	18.50	0.00	19.50
		25	12	17.19	17.14	16.98	0.00	17.50	18.70	18.50	18.58	0.00	19.50
		25	25	17.10	17.09	16.96	0.00	17.50	18.65	18.72	18.56	0.00	19.50
		50	0	17.14	17.06	16.85	0.00	17.50	18.66	18.69	18.50	0.00	19.50
	64QAM	1	0	16.96	17.05	17.03	0.00	17.50	19.03	19.25	19.24	0.00	19.50
		1	25	16.86	17.09	17.05	0.00	17.50	18.97	19.23	19.15	0.00	19.50
		1	49	16.89	17.13	17.06	0.00	17.50	19.03	19.22	19.23	0.00	19.50
		25	0	16.98	17.11	16.96	0.00	17.50	18.92	19.11	18.89	0.00	19.50
		25	12	17.01	17.13	17.07	0.00	17.50	18.94	19.14	19.00	0.00	19.50
		25	25	16.98	17.11	17.07	0.00	17.50	18.91	19.09	18.98	0.00	19.50
		50	0	16.91	17.03	16.92	0.00	17.50	18.87	19.04	18.85	0.00	19.50
	256QAM	1	0	17.15	17.18	17.20	0.00	17.50	17.01	17.28	17.18	1.70	17.80
		1	25	17.15	17.20	17.23	0.00	17.50	17.22	17.22	17.03	1.70	17.80
		1	49	17.13	17.18	17.25	0.00	17.50	17.07	17.24	17.07	1.70	17.80
		25	0	17.28	17.05	17.09	0.00	17.50	17.09	17.02	17.17	1.70	17.80
		25	12	17.23	17.29	17.22	0.00	17.50	17.00	17.13	17.09	1.70	17.80
		25	25	17.03	17.05	17.21	0.00	17.50	17.14	17.07	17.03	1.70	17.80
		50	0	17.27	17.22	17.00	0.00	17.50	17.23	17.02	17.10	1.70	17.80
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20775	21100	21425	MPR	Tune-up Limit	20775	21100	21425	MPR	Tune-up Limit
				2502.5 MHz	2535 MHz	2567.5 MHz			2502.5 MHz	2535 MHz	2567.5 MHz		
5 MHz	QPSK	1	0	17.02	17.15	17.09	0.00	17.50	19.15	19.01	19.19	0.00	19.50
		1	12	16.95	17.15	17.08	0.00	17.50	19.09	19.07	19.19	0.00	19.50
		1	24	16.98	17.18	17.07	0.00	17.50	18.90	19.08	19.06	0.00	19.50
		12	0	16.85	16.96	16.99	0.00	17.50	18.81	18.90	18.82	0.00	19.50
		12	7	16.88	16.98	17.01	0.00	17.50	18.78	18.92	18.80	0.00	19.50
		12	13	16.88	16.96	16.99	0.00	17.50	18.79	18.93	18.80	0.00	19.50
		25	0	16.86	16.99	17.00	0.00	17.50	18.80	18.92	18.84	0.00	19.50
	16QAM	1	0	17.01	17.09	17.12	0.00	17.50	18.91	19.05	18.79	0.00	19.50
		1	12	16.97	17.08	17.08	0.00	17.50	18.87	19.03	18.80	0.00	19.50
		1	24	16.92	17.10	17.10	0.00	17.50	18.85	19.07	18.82	0.00	19.50
		12	0	16.71	17.07	17.25	0.00	17.50	18.50	18.61	18.77	0.00	19.50
		12	7	16.72	17.05	17.24	0.00	17.50	18.50	18.58	18.75	0.00	19.50
		12	13	16.70	17.07	17.21	0.00	17.50	18.50	18.59	18.73	0.00	19.50
		25	0	16.62	17.01	17.19	0.00	17.50	18.50	18.53	18.69	0.00	19.50
	64QAM	1	0	17.03	17.18	17.17	0.00	17.50	18.76	19.10	19.20	0.00	19.50
		1	12	17.01	17.18	17.19	0.00	17.50	18.77	19.19	19.16	0.00	19.50
		1	24	17.01	17.24	17.15	0.00	17.50	18.75	19.18	19.17	0.00	19.50
		12	0	16.97	17.07	17.02	0.00	17.50	18.80	19.11	18.96	0.00	19.50
		12	7	16.94	17.09	17.00	0.00	17.50	18.81	19.10	18.92	0.00	19.50
		12	13	16.92	17.08	17.00	0.00	17.50	18.79	19.13	18.92	0.00	19.50
		25	0	16.91	17.03	16.99	0.00	17.50	18.73	19.07	18.93	0.00	19.50
	256QAM	1	0	17.18	17.26	17.15	0.00	17.50	17.23	17.15	17.29	1.70	17.80
		1	12	17.11	17.14	17.20	0.00	17.50	17.05	17.16	17.30	1.70	17.80
		1	24	17.09	17.15	17.21	0.00	17.50	17.14	17.30	17.18	1.70	17.80
		12	0	17.17	17.10	17.01	0.00	17.50	17.01	17.21	17.28	1.70	17.80
		12	7	17.10	17.23	17.06	0.00	17.50	17.11	17.09	17.29	1.70	17.80
		12	13	17.11	17.25	17.26	0.00	17.50	17.08	17.16	17.19	1.70	17.80
		25	0	17.22	17.03	17.27	0.00	17.50	17.29	17.11	17.10	1.70	17.80

LTE Band 7 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)						
				20850	21100	21350	MPR	Tune-up Limit	20850	21100	21350	MPR	Tune-up Limit		
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz				
20 MHz	QPSK	1	0	23.72	24.36	24.03	0.00	24.70	19.59	20.07	19.82	0.00	20.50		
		1	49	24.30	24.30	24.30	0.00	24.70	20.50	20.50	20.50	0.00	20.50		
		1	99	24.22	24.10	23.91	0.00	24.70	20.05	19.81	19.66	0.00	20.50		
		50	0	23.24	23.01	22.82	1.00	23.70	20.03	20.03	19.85	0.00	20.50		
		50	24	23.40	23.50	22.90	1.00	23.70	20.50	20.50	20.50	0.00	20.50		
		50	50	23.34	22.92	22.74	1.00	23.70	20.11	19.97	19.77	0.00	20.50		
	16QAM	100	0	23.28	23.30	22.77	1.00	23.70	20.01	20.50	19.83	0.00	20.50		
		1	0	22.77	23.20	23.29	1.00	23.70	19.97	20.50	20.33	0.00	20.50		
		1	49	22.74	23.45	23.26	1.00	23.70	20.45	20.43	20.19	0.00	20.50		
		1	99	22.71	23.40	23.16	1.00	23.70	20.44	20.49	20.20	0.00	20.50		
		50	0	21.94	22.04	21.85	2.00	22.70	20.02	20.08	19.88	0.00	20.50		
		50	24	22.08	21.97	21.81	2.00	22.70	20.15	20.08	19.93	0.00	20.50		
	64QAM	50	50	22.03	21.94	21.77	2.00	22.70	20.09	19.98	19.87	0.00	20.50		
		100	0	21.99	21.95	21.80	2.00	22.70	20.04	20.02	19.89	0.00	20.50		
		1	0	22.31	22.31	22.11	2.00	22.70	20.49	20.21	20.04	0.00	20.50		
		1	49	22.70	22.04	22.00	2.00	22.70	20.48	20.25	20.24	0.00	20.50		
		1	99	22.68	22.05	21.97	2.00	22.70	20.48	20.26	20.22	0.00	20.50		
		50	0	21.07	21.01	20.88	3.00	21.70	20.28	20.26	20.13	0.00	20.50		
	256QAM	50	24	21.20	20.97	20.86	3.00	21.70	20.42	20.19	20.09	0.00	20.50		
		50	50	21.12	20.93	20.80	3.00	21.70	20.34	20.17	20.03	0.00	20.50		
		100	0	21.06	20.96	20.81	3.00	21.70	20.24	20.21	20.03	0.00	20.50		
		1	0	19.20	18.98	18.97	5.00	19.70	19.06	18.97	18.92	0.80	19.70		
		1	49	18.94	18.98	19.01	5.00	19.70	18.91	19.09	18.91	0.80	19.70		
		1	99	19.10	18.91	19.17	5.00	19.70	18.99	18.99	19.00	0.80	19.70		
15 MHz	QPSK	50	0	19.14	19.15	19.10	5.00	19.70	19.15	19.17	18.94	0.80	19.70		
		50	24	18.90	18.97	18.91	5.00	19.70	19.04	19.17	19.15	0.80	19.70		
		50	50	19.11	19.04	19.03	5.00	19.70	18.97	19.01	19.12	0.80	19.70		
		100	0	19.10	19.02	19.11	5.00	19.70	19.02	18.95	19.18	0.80	19.70		
		16QAM	Power Mode A (dBm)					Power Mode B (dBm)							
						20825	21100	21375	MPR	Tune-up Limit	20825	21100	21375	MPR	Tune-up Limit
						2507.5 MHz	2535 MHz	2562.5 MHz			2507.5 MHz	2535 MHz	2562.5 MHz		
	1		0	24.08	24.22	24.05	0.00	24.70	19.60	20.02	19.82	0.00	20.50		
	1		37	24.20	24.04	23.93	0.00	24.70	20.06	19.84	19.71	0.00	20.50		
	1		74	24.58	24.04	23.93	0.00	24.70	20.10	19.92	19.67	0.00	20.50		
	36		0	23.42	23.46	23.29	1.00	23.70	19.93	20.03	19.84	0.00	20.50		
	64QAM	36	20	23.20	23.41	23.29	1.00	23.70	20.13	19.96	19.85	0.00	20.50		
		36	39	23.30	23.38	23.27	1.00	23.70	20.12	19.95	19.82	0.00	20.50		
		75	0	23.49	23.41	23.26	1.00	23.70	19.98	19.96	19.84	0.00	20.50		
		1	0	23.20	23.43	23.50	1.00	23.70	19.96	20.50	19.83	0.00	20.50		
		1	37	23.20	23.29	23.20	1.00	23.70	20.49	20.39	19.84	0.00	20.50		
		1	74	23.10	23.25	23.20	1.00	23.70	20.50	20.37	19.71	0.00	20.50		
		36	0	22.44	22.25	22.16	2.00	22.70	19.93	20.06	19.89	0.00	20.50		
	256QAM	36	20	22.62	22.20	22.14	2.00	22.70	20.18	19.92	19.90	0.00	20.50		
		36	39	22.62	22.18	22.10	2.00	22.70	20.13	19.93	19.88	0.00	20.50		
		75	0	22.51	22.19	22.10	2.00	22.70	20.04	20.01	19.87	0.00	20.50		
		1	0	21.79	22.62	22.04	2.00	22.70	19.94	20.49	20.31	0.00	20.50		
		1	37	22.21	22.38	21.96	2.00	22.70	20.34	20.31	20.17	0.00	20.50		
		1	74	22.18	22.46	21.93	2.00	22.70	20.31	20.32	20.18	0.00	20.50		
		36	0	21.04	20.98	20.82	3.00	21.70	20.23	20.21	20.07	0.00	20.50		
	256QAM	36	20	21.23	20.91	20.82	3.00	21.70	20.41	20.14	20.05	0.00	20.50		
		36	39	21.21	20.91	20.80	3.00	21.70	20.40	20.16	20.04	0.00	20.50		
		75	0	21.04	20.95	20.76	3.00	21.70	20.24	20.18	20.00	0.00	20.50		
		1	0	18.91	19.00	19.19	5.00	19.70	18.98	19.04	18.95	0.80	19.70		
		1	37	19.12	18.94	19.18	5.00	19.70	19.03	19.01	18.97	0.80	19.70		
		1	74	19.11	19.14	18.96	5.00	19.70	19.00	19.11	19.06	0.80	19.70		
		36	0	19.00	19.01	19.04	5.00	19.70	18.96	19.07	19.10	0.80	19.70		
	256QAM	36	20	19.19	19.19	18.94	5.00	19.70	19.01	18.91	19.13	0.80	19.70		
		36	39	18.99	19.11	18.97	5.00	19.70	19.10	19.09	19.12	0.80	19.70		
		75	0	19.08	19.07	19.04	5.00	19.70	19.05	18.99	18.94	0.80	19.70		

LTE Band 7 Measured Results (ANT3) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20800	21100	21400	MPR	Tune-up Limit	20800	21100	21400	MPR	Tune-up Limit
				2505 MHz	2535 MHz	2565 MHz			2505 MHz	2535 MHz	2565 MHz		
10 MHz	QPSK	1	0	23.96	24.08	23.94	0.00	24.70	19.50	19.93	19.80	0.00	20.50
		1	25	24.20	23.98	23.88	0.00	24.70	19.87	19.77	19.67	0.00	20.50
		1	49	24.20	24.02	23.86	0.00	24.70	19.91	19.81	19.69	0.00	20.50
		25	0	23.37	23.40	23.23	1.00	23.70	19.93	20.00	19.90	0.00	20.50
		25	12	23.45	23.40	23.25	1.00	23.70	19.99	20.01	19.94	0.00	20.50
		25	25	23.20	23.37	23.20	1.00	23.70	20.07	20.01	19.82	0.00	20.50
	16QAM	50	0	23.42	23.38	23.24	1.00	23.70	20.00	19.99	19.84	0.00	20.50
		1	0	23.20	23.36	23.59	1.00	23.70	19.71	19.96	20.19	0.00	20.50
		1	25	23.46	23.26	23.51	1.00	23.70	19.93	19.81	20.19	0.00	20.50
		1	49	23.30	23.23	23.49	1.00	23.70	20.17	19.85	20.11	0.00	20.50
		25	0	22.48	22.18	22.09	2.00	22.70	20.02	20.07	19.89	0.00	20.50
		25	12	22.58	22.21	22.06	2.00	22.70	20.13	20.04	19.94	0.00	20.50
	64QAM	25	25	22.66	22.17	22.03	2.00	22.70	20.23	20.03	19.85	0.00	20.50
		50	0	22.50	22.12	22.06	2.00	22.70	19.97	19.93	19.94	0.00	20.50
		1	0	21.77	22.10	22.01	2.00	22.70	20.18	20.32	20.23	0.00	20.50
		1	25	22.13	22.00	21.96	2.00	22.70	20.25	20.20	20.17	0.00	20.50
		1	49	22.16	22.00	22.00	2.00	22.70	20.34	20.18	20.18	0.00	20.50
		25	0	20.99	20.96	20.83	3.00	21.70	19.96	20.17	20.03	0.00	20.50
	256QAM	25	12	21.09	20.98	20.81	3.00	21.70	20.06	20.17	20.04	0.00	20.50
		25	25	21.16	20.94	20.77	3.00	21.70	20.14	20.17	20.02	0.00	20.50
		50	0	21.02	20.89	20.74	3.00	21.70	20.00	20.11	19.99	0.00	20.50
		1	0	18.91	19.16	19.05	5.00	19.70	18.97	19.12	19.02	0.80	19.70
		1	25	18.99	18.92	19.00	5.00	19.70	19.03	18.95	19.19	0.80	19.70
		1	49	19.08	19.01	19.13	5.00	19.70	19.20	18.96	19.12	0.80	19.70
5 MHz	QPSK	25	0	19.15	19.03	18.91	5.00	19.70	19.07	19.15	19.13	0.80	19.70
		25	12	18.98	19.17	19.17	5.00	19.70	18.92	19.07	19.18	0.80	19.70
		25	25	19.13	18.98	18.92	5.00	19.70	19.01	19.02	19.17	0.80	19.70
		50	0	18.90	19.08	19.17	5.00	19.70	19.20	18.97	19.10	0.80	19.70
	16QAM	1	0	24.04	24.19	23.82	0.00	24.70	19.78	19.96	19.77	0.00	20.50
		1	12	24.19	24.07	23.85	0.00	24.70	19.86	19.89	19.75	0.00	20.50
		1	24	24.44	24.11	23.80	0.00	24.70	20.00	19.87	19.76	0.00	20.50
		12	0	23.21	23.30	23.27	1.00	23.70	19.73	20.05	19.87	0.00	20.50
		12	7	23.31	23.29	23.26	1.00	23.70	19.84	19.94	19.84	0.00	20.50
		12	13	23.40	23.30	23.24	1.00	23.70	19.96	19.93	19.78	0.00	20.50
	64QAM	25	0	23.30	23.33	23.26	1.00	23.70	19.89	19.99	19.80	0.00	20.50
		1	0	23.25	23.55	23.63	1.00	23.70	19.82	20.48	20.00	0.00	20.50
		1	12	23.43	23.39	23.61	1.00	23.70	20.02	20.44	19.92	0.00	20.50
		1	24	23.61	23.41	23.60	1.00	23.70	20.24	20.48	19.86	0.00	20.50
		12	0	22.26	22.20	22.10	2.00	22.70	19.88	20.08	19.92	0.00	20.50
		12	7	22.36	22.18	22.09	2.00	22.70	19.97	20.10	19.88	0.00	20.50
	256QAM	12	13	22.48	22.17	22.09	2.00	22.70	20.07	20.08	19.87	0.00	20.50
		25	0	22.27	22.13	22.00	2.00	22.70	19.91	20.05	19.74	0.00	20.50
		1	0	21.71	22.15	21.91	2.00	22.70	20.28	20.38	20.15	0.00	20.50
		1	12	21.72	22.07	21.90	2.00	22.70	20.38	20.30	20.12	0.00	20.50
		1	24	21.92	22.10	21.88	2.00	22.70	20.40	20.30	20.10	0.00	20.50
		12	0	20.74	20.78	20.74	3.00	21.70	19.52	20.04	20.01	0.00	20.50
5 MHz	64QAM	12	7	20.86	20.80	20.74	3.00	21.70	19.54	20.02	19.94	0.00	20.50
		12	13	20.96	20.80	20.72	3.00	21.70	19.63	20.02	19.97	0.00	20.50
		25	0	20.82	20.84	20.71	3.00	21.70	19.51	20.01	19.91	0.00	20.50
	256QAM	1	0	18.94	19.18	19.12	5.00	19.70	19.15	19.01	18.98	0.80	19.70
		1	12	18.96	19.15	19.01	5.00	19.70	19.20	19.17	19.19	0.80	19.70
		1	24	19.07	19.20	19.04	5.00	19.70	18.96	19.18	19.02	0.80	19.70
	256QAM	12	0	18.98	19.16	19.01	5.00	19.70	19.09	18.93	18.94	0.80	19.70
		12	7	19.20	19.14	18.97	5.00	19.70	19.09	19.01	19.07	0.80	19.70
		12	13	18.91	19.09	18.98	5.00	19.70	19.08	19.05	19.04	0.80	19.70
		25	0	18.94	18.98	19.13	5.00	19.70	18.98	19.20	19.19	0.80	19.70

LTE Band 7 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20850	21100	21350	MPR	Tune-up Limit	20850	21100	21350	MPR	Tune-up Limit
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20 MHz	QPSK	1	0	18.76	19.16	19.22	0.00	19.50	17.98	18.21	18.12	0.00	18.50
		1	49	19.25	19.25	19.25	0.00	19.50	18.50	18.50	18.50	0.00	18.50
		1	99	18.98	19.13	19.18	0.00	19.50	18.18	18.22	18.08	0.00	18.50
		50	0	19.04	19.17	19.01	0.00	19.50	18.21	18.30	18.15	0.00	18.50
		50	24	19.25	19.25	19.25	0.00	19.50	18.30	18.30	18.30	0.00	18.50
		50	50	19.07	19.13	19.04	0.00	19.50	18.22	18.30	18.20	0.00	18.50
	16QAM	100	0	19.03	19.25	19.07	0.00	19.50	18.18	18.50	18.24	0.00	18.50
		1	0	18.87	19.15	19.23	0.00	19.50	18.44	18.40	18.49	0.00	18.50
		1	49	19.06	19.10	19.19	0.00	19.50	18.50	18.35	18.47	0.00	18.50
		1	99	19.07	19.10	19.17	0.00	19.50	18.43	18.37	18.45	0.00	18.50
		50	0	18.92	19.01	18.84	0.00	19.50	17.50	18.32	18.46	0.00	18.50
		50	24	18.95	19.00	18.89	0.00	19.50	17.52	18.33	18.25	0.00	18.50
	64QAM	50	50	18.94	18.98	18.88	0.00	19.50	17.52	18.30	18.21	0.00	18.50
		100	0	18.93	19.01	18.92	0.00	19.50	17.52	18.35	18.25	0.00	18.50
		1	0	18.99	19.20	18.99	0.00	19.50	17.59	18.49	18.32	0.00	18.50
		1	49	19.20	19.18	19.05	0.00	19.50	17.70	18.45	18.32	0.00	18.50
		1	99	19.14	19.17	19.00	0.00	19.50	17.70	18.45	18.32	0.00	18.50
		50	0	18.29	18.33	18.32	0.30	19.20	17.57	17.68	17.50	0.00	18.50
	256QAM	50	24	18.28	18.35	18.24	0.30	19.20	17.56	17.71	17.60	0.00	18.50
		50	50	18.30	18.30	18.28	0.30	19.20	17.61	17.66	17.55	0.00	18.50
		100	0	18.26	18.33	18.30	0.30	19.20	17.53	17.66	17.54	0.00	18.50
		1	0	16.53	16.30	16.43	2.30	17.20	16.47	16.48	16.37	1.30	17.20
		1	49	16.46	16.51	16.56	2.30	17.20	16.33	16.55	16.56	1.30	17.20
		1	99	16.45	16.38	16.53	2.30	17.20	16.59	16.32	16.46	1.30	17.20
15 MHz	QPSK	50	0	16.42	16.45	16.35	2.30	17.20	16.37	16.43	16.30	1.30	17.20
		50	24	16.54	16.51	16.53	2.30	17.20	16.41	16.37	16.58	1.30	17.20
		50	50	16.43	16.53	16.33	2.30	17.20	16.60	16.37	16.38	1.30	17.20
		100	0	16.47	16.52	16.51	2.30	17.20	16.57	16.31	16.42	1.30	17.20
	16QAM	1	0	19.00	18.98	18.87	0.00	19.50	18.13	18.36	18.26	0.00	18.50
		1	37	19.19	18.94	18.84	0.00	19.50	18.26	18.30	18.24	0.00	18.50
		1	74	19.20	18.96	18.85	0.00	19.50	18.32	18.32	18.21	0.00	18.50
		36	0	19.19	18.76	18.60	0.00	19.50	18.29	18.42	18.24	0.00	18.50
		36	20	19.25	18.78	18.60	0.00	19.50	18.38	18.45	18.26	0.00	18.50
		36	39	19.24	18.76	18.65	0.00	19.50	18.34	18.39	18.33	0.00	18.50
		75	0	19.18	18.75	18.58	0.00	19.50	18.27	18.38	18.19	0.00	18.50
	64QAM	1	0	18.90	19.15	19.08	0.00	19.50	18.26	18.48	18.37	0.00	18.50
		1	37	19.02	19.09	19.01	0.00	19.50	18.37	18.42	18.34	0.00	18.50
		1	74	19.05	19.09	18.96	0.00	19.50	18.36	18.40	18.28	0.00	18.50
		36	0	18.89	19.00	18.84	0.00	19.50	17.99	18.33	18.47	0.00	18.50
		36	20	19.01	19.02	18.84	0.00	19.50	18.07	18.31	18.46	0.00	18.50
		36	39	18.95	18.71	18.59	0.00	19.50	18.01	18.31	18.50	0.00	18.50
		75	0	18.91	18.68	18.51	0.00	19.50	17.97	18.32	18.44	0.00	18.50
	256QAM	1	0	19.02	19.24	19.07	0.00	19.50	17.90	18.25	18.41	0.00	18.50
		1	37	19.22	19.19	19.13	0.00	19.50	18.10	18.45	18.43	0.00	18.50
		1	74	19.19	19.20	19.11	0.00	19.50	18.09	18.48	18.46	0.00	18.50
		36	0	18.40	18.50	18.36	0.30	19.20	17.53	17.65	17.52	0.00	18.50
		36	20	18.49	18.52	18.36	0.30	19.20	17.62	17.66	17.50	0.00	18.50
		36	39	18.45	18.50	18.39	0.30	19.20	17.58	17.65	17.56	0.00	18.50
		75	0	18.39	18.50	18.34	0.30	19.20	17.53	17.60	17.52	0.00	18.50
	256QAM	1	0	16.47	16.40	16.57	2.30	17.20	16.52	16.59	16.33	1.30	17.20
		1	37	16.57	16.44	16.37	2.30	17.20	16.58	16.48	16.48	1.30	17.20
		1	74	16.57	16.50	16.43	2.30	17.20	16.32	16.32	16.57	1.30	17.20
		36	0	16.54	16.52	16.48	2.30	17.20	16.32	16.56	16.57	1.30	17.20
		36	20	16.34	16.44	16.58	2.30	17.20	16.35	16.51	16.58	1.30	17.20
		36	39	16.57	16.42	16.46	2.30	17.20	16.48	16.33	16.44	1.30	17.20
		75	0	16.33	16.30	16.41	2.30	17.20	16.38	16.42	16.48	1.30	17.20

LTE Band 7 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20800	21100	21400	MPR	Tune-up Limit	20800	21100	21400	MPR	Tune-up Limit
				2505 MHz	2535 MHz	2565 MHz			2505 MHz	2535 MHz	2565 MHz		
10 MHz	QPSK	1	0	18.86	19.22	19.12	0.00	19.50	18.23	18.40	18.30	0.00	18.50
		1	25	19.00	19.20	19.11	0.00	19.50	18.36	18.40	18.31	0.00	18.50
		1	49	19.07	19.16	19.06	0.00	19.50	18.41	18.41	18.28	0.00	18.50
		25	0	19.13	19.11	18.96	0.00	19.50	18.49	18.41	18.44	0.00	18.50
		25	12	19.16	19.17	19.08	0.00	19.50	18.31	18.44	18.34	0.00	18.50
		25	25	19.21	19.11	19.03	0.00	19.50	18.33	18.42	18.32	0.00	18.50
		50	0	19.15	19.14	18.96	0.00	19.50	18.48	18.43	18.42	0.00	18.50
	16QAM	1	0	19.06	19.11	19.01	0.00	19.50	18.32	18.38	18.47	0.00	18.50
		1	25	19.14	19.22	19.09	0.00	19.50	18.44	18.49	18.39	0.00	18.50
		1	49	19.23	19.25	19.18	0.00	19.50	18.50	18.33	18.41	0.00	18.50
		25	0	19.00	19.10	18.94	0.00	19.50	17.61	18.50	18.33	0.00	18.50
		25	12	18.99	19.11	19.04	0.00	19.50	17.64	18.49	18.43	0.00	18.50
		25	25	19.02	19.07	19.00	0.00	19.50	17.64	18.50	18.41	0.00	18.50
		50	0	18.91	19.03	18.89	0.00	19.50	17.53	18.45	18.47	0.00	18.50
	64QAM	1	0	18.94	19.12	18.98	0.00	19.50	17.53	18.33	18.38	0.00	18.50
		1	25	19.05	19.10	18.99	0.00	19.50	17.64	18.28	18.39	0.00	18.50
		1	49	19.09	19.13	19.01	0.00	19.50	17.67	18.31	18.37	0.00	18.50
		25	0	18.20	18.33	18.20	0.30	19.20	17.81	17.91	17.76	0.00	18.50
		25	12	18.21	18.34	18.27	0.30	19.20	17.85	17.95	17.83	0.00	18.50
		25	25	18.26	18.35	18.26	0.30	19.20	17.85	17.93	17.80	0.00	18.50
		50	0	18.20	18.27	18.20	0.30	19.20	17.73	17.85	17.66	0.00	18.50
	256QAM	1	0	16.35	16.37	16.31	2.30	17.20	16.36	16.50	16.57	1.30	17.20
		1	25	16.56	16.42	16.50	2.30	17.20	16.57	16.46	16.41	1.30	17.20
		1	49	16.50	16.48	16.47	2.30	17.20	16.43	16.30	16.32	1.30	17.20
		25	0	16.31	16.45	16.56	2.30	17.20	16.52	16.47	16.41	1.30	17.20
		25	12	16.48	16.60	16.44	2.30	17.20	16.37	16.45	16.42	1.30	17.20
		25	25	16.56	16.50	16.52	2.30	17.20	16.56	16.35	16.53	1.30	17.20
		50	0	16.49	16.55	16.42	2.30	17.20	16.50	16.36	16.43	1.30	17.20
5 MHz	QPSK	1	0	19.03	19.12	19.25	0.00	19.50	18.12	18.27	18.27	0.00	18.50
		1	12	19.12	19.08	19.18	0.00	19.50	18.17	18.32	18.18	0.00	18.50
		1	24	19.25	19.16	19.23	0.00	19.50	18.29	18.38	18.23	0.00	18.50
		12	0	19.11	19.12	19.00	0.00	19.50	18.16	18.44	18.31	0.00	18.50
		12	7	19.16	19.10	19.00	0.00	19.50	18.20	18.43	18.29	0.00	18.50
		12	13	19.19	19.09	19.00	0.00	19.50	18.24	18.39	18.27	0.00	18.50
		25	0	19.19	19.10	18.98	0.00	19.50	18.24	18.39	18.29	0.00	18.50
	16QAM	1	0	19.01	19.24	19.14	0.00	19.50	18.25	18.32	18.43	0.00	18.50
		1	12	19.06	19.16	19.07	0.00	19.50	18.30	18.32	18.40	0.00	18.50
		1	24	19.23	19.21	19.08	0.00	19.50	18.44	18.31	18.36	0.00	18.50
		12	0	18.92	19.02	18.96	0.00	19.50	17.98	18.46	18.34	0.00	18.50
		12	7	18.94	19.01	18.91	0.00	19.50	17.98	18.43	18.31	0.00	18.50
		12	13	19.02	18.99	18.89	0.00	19.50	18.02	18.44	18.32	0.00	18.50
		25	0	18.94	18.93	18.83	0.00	19.50	17.96	18.33	18.23	0.00	18.50
	64QAM	1	0	19.01	19.25	19.11	0.00	19.50	17.61	18.11	18.00	0.00	18.50
		1	12	19.14	19.24	19.11	0.00	19.50	17.72	18.12	18.00	0.00	18.50
		1	24	19.22	19.24	19.09	0.00	19.50	17.80	18.11	17.99	0.00	18.50
		12	0	18.35	18.59	18.43	0.30	19.20	17.52	17.68	17.54	0.00	18.50
		12	7	18.41	18.56	18.42	0.30	19.20	17.57	17.65	17.54	0.00	18.50
		12	13	18.41	18.57	18.37	0.30	19.20	17.61	17.63	17.53	0.00	18.50
		25	0	18.38	18.52	18.34	0.30	19.20	17.53	17.62	17.54	0.00	18.50
	256QAM	1	0	16.41	16.36	16.45	2.30	17.20	16.43	16.33	16.46	1.30	17.20
		1	12	16.38	16.45	16.31	2.30	17.20	16.44	16.48	16.53	1.30	17.20
		1	24	16.46	16.50	16.41	2.30	17.20	16.60	16.54	16.57	1.30	17.20
		12	0	16.34	16.51	16.44	2.30	17.20	16.30	16.53	16.49	1.30	17.20
		12	7	16.41	16.48	16.34	2.30	17.20	16.57	16.47	16.32	1.30	17.20
		12	13	16.43	16.46	16.53	2.30	17.20	16.38	16.43	16.45	1.30	17.20
		25	0	16.34	16.55	16.34	2.30	17.20	16.44	16.31	16.31	1.30	17.20

LTE Band 12 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A {dBm}					Power Mode B {dBm}				
					23095		MPR	Tune-up Limit		23095		MPR	Tune-up Limit
					707.5 MHz					707.5 MHz			
10 MHz	QPSK	1	0		25.48		0.00	25.70		25.48		0.00	25.70
		1	25		25.70		0.00	25.70		25.70		0.00	25.70
		1	49		25.34		0.00	25.70		25.34		0.00	25.70
		25	0		24.11		1.00	24.70		24.11		1.00	24.70
		25	12		24.70		1.00	24.70		24.70		1.00	24.70
		25	25		24.04		1.00	24.70		24.04		1.00	24.70
	16QAM	50	0		24.70		1.00	24.70		24.70		1.00	24.70
		1	0		24.16		1.00	24.70		24.16		1.00	24.70
		1	25		24.02		1.00	24.70		24.02		1.00	24.70
		1	49		24.01		1.00	24.70		24.01		1.00	24.70
		25	0		23.19		2.00	23.70		23.19		2.00	23.70
		25	12		23.23		2.00	23.70		23.23		2.00	23.70
	64QAM	25	25		23.13		2.00	23.70		23.13		2.00	23.70
		50	0		23.17		2.00	23.70		23.17		2.00	23.70
		1	0		23.68		2.00	23.70		23.68		2.00	23.70
		1	25		23.68		2.00	23.70		23.68		2.00	23.70
		1	49		23.60		2.00	23.70		23.60		2.00	23.70
		25	0		22.61		3.00	22.70		22.61		3.00	22.70
	256QAM	25	12		22.66		3.00	22.70		22.66		3.00	22.70
		25	25		22.62		3.00	22.70		22.62		3.00	22.70
		50	0		22.59		3.00	22.70		22.59		3.00	22.70
		1	0		20.60		5.00	20.70		20.60		5.00	20.70
		1	25		20.41		5.00	20.70		20.41		5.00	20.70
		1	49		20.49		5.00	20.70		20.49		5.00	20.70
5 MHz	QPSK	25	0		20.64		5.00	20.70		20.64		5.00	20.70
		25	12		20.67		5.00	20.70		20.67		5.00	20.70
		25	25		20.60		5.00	20.70		20.60		5.00	20.70
		50	0		20.55		5.00	20.70		20.55		5.00	20.70
		1	0	25.63	25.58	25.61	0.00	25.70	25.63	25.58	25.61	0.00	25.70
		1	12	25.51	25.50	25.46	0.00	25.70	25.51	25.50	25.46	0.00	25.70
	16QAM	1	24	25.43	25.50	25.46	0.00	25.70	25.43	25.50	25.46	0.00	25.70
		12	0	24.17	24.05	24.05	1.00	24.70	24.17	24.05	24.05	1.00	24.70
		12	7	24.15	24.11	23.99	1.00	24.70	24.15	24.11	23.99	1.00	24.70
		12	13	24.07	24.03	23.95	1.00	24.70	24.07	24.03	23.95	1.00	24.70
		25	0	24.12	24.11	23.99	1.00	24.70	24.12	24.11	23.99	1.00	24.70
		1	0	24.70	24.29	24.26	1.00	24.70	24.70	24.29	24.26	1.00	24.70
	64QAM	1	12	24.65	24.15	24.12	1.00	24.70	24.65	24.15	24.12	1.00	24.70
		1	24	24.59	24.20	24.12	1.00	24.70	24.59	24.20	24.12	1.00	24.70
		12	0	23.31	23.13	23.13	2.00	23.70	23.31	23.13	23.13	2.00	23.70
		12	7	23.27	23.16	23.08	2.00	23.70	23.27	23.16	23.08	2.00	23.70
		12	13	23.23	23.10	23.02	2.00	23.70	23.23	23.10	23.02	2.00	23.70
		25	0	23.19	23.03	23.02	2.00	23.70	23.19	23.03	23.02	2.00	23.70
	256QAM	1	0	23.68	23.43	23.52	2.00	23.70	23.68	23.43	23.52	2.00	23.70
		1	12	23.56	23.42	23.67	2.00	23.70	23.56	23.42	23.67	2.00	23.70
		1	24	23.43	23.36	23.04	2.00	23.70	23.43	23.36	23.04	2.00	23.70
		12	0	22.45	22.51	22.44	3.00	22.70	22.45	22.51	22.44	3.00	22.70
		12	7	22.42	22.58	22.36	3.00	22.70	22.42	22.58	22.36	3.00	22.70
		12	13	22.59	22.49	22.06	3.00	22.70	22.59	22.49	22.06	3.00	22.70
256QAM	25	0	22.63	22.48	22.16	3.00	22.70	22.63	22.48	22.16	3.00	22.70	
	1	0	20.49	20.56	20.57	5.00	20.70	20.49	20.56	20.57	5.00	20.70	
	1	12	20.64	20.42	20.64	5.00	20.70	20.64	20.42	20.64	5.00	20.70	
	1	24	20.63	20.61	20.47	5.00	20.70	20.63	20.61	20.47	5.00	20.70	
	12	0	20.57	20.41	20.49	5.00	20.70	20.57	20.41	20.49	5.00	20.70	
	12	7	20.42	20.57	20.42	5.00	20.70	20.42	20.57	20.42	5.00	20.70	
256QAM	12	13	20.54	20.44	20.48	5.00	20.70	20.54	20.44	20.48	5.00	20.70	
	25	0	20.52	20.53	20.44	5.00	20.70	20.52	20.53	20.44	5.00	20.70	

LTE Band 12 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				23025.00	23095.00	23165.00	MPR	Tune-up Limit	23025.00	23095.00	23165.00	MPR	Tune-up Limit
				700.5 MHz	707.5 MHz	714.5 MHz			700.5 MHz	707.5 MHz	714.5 MHz		
3 MHz	QPSK	1	0	25.67	25.45	25.50	0.00	25.70	25.67	25.45	25.50	0.00	25.70
		1	8	25.51	25.46	25.39	0.00	25.70	25.51	25.46	25.39	0.00	25.70
		1	14	25.51	25.44	25.37	0.00	25.70	25.51	25.44	25.37	0.00	25.70
		8	0	24.19	24.01	23.98	1.00	24.70	24.19	24.01	23.98	1.00	24.70
		8	4	24.21	24.07	23.98	1.00	24.70	24.21	24.07	23.98	1.00	24.70
		8	7	24.19	24.08	23.97	1.00	24.70	24.19	24.08	23.97	1.00	24.70
	16QAM	15	0	24.17	24.07	23.96	1.00	24.70	24.17	24.07	23.96	1.00	24.70
		1	0	24.30	24.08	24.40	1.00	24.70	24.30	24.08	24.40	1.00	24.70
		1	8	24.17	23.92	24.27	1.00	24.70	24.17	23.92	24.27	1.00	24.70
		1	14	24.12	24.00	24.27	1.00	24.70	24.12	24.00	24.27	1.00	24.70
		8	0	23.25	23.12	23.07	2.00	23.70	23.25	23.12	23.07	2.00	23.70
		8	4	23.24	23.18	23.05	2.00	23.70	23.24	23.18	23.05	2.00	23.70
	64QAM	8	7	23.23	23.17	23.05	2.00	23.70	23.23	23.17	23.05	2.00	23.70
		15	0	23.13	23.08	23.02	2.00	23.70	23.13	23.08	23.02	2.00	23.70
		1	0	23.70	23.51	23.13	2.00	23.70	23.70	23.51	23.13	2.00	23.70
		1	8	23.40	23.48	22.91	2.00	23.70	23.40	23.48	22.91	2.00	23.70
		1	14	23.44	23.45	23.40	2.00	23.70	23.44	23.45	23.40	2.00	23.70
		8	0	22.61	22.53	22.41	3.00	22.70	22.61	22.53	22.41	3.00	22.70
1.4 MHz	QPSK	8	4	22.62	22.58	22.20	3.00	22.70	22.62	22.58	22.20	3.00	22.70
		8	7	22.61	22.57	22.00	3.00	22.70	22.61	22.57	22.00	3.00	22.70
		15	0	22.69	22.49	22.11	3.00	22.70	22.69	22.49	22.11	3.00	22.70
	256QAM	1	0	20.59	20.61	20.54	5.00	20.70	20.59	20.61	20.54	5.00	20.70
		1	8	20.68	20.42	20.57	5.00	20.70	20.68	20.42	20.57	5.00	20.70
		1	14	20.53	20.43	20.67	5.00	20.70	20.53	20.43	20.67	5.00	20.70
	16QAM	8	0	20.65	20.56	20.69	5.00	20.70	20.65	20.56	20.69	5.00	20.70
		8	4	20.47	20.48	20.65	5.00	20.70	20.47	20.48	20.65	5.00	20.70
		8	7	20.52	20.43	20.59	5.00	20.70	20.52	20.43	20.59	5.00	20.70
		15	0	20.40	20.51	20.68	5.00	20.70	20.40	20.51	20.68	5.00	20.70
	64QAM	1	0	23.017.00	23095.00	23173.00	MPR	Tune-up Limit	23017.00	23095.00	23173.00	MPR	Tune-up Limit
		1	8	699.7 MHz	707.5 MHz	715.3 MHz			699.7 MHz	707.5 MHz	715.3 MHz		
	QPSK	1	0	25.06	25.33	25.34	0.00	25.70	25.06	25.33	25.34	0.00	25.70
		1	3	25.56	25.43	25.34	0.00	25.70	25.56	25.43	25.34	0.00	25.70
		1	5	25.47	25.35	25.26	0.00	25.70	25.47	25.35	25.26	0.00	25.70
		3	0	25.53	25.35	25.20	0.00	25.70	25.53	25.35	25.20	0.00	25.70
		3	1	25.55	25.40	25.26	0.00	25.70	25.55	25.40	25.26	0.00	25.70
		3	3	25.54	25.40	25.27	0.00	25.70	25.54	25.40	25.27	0.00	25.70
	16QAM	6	0	24.06	23.96	23.79	1.00	24.70	24.06	23.96	23.79	1.00	24.70
		1	0	24.47	23.94	23.96	1.00	24.70	24.47	23.94	23.96	1.00	24.70
		1	3	24.53	24.08	24.00	1.00	24.70	24.53	24.08	24.00	1.00	24.70
		1	5	24.36	23.98	23.91	1.00	24.70	24.36	23.98	23.91	1.00	24.70
		3	0	24.28	24.17	23.88	1.00	24.70	24.28	24.17	23.88	1.00	24.70
		3	1	24.30	24.20	23.91	1.00	24.70	24.30	24.20	23.91	1.00	24.70
	64QAM	3	3	24.30	24.19	23.89	1.00	24.70	24.30	24.19	23.89	1.00	24.70
		6	0	22.97	23.14	22.98	2.00	23.70	22.97	23.14	22.98	2.00	23.70
		1	0	23.70	23.49	23.16	2.00	23.70	23.70	23.49	23.16	2.00	23.70
		1	3	23.70	23.59	23.08	2.00	23.70	23.70	23.59	23.08	2.00	23.70
		1	5	23.67	23.47	22.80	2.00	23.70	23.67	23.47	22.80	2.00	23.70
		3	0	23.49	23.54	23.15	2.00	23.70	23.49	23.54	23.15	2.00	23.70
	256QAM	3	1	23.52	23.61	23.10	2.00	23.70	23.52	23.61	23.10	2.00	23.70
		3	3	23.52	23.55	22.98	2.00	23.70	23.52	23.55	22.98	2.00	23.70
		6	0	22.61	22.68	21.70	3.00	22.70	22.61	22.68	21.70	3.00	22.70
		1	0	20.45	20.68	20.48	5.00	20.70	20.45	20.68	20.48	5.00	20.70
		1	3	20.42	20.54	20.58	5.00	20.70	20.42	20.54	20.58	5.00	20.70
		1	5	20.57	20.66	20.60	5.00	20.70	20.57	20.66	20.60	5.00	20.70
	256QAM	3	0	20.41	20.56	20.58	5.00	20.70	20.41	20.56	20.58	5.00	20.70
		3	1	20.41	20.52	20.41	5.00	20.70	20.41	20.52	20.41	5.00	20.70
		3	3	20.52	20.69	20.63	5.00	20.70	20.52	20.69	20.63	5.00	20.70
		6	0	20.62	20.42	20.58	5.00	20.70	20.62	20.42	20.58	5.00	20.70

LTE Band 12 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
					23095		MPR	Tune-up Limit		23095		MPR	Tune-up Limit	
					707.5 MHz					707.5 MHz				
10 MHz	QPSK	1	0		23.49		0.00	23.90		23.49		0.00	23.90	
		1	25		23.50		0.00	23.90		23.50		0.00	23.90	
		1	49		23.37		0.00	23.90		23.37		0.00	23.90	
		25	0		22.46		1.00	22.90		22.46		1.00	22.90	
		25	12		22.50		1.00	22.90		22.50		1.00	22.90	
		25	25		22.46		1.00	22.90		22.46		1.00	22.90	
	16QAM	50	0		22.53		1.00	22.90		22.53		1.00	22.90	
		1	0		22.40		1.00	22.90		22.40		1.00	22.90	
		1	25		22.30		1.00	22.90		22.30		1.00	22.90	
		1	49		22.10		1.00	22.90		22.10		1.00	22.90	
		25	0		21.53		2.00	21.90		21.53		2.00	21.90	
		25	12		21.58		2.00	21.90		21.58		2.00	21.90	
	64QAM	25	25		21.46		2.00	21.90		21.46		2.00	21.90	
		50	0		21.57		2.00	21.90		21.57		2.00	21.90	
		1	0		21.13		2.00	21.90		21.13		2.00	21.90	
		1	25		21.12		2.00	21.90		21.12		2.00	21.90	
		1	49		21.03		2.00	21.90		21.03		2.00	21.90	
		25	0		20.50		3.00	20.90		20.50		3.00	20.90	
	256QAM	25	12		20.76		3.00	20.90		20.76		3.00	20.90	
		25	25		20.50		3.00	20.90		20.50		3.00	20.90	
		50	0		20.30		3.00	20.90		20.30		3.00	20.90	
		1	0		18.27		5.00	18.90		18.27		5.00	18.90	
		1	25		18.50		5.00	18.90		18.50		5.00	18.90	
		1	49		18.27		5.00	18.90		18.27		5.00	18.90	
5 MHz	QPSK	25	0		18.49		5.00	18.90		18.49		5.00	18.90	
		25	12		18.28		5.00	18.90		18.28		5.00	18.90	
		25	25		18.48		5.00	18.90		18.48		5.00	18.90	
		50	0		18.39		5.00	18.90		18.39		5.00	18.90	
		1	0		23.50	23.40	23.50	0.00	23.90	23.50	23.40	23.50	0.00	23.90
		1	12		23.44	23.41	23.40	0.00	23.90	23.44	23.41	23.40	0.00	23.90
	16QAM	1	24		23.40	23.42	23.35	0.00	23.90	23.40	23.42	23.35	0.00	23.90
		12	0		22.30	22.44	22.46	1.00	22.90	22.30	22.44	22.46	1.00	22.90
		12	7		22.48	22.50	22.50	1.00	22.90	22.48	22.50	22.50	1.00	22.90
		12	13		22.51	22.45	22.46	1.00	22.90	22.51	22.45	22.46	1.00	22.90
		25	0		22.51	22.45	22.53	1.00	22.90	22.51	22.45	22.53	1.00	22.90
		1	0		22.17	22.20	22.10	1.00	22.90	22.17	22.20	22.10	1.00	22.90
	64QAM	1	12		22.03	22.30	22.20	1.00	22.90	22.03	22.30	22.20	1.00	22.90
		1	24		22.02	22.30	22.20	1.00	22.90	22.02	22.30	22.20	1.00	22.90
		12	0		21.76	21.58	21.56	2.00	21.90	21.76	21.58	21.56	2.00	21.90
		12	7		21.68	21.59	21.44	2.00	21.90	21.68	21.59	21.44	2.00	21.90
		12	13		21.62	21.56	21.42	2.00	21.90	21.62	21.56	21.42	2.00	21.90
		25	0		21.55	21.50	21.40	2.00	21.90	21.55	21.50	21.40	2.00	21.90
	256QAM	1	0		21.35	21.26	21.21	2.00	21.90	21.35	21.26	21.21	2.00	21.90
		1	12		21.18	21.27	21.22	2.00	21.90	21.18	21.27	21.22	2.00	21.90
		1	24		21.17	21.23	21.06	2.00	21.90	21.17	21.23	21.06	2.00	21.90
		12	0		20.04	20.73	20.35	3.00	20.90	20.04	20.73	20.35	3.00	20.90
12		7		19.97	20.86	20.36	3.00	20.90	19.97	20.86	20.36	3.00	20.90	
12		13		19.93	20.87	20.22	3.00	20.90	19.93	20.87	20.22	3.00	20.90	
	25	0		19.96	20.66	20.09	3.00	20.90	19.96	20.66	20.09	3.00	20.90	
	1	0		18.22	18.27	18.29	5.00	18.90	18.22	18.27	18.29	5.00	18.90	
	1	12		18.30	18.34	18.22	5.00	18.90	18.30	18.34	18.22	5.00	18.90	
	1	24		18.47	18.30	18.47	5.00	18.90	18.47	18.30	18.47	5.00	18.90	
	12	0		18.26	18.33	18.40	5.00	18.90	18.26	18.33	18.40	5.00	18.90	
	12	7		18.21	18.29	18.42	5.00	18.90	18.21	18.29	18.42	5.00	18.90	
	12	13		18.36	18.38	18.39	5.00	18.90	18.36	18.38	18.39	5.00	18.90	
	25	0		18.44	18.22	18.35	5.00	18.90	18.44	18.22	18.35	5.00	18.90	

LTE Band 12 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				23025	23095	23165	MPR	Tune-up Limit	23025	23095	23165	MPR	Tune-up Limit
				700.5 MHz	707.5 MHz	714.5 MHz			700.5 MHz	707.5 MHz	714.5 MHz		
3 MHz	QPSK	1	0	23.10	23.35	23.39	0.00	23.90	23.10	23.35	23.39	0.00	23.90
		1	8	23.40	23.34	23.26	0.00	23.90	23.40	23.34	23.26	0.00	23.90
		1	14	23.38	23.36	23.27	0.00	23.90	23.38	23.36	23.27	0.00	23.90
		8	0	22.30	22.45	22.36	1.00	22.90	22.30	22.45	22.36	1.00	22.90
		8	4	22.40	22.47	22.39	1.00	22.90	22.40	22.47	22.39	1.00	22.90
		8	7	22.40	22.46	22.41	1.00	22.90	22.40	22.46	22.41	1.00	22.90
	16QAM	15	0	22.50	22.49	22.34	1.00	22.90	22.50	22.49	22.34	1.00	22.90
		1	0	22.10	22.45	22.30	1.00	22.90	22.10	22.45	22.30	1.00	22.90
		1	8	22.50	22.29	22.10	1.00	22.90	22.50	22.29	22.10	1.00	22.90
		1	14	22.49	22.38	22.30	1.00	22.90	22.49	22.38	22.30	1.00	22.90
		8	0	21.67	21.52	21.46	2.00	21.90	21.67	21.52	21.46	2.00	21.90
		8	4	21.65	21.52	21.43	2.00	21.90	21.65	21.52	21.43	2.00	21.90
	64QAM	8	7	21.63	21.58	21.42	2.00	21.90	21.63	21.58	21.42	2.00	21.90
		15	0	21.52	21.44	21.43	2.00	21.90	21.52	21.44	21.43	2.00	21.90
		1	0	21.48	21.83	21.39	2.00	21.90	21.48	21.83	21.39	2.00	21.90
		1	8	21.29	21.65	21.25	2.00	21.90	21.29	21.65	21.25	2.00	21.90
		1	14	21.24	21.74	21.47	2.00	21.90	21.24	21.74	21.47	2.00	21.90
		8	0	20.59	20.70	20.28	3.00	20.90	20.59	20.70	20.28	3.00	20.90
	256QAM	8	4	20.52	20.79	20.18	3.00	20.90	20.52	20.79	20.18	3.00	20.90
		8	7	20.49	20.76	20.04	3.00	20.90	20.49	20.76	20.04	3.00	20.90
		15	0	20.50	20.82	19.97	3.00	20.90	20.50	20.82	19.97	3.00	20.90
		1	0	18.23	18.33	18.46	5.00	18.90	18.23	18.33	18.46	5.00	18.90
		1	8	18.29	18.27	18.28	5.00	18.90	18.29	18.27	18.28	5.00	18.90
		1	14	18.23	18.36	18.32	5.00	18.90	18.23	18.36	18.32	5.00	18.90
1.4 MHz	QPSK	8	0	18.29	18.27	18.29	5.00	18.90	18.29	18.27	18.29	5.00	18.90
		8	4	18.43	18.21	18.43	5.00	18.90	18.43	18.21	18.43	5.00	18.90
		8	7	18.47	18.22	18.25	5.00	18.90	18.47	18.22	18.25	5.00	18.90
		15	0	18.28	18.35	18.29	5.00	18.90	18.28	18.35	18.29	5.00	18.90
	16QAM	1	0	23.15	23.26	23.16	0.00	23.90	23.15	23.26	23.16	0.00	23.90
		1	3	23.07	23.40	23.19	0.00	23.90	23.07	23.40	23.19	0.00	23.90
		1	5	23.00	23.37	23.11	0.00	23.90	23.00	23.37	23.11	0.00	23.90
		3	0	22.99	23.39	23.18	0.00	23.90	22.99	23.39	23.18	0.00	23.90
		3	1	23.02	23.38	23.18	0.00	23.90	23.02	23.38	23.18	0.00	23.90
		3	3	22.93	23.38	23.15	0.00	23.90	22.93	23.38	23.15	0.00	23.90
	64QAM	6	0	22.04	21.92	22.23	1.00	22.90	22.04	21.92	22.23	1.00	22.90
		1	0	22.23	22.33	22.32	1.00	22.90	22.23	22.33	22.32	1.00	22.90
		1	3	22.18	22.33	22.33	1.00	22.90	22.18	22.33	22.33	1.00	22.90
		1	5	22.12	22.25	22.29	1.00	22.90	22.12	22.25	22.29	1.00	22.90
		3	0	22.05	22.05	22.46	1.00	22.90	22.05	22.05	22.46	1.00	22.90
		3	1	22.17	22.23	22.51	1.00	22.90	22.17	22.23	22.51	1.00	22.90
	256QAM	3	3	22.12	22.13	22.46	1.00	22.90	22.12	22.13	22.46	1.00	22.90
		6	0	21.20	21.82	21.90	2.00	21.90	21.20	21.82	21.90	2.00	21.90
		1	0	21.12	21.23	21.48	2.00	21.90	21.12	21.23	21.48	2.00	21.90
		1	3	21.19	21.34	21.53	2.00	21.90	21.19	21.34	21.53	2.00	21.90
		1	5	20.95	21.28	21.27	2.00	21.90	20.95	21.28	21.27	2.00	21.90
		3	0	21.27	21.05	21.49	2.00	21.90	21.27	21.05	21.49	2.00	21.90
1.4 MHz	64QAM	3	1	21.30	21.12	21.50	2.00	21.90	21.30	21.12	21.50	2.00	21.90
		3	3	21.31	21.09	21.39	2.00	21.90	21.31	21.09	21.39	2.00	21.90
		6	0	20.44	20.90	20.04	3.00	20.90	20.44	20.90	20.04	3.00	20.90
	256QAM	1	0	18.26	18.37	18.29	5.00	18.90	18.26	18.37	18.29	5.00	18.90
		1	3	18.32	18.36	18.38	5.00	18.90	18.32	18.36	18.38	5.00	18.90
		1	5	18.32	18.48	18.39	5.00	18.90	18.32	18.48	18.39	5.00	18.90
	16QAM	3	0	18.33	18.29	18.38	5.00	18.90	18.33	18.29	18.38	5.00	18.90
		3	1	18.50	18.21	18.22	5.00	18.90	18.50	18.21	18.22	5.00	18.90
		3	3	18.46	18.39	18.40	5.00	18.90	18.46	18.39	18.40	5.00	18.90
		6	0	18.32	18.50	18.23	5.00	18.90	18.32	18.50	18.23	5.00	18.90

LTE Band 13 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					23230.0 782 MHz		MPR	Tune-up Limit		23230.0 782 MHz		MPR	Tune-up Limit
10 MHz	QPSK	1	0		24.78		0.00	25.70		24.78		0.00	25.70
		1	25		25.20		0.00	25.70		25.20		0.00	25.70
		1	49		24.77		0.00	25.70		24.77		0.00	25.70
		25	0		24.30		1.00	24.70		24.30		1.00	24.70
		25	12		24.40		1.00	24.70		24.40		1.00	24.70
		25	25		24.33		1.00	24.70		24.33		1.00	24.70
	16QAM	50	0		24.34		1.00	24.70		24.34		1.00	24.70
		1	0		24.34		1.00	24.70		24.34		1.00	24.70
		1	25		24.37		1.00	24.70		24.37		1.00	24.70
		1	49		24.36		1.00	24.70		24.36		1.00	24.70
		25	0		23.44		2.00	23.70		23.44		2.00	23.70
		25	12		23.32		2.00	23.70		23.32		2.00	23.70
	64QAM	25	25		23.44		2.00	23.70		23.44		2.00	23.70
		50	0		23.41		2.00	23.70		23.41		2.00	23.70
		1	0		23.67		2.00	23.70		23.67		2.00	23.70
		1	25		23.70		2.00	23.70		23.70		2.00	23.70
		1	49		23.41		2.00	23.70		23.41		2.00	23.70
		25	0		22.39		3.00	22.70		22.39		3.00	22.70
	256QAM	25	12		22.63		3.00	22.70		22.63		3.00	22.70
		25	25		22.53		3.00	22.70		22.53		3.00	22.70
		50	0		22.24		3.00	22.70		22.24		3.00	22.70
		1	0		20.46		5.00	20.70		20.46		5.00	20.70
		1	25		20.61		5.00	20.70		20.61		5.00	20.70
		1	49		20.48		5.00	20.70		20.48		5.00	20.70
5 MHz	QPSK	25	0		20.53		5.00	20.70		20.53		5.00	20.70
		25	12		20.49		5.00	20.70		20.49		5.00	20.70
		25	25		20.63		5.00	20.70		20.63		5.00	20.70
		50	0		20.45		5.00	20.70		20.45		5.00	20.70
		1	0		24.92		0.00	25.70		24.92		0.00	25.70
		1	12		24.94		0.00	25.70		24.94		0.00	25.70
	16QAM	1	24		24.92		0.00	25.70		24.92		0.00	25.70
		12	0		24.49		1.00	24.70		24.49		1.00	24.70
		12	7		24.50		1.00	24.70		24.50		1.00	24.70
		12	13		24.47		1.00	24.70		24.47		1.00	24.70
		12	0		24.52		1.00	24.70		24.52		1.00	24.70
		1	0		24.57		1.00	24.70		24.57		1.00	24.70
	64QAM	1	12		24.69		1.00	24.70		24.69		1.00	24.70
		1	24		24.61		1.00	24.70		24.61		1.00	24.70
		12	0		23.53		2.00	23.70		23.53		2.00	23.70
		12	7		23.55		2.00	23.70		23.55		2.00	23.70
		12	13		23.51		2.00	23.70		23.51		2.00	23.70
		25	0		23.44		2.00	23.70		23.44		2.00	23.70
	256QAM	1	0		23.45		2.00	23.70		23.45		2.00	23.70
		1	12		23.64		2.00	23.70		23.64		2.00	23.70
		1	24		23.62		2.00	23.70		23.62		2.00	23.70
		12	0		22.57		3.00	22.70		22.57		3.00	22.70
		12	7		22.70		3.00	22.70		22.70		3.00	22.70
		12	13		22.70		3.00	22.70		22.70		3.00	22.70
	25	0		22.55		3.00	22.70		22.55		3.00	22.70	
	1	0		20.70		5.00	20.70		20.70		5.00	20.70	
	1	12		20.61		5.00	20.70		20.61		5.00	20.70	
	1	24		20.48		5.00	20.70		20.48		5.00	20.70	
	12	0		20.40		5.00	20.70		20.40		5.00	20.70	
	12	7		20.62		5.00	20.70		20.62		5.00	20.70	
	12	13		20.41		5.00	20.70		20.41		5.00	20.70	
	25	0		20.54		5.00	20.70		20.54		5.00	20.70	

LTE Band 13 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					23230 782 MHz		MPR	Tune-up Limit		23230 782 MHz		MPR	Tune-up Limit
10 MHz	QPSK	1	0		23.42		0.00	23.90		23.42		0.00	23.90
		1	25		23.50		0.00	23.90		23.50		0.00	23.90
		1	49		23.39		0.00	23.90		23.39		0.00	23.90
		25	0		22.51		1.00	22.90		22.51		1.00	22.90
		25	12		22.60		1.00	22.90		22.60		1.00	22.90
		25	25		22.54		1.00	22.90		22.54		1.00	22.90
	16QAM	50	0		22.56		1.00	22.90		22.56		1.00	22.90
		1	0		22.22		1.00	22.90		22.22		1.00	22.90
		1	25		22.30		1.00	22.90		22.30		1.00	22.90
		1	49		22.32		1.00	22.90		22.32		1.00	22.90
		25	0		21.77		2.00	21.90		21.77		2.00	21.90
		25	12		21.83		2.00	21.90		21.83		2.00	21.90
	64QAM	25	25		21.79		2.00	21.90		21.79		2.00	21.90
		50	0		21.83		2.00	21.90		21.83		2.00	21.90
		1	0		21.41		2.00	21.90		21.41		2.00	21.90
		1	25		21.58		2.00	21.90		21.58		2.00	21.90
		1	49		21.68		2.00	21.90		21.68		2.00	21.90
		25	0		20.60		3.00	20.90		20.60		3.00	20.90
	256QAM	25	12		20.85		3.00	20.90		20.85		3.00	20.90
		25	25		20.69		3.00	20.90		20.69		3.00	20.90
		50	0		20.43		3.00	20.90		20.43		3.00	20.90
		1	0		18.36		5.00	18.90		18.36		5.00	18.90
		1	25		18.37		5.00	18.90		18.37		5.00	18.90
		1	49		18.50		5.00	18.90		18.50		5.00	18.90
5 MHz	QPSK	25	0		18.23		5.00	18.90		18.23		5.00	18.90
		25	12		18.37		5.00	18.90		18.37		5.00	18.90
		25	25		18.21		5.00	18.90		18.21		5.00	18.90
		50	0		18.39		5.00	18.90		18.39		5.00	18.90
		1	0		23.47		0.00	23.90		23.47		0.00	23.90
		1	12		23.41		0.00	23.90		23.41		0.00	23.90
	16QAM	1	24		23.47		0.00	23.90		23.47		0.00	23.90
		12	0		22.55		1.00	22.90		22.55		1.00	22.90
		12	7		22.57		1.00	22.90		22.57		1.00	22.90
		12	13		22.54		1.00	22.90		22.54		1.00	22.90
		25	0		22.58		1.00	22.90		22.58		1.00	22.90
		1	0		22.72		1.00	22.90		22.72		1.00	22.90
	64QAM	1	12		22.66		1.00	22.90		22.66		1.00	22.90
		1	24		22.68		1.00	22.90		22.68		1.00	22.90
		12	0		21.79		2.00	21.90		21.79		2.00	21.90
		12	7		21.85		2.00	21.90		21.85		2.00	21.90
		12	13		21.82		2.00	21.90		21.82		2.00	21.90
		25	0		21.75		2.00	21.90		21.75		2.00	21.90
	256QAM	1	0		21.70		2.00	21.90		21.70		2.00	21.90
		1	12		21.82		2.00	21.90		21.82		2.00	21.90
		1	24		21.64		2.00	21.90		21.64		2.00	21.90
		12	0		20.63		3.00	20.90		20.63		3.00	20.90
		12	7		20.81		3.00	20.90		20.81		3.00	20.90
		12	13		20.67		3.00	20.90		20.67		3.00	20.90
	QPSK	25	0		20.52		3.00	20.90		20.52		3.00	20.90
		1	0		18.39		5.00	18.90		18.39		5.00	18.90
		1	12		18.29		5.00	18.90		18.29		5.00	18.90
		1	24		18.39		5.00	18.90		18.39		5.00	18.90
		12	0		18.27		5.00	18.90		18.27		5.00	18.90
		12	7		18.41		5.00	18.90		18.41		5.00	18.90
	16QAM	12	13		18.30		5.00	18.90		18.30		5.00	18.90
		25	0		18.32		5.00	18.90		18.32		5.00	18.90

LTE Band 14 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					23330 793 MHz		MPR	Tune-up Limit		23330 793 MHz		MPR	Tune-up Limit
10 MHz	QPSK	1	0		25.03		0.00	25.70		25.03		0.00	25.70
		1	25		25.20		0.00	25.70		25.20		0.00	25.70
		1	49		24.89		0.00	25.70		24.89		0.00	25.70
		25	0		24.15		1.00	24.70		24.15		1.00	24.70
		25	12		24.40		1.00	24.70		24.40		1.00	24.70
		25	25		24.17		1.00	24.70		24.17		1.00	24.70
	16QAM	50	0		24.20		1.00	24.70		24.20		1.00	24.70
		1	0		24.36		1.00	24.70		24.36		1.00	24.70
		1	25		24.30		1.00	24.70		24.30		1.00	24.70
		1	49		24.34		1.00	24.70		24.34		1.00	24.70
		25	0		23.22		2.00	23.70		23.22		2.00	23.70
		25	12		23.30		2.00	23.70		23.30		2.00	23.70
	64QAM	25	25		23.23		2.00	23.70		23.23		2.00	23.70
		50	0		23.27		2.00	23.70		23.27		2.00	23.70
		1	0		23.47		2.00	23.70		23.47		2.00	23.70
		1	25		23.46		2.00	23.70		23.46		2.00	23.70
		1	49		23.43		2.00	23.70		23.43		2.00	23.70
		25	0		22.29		3.00	22.70		22.29		3.00	22.70
	256QAM	25	12		22.43		3.00	22.70		22.43		3.00	22.70
		25	25		22.41		3.00	22.70		22.41		3.00	22.70
		50	0		22.36		3.00	22.70		22.36		3.00	22.70
		1	0		20.60		5.00	20.70		20.60		5.00	20.70
		1	25		20.51		5.00	20.70		20.51		5.00	20.70
		1	49		20.66		5.00	20.70		20.66		5.00	20.70
5 MHz	QPSK	25	0		20.50		5.00	20.70		20.50		5.00	20.70
		25	12		20.57		5.00	20.70		20.57		5.00	20.70
		25	25		20.63		5.00	20.70		20.63		5.00	20.70
		50	0		20.46		5.00	20.70		20.46		5.00	20.70
		1	0		24.96		0.00	25.70		24.96		0.00	25.70
		1	12		24.96		0.00	25.70		24.96		0.00	25.70
	16QAM	1	24		24.95		0.00	25.70		24.95		0.00	25.70
		12	0		24.45		1.00	24.70		24.45		1.00	24.70
		12	7		24.51		1.00	24.70		24.51		1.00	24.70
		12	13		24.44		1.00	24.70		24.44		1.00	24.70
		25	0		24.44		1.00	24.70		24.44		1.00	24.70
		1	0		24.64		1.00	24.70		24.64		1.00	24.70
	64QAM	1	12		24.67		1.00	24.70		24.67		1.00	24.70
		1	24		24.64		1.00	24.70		24.64		1.00	24.70
		12	0		23.48		2.00	23.70		23.48		2.00	23.70
		12	7		23.57		2.00	23.70		23.57		2.00	23.70
		12	13		23.53		2.00	23.70		23.53		2.00	23.70
		25	0		23.43		2.00	23.70		23.43		2.00	23.70
	256QAM	1	0		23.68		2.00	23.70		23.68		2.00	23.70
		1	12		23.15		2.00	23.70		23.15		2.00	23.70
		1	24		23.11		2.00	23.70		23.11		2.00	23.70
		12	0		21.85		3.00	22.70		21.85		3.00	22.70
		12	7		21.97		3.00	22.70		21.97		3.00	22.70
		12	13		21.90		3.00	22.70		21.90		3.00	22.70
	25	0		21.85		3.00	22.70		21.85		3.00	22.70	
	1	0		20.59		5.00	20.70		20.59		5.00	20.70	
	1	12		20.41		5.00	20.70		20.41		5.00	20.70	
	1	24		20.62		5.00	20.70		20.62		5.00	20.70	
	12	0		20.64		5.00	20.70		20.64		5.00	20.70	
	12	7		20.69		5.00	20.70		20.69		5.00	20.70	
	12	13		20.64		5.00	20.70		20.64		5.00	20.70	
	25	0		20.64		5.00	20.70		20.64		5.00	20.70	

LTE Band 14 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					23330 793 MHz		MPR	Tune-up Limit		23330 793 MHz		MPR	Tune-up Limit
10 MHz	QPSK	1	0		23.58		0.00	23.90		23.58		0.00	23.90
		1	25		23.60		0.00	23.90		23.60		0.00	23.90
		1	49		23.56		0.00	23.90		23.56		0.00	23.90
		25	0		22.52		1.00	22.90		22.52		1.00	22.90
		25	12		22.56		1.00	22.90		22.56		1.00	22.90
		25	25		22.54		1.00	22.90		22.54		1.00	22.90
	16QAM	50	0		22.55		1.00	22.90		22.55		1.00	22.90
		1	0		22.30		1.00	22.90		22.30		1.00	22.90
		1	25		22.40		1.00	22.90		22.40		1.00	22.90
		1	49		22.23		1.00	22.90		22.23		1.00	22.90
		25	0		21.56		2.00	21.90		21.56		2.00	21.90
		25	12		21.63		2.00	21.90		21.63		2.00	21.90
	64QAM	25	25		21.63		2.00	21.90		21.63		2.00	21.90
		50	0		21.61		2.00	21.90		21.61		2.00	21.90
		1	0		21.44		2.00	21.90		21.44		2.00	21.90
		1	25		21.70		2.00	21.90		21.70		2.00	21.90
		1	49		21.77		2.00	21.90		21.77		2.00	21.90
		25	0		20.51		3.00	20.90		20.51		3.00	20.90
	256QAM	25	12		20.81		3.00	20.90		20.81		3.00	20.90
		25	25		20.41		3.00	20.90		20.41		3.00	20.90
		50	0		20.66		3.00	20.90		20.66		3.00	20.90
		1	0		18.41		5.00	18.90		18.41		5.00	18.90
		1	25		18.33		5.00	18.90		18.33		5.00	18.90
		1	49		18.31		5.00	18.90		18.31		5.00	18.90
5 MHz	256QAM	25	0		18.26		5.00	18.90		18.26		5.00	18.90
		25	12		18.36		5.00	18.90		18.36		5.00	18.90
		25	25		18.31		5.00	18.90		18.31		5.00	18.90
		50	0		18.42		5.00	18.90		18.42		5.00	18.90
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					23330 793 MHz		MPR	Tune-up Limit		23330 793 MHz		MPR	Tune-up Limit
5 MHz	QPSK	1	0		23.30		0.00	23.90		23.30		0.00	23.90
		1	12		23.40		0.00	23.90		23.40		0.00	23.90
		1	24		23.22		0.00	23.90		23.22		0.00	23.90
		12	0		22.52		1.00	22.90		22.52		1.00	22.90
		12	7		22.51		1.00	22.90		22.51		1.00	22.90
		12	13		22.50		1.00	22.90		22.50		1.00	22.90
		25	0		22.30		1.00	22.90		22.30		1.00	22.90
	16QAM	1	0		22.40		1.00	22.90		22.40		1.00	22.90
		1	12		22.30		1.00	22.90		22.30		1.00	22.90
		1	24		22.32		1.00	22.90		22.32		1.00	22.90
		12	0		21.64		2.00	21.90		21.64		2.00	21.90
		12	7		21.70		2.00	21.90		21.70		2.00	21.90
		12	13		21.67		2.00	21.90		21.67		2.00	21.90
	64QAM	25	0		21.62		2.00	21.90		21.62		2.00	21.90
		1	0		21.63		2.00	21.90		21.63		2.00	21.90
		1	12		21.67		2.00	21.90		21.67		2.00	21.90
		1	24		21.78		2.00	21.90		21.78		2.00	21.90
		12	0		20.58		3.00	20.90		20.58		3.00	20.90
		12	7		20.86		3.00	20.90		20.86		3.00	20.90
	256QAM	12	13		20.85		3.00	20.90		20.85		3.00	20.90
		25	0		20.83		3.00	20.90		20.83		3.00	20.90
		1	0		18.48		5.00	18.90		18.48		5.00	18.90
		1	12		18.35		5.00	18.90		18.35		5.00	18.90
		1	24		18.33		5.00	18.90		18.33		5.00	18.90
12		0		18.29		5.00	18.90		18.29		5.00	18.90	
12		7		18.23		5.00	18.90		18.23		5.00	18.90	
5 MHz	256QAM	12	13		18.21		5.00	18.90		18.21		5.00	18.90
		25	0		18.23		5.00	18.90		18.23		5.00	18.90

LTE Band 25 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26140	26365	26590	MPR	Tune-up Limit	26140	26365	26590	MPR	Tune-up Limit
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	QPSK	1	0	25.63	25.53	25.55	0.00	25.70	20.45	20.35	20.39	0.00	21.00
		1	49	25.59	25.70	25.52	0.00	25.70	20.60	20.60	20.60	0.00	21.00
		1	99	25.56	25.47	25.51	0.00	25.70	20.37	20.32	20.32	0.00	21.00
		50	0	24.24	24.04	24.09	1.00	24.70	20.55	20.38	20.37	0.00	21.00
		50	24	24.26	24.70	24.09	1.00	24.70	20.60	20.60	20.60	0.00	21.00
		50	50	24.20	24.07	24.14	1.00	24.70	20.51	20.43	20.40	0.00	21.00
	16QAM	100	0	24.24	24.40	24.10	1.00	24.70	20.54	20.60	20.35	0.00	21.00
		1	0	24.57	24.62	24.61	1.00	24.70	20.42	20.50	20.39	0.00	21.00
		1	49	24.56	24.56	24.57	1.00	24.70	20.37	20.45	20.43	0.00	21.00
		1	99	24.53	24.54	24.53	1.00	24.70	20.37	20.41	20.28	0.00	21.00
		50	0	23.49	23.59	23.64	2.00	23.70	20.51	20.42	20.38	0.00	21.00
		50	24	23.57	23.67	23.63	2.00	23.70	20.50	20.48	20.38	0.00	21.00
	64QAM	50	50	23.53	23.63	23.68	2.00	23.70	20.45	20.44	20.41	0.00	21.00
		100	0	23.57	23.67	23.62	2.00	23.70	20.52	20.47	20.34	0.00	21.00
		1	0	23.33	23.33	23.55	2.00	23.70	20.17	20.00	20.50	0.00	21.00
		1	49	23.39	23.39	23.22	2.00	23.70	20.46	20.29	20.41	0.00	21.00
		1	99	23.26	23.47	23.51	2.00	23.70	20.31	20.04	20.44	0.00	21.00
		50	0	22.04	21.94	21.99	3.00	22.70	20.54	20.30	20.08	0.00	21.00
	256QAM	50	24	21.96	21.72	21.79	3.00	22.70	20.55	20.28	20.05	0.00	21.00
		50	50	22.10	21.97	21.94	3.00	22.70	20.50	20.07	20.42	0.00	21.00
		100	0	22.04	21.98	21.70	3.00	22.70	20.47	20.02	20.16	0.00	21.00
		1	0	20.57	20.45	20.51	5.00	20.70	20.68	20.68	20.49	0.30	20.70
		1	49	20.62	20.54	20.53	5.00	20.70	20.55	20.41	20.64	0.30	20.70
		1	99	20.59	20.48	20.57	5.00	20.70	20.50	20.58	20.56	0.30	20.70
15 MHz	QPSK	50	0	20.55	20.65	20.65	5.00	20.70	20.53	20.43	20.56	0.30	20.70
		50	24	20.56	20.63	20.57	5.00	20.70	20.47	20.45	20.54	0.30	20.70
		50	50	20.64	20.50	20.49	5.00	20.70	20.48	20.59	20.47	0.30	20.70
		100	0	20.57	20.62	20.46	5.00	20.70	20.63	20.49	20.69	0.30	20.70
	16QAM	Power Mode A (dBm)					Power Mode B (dBm)						
		26115.00	26365.00	26615.00	MPR	Tune-up Limit	26115.00	26365.00	26615.00	MPR	Tune-up Limit		
		1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz				
		1	0	25.65	25.51	25.57	0.00	25.70	20.45	20.29	20.33	0.00	21.00
		1	37	25.66	25.49	25.49	0.00	25.70	20.46	20.29	20.31	0.00	21.00
		1	74	25.66	25.47	25.55	0.00	25.70	20.43	20.30	20.31	0.00	21.00
		36	0	24.27	24.07	24.08	1.00	24.70	20.57	20.37	20.37	0.00	21.00
		36	20	24.26	24.04	24.08	1.00	24.70	20.55	20.35	20.34	0.00	21.00
		36	39	24.21	24.07	24.08	1.00	24.70	20.50	20.39	20.37	0.00	21.00
		75	0	24.19	24.08	24.03	1.00	24.70	20.48	20.38	20.34	0.00	21.00
		1	0	24.58	23.98	24.48	1.00	24.70	20.50	20.34	20.50	0.00	21.00
		1	37	24.64	23.98	24.47	1.00	24.70	20.50	20.27	20.50	0.00	21.00
		1	74	24.68	24.00	24.44	1.00	24.70	20.50	20.30	20.50	0.00	21.00
		36	0	23.47	23.57	23.66	2.00	23.70	20.52	20.33	20.38	0.00	21.00
	64QAM	36	20	23.46	23.58	23.66	2.00	23.70	20.50	20.35	20.37	0.00	21.00
		36	39	23.42	23.58	23.67	2.00	23.70	20.45	20.38	20.39	0.00	21.00
		75	0	23.45	23.62	23.63	2.00	23.70	20.49	20.42	20.29	0.00	21.00
		1	0	23.58	22.70	23.18	2.00	23.70	20.57	20.00	20.40	0.00	21.00
		1	37	23.44	22.78	23.27	2.00	23.70	20.36	20.00	20.41	0.00	21.00
		1	74	23.58	23.00	23.04	2.00	23.70	20.31	20.04	20.34	0.00	21.00
	256QAM	36	0	22.07	22.17	22.36	3.00	22.70	20.50	20.00	20.00	0.00	21.00
		36	20	22.16	22.28	22.26	3.00	22.70	20.45	20.28	20.00	0.00	21.00
		36	39	22.22	22.18	22.47	3.00	22.70	20.44	20.37	20.32	0.00	21.00
		75	0	22.15	22.52	22.23	3.00	22.70	20.57	20.42	20.26	0.00	21.00
		1	0	20.59	20.53	20.56	5.00	20.70	20.47	20.70	20.62	0.30	20.70
		1	37	20.44	20.70	20.51	5.00	20.70	20.63	20.68	20.63	0.30	20.70
	256QAM	1	74	20.41	20.50	20.59	5.00	20.70	20.56	20.51	20.44	0.30	20.70
		36	0	20.41	20.50	20.62	5.00	20.70	20.55	20.63	20.41	0.30	20.70
		36	20	20.54	20.60	20.58	5.00	20.70	20.40	20.66	20.69	0.30	20.70
		36	39	20.57	20.60	20.45	5.00	20.70	20.59	20.57	20.53	0.30	20.70
		75	0	20.42	20.59	20.61	5.00	20.70	20.67	20.62	20.70	0.30	20.70

LTE Band 25 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26090.00	26365.00	26640.00	MPR	Tune-up Limit	26090.00	26365.00	26640.00	MPR	Tune-up Limit
				1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
10 MHz	QPSK	1	0	25.59	25.50	25.46	0.00	25.70	20.36	20.31	20.29	0.00	21.00
		1	25	25.57	25.42	25.47	0.00	25.70	20.32	20.25	20.27	0.00	21.00
		1	49	25.54	25.56	25.52	0.00	25.70	20.32	20.32	20.33	0.00	21.00
		25	0	24.23	24.03	24.02	1.00	24.70	20.51	20.34	20.30	0.00	21.00
		25	12	24.27	24.14	24.04	1.00	24.70	20.52	20.44	20.31	0.00	21.00
		25	25	24.25	24.10	24.10	1.00	24.70	20.52	20.43	20.38	0.00	21.00
	16QAM	50	0	24.24	24.09	24.03	1.00	24.70	20.51	20.40	20.31	0.00	21.00
		1	0	24.25	23.97	24.42	1.00	24.70	20.57	20.32	20.20	0.00	21.00
		1	25	24.19	23.93	24.42	1.00	24.70	20.46	20.29	20.40	0.00	21.00
		1	49	24.22	24.00	24.43	1.00	24.70	20.51	20.34	20.30	0.00	21.00
		25	0	23.44	23.56	23.59	2.00	23.70	20.64	20.40	20.38	0.00	21.00
		25	12	23.57	23.67	23.58	2.00	23.70	20.65	20.48	20.35	0.00	21.00
	64QAM	25	25	23.58	23.66	23.67	2.00	23.70	20.64	20.47	20.42	0.00	21.00
		50	0	23.52	23.61	23.60	2.00	23.70	20.57	20.42	20.36	0.00	21.00
		1	0	23.53	23.13	23.35	2.00	23.70	20.17	20.00	20.50	0.00	21.00
		1	25	23.39	23.09	23.12	2.00	23.70	20.16	20.09	20.41	0.00	21.00
		1	49	23.16	23.17	23.31	2.00	23.70	20.41	20.34	20.34	0.00	21.00
		25	0	22.14	21.84	22.09	3.00	22.70	20.34	20.00	20.28	0.00	21.00
	256QAM	25	12	22.16	22.02	21.99	3.00	22.70	20.65	20.48	20.35	0.00	21.00
		25	25	22.10	22.07	22.04	3.00	22.70	20.24	20.17	20.02	0.00	21.00
		50	0	22.24	21.78	21.90	3.00	22.70	20.57	20.42	20.06	0.00	21.00
		1	0	20.41	20.58	20.64	5.00	20.70	20.48	20.51	20.70	0.30	20.70
		1	25	20.58	20.49	20.55	5.00	20.70	20.59	20.54	20.69	0.30	20.70
		1	49	20.46	20.57	20.41	5.00	20.70	20.70	20.56	20.58	0.30	20.70
5 MHz	QPSK	25	0	20.64	20.66	20.42	5.00	20.70	20.45	20.48	20.52	0.30	20.70
		25	12	20.40	20.62	20.49	5.00	20.70	20.50	20.61	20.44	0.30	20.70
		25	25	20.63	20.49	20.57	5.00	20.70	20.69	20.43	20.70	0.30	20.70
		50	0	20.63	20.69	20.63	5.00	20.70	20.44	20.68	20.66	0.30	20.70
	16QAM	1	0	25.67	25.52	25.49	0.00	25.70	20.20	20.11	20.02	0.00	21.00
		1	12	25.64	25.58	25.46	0.00	25.70	20.19	20.15	20.05	0.00	21.00
		1	24	25.70	25.64	25.49	0.00	25.70	20.26	20.22	20.00	0.00	21.00
		12	0	24.18	23.96	24.04	1.00	24.70	20.23	20.07	20.05	0.00	21.00
		12	7	24.21	24.09	24.06	1.00	24.70	20.30	20.15	20.14	0.00	21.00
		12	13	24.24	24.12	24.09	1.00	24.70	20.31	20.20	20.16	0.00	21.00
	64QAM	25	0	24.23	24.06	24.08	1.00	24.70	20.23	20.14	20.11	0.00	21.00
		1	0	24.34	24.20	24.57	1.00	24.70	20.40	20.30	20.50	0.00	21.00
		1	12	24.35	24.20	24.55	1.00	24.70	20.36	20.32	20.49	0.00	21.00
		1	24	24.39	24.24	24.57	1.00	24.70	20.45	20.39	20.47	0.00	21.00
		12	0	23.52	23.55	23.48	2.00	23.70	20.30	20.16	20.22	0.00	21.00
		12	7	23.58	23.68	23.56	2.00	23.70	20.34	20.26	20.28	0.00	21.00
	256QAM	12	13	23.69	23.70	23.59	2.00	23.70	20.36	20.25	20.30	0.00	21.00
		25	0	23.41	23.59	23.46	2.00	23.70	20.24	20.20	20.21	0.00	21.00
		1	0	23.60	23.54	23.38	2.00	23.70	20.02	20.30	20.39	0.00	21.00
		1	12	23.51	23.24	23.46	2.00	23.70	20.00	20.45	20.03	0.00	21.00
		1	24	23.28	23.35	23.46	2.00	23.70	20.27	20.31	20.28	0.00	21.00
		12	0	22.70	22.62	22.32	3.00	22.70	20.26	20.00	20.00	0.00	21.00
	16QAM	12	7	22.60	22.40	22.29	3.00	22.70	20.05	20.23	20.03	0.00	21.00
		12	13	22.35	22.44	22.52	3.00	22.70	20.00	20.00	20.00	0.00	21.00
		25	0	22.70	22.63	22.19	3.00	22.70	20.17	20.00	20.00	0.00	21.00
	256QAM	1	0	20.40	20.55	20.58	5.00	20.70	20.41	20.56	20.68	0.30	20.70
		1	12	20.62	20.57	20.42	5.00	20.70	20.69	20.58	20.43	0.30	20.70
		1	24	20.65	20.61	20.41	5.00	20.70	20.63	20.42	20.65	0.30	20.70
		12	0	20.62	20.50	20.57	5.00	20.70	20.66	20.64	20.47	0.30	20.70
	64QAM	12	7	20.41	20.42	20.62	5.00	20.70	20.51	20.45	20.54	0.30	20.70
		12	13	20.47	20.52	20.66	5.00	20.70	20.59	20.66	20.53	0.30	20.70
		25	0	20.44	20.67	20.44	5.00	20.70	20.65	20.68	20.41	0.30	20.70

LTE Band 25 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26055.00	26365.00	26675.00	MPR	Tune-up Limit	26055.00	26365.00	26675.00	MPR	Tune-up Limit
				1851.5 MHz	1882.5 MHz	1913.5 MHz			1851.5 MHz	1882.5 MHz	1913.5 MHz		
3 MHz	QPSK	1	0	25.51	25.39	25.45	0.00	25.70	20.09	20.02	20.00	0.00	21.00
		1	8	25.54	25.39	25.45	0.00	25.70	20.09	20.00	20.08	0.00	21.00
		1	14	25.61	25.57	25.53	0.00	25.70	20.21	20.16	20.11	0.00	21.00
		8	0	24.13	23.99	24.00	1.00	24.70	20.16	20.10	20.06	0.00	21.00
		8	4	24.19	24.04	24.06	1.00	24.70	20.26	20.16	20.13	0.00	21.00
		8	7	24.21	24.08	24.09	1.00	24.70	20.28	20.21	20.14	0.00	21.00
	16QAM	15	0	24.15	24.02	24.05	1.00	24.70	20.23	20.15	20.09	0.00	21.00
		1	0	24.17	23.92	24.36	1.00	24.70	20.25	20.04	20.41	0.00	21.00
		1	8	24.16	23.95	24.37	1.00	24.70	20.23	20.07	20.45	0.00	21.00
		1	14	24.27	24.02	24.49	1.00	24.70	20.33	20.16	20.50	0.00	21.00
		8	0	23.54	23.65	23.64	2.00	23.70	20.28	20.23	20.18	0.00	21.00
		8	4	23.64	23.67	23.67	2.00	23.70	20.33	20.29	20.23	0.00	21.00
	64QAM	8	7	23.65	23.69	23.70	2.00	23.70	20.39	20.33	20.27	0.00	21.00
		15	0	23.44	23.60	23.64	2.00	23.70	20.24	20.19	20.15	0.00	21.00
		1	0	23.38	22.88	23.18	2.00	23.70	20.42	20.40	20.00	0.00	21.00
		1	8	23.44	22.78	23.17	2.00	23.70	20.00	20.35	20.43	0.00	21.00
		1	14	23.58	23.60	23.14	2.00	23.70	20.27	20.31	20.00	0.00	21.00
		8	0	22.07	22.37	22.36	3.00	22.70	20.21	20.12	20.38	0.00	21.00
	256QAM	8	4	22.46	22.18	22.56	3.00	22.70	20.40	20.18	20.28	0.00	21.00
		8	7	22.22	22.48	22.47	3.00	22.70	20.05	20.14	20.11	0.00	21.00
		15	0	22.35	22.22	22.23	3.00	22.70	20.12	20.17	20.14	0.00	21.00
		1	0	20.47	20.54	20.48	5.00	20.70	20.50	20.50	20.45	0.30	20.70
		1	8	20.64	20.57	20.66	5.00	20.70	20.67	20.68	20.69	0.30	20.70
		1	14	20.57	20.59	20.67	5.00	20.70	20.44	20.40	20.49	0.30	20.70
1.4 MHz	QPSK	8	0	20.65	20.40	20.45	5.00	20.70	20.52	20.69	20.48	0.30	20.70
		8	4	20.41	20.53	20.49	5.00	20.70	20.65	20.61	20.66	0.30	20.70
		8	7	20.42	20.41	20.53	5.00	20.70	20.64	20.67	20.67	0.30	20.70
		15	0	20.42	20.53	20.64	5.00	20.70	20.44	20.46	20.57	0.30	20.70
	16QAM	1	0	25.47	25.43	25.37	0.00	25.70	20.28	20.20	20.19	0.00	21.00
		1	3	25.57	25.50	25.46	0.00	25.70	20.36	20.28	20.26	0.00	21.00
		1	5	25.57	25.47	25.46	0.00	25.70	20.35	20.25	20.26	0.00	21.00
		3	0	25.56	25.38	25.34	0.00	25.70	20.31	20.18	20.11	0.00	21.00
		3	1	25.57	25.43	25.39	0.00	25.70	20.36	20.27	20.20	0.00	21.00
		3	3	25.61	25.46	25.46	0.00	25.70	20.37	20.27	20.20	0.00	21.00
	64QAM	6	0	24.11	24.01	23.98	1.00	24.70	20.37	20.34	20.27	0.00	21.00
		1	0	24.44	24.10	23.93	1.00	24.70	20.46	20.31	20.34	0.00	21.00
		1	3	24.54	24.17	24.06	1.00	24.70	20.50	20.42	20.40	0.00	21.00
		1	5	24.53	24.15	24.04	1.00	24.70	20.50	20.38	20.41	0.00	21.00
		3	0	24.27	24.02	24.16	1.00	24.70	20.35	20.49	20.27	0.00	21.00
		3	1	24.32	24.06	24.20	1.00	24.70	20.40	20.55	20.37	0.00	21.00
	256QAM	3	3	24.35	24.09	24.24	1.00	24.70	20.40	20.55	20.41	0.00	21.00
		6	0	23.14	23.45	23.45	2.00	23.70	20.34	20.51	20.46	0.00	21.00
		1	0	23.29	23.50	23.26	2.00	23.70	20.27	20.75	20.24	0.00	21.00
		1	3	23.47	23.12	23.07	2.00	23.70	20.22	20.50	20.48	0.00	21.00
		1	5	23.54	23.26	23.42	2.00	23.70	20.42	20.46	20.23	0.00	21.00
		3	0	23.33	23.03	23.12	2.00	23.70	20.31	20.32	20.18	0.00	21.00
	64QAM	3	1	23.17	22.94	22.84	2.00	23.70	20.30	20.28	20.00	0.00	21.00
		3	3	23.25	23.10	23.00	2.00	23.70	20.05	20.14	20.31	0.00	21.00
		6	0	22.24	21.89	21.73	3.00	22.70	20.52	20.47	20.24	0.00	21.00
	256QAM	1	0	20.58	20.48	20.59	5.00	20.70	20.47	20.50	20.43	0.30	20.70
		1	3	20.59	20.61	20.66	5.00	20.70	20.51	20.66	20.47	0.30	20.70
		1	5	20.43	20.58	20.65	5.00	20.70	20.51	20.66	20.57	0.30	20.70
		3	0	20.52	20.59	20.44	5.00	20.70	20.49	20.43	20.70	0.30	20.70
	256QAM	3	1	20.56	20.47	20.45	5.00	20.70	20.40	20.62	20.55	0.30	20.70
		3	3	20.60	20.56	20.66	5.00	20.70	20.51	20.43	20.48	0.30	20.70
		6	0	20.68	20.60	20.49	5.00	20.70	20.44	20.43	20.57	0.30	20.70

LTE Band 25 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26140	26365	26590	MPR	Tune-up Limit	26140	26365	26590	MPR	Tune-up Limit
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	QPSK	1	0	20.16	20.00	19.99	0.00	20.50	20.16	20.00	19.99	0.00	20.50
		1	49	20.25	20.25	20.25	0.00	20.50	20.25	20.25	20.25	0.00	20.50
		1	99	20.04	19.91	19.83	0.00	20.50	20.04	19.91	19.83	0.00	20.50
		50	0	20.24	20.02	19.96	0.00	20.50	20.24	20.02	19.96	0.00	20.50
		50	24	20.25	20.25	20.25	0.00	20.50	20.25	20.25	20.25	0.00	20.50
		50	50	20.18	20.04	19.95	0.00	20.50	20.18	20.04	19.95	0.00	20.50
	16QAM	100	0	20.21	20.25	19.92	0.00	20.50	20.21	20.25	19.92	0.00	20.50
		1	0	20.16	20.08	20.10	0.00	20.50	20.16	20.08	20.10	0.00	20.50
		1	49	20.08	19.97	20.02	0.00	20.50	20.08	19.97	20.02	0.00	20.50
		1	99	20.21	19.94	19.91	0.00	20.50	20.21	19.94	19.91	0.00	20.50
		50	0	19.99	19.72	19.70	0.00	20.50	19.99	19.72	19.70	0.00	20.50
		50	24	19.98	19.72	19.76	0.00	20.50	19.98	19.72	19.76	0.00	20.50
	64QAM	50	50	19.94	19.72	19.69	0.00	20.50	19.94	19.72	19.69	0.00	20.50
		100	0	19.97	19.70	19.67	0.00	20.50	19.97	19.70	19.67	0.00	20.50
		1	0	20.10	19.64	19.74	0.00	20.50	20.10	19.64	19.74	0.00	20.50
		1	49	20.07	19.63	19.74	0.00	20.50	20.07	19.63	19.74	0.00	20.50
		1	99	20.08	19.59	19.64	0.00	20.50	20.08	19.59	19.64	0.00	20.50
		50	0	19.43	19.41	19.41	0.40	20.10	19.43	19.41	19.41	0.40	20.10
	256QAM	50	24	19.52	19.41	19.41	0.40	20.10	19.52	19.41	19.41	0.40	20.10
		50	50	19.47	19.43	19.42	0.40	20.10	19.47	19.43	19.42	0.40	20.10
		100	0	19.46	19.37	19.37	0.40	20.10	19.46	19.37	19.37	0.40	20.10
		1	0	17.44	17.21	17.26	2.40	18.10	17.44	17.21	17.26	2.40	18.10
		1	49	17.43	17.47	17.31	2.40	18.10	17.43	17.47	17.31	2.40	18.10
		1	99	17.46	17.34	17.28	2.40	18.10	17.46	17.34	17.28	2.40	18.10
15 MHz	QPSK	50	0	17.24	17.26	17.49	2.40	18.10	17.24	17.26	17.49	2.40	18.10
		50	24	17.48	17.49	17.40	2.40	18.10	17.48	17.49	17.40	2.40	18.10
		50	50	17.28	17.22	17.44	2.40	18.10	17.28	17.22	17.44	2.40	18.10
		100	0	17.23	17.41	17.22	2.40	18.10	17.23	17.41	17.22	2.40	18.10
	16QAM	1	0	20.15	20.04	19.94	0.00	20.50	20.15	20.04	19.94	0.00	20.50
		1	37	20.11	19.99	19.85	0.00	20.50	20.11	19.99	19.85	0.00	20.50
		1	74	20.13	19.96	19.83	0.00	20.50	20.13	19.96	19.83	0.00	20.50
		36	0	20.17	20.02	19.93	0.00	20.50	20.17	20.02	19.93	0.00	20.50
		36	20	20.23	19.99	19.91	0.00	20.50	20.23	19.99	19.91	0.00	20.50
		36	39	20.20	20.02	19.90	0.00	20.50	20.20	20.02	19.90	0.00	20.50
	64QAM	75	0	20.21	19.93	19.84	0.00	20.50	20.21	19.93	19.84	0.00	20.50
		1	0	20.21	20.09	20.18	0.00	20.50	20.21	20.09	20.18	0.00	20.50
		1	37	20.18	20.09	20.25	0.00	20.50	20.18	20.09	20.25	0.00	20.50
		1	74	20.20	19.50	20.25	0.00	20.50	20.20	19.50	20.25	0.00	20.50
		36	0	19.99	19.74	19.66	0.00	20.50	19.99	19.74	19.66	0.00	20.50
		36	20	19.99	19.71	19.64	0.00	20.50	19.99	19.71	19.64	0.00	20.50
	256QAM	36	39	19.90	19.74	19.65	0.00	20.50	19.90	19.74	19.65	0.00	20.50
		75	0	19.95	19.69	19.60	0.00	20.50	19.95	19.69	19.60	0.00	20.50
		1	0	19.54	19.99	19.70	0.00	20.50	19.54	19.99	19.70	0.00	20.50
		1	37	19.53	20.03	19.64	0.00	20.50	19.53	20.03	19.64	0.00	20.50
		1	74	19.50	19.98	19.59	0.00	20.50	19.50	19.98	19.59	0.00	20.50
		36	0	19.51	19.40	19.38	0.40	20.10	19.51	19.40	19.38	0.40	20.10
	64QAM	36	20	19.58	19.38	19.41	0.40	20.10	19.58	19.38	19.41	0.40	20.10
		36	39	19.54	19.41	19.36	0.40	20.10	19.54	19.41	19.36	0.40	20.10
		75	0	19.48	19.38	19.37	0.40	20.10	19.48	19.38	19.37	0.40	20.10
	256QAM	1	0	17.47	17.23	17.30	2.40	18.10	17.47	17.23	17.30	2.40	18.10
		1	37	17.31	17.36	17.33	2.40	18.10	17.31	17.36	17.33	2.40	18.10
		1	74	17.31	17.36	17.29	2.40	18.10	17.31	17.36	17.29	2.40	18.10
	16QAM	36	0	17.38	17.39	17.39	2.40	18.10	17.38	17.39	17.39	2.40	18.10
		36	20	17.23	17.38	17.46	2.40	18.10	17.23	17.38	17.46	2.40	18.10
		36	39	17.37	17.43	17.40	2.40	18.10	17.37	17.43	17.40	2.40	18.10
		75	0	17.22	17.24	17.46	2.40	18.10	17.22	17.24	17.46	2.40	18.10

LTE Band 25 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26090	26365	26640	MPR	Tune-up Limit	26090	26365	26640	MPR	Tune-up Limit
				1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
10 MHz	QPSK	1	0	20.24	19.93	19.93	0.00	20.50	20.24	19.93	19.93	0.00	20.50
		1	25	20.15	19.90	19.84	0.00	20.50	20.15	19.90	19.84	0.00	20.50
		1	49	20.23	19.88	19.88	0.00	20.50	20.23	19.88	19.88	0.00	20.50
		25	0	20.15	20.02	19.90	0.00	20.50	20.15	20.02	19.90	0.00	20.50
		25	12	20.17	20.04	19.89	0.00	20.50	20.17	20.04	19.89	0.00	20.50
		25	25	20.13	20.09	19.93	0.00	20.50	20.13	20.09	19.93	0.00	20.50
		50	0	20.14	20.03	19.88	0.00	20.50	20.14	20.03	19.88	0.00	20.50
	16QAM	1	0	20.19	20.05	20.18	0.00	20.50	20.19	20.05	20.18	0.00	20.50
		1	25	20.10	19.95	20.23	0.00	20.50	20.10	19.95	20.23	0.00	20.50
		1	49	20.16	20.02	20.20	0.00	20.50	20.16	20.02	20.20	0.00	20.50
		25	0	20.00	19.78	19.61	0.00	20.50	20.00	19.78	19.61	0.00	20.50
		25	12	19.98	19.80	19.64	0.00	20.50	19.98	19.80	19.64	0.00	20.50
		25	25	19.99	19.86	19.64	0.00	20.50	19.99	19.86	19.64	0.00	20.50
		50	0	19.93	19.73	19.59	0.00	20.50	19.93	19.73	19.59	0.00	20.50
	64QAM	1	0	19.56	19.56	19.65	0.00	20.50	19.56	19.56	19.65	0.00	20.50
		1	25	19.55	19.62	19.69	0.00	20.50	19.55	19.62	19.69	0.00	20.50
		1	49	19.55	19.59	19.69	0.00	20.50	19.55	19.59	19.69	0.00	20.50
		25	0	19.53	19.39	19.25	0.40	20.10	19.53	19.39	19.25	0.40	20.10
		25	12	19.55	19.40	19.30	0.40	20.10	19.55	19.40	19.30	0.40	20.10
		25	25	19.56	19.49	19.36	0.40	20.10	19.56	19.49	19.36	0.40	20.10
		50	0	19.50	19.34	19.23	0.40	20.10	19.50	19.34	19.23	0.40	20.10
	256QAM	1	0	17.35	17.46	17.31	2.40	18.10	17.35	17.46	17.31	2.40	18.10
		1	25	17.27	17.27	17.47	2.40	18.10	17.27	17.27	17.47	2.40	18.10
		1	49	17.22	17.44	17.29	2.40	18.10	17.22	17.44	17.29	2.40	18.10
		25	0	17.37	17.23	17.49	2.40	18.10	17.37	17.23	17.49	2.40	18.10
		25	12	17.39	17.28	17.20	2.40	18.10	17.39	17.28	17.20	2.40	18.10
		25	25	17.44	17.42	17.47	2.40	18.10	17.44	17.42	17.47	2.40	18.10
		50	0	17.30	17.33	17.48	2.40	18.10	17.30	17.33	17.48	2.40	18.10
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26065	26365	26665	MPR	Tune-up Limit	26065	26365	26665	MPR	Tune-up Limit
				1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	QPSK	1	0	20.21	19.99	19.85	0.00	20.50	20.21	19.99	19.85	0.00	20.50
		1	12	20.18	20.06	19.86	0.00	20.50	20.18	20.06	19.86	0.00	20.50
		1	24	20.21	20.09	19.84	0.00	20.50	20.21	20.09	19.84	0.00	20.50
		12	0	20.24	20.02	19.89	0.00	20.50	20.24	20.02	19.89	0.00	20.50
		12	7	20.13	20.07	19.93	0.00	20.50	20.13	20.07	19.93	0.00	20.50
		12	13	20.13	20.11	19.96	0.00	20.50	20.13	20.11	19.96	0.00	20.50
	16QAM	25	0	20.13	20.03	19.95	0.00	20.50	20.13	20.03	19.95	0.00	20.50
		1	0	20.19	20.15	20.09	0.00	20.50	20.19	20.15	20.09	0.00	20.50
		1	12	20.16	20.21	20.15	0.00	20.50	20.16	20.21	20.15	0.00	20.50
		1	24	20.18	20.20	20.10	0.00	20.50	20.18	20.20	20.10	0.00	20.50
		12	0	20.01	19.73	19.68	0.00	20.50	20.01	19.73	19.68	0.00	20.50
		12	7	20.08	19.79	19.77	0.00	20.50	20.08	19.79	19.77	0.00	20.50
	64QAM	12	13	20.07	19.86	19.76	0.00	20.50	20.07	19.86	19.76	0.00	20.50
		25	0	19.98	19.64	19.67	0.00	20.50	19.98	19.64	19.67	0.00	20.50
		1	0	19.80	19.50	19.70	0.00	20.50	19.80	19.50	19.70	0.00	20.50
		1	12	19.90	19.50	19.67	0.00	20.50	19.90	19.50	19.67	0.00	20.50
		1	24	19.84	19.50	19.65	0.00	20.50	19.84	19.50	19.65	0.00	20.50
		12	0	19.48	19.31	19.21	0.40	20.10	19.48	19.31	19.21	0.40	20.10
	256QAM	12	7	19.52	19.43	19.25	0.40	20.10	19.52	19.43	19.25	0.40	20.10
		12	13	19.56	19.50	19.32	0.40	20.10	19.56	19.50	19.32	0.40	20.10
		25	0	19.46	19.31	19.26	0.40	20.10	19.46	19.31	19.26	0.40	20.10
		1	0	17.25	17.45	17.37	2.40	18.10	17.25	17.45	17.37	2.40	18.10
		1	12	17.20	17.47	17.38	2.40	18.10	17.20	17.47	17.38	2.40	18.10
		1	24	17.31	17.45	17.40	2.40	18.10	17.31	17.45	17.40	2.40	18.10
	256QAM	12	0	17.39	17.45	17.22	2.40	18.10	17.39	17.45	17.22	2.40	18.10
		12	7	17.43	17.32	17.33	2.40	18.10	17.43	17.32	17.33	2.40	18.10
		12	13	17.21	17.38	17.31	2.40	18.10	17.21	17.38	17.31	2.40	18.10
		25	0	17.22	17.32	17.29	2.40	18.10	17.22	17.32	17.29	2.40	18.10

LTE Band 25 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
				26055	26365	26675	MPR	Tune-up Limit	26055	26365	26675	MPR	Tune-up Limit	
				1851.5 MHz	1882.5 MHz	1913.5 MHz			1851.5 MHz	1882.5 MHz	1913.5 MHz			
3 MHz	QPSK	1	0	20.16	19.87	19.81	0.00	20.50	20.16	19.87	19.81	0.00	20.50	
		1	8	20.14	19.94	19.89	0.00	20.50	20.14	19.94	19.89	0.00	20.50	
		1	14	20.17	19.98	19.91	0.00	20.50	20.17	19.98	19.91	0.00	20.50	
		8	0	20.23	19.95	19.87	0.00	20.50	20.23	19.95	19.87	0.00	20.50	
		8	4	20.25	20.01	19.95	0.00	20.50	20.25	20.01	19.95	0.00	20.50	
		8	7	20.14	20.07	19.94	0.00	20.50	20.14	20.07	19.94	0.00	20.50	
	16QAM	15	0	20.09	20.01	19.88	0.00	20.50	20.09	20.01	19.88	0.00	20.50	
		1	0	20.17	19.95	20.18	0.00	20.50	20.17	19.95	20.18	0.00	20.50	
		1	8	20.15	20.00	20.22	0.00	20.50	20.15	20.00	20.22	0.00	20.50	
		1	14	20.22	20.10	20.17	0.00	20.50	20.22	20.10	20.17	0.00	20.50	
		8	0	20.03	19.69	19.61	0.00	20.50	20.03	19.69	19.61	0.00	20.50	
		8	4	20.09	19.75	19.68	0.00	20.50	20.09	19.75	19.68	0.00	20.50	
	64QAM	8	7	20.11	19.80	19.70	0.00	20.50	20.11	19.80	19.70	0.00	20.50	
		15	0	19.98	19.67	19.62	0.00	20.50	19.98	19.67	19.62	0.00	20.50	
		1	0	19.54	19.60	19.57	0.00	20.50	19.54	19.60	19.57	0.00	20.50	
		1	8	19.59	19.65	19.65	0.00	20.50	19.59	19.65	19.65	0.00	20.50	
		1	14	19.68	19.73	19.68	0.00	20.50	19.68	19.73	19.68	0.00	20.50	
		8	0	19.43	19.25	19.26	0.40	20.10	19.43	19.25	19.26	0.40	20.10	
	256QAM	8	4	19.50	19.36	19.38	0.40	20.10	19.50	19.36	19.38	0.40	20.10	
		8	7	19.53	19.40	19.40	0.40	20.10	19.53	19.40	19.40	0.40	20.10	
		15	0	19.47	19.41	19.28	0.40	20.10	19.47	19.41	19.28	0.40	20.10	
		1	0	17.48	17.42	17.41	2.40	18.10	17.48	17.42	17.41	2.40	18.10	
		1	8	17.38	17.36	17.48	2.40	18.10	17.38	17.36	17.48	2.40	18.10	
		1	14	17.49	17.36	17.29	2.40	18.10	17.49	17.36	17.29	2.40	18.10	
		8	0	17.34	17.28	17.38	2.40	18.10	17.34	17.28	17.38	2.40	18.10	
		8	4	17.34	17.43	17.47	2.40	18.10	17.34	17.43	17.47	2.40	18.10	
		8	7	17.40	17.27	17.31	2.40	18.10	17.40	17.27	17.31	2.40	18.10	
		15	0	17.32	17.24	17.29	2.40	18.10	17.32	17.24	17.29	2.40	18.10	
1.4 MHz	BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					26047	26365	26683	MPR	Tune-up Limit	26047	26365	26683	MPR	Tune-up Limit
					1850.7 MHz	1882.5 MHz	1914.3 MHz			1850.7 MHz	1882.5 MHz	1914.3 MHz		
	QPSK	1	0	20.13	19.89	19.68	0.00	20.50	20.13	19.89	19.68	0.00	20.50	
		1	3	20.18	19.97	19.74	0.00	20.50	20.18	19.97	19.74	0.00	20.50	
		1	5	20.15	19.97	19.74	0.00	20.50	20.15	19.97	19.74	0.00	20.50	
		3	0	20.13	19.82	19.68	0.00	20.50	20.13	19.82	19.68	0.00	20.50	
		3	1	20.17	19.84	19.76	0.00	20.50	20.17	19.84	19.76	0.00	20.50	
		3	3	20.20	19.89	19.78	0.00	20.50	20.20	19.89	19.78	0.00	20.50	
	16QAM	6	0	20.20	19.93	19.83	0.00	20.50	20.20	19.93	19.83	0.00	20.50	
		1	0	19.92	19.99	19.77	0.00	20.50	19.92	19.99	19.77	0.00	20.50	
		1	3	20.00	20.06	19.88	0.00	20.50	20.00	20.06	19.88	0.00	20.50	
		1	5	19.98	20.09	19.85	0.00	20.50	19.98	20.09	19.85	0.00	20.50	
		3	0	19.73	19.93	19.94	0.00	20.50	19.73	19.93	19.94	0.00	20.50	
		3	1	19.80	19.99	20.01	0.00	20.50	19.80	19.99	20.01	0.00	20.50	
	64QAM	3	3	19.80	20.01	20.06	0.00	20.50	19.80	20.01	20.06	0.00	20.50	
		6	0	19.80	19.78	19.67	0.00	20.50	19.80	19.78	19.67	0.00	20.50	
		1	0	19.92	19.50	19.50	0.00	20.50	19.92	19.50	19.50	0.00	20.50	
		1	3	20.06	19.59	19.54	0.00	20.50	20.06	19.59	19.54	0.00	20.50	
		1	5	19.90	19.53	19.54	0.00	20.50	19.90	19.53	19.54	0.00	20.50	
		3	0	19.82	19.50	19.63	0.00	20.50	19.82	19.50	19.63	0.00	20.50	
	256QAM	3	1	19.86	19.53	19.50	0.00	20.50	19.86	19.53	19.50	0.00	20.50	
		3	3	19.88	19.61	19.50	0.00	20.50	19.88	19.61	19.50	0.00	20.50	
		6	0	19.69	19.67	19.56	0.40	20.10	19.69	19.67	19.56	0.40	20.10	
		1	0	17.40	17.41	17.37	2.40	18.10	17.40	17.41	17.37	2.40	18.10	
		1	3	17.47	17.42	17.43	2.40	18.10	17.47	17.42	17.43	2.40	18.10	
		1	5	17.34	17.33	17.39	2.40	18.10	17.34	17.33	17.39	2.40	18.10	
		3	0	17.48	17.46	17.36	2.40	18.10	17.48	17.46	17.36	2.40	18.10	
		3	1	17.31	17.29	17.36	2.40	18.10	17.31	17.29	17.36	2.40	18.10	
		3	3	17.38	17.22	17.24	2.40	18.10	17.38	17.22	17.24	2.40	18.10	
		6	0	17.41	17.49	17.45	2.40	18.10	17.41	17.49	17.45	2.40	18.10	

LTE Band 25 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26140	26365	26590	MPR	Tune-up Limit	26140	26365	26590	MPR	Tune-up Limit
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	QPSK	1	0	24.41	24.32	24.25	0.00	24.70	20.30	20.21	20.11	0.00	21.00
		1	49	24.45	24.50	24.30	0.00	24.70	20.50	20.50	20.50	0.00	21.00
		1	99	24.14	24.24	24.10	0.00	24.70	20.22	20.05	20.00	0.00	21.00
		50	0	23.20	23.03	22.96	1.00	23.70	20.33	20.21	20.14	0.00	21.00
		50	24	23.28	23.40	23.00	1.00	23.70	20.50	20.50	20.50	0.00	21.00
		50	50	23.09	23.05	22.98	1.00	23.70	20.32	20.19	20.10	0.00	21.00
	16QAM	100	0	22.99	23.00	22.94	1.00	23.70	20.35	20.50	20.09	0.00	21.00
		1	0	23.01	23.30	23.20	1.00	23.70	20.22	20.37	20.44	0.00	21.00
		1	49	23.04	23.20	23.30	1.00	23.70	20.31	20.34	20.38	0.00	21.00
		1	99	22.94	23.20	23.10	1.00	23.70	20.16	20.21	20.28	0.00	21.00
		50	0	21.97	22.04	21.94	2.00	22.70	20.33	20.18	20.13	0.00	21.00
		50	24	22.01	22.03	21.90	2.00	22.70	20.38	20.14	20.12	0.00	21.00
	64QAM	50	50	22.66	22.08	21.95	2.00	22.70	20.34	20.17	20.12	0.00	21.00
		100	0	22.70	22.03	21.94	2.00	22.70	20.37	20.15	20.11	0.00	21.00
		1	0	22.40	21.87	22.01	2.00	22.70	20.29	20.18	20.29	0.00	21.00
		1	49	22.42	21.88	21.98	2.00	22.70	20.28	20.19	20.28	0.00	21.00
		1	99	22.40	21.82	21.87	2.00	22.70	20.26	20.11	20.18	0.00	21.00
		50	0	20.85	20.73	20.79	3.00	21.70	20.13	20.00	20.09	0.00	21.00
	256QAM	50	24	20.96	20.73	20.76	3.00	21.70	20.17	20.01	20.08	0.00	21.00
		50	50	20.88	20.77	20.76	3.00	21.70	20.13	20.03	20.07	0.00	21.00
		100	0	20.87	20.70	20.70	3.00	21.70	20.13	20.00	20.03	0.00	21.00
		1	0	19.13	18.94	18.99	5.00	19.70	19.19	19.07	19.17	1.30	19.70
		1	49	18.94	18.99	19.10	5.00	19.70	19.20	19.15	18.98	1.30	19.70
		1	99	19.17	19.16	19.12	5.00	19.70	19.06	18.91	18.95	1.30	19.70
15 MHz	QPSK	50	0	19.18	18.92	19.10	5.00	19.70	18.90	19.12	19.09	1.30	19.70
		50	24	19.14	19.16	19.11	5.00	19.70	19.07	18.91	19.19	1.30	19.70
		50	50	19.02	18.93	19.01	5.00	19.70	19.11	18.94	19.15	1.30	19.70
		100	0	19.14	18.93	19.09	5.00	19.70	19.04	19.12	19.16	1.30	19.70
	16QAM	1	0	24.50	24.26	24.24	0.00	24.70	20.36	20.24	20.05	0.00	21.00
		1	37	24.45	24.22	24.16	0.00	24.70	20.27	20.18	20.02	0.00	21.00
		1	74	24.43	24.19	24.15	0.00	24.70	20.29	20.13	20.00	0.00	21.00
		36	0	23.27	23.01	22.96	1.00	23.70	20.45	20.23	20.10	0.00	21.00
		36	20	23.25	23.01	23.01	1.00	23.70	20.42	20.19	20.15	0.00	21.00
		36	39	23.20	23.00	22.95	1.00	23.70	20.36	20.19	20.07	0.00	21.00
	64QAM	75	0	23.20	22.99	22.89	1.00	23.70	20.36	20.14	20.04	0.00	21.00
		1	0	23.00	22.92	23.10	1.00	23.70	20.50	20.40	20.01	0.00	21.00
		1	37	23.00	22.91	22.80	1.00	23.70	20.48	20.30	20.00	0.00	21.00
		1	74	23.00	22.90	22.78	1.00	23.70	20.47	20.36	20.00	0.00	21.00
		36	0	22.27	22.05	22.08	2.00	22.70	20.48	20.19	20.09	0.00	21.00
		36	20	22.22	22.01	22.18	2.00	22.70	20.46	20.16	20.13	0.00	21.00
	256QAM	36	39	22.17	21.99	21.77	2.00	22.70	20.39	20.16	20.03	0.00	21.00
		75	0	22.21	21.97	21.72	2.00	22.70	20.42	20.14	20.05	0.00	21.00
		1	0	21.88	22.22	21.91	2.00	22.70	20.07	20.38	20.10	0.00	21.00
		1	37	21.87	22.25	21.89	2.00	22.70	20.02	20.38	20.01	0.00	21.00
		1	74	21.87	22.25	21.81	2.00	22.70	20.00	20.33	20.00	0.00	21.00
		36	0	21.00	20.72	20.70	3.00	21.70	20.27	20.30	20.02	0.00	21.00
	64QAM	36	20	20.98	20.71	20.77	3.00	21.70	20.26	20.29	20.09	0.00	21.00
		36	39	20.94	20.72	20.71	3.00	21.70	20.21	20.29	20.04	0.00	21.00
		75	0	20.90	20.71	20.70	3.00	21.70	20.16	20.30	20.00	0.00	21.00
	256QAM	1	0	19.03	19.06	18.98	5.00	19.70	19.12	19.01	19.09	1.30	19.70
		1	37	19.01	19.07	19.03	5.00	19.70	18.96	18.98	19.10	1.30	19.70
		1	74	19.01	19.15	19.11	5.00	19.70	19.05	18.95	18.99	1.30	19.70
	256QAM	36	0	19.10	19.16	18.94	5.00	19.70	19.09	19.13	18.90	1.30	19.70
		36	20	18.96	19.03	19.12	5.00	19.70	19.15	19.18	19.12	1.30	19.70
		36	39	18.95	18.96	19.05	5.00	19.70	19.00	19.17	19.06	1.30	19.70
		75	0	18.93	19.14	19.12	5.00	19.70	19.01	19.11	19.14	1.30	19.70

LTE Band 25 Measured Results (ANT3) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26090	26365	26640	MPR	Tune-up Limit	26090	26365	26640	MPR	Tune-up Limit
				1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
10 MHz	QPSK	1	0	24.37	24.23	24.14	0.00	24.70	20.36	20.09	20.00	0.00	21.00
		1	25	24.34	24.18	24.16	0.00	24.70	20.30	20.07	20.08	0.00	21.00
		1	49	24.31	24.22	24.16	0.00	24.70	20.32	20.08	20.11	0.00	21.00
		25	0	23.22	23.00	22.89	1.00	23.70	20.41	20.16	20.07	0.00	21.00
		25	12	23.26	22.99	22.93	1.00	23.70	20.42	20.19	20.07	0.00	21.00
		25	25	23.23	23.04	22.94	1.00	23.70	20.41	20.22	20.09	0.00	21.00
	16QAM	50	0	23.23	22.96	22.90	1.00	23.70	20.42	20.13	20.07	0.00	21.00
		1	0	23.26	22.97	23.36	1.00	23.70	20.50	20.29	20.05	0.00	21.00
		1	25	23.16	22.88	23.34	1.00	23.70	20.44	20.19	20.00	0.00	21.00
		1	49	23.16	22.90	23.29	1.00	23.70	20.43	20.19	20.01	0.00	21.00
		25	0	22.35	22.00	22.00	2.00	22.70	20.19	20.28	20.09	0.00	21.00
		25	12	22.35	22.00	21.96	2.00	22.70	20.20	20.30	20.08	0.00	21.00
	64QAM	25	25	22.33	22.08	21.96	2.00	22.70	20.19	20.37	20.12	0.00	21.00
		50	0	22.28	21.95	21.95	2.00	22.70	20.19	20.20	20.04	0.00	21.00
		1	0	21.93	21.83	21.94	2.00	22.70	20.34	20.37	20.48	0.00	21.00
		1	25	21.93	21.89	21.92	2.00	22.70	20.21	20.44	20.49	0.00	21.00
		1	49	21.93	21.82	21.98	2.00	22.70	20.23	20.40	20.48	0.00	21.00
		25	0	20.96	20.73	20.71	3.00	21.70	20.03	20.05	20.13	0.00	21.00
5 MHz	256QAM	25	12	21.01	20.76	20.70	3.00	21.70	20.06	20.05	20.15	0.00	21.00
		25	25	21.00	20.84	20.71	3.00	21.70	20.07	20.13	20.25	0.00	21.00
		50	0	20.95	20.71	20.76	3.00	21.70	20.00	20.00	20.12	0.00	21.00
		1	0	18.91	18.98	19.02	5.00	19.70	18.99	19.14	18.92	1.30	19.70
		1	25	18.94	19.17	19.19	5.00	19.70	19.03	19.17	19.15	1.30	19.70
		1	49	19.09	19.05	19.12	5.00	19.70	19.01	19.17	19.08	1.30	19.70
	QPSK	25	0	18.97	18.96	19.02	5.00	19.70	18.90	19.02	18.99	1.30	19.70
		25	12	18.92	19.11	19.17	5.00	19.70	19.14	19.01	19.06	1.30	19.70
		25	25	18.94	18.92	19.14	5.00	19.70	19.02	18.96	19.04	1.30	19.70
		50	0	19.20	18.92	18.93	5.00	19.70	19.00	19.12	19.03	1.30	19.70
	16QAM	1	0	23.97	23.74	23.77	0.00	24.70	20.34	20.12	20.16	0.00	21.00
		1	12	23.98	23.75	23.75	0.00	24.70	20.36	20.18	20.17	0.00	21.00
		1	24	23.95	23.80	23.72	0.00	24.70	20.35	20.22	20.13	0.00	21.00
		12	0	23.20	22.98	22.89	1.00	23.70	20.36	20.16	20.04	0.00	21.00
		12	7	23.24	23.04	22.94	1.00	23.70	20.44	20.16	20.09	0.00	21.00
		12	13	23.28	23.10	22.98	1.00	23.70	20.46	20.26	20.10	0.00	21.00
	64QAM	25	0	23.28	22.98	22.91	1.00	23.70	20.39	20.18	20.12	0.00	21.00
		1	0	23.20	23.12	23.11	1.00	23.70	20.29	20.32	20.29	0.00	21.00
		1	12	23.20	23.12	23.05	1.00	23.70	20.30	20.38	20.29	0.00	21.00
		1	24	23.20	23.19	23.09	1.00	23.70	20.34	20.41	20.28	0.00	21.00
		12	0	22.33	22.00	21.97	2.00	22.70	20.25	20.23	20.14	0.00	21.00
		12	7	22.39	22.08	22.00	2.00	22.70	20.31	20.30	20.20	0.00	21.00
	256QAM	12	13	22.43	22.11	22.05	2.00	22.70	20.28	20.36	20.20	0.00	21.00
		25	0	22.31	21.94	21.95	2.00	22.70	20.20	20.16	20.14	0.00	21.00
		1	0	22.39	22.09	21.74	2.00	22.70	20.50	20.18	20.09	0.00	21.00
		1	12	22.38	22.13	21.77	2.00	22.70	20.48	20.22	20.14	0.00	21.00
		1	24	22.42	22.19	21.81	2.00	22.70	20.34	20.29	20.16	0.00	21.00
		12	0	21.01	20.85	20.81	3.00	21.70	20.13	20.18	20.15	0.00	21.00
	QPSK	12	7	21.07	20.97	20.90	3.00	21.70	20.21	20.24	20.19	0.00	21.00
		12	13	21.08	21.04	20.85	3.00	21.70	20.18	20.32	20.24	0.00	21.00
		25	0	21.06	20.85	20.79	3.00	21.70	20.18	20.19	20.14	0.00	21.00
		1	0	19.15	19.06	18.96	5.00	19.70	19.09	18.98	18.92	1.30	19.70
		1	12	19.15	18.97	19.12	5.00	19.70	19.00	19.08	19.07	1.30	19.70
		1	24	19.07	19.03	19.02	5.00	19.70	19.07	18.90	18.94	1.30	19.70
	16QAM	12	0	19.16	18.92	19.11	5.00	19.70	19.12	19.01	18.95	1.30	19.70
		12	7	19.11	18.94	19.04	5.00	19.70	18.96	18.98	18.97	1.30	19.70
		12	13	19.02	19.07	19.06	5.00	19.70	18.96	19.06	18.91	1.30	19.70
		25	0	19.01	18.99	19.06	5.00	19.70	19.16	19.15	19.18	1.30	19.70

LTE Band 25 Measured Results (ANT3) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26055	26365	26675	MPR	Tune-up Limit	26055	26365	26675	MPR	Tune-up Limit
				1851.5 MHz	1882.5 MHz	1913.5 MHz			1851.5 MHz	1882.5 MHz	1913.5 MHz		
3 MHz	QPSK	1	0	24.41	24.14	24.08	0.00	24.70	20.30	20.04	20.00	0.00	21.00
		1	8	24.49	24.22	24.09	0.00	24.70	20.36	20.10	20.00	0.00	21.00
		1	14	24.51	24.32	24.17	0.00	24.70	20.39	20.20	20.06	0.00	21.00
		8	0	23.19	22.94	22.87	1.00	23.70	20.39	20.11	20.04	0.00	21.00
		8	4	23.26	22.96	22.94	1.00	23.70	20.44	20.18	20.07	0.00	21.00
		8	7	23.28	22.99	22.97	1.00	23.70	20.44	20.21	20.13	0.00	21.00
	16QAM	15	0	23.21	23.00	22.94	1.00	23.70	20.41	20.16	20.08	0.00	21.00
		1	0	23.00	22.97	22.79	1.00	23.70	20.48	20.18	20.16	0.00	21.00
		1	8	23.00	22.99	22.75	1.00	23.70	20.16	20.22	20.18	0.00	21.00
		1	14	23.00	23.10	22.81	1.00	23.70	20.26	20.35	20.22	0.00	21.00
		8	0	22.26	22.01	21.96	2.00	22.70	20.22	20.18	20.18	0.00	21.00
		8	4	22.35	22.06	22.05	2.00	22.70	20.29	20.24	20.23	0.00	21.00
	64QAM	8	7	22.37	22.10	22.07	2.00	22.70	20.33	20.32	20.27	0.00	21.00
		15	0	22.27	21.98	21.97	2.00	22.70	20.23	20.17	20.15	0.00	21.00
		1	0	22.08	22.01	22.04	2.00	22.70	20.18	20.38	20.36	0.00	21.00
		1	8	22.14	22.02	22.07	2.00	22.70	20.26	20.35	20.40	0.00	21.00
		1	14	22.22	22.16	22.12	2.00	22.70	20.36	20.49	20.48	0.00	21.00
		8	0	21.04	20.74	20.82	3.00	21.70	20.19	20.86	20.92	0.00	21.00
	256QAM	8	4	21.12	20.81	20.88	3.00	21.70	20.29	20.93	20.98	0.00	21.00
		8	7	21.16	20.85	20.89	3.00	21.70	20.31	20.97	21.00	0.00	21.00
		15	0	21.10	20.92	20.79	3.00	21.70	20.23	20.98	20.92	0.00	21.00
		1	0	18.94	18.99	19.15	5.00	19.70	19.02	19.05	18.95	1.30	19.70
		1	8	19.17	19.05	19.03	5.00	19.70	19.15	19.01	18.96	1.30	19.70
		1	14	19.04	19.17	19.18	5.00	19.70	19.13	19.01	18.90	1.30	19.70
1.4 MHz	QPSK	8	0	18.98	19.00	19.07	5.00	19.70	18.97	19.03	19.12	1.30	19.70
		8	4	19.03	19.01	18.96	5.00	19.70	19.04	19.04	19.08	1.30	19.70
		8	7	18.93	18.90	19.16	5.00	19.70	19.00	19.05	18.97	1.30	19.70
		15	0	19.12	19.16	18.96	5.00	19.70	19.14	19.19	18.96	1.30	19.70
	16QAM	1	0	23.86	23.99	24.04	0.00	24.70	20.00	20.21	20.18	0.00	21.00
		1	3	23.91	24.18	24.06	0.00	24.70	20.03	20.36	20.23	0.00	21.00
		1	5	23.90	24.14	24.06	0.00	24.70	20.07	20.34	20.23	0.00	21.00
		3	0	23.89	24.05	23.97	0.00	24.70	20.00	20.22	20.10	0.00	21.00
		3	1	23.93	24.11	24.01	0.00	24.70	20.05	20.30	20.17	0.00	21.00
		3	3	23.93	24.19	24.04	0.00	24.70	20.08	20.37	20.18	0.00	21.00
	64QAM	6	0	23.14	22.88	22.73	1.00	23.70	20.07	20.36	20.24	0.00	21.00
		1	0	23.00	22.86	22.85	1.00	23.70	20.45	20.26	20.27	0.00	21.00
		1	3	23.00	23.04	22.90	1.00	23.70	20.50	20.26	20.37	0.00	21.00
		1	5	23.00	23.02	22.92	1.00	23.70	20.47	20.27	20.38	0.00	21.00
		3	0	23.33	23.02	22.81	1.00	23.70	20.27	20.34	20.22	0.00	21.00
		3	1	23.38	23.08	22.83	1.00	23.70	20.33	20.41	20.13	0.00	21.00
	256QAM	3	3	23.40	23.18	22.87	1.00	23.70	20.35	20.29	20.08	0.00	21.00
		6	0	22.10	22.03	21.88	2.00	22.70	20.03	20.24	20.16	0.00	21.00
		1	0	22.37	21.88	21.85	2.00	22.70	20.14	20.42	20.42	0.00	21.00
		1	3	22.49	21.99	21.92	2.00	22.70	20.26	20.38	20.55	0.00	21.00
		1	5	22.39	21.93	21.91	2.00	22.70	20.25	20.04	20.48	0.00	21.00
		3	0	22.32	21.86	21.86	2.00	22.70	20.21	20.12	20.39	0.00	21.00
	16QAM	3	1	22.35	21.93	21.70	2.00	22.70	20.27	20.21	20.41	0.00	21.00
		3	3	22.38	21.99	21.74	2.00	22.70	20.26	20.20	20.43	0.00	21.00
		6	0	21.02	21.05	20.81	3.00	21.70	20.42	20.00	20.02	0.00	21.00
	256QAM	1	0	19.16	19.15	18.96	5.00	19.70	19.09	18.92	19.15	1.30	19.70
		1	3	19.09	18.97	19.16	5.00	19.70	18.97	19.04	19.00	1.30	19.70
		1	5	19.00	19.00	19.13	5.00	19.70	19.00	18.95	19.13	1.30	19.70
		3	0	19.01	19.11	18.92	5.00	19.70	18.97	19.00	19.10	1.30	19.70
	64QAM	3	1	19.11	19.05	19.08	5.00	19.70	18.91	18.96	19.16	1.30	19.70
		3	3	19.12	19.06	19.00	5.00	19.70	19.11	18.97	18.97	1.30	19.70
		6	0	19.04	19.06	19.20	5.00	19.70	19.09	19.14	19.02	1.30	19.70

LTE Band 25 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26140	26365	26590	MPR	Tune-up Limit	26140	26365	26590	MPR	Tune-up Limit
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	QPSK	1	0	18.89	18.72	18.80	0.00	19.25	19.57	19.42	19.44	0.00	20.00
		1	49	19.00	19.00	19.00	0.00	19.25	19.70	19.70	19.70	0.00	20.00
		1	99	18.75	18.66	18.61	0.00	19.25	19.48	19.35	19.30	0.00	20.00
		50	0	18.90	18.76	18.85	0.00	19.25	19.59	19.44	19.45	0.00	20.00
		50	24	19.00	19.00	19.00	0.00	19.25	19.70	19.70	19.70	0.00	20.00
		50	50	18.91	18.78	18.88	0.00	19.25	19.59	19.47	19.49	0.00	20.00
	16QAM	100	0	18.89	19.00	18.81	0.00	19.25	19.65	19.70	19.45	0.00	20.00
		1	0	18.95	18.81	18.88	0.00	19.25	19.39	19.34	19.42	0.00	20.00
		1	49	18.95	18.79	18.87	0.00	19.25	19.36	19.32	19.37	0.00	20.00
		1	99	18.88	18.78	18.78	0.00	19.25	19.43	19.29	19.29	0.00	20.00
		50	0	18.36	18.34	18.31	0.00	19.25	19.03	19.06	19.07	0.00	20.00
		50	24	18.47	18.32	18.34	0.00	19.25	19.09	19.04	19.05	0.00	20.00
	64QAM	50	50	18.44	18.35	18.36	0.00	19.25	19.05	19.06	19.06	0.00	20.00
		100	0	18.53	18.29	18.39	0.00	19.25	19.13	19.05	19.07	0.00	20.00
		1	0	18.49	18.41	18.40	0.00	19.25	19.23	19.12	19.17	0.00	20.00
		1	49	18.55	18.38	18.47	0.00	19.25	19.27	19.15	19.15	0.00	20.00
		1	99	18.52	18.39	18.35	0.00	19.25	19.22	19.11	19.09	0.00	20.00
		50	0	18.42	18.99	18.97	0.00	19.25	19.10	19.18	19.14	0.30	19.70
	256QAM	50	24	18.52	18.91	18.96	0.00	19.25	19.16	19.17	19.14	0.30	19.70
		50	50	18.43	19.00	19.01	0.00	19.25	19.11	19.20	19.16	0.30	19.70
		100	0	18.48	18.94	18.97	0.00	19.25	19.13	19.15	19.15	0.30	19.70
		1	0	17.20	17.11	17.11	1.55	17.70	17.28	17.26	17.39	2.30	17.70
		1	49	17.15	17.19	17.32	1.55	17.70	17.39	17.36	17.25	2.30	17.70
		1	99	17.11	17.36	17.29	1.55	17.70	17.28	17.29	17.11	2.30	17.70
15 MHz	QPSK	50	0	17.17	17.37	17.34	1.55	17.70	17.14	17.32	17.15	2.30	17.70
		50	24	17.32	17.12	17.17	1.55	17.70	17.35	17.35	17.30	2.30	17.70
		50	50	17.36	17.31	17.15	1.55	17.70	17.14	17.11	17.21	2.30	17.70
		100	0	17.29	17.11	17.17	1.55	17.70	17.12	17.38	17.20	2.30	17.70
		1	0	18.87	18.83	18.80	0.00	19.25	19.60	19.46	19.44	0.00	20.00
		1	37	18.90	18.76	18.72	0.00	19.25	19.56	19.42	19.38	0.00	20.00
	16QAM	1	74	18.85	18.69	18.71	0.00	19.25	19.54	19.37	19.34	0.00	20.00
		36	0	18.95	18.80	18.76	0.00	19.25	19.68	19.45	19.43	0.00	20.00
		36	20	18.99	18.71	18.81	0.00	19.25	19.67	19.42	19.50	0.00	20.00
		36	39	18.90	18.78	18.79	0.00	19.25	19.63	19.45	19.43	0.00	20.00
		75	0	18.88	18.64	18.72	0.00	19.25	19.61	19.37	19.42	0.00	20.00
		1	0	18.94	18.75	18.67	0.00	19.25	19.04	19.36	19.38	0.00	20.00
	64QAM	1	37	18.92	18.60	18.84	0.00	19.25	19.14	19.32	19.50	0.00	20.00
		1	74	18.82	18.64	18.68	0.00	19.25	19.09	19.38	19.37	0.00	20.00
		36	0	18.40	18.38	18.35	0.00	19.25	19.15	19.12	19.05	0.00	20.00
		36	20	18.36	18.40	18.37	0.00	19.25	19.13	19.10	19.01	0.00	20.00
		36	39	18.33	18.37	18.38	0.00	19.25	19.09	19.12	19.06	0.00	20.00
		75	0	18.32	18.29	18.34	0.00	19.25	19.13	19.07	19.03	0.00	20.00
	256QAM	1	0	18.73	18.60	18.50	0.00	19.25	19.18	19.02	19.03	0.00	20.00
		1	37	18.71	18.59	18.57	0.00	19.25	19.15	19.00	19.04	0.00	20.00
		1	74	18.72	18.56	18.53	0.00	19.25	19.18	19.00	19.00	0.00	20.00
		36	0	18.32	18.45	18.49	0.00	19.25	19.18	19.17	19.12	0.30	19.70
		36	20	18.36	18.44	18.58	0.00	19.25	19.17	19.14	19.18	0.30	19.70
		36	39	18.28	18.39	18.47	0.00	19.25	19.10	19.19	19.12	0.30	19.70
	256QAM	75	0	18.27	18.37	18.39	0.00	19.25	19.16	19.16	19.12	0.30	19.70
		1	0	17.19	17.36	17.15	1.55	17.70	17.21	17.22	17.29	2.30	17.70
		1	37	17.37	17.20	17.20	1.55	17.70	17.30	17.34	17.29	2.30	17.70
		1	74	17.30	17.27	17.35	1.55	17.70	17.16	17.36	17.28	2.30	17.70
		36	0	17.18	17.15	17.18	1.55	17.70	17.35	17.15	17.30	2.30	17.70
		36	20	17.21	17.39	17.13	1.55	17.70	17.30	17.26	17.32	2.30	17.70
	256QAM	36	39	17.32	17.18	17.18	1.55	17.70	17.29	17.25	17.19	2.30	17.70
		75	0	17.32	17.40	17.15	1.55	17.70	17.29	17.18	17.20	2.30	17.70

LTE Band 25 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26090	26365	26640	MPR	Tune-up Limit	26090	26365	26640	MPR	Tune-up Limit
				1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
10 MHz	QPSK	1	0	18.79	18.69	18.59	0.00	19.25	19.51	19.36	19.27	0.00	20.00
		1	25	18.77	18.67	18.67	0.00	19.25	19.48	19.30	19.30	0.00	20.00
		1	49	18.77	18.62	18.61	0.00	19.25	19.44	19.27	19.27	0.00	20.00
		25	0	18.99	18.75	18.72	0.00	19.25	19.64	19.38	19.39	0.00	20.00
		25	12	18.99	18.76	18.68	0.00	19.25	19.67	19.40	19.41	0.00	20.00
		25	25	19.00	18.87	18.79	0.00	19.25	19.64	19.47	19.46	0.00	20.00
		50	0	18.93	18.76	18.68	0.00	19.25	19.65	19.39	19.41	0.00	20.00
	16QAM	1	0	19.00	18.83	18.78	0.00	19.25	19.68	19.47	19.44	0.00	20.00
		1	25	18.84	18.78	18.71	0.00	19.25	19.56	19.37	19.36	0.00	20.00
		1	49	18.88	18.73	18.75	0.00	19.25	19.59	19.42	19.42	0.00	20.00
		25	0	18.29	18.31	18.27	0.00	19.25	19.28	19.02	19.16	0.00	20.00
		25	12	18.35	18.33	18.29	0.00	19.25	19.29	19.02	19.17	0.00	20.00
		25	25	18.34	18.35	18.39	0.00	19.25	19.27	19.11	19.26	0.00	20.00
		50	0	18.36	18.33	18.29	0.00	19.25	19.21	19.16	19.12	0.00	20.00
	64QAM	1	0	18.40	18.36	18.33	0.00	19.25	19.31	19.08	19.12	0.00	20.00
		1	25	18.28	18.37	18.43	0.00	19.25	19.22	19.11	19.07	0.00	20.00
		1	49	18.35	18.32	18.31	0.00	19.25	19.20	19.08	19.07	0.00	20.00
		25	0	18.43	18.38	18.37	0.00	19.25	19.24	19.21	19.17	0.30	19.70
		25	12	18.38	18.39	18.33	0.00	19.25	19.26	19.23	19.21	0.30	19.70
		25	25	18.45	18.44	18.52	0.00	19.25	19.26	19.32	19.29	0.30	19.70
		50	0	18.35	18.37	18.30	0.00	19.25	19.19	19.17	19.11	0.30	19.70
	256QAM	1	0	17.35	17.36	17.14	1.55	17.70	17.32	17.17	17.14	2.30	17.70
		1	25	17.28	17.19	17.22	1.55	17.70	17.14	17.35	17.31	2.30	17.70
		1	49	17.14	17.29	17.19	1.55	17.70	17.16	17.29	17.34	2.30	17.70
		25	0	17.26	17.20	17.12	1.55	17.70	17.22	17.35	17.30	2.30	17.70
		25	12	17.35	17.20	17.34	1.55	17.70	17.27	17.36	17.22	2.30	17.70
		25	25	17.37	17.15	17.27	1.55	17.70	17.30	17.11	17.40	2.30	17.70
		50	0	17.36	17.14	17.26	1.55	17.70	17.38	17.29	17.20	2.30	17.70
5 MHz	QPSK	1	0	18.96	18.77	18.83	0.00	19.25	19.64	19.37	19.46	0.00	20.00
		1	12	18.89	18.80	18.74	0.00	19.25	19.61	19.40	19.40	0.00	20.00
		1	24	19.00	18.86	18.75	0.00	19.25	19.66	19.43	19.45	0.00	20.00
		12	0	19.00	18.79	18.72	0.00	19.25	19.63	19.34	19.42	0.00	20.00
		12	7	18.98	18.87	18.82	0.00	19.25	19.68	19.42	19.46	0.00	20.00
		12	13	19.00	18.90	18.78	0.00	19.25	19.68	19.51	19.47	0.00	20.00
		25	0	18.99	18.76	18.75	0.00	19.25	19.66	19.38	19.44	0.00	20.00
		25	12	18.98	18.93	18.98	0.00	19.25	19.37	19.02	19.11	0.00	20.00
	16QAM	1	12	19.00	19.00	18.96	0.00	19.25	19.37	19.08	19.07	0.00	20.00
		1	24	18.97	18.96	18.88	0.00	19.25	19.37	19.15	19.06	0.00	20.00
		12	0	18.38	18.35	18.37	0.00	19.25	19.20	19.24	19.22	0.00	20.00
		12	7	18.31	18.49	18.45	0.00	19.25	19.26	19.29	19.28	0.00	20.00
		12	13	18.29	18.50	18.49	0.00	19.25	19.27	19.36	19.31	0.00	20.00
		25	0	18.29	18.37	18.36	0.00	19.25	19.14	19.18	19.19	0.00	20.00
	64QAM	1	0	18.54	18.27	18.45	0.00	19.25	19.41	19.19	19.24	0.00	20.00
		1	12	18.57	18.33	18.46	0.00	19.25	19.46	19.26	19.24	0.00	20.00
		1	24	18.58	18.43	18.35	0.00	19.25	19.46	19.26	19.22	0.00	20.00
		12	0	18.44	18.41	18.44	0.00	19.25	19.39	19.34	19.37	0.30	19.70
		12	7	18.47	18.46	18.44	0.00	19.25	19.46	19.43	19.41	0.30	19.70
		12	13	18.42	18.54	18.48	0.00	19.25	19.48	19.52	19.48	0.30	19.70
		25	0	18.39	18.38	18.40	0.00	19.25	19.41	19.38	19.35	0.30	19.70
	256QAM	1	0	17.17	17.39	17.30	1.55	17.70	17.27	17.40	17.40	2.30	17.70
		1	12	17.39	17.13	17.30	1.55	17.70	17.30	17.15	17.29	2.30	17.70
		1	24	17.39	17.11	17.27	1.55	17.70	17.20	17.33	17.37	2.30	17.70
		12	0	17.15	17.37	17.15	1.55	17.70	17.22	17.14	17.16	2.30	17.70
		12	7	17.18	17.15	17.35	1.55	17.70	17.15	17.21	17.13	2.30	17.70
		12	13	17.18	17.34	17.34	1.55	17.70	17.33	17.13	17.28	2.30	17.70
		25	0	17.12	17.24	17.12	1.55	17.70	17.27	17.23	17.24	2.30	17.70

LTE Band 25 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26055	26365	26675	MPR	Tune-up Limit	26055	26365	26675	MPR	Tune-up Limit
				1851.5 MHz	1882.5 MHz	1913.5 MHz			1851.5 MHz	1882.5 MHz	1913.5 MHz		
3 MHz	QPSK	1	0	18.83	18.64	18.60	0.00	19.25	19.47	19.26	19.27	0.00	20.00
		1	8	18.89	18.65	18.67	0.00	19.25	19.51	19.29	19.28	0.00	20.00
		1	14	18.97	18.80	18.70	0.00	19.25	19.58	19.38	19.36	0.00	20.00
		8	0	18.91	18.69	18.71	0.00	19.25	19.57	19.35	19.37	0.00	20.00
		8	4	18.95	18.76	18.82	0.00	19.25	19.68	19.40	19.44	0.00	20.00
		8	7	19.00	18.82	18.77	0.00	19.25	19.65	19.45	19.45	0.00	20.00
	16QAM	15	0	18.94	18.76	18.70	0.00	19.25	19.63	19.35	19.43	0.00	20.00
		1	0	18.94	18.76	18.75	0.00	19.25	19.61	19.35	19.39	0.00	20.00
		1	8	18.90	18.79	18.65	0.00	19.25	19.60	19.41	19.34	0.00	20.00
		1	14	19.00	18.83	18.77	0.00	19.25	19.69	19.50	19.46	0.00	20.00
		8	0	18.56	18.31	18.37	0.00	19.25	19.20	19.29	19.23	0.00	20.00
		8	4	18.61	18.40	18.32	0.00	19.25	19.23	19.38	19.28	0.00	20.00
	64QAM	8	7	18.66	18.39	18.41	0.00	19.25	19.25	19.39	19.35	0.00	20.00
		15	0	18.51	18.32	18.42	0.00	19.25	19.12	19.27	19.19	0.00	20.00
		1	0	18.44	18.38	18.48	0.00	19.25	19.30	19.10	19.16	0.00	20.00
		1	8	18.31	18.34	18.32	0.00	19.25	19.20	19.04	19.09	0.00	20.00
		1	14	18.47	18.53	18.57	0.00	19.25	19.36	19.21	19.15	0.00	20.00
		8	0	18.28	18.31	18.35	0.00	19.25	18.75	18.84	18.83	0.30	19.70
	256QAM	8	4	18.33	18.41	18.37	0.00	19.25	18.79	18.92	18.91	0.30	19.70
		8	7	18.41	18.36	18.40	0.00	19.25	18.83	18.98	18.96	0.30	19.70
		15	0	18.38	18.41	18.40	0.00	19.25	18.89	18.95	18.99	0.30	19.70
		1	0	17.20	17.13	17.23	1.55	17.70	17.16	17.24	17.38	2.30	17.70
		1	8	17.26	17.31	17.14	1.55	17.70	17.22	17.23	17.19	2.30	17.70
		1	14	17.15	17.18	17.17	1.55	17.70	17.12	17.28	17.32	2.30	17.70
1.4 MHz	QPSK	8	0	17.13	17.18	17.10	1.55	17.70	17.30	17.27	17.31	2.30	17.70
		8	4	17.35	17.40	17.36	1.55	17.70	17.12	17.32	17.35	2.30	17.70
		8	7	17.38	17.37	17.14	1.55	17.70	17.16	17.23	17.30	2.30	17.70
		15	0	17.26	17.18	17.13	1.55	17.70	17.34	17.30	17.21	2.30	17.70
		1	0	18.83	18.62	18.58	0.00	19.25	19.51	19.15	19.26	0.00	20.00
		1	3	18.87	18.69	18.63	0.00	19.25	19.60	19.32	19.34	0.00	20.00
	16QAM	1	5	18.89	18.67	18.59	0.00	19.25	19.57	19.28	19.33	0.00	20.00
		3	0	18.88	18.59	18.56	0.00	19.25	19.45	19.18	19.27	0.00	20.00
		3	1	18.92	18.57	18.57	0.00	19.25	19.53	19.24	19.28	0.00	20.00
		3	3	18.86	18.68	18.61	0.00	19.25	19.54	19.31	19.32	0.00	20.00
		6	0	18.86	18.69	18.68	0.00	19.25	19.58	19.30	19.32	0.00	20.00
		1	0	18.62	18.64	18.68	0.00	19.25	19.16	19.29	19.62	0.00	20.00
	64QAM	1	3	18.77	18.85	18.73	0.00	19.25	19.23	19.46	19.70	0.00	20.00
		1	5	18.74	18.72	18.74	0.00	19.25	19.22	19.41	19.68	0.00	20.00
		3	0	18.91	18.84	18.77	0.00	19.25	19.09	19.46	19.44	0.00	20.00
		3	1	18.86	18.84	18.89	0.00	19.25	19.17	19.53	19.51	0.00	20.00
		3	3	18.95	19.00	18.93	0.00	19.25	19.20	19.62	19.55	0.00	20.00
		6	0	18.27	18.32	18.33	0.00	19.25	19.28	19.02	19.04	0.00	20.00
	256QAM	1	0	18.38	18.31	18.40	0.00	19.25	19.24	19.11	19.17	0.00	20.00
		1	3	18.43	18.46	18.30	0.00	19.25	19.33	19.05	19.29	0.00	20.00
		1	5	18.44	18.30	18.30	0.00	19.25	19.34	19.02	19.20	0.00	20.00
		3	0	18.30	18.32	18.28	0.00	19.25	19.02	19.03	19.11	0.00	20.00
		3	1	18.42	18.32	18.28	0.00	19.25	19.11	19.01	19.16	0.00	20.00
		3	3	18.38	18.43	18.35	0.00	19.25	19.11	19.07	19.20	0.00	20.00
	256QAM	6	0	18.29	18.26	18.27	0.00	19.25	18.75	18.71	18.93	0.30	19.70
		1	0	17.36	17.21	17.31	1.55	17.70	17.24	17.37	17.30	2.30	17.70
		1	3	17.37	17.25	17.20	1.55	17.70	17.35	17.13	17.15	2.30	17.70
		1	5	17.28	17.22	17.33	1.55	17.70	17.20	17.12	17.33	2.30	17.70
		3	0	17.17	17.39	17.18	1.55	17.70	17.36	17.10	17.38	2.30	17.70
		3	1	17.14	17.26	17.36	1.55	17.70	17.23	17.12	17.15	2.30	17.70
	256QAM	3	3	17.22	17.40	17.38	1.55	17.70	17.11	17.17	17.11	2.30	17.70
		6	0	17.36	17.35	17.36	1.55	17.70	17.27	17.36	17.16	2.30	17.70

LTE Band 26 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26740.00	26865.00	26990.00	MPR	Tune-up Limit	26740.00	26865.00	26990.00	MPR	Tune-up Limit
				819 MHz	831.5 MHz	844 MHz			819 MHz	831.5 MHz	844 MHz		
10 MHz	QPSK	1	0	24.99	24.97	24.99	0.00	25.70	24.99	24.97	24.99	0.00	25.70
		1	25	24.92	24.94	24.88	0.00	25.70	24.92	24.94	24.88	0.00	25.70
		1	49	24.81	24.88	24.86	0.00	25.70	24.81	24.88	24.86	0.00	25.70
		25	0	24.09	23.98	23.93	1.00	24.70	24.09	23.98	23.93	1.00	24.70
		25	12	24.08	24.04	23.91	1.00	24.70	24.08	24.04	23.91	1.00	24.70
		25	25	23.94	23.94	23.90	1.00	24.70	23.94	23.94	23.90	1.00	24.70
	16QAM	50	0	24.03	24.00	23.87	1.00	24.70	24.03	24.00	23.87	1.00	24.70
		1	0	24.17	23.99	24.37	1.00	24.70	24.17	23.99	24.37	1.00	24.70
		1	25	23.99	23.91	24.34	1.00	24.70	23.99	23.91	24.34	1.00	24.70
		1	49	23.96	23.87	24.25	1.00	24.70	23.96	23.87	24.25	1.00	24.70
		25	0	23.19	23.02	22.97	2.00	23.70	23.19	23.02	22.97	2.00	23.70
		25	12	23.18	23.02	22.96	2.00	23.70	23.18	23.02	22.96	2.00	23.70
	64QAM	25	25	23.05	22.97	22.91	2.00	23.70	23.05	22.97	22.91	2.00	23.70
		50	0	23.10	22.98	22.91	2.00	23.70	23.10	22.98	22.91	2.00	23.70
		1	0	23.24	23.66	23.01	2.00	23.70	23.24	23.66	23.01	2.00	23.70
		1	25	23.49	23.63	22.94	2.00	23.70	23.49	23.63	22.94	2.00	23.70
		1	49	23.53	23.67	22.85	2.00	23.70	23.53	23.67	22.85	2.00	23.70
		25	0	22.56	22.50	21.99	3.00	22.70	22.56	22.50	21.99	3.00	22.70
	256QAM	25	12	22.64	22.56	22.03	3.00	22.70	22.64	22.56	22.03	3.00	22.70
		25	25	22.47	22.51	21.85	3.00	22.70	22.47	22.51	21.85	3.00	22.70
		50	0	22.39	22.49	21.82	3.00	22.70	22.39	22.49	21.82	3.00	22.70
		1	0	20.47	20.60	20.68	5.00	20.70	20.47	20.60	20.68	5.00	20.70
		1	25	20.46	20.56	20.51	5.00	20.70	20.46	20.56	20.51	5.00	20.70
		1	49	20.70	20.63	20.44	5.00	20.70	20.70	20.63	20.44	5.00	20.70
5 MHz	QPSK	25	0	20.70	20.40	20.53	5.00	20.70	20.70	20.40	20.53	5.00	20.70
		25	12	20.60	20.50	20.67	5.00	20.70	20.60	20.50	20.67	5.00	20.70
		25	25	20.43	20.46	20.44	5.00	20.70	20.43	20.46	20.44	5.00	20.70
		50	0	20.49	20.51	20.62	5.00	20.70	20.49	20.51	20.62	5.00	20.70
	16QAM	1	0	25.16	25.05	24.92	0.00	25.70	25.16	25.05	24.92	0.00	25.70
		1	12	25.08	25.04	24.90	0.00	25.70	25.08	25.04	24.90	0.00	25.70
		1	24	24.98	25.03	24.81	0.00	25.70	24.98	25.03	24.81	0.00	25.70
		12	0	24.16	23.96	24.00	1.00	24.70	24.16	23.96	24.00	1.00	24.70
		12	7	24.12	24.01	23.98	1.00	24.70	24.12	24.01	23.98	1.00	24.70
		12	13	24.02	23.94	23.91	1.00	24.70	24.02	23.94	23.91	1.00	24.70
	64QAM	25	0	24.10	23.97	23.95	1.00	24.70	24.10	23.97	23.95	1.00	24.70
		1	0	24.34	24.20	24.56	1.00	24.70	24.34	24.20	24.56	1.00	24.70
		1	12	24.29	24.18	24.48	1.00	24.70	24.29	24.18	24.48	1.00	24.70
		1	24	24.21	24.19	24.38	1.00	24.70	24.21	24.19	24.38	1.00	24.70
		12	0	23.21	23.04	23.09	2.00	23.70	23.21	23.04	23.09	2.00	23.70
		12	7	23.20	23.09	23.07	2.00	23.70	23.20	23.09	23.07	2.00	23.70
	256QAM	12	13	23.13	23.04	23.01	2.00	23.70	23.13	23.04	23.01	2.00	23.70
		25	0	23.07	23.04	22.97	2.00	23.70	23.07	23.04	22.97	2.00	23.70
		1	0	23.32	23.42	22.87	2.00	23.70	23.32	23.42	22.87	2.00	23.70
		1	12	23.70	23.46	22.84	2.00	23.70	23.70	23.46	22.84	2.00	23.70
		1	24	23.65	23.41	23.30	2.00	23.70	23.65	23.41	23.30	2.00	23.70
		12	0	22.26	22.54	21.84	3.00	22.70	22.26	22.54	21.84	3.00	22.70
	64QAM	12	7	22.48	22.56	21.92	3.00	22.70	22.48	22.56	21.92	3.00	22.70
		12	13	22.49	22.51	21.81	3.00	22.70	22.49	22.51	21.81	3.00	22.70
		25	0	22.38	22.46	21.74	3.00	22.70	22.38	22.46	21.74	3.00	22.70
	256QAM	1	0	20.48	20.61	20.49	5.00	20.70	20.48	20.61	20.49	5.00	20.70
		1	12	20.67	20.62	20.65	5.00	20.70	20.67	20.62	20.65	5.00	20.70
		1	24	20.58	20.56	20.59	5.00	20.70	20.58	20.56	20.59	5.00	20.70
	16QAM	12	0	20.51	20.61	20.50	5.00	20.70	20.51	20.61	20.50	5.00	20.70
		12	7	20.67	20.47	20.60	5.00	20.70	20.67	20.47	20.60	5.00	20.70
		12	13	20.40	20.48	20.57	5.00	20.70	20.40	20.48	20.57	5.00	20.70
		25	0	20.44	20.52	20.65	5.00	20.70	20.44	20.52	20.65	5.00	20.70

LTE Band 26 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26705.00	26865.00	27025.00	MPR	Tune-up Limit	26705.00	26865.00	27025.00	MPR	Tune-up Limit
				815.5 MHz	831.5 MHz	847.5 MHz			815.5 MHz	831.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	25.06	24.89	24.91	0.00	25.70	25.06	24.89	24.91	0.00	25.70
		1	8	24.98	24.85	24.86	0.00	25.70	24.98	24.85	24.86	0.00	25.70
		1	14	24.91	24.93	24.84	0.00	25.70	24.91	24.93	24.84	0.00	25.70
		8	0	24.11	23.98	23.89	1.00	24.70	24.11	23.98	23.89	1.00	24.70
		8	4	24.11	24.06	23.90	1.00	24.70	24.11	24.06	23.90	1.00	24.70
		8	7	24.07	24.01	23.93	1.00	24.70	24.07	24.01	23.93	1.00	24.70
	16QAM	15	0	24.08	24.00	23.91	1.00	24.70	24.08	24.00	23.91	1.00	24.70
		1	0	24.21	23.94	24.32	1.00	24.70	24.21	23.94	24.32	1.00	24.70
		1	8	24.10	23.95	24.25	1.00	24.70	24.10	23.95	24.25	1.00	24.70
		1	14	24.04	23.98	24.28	1.00	24.70	24.04	23.98	24.28	1.00	24.70
		8	0	23.14	23.08	23.03	2.00	23.70	23.14	23.08	23.03	2.00	23.70
		8	4	23.15	23.15	23.00	2.00	23.70	23.15	23.15	23.00	2.00	23.70
	64QAM	8	7	23.13	23.10	22.99	2.00	23.70	23.13	23.10	22.99	2.00	23.70
		15	0	23.07	23.05	22.94	2.00	23.70	23.07	23.05	22.94	2.00	23.70
		1	0	23.09	23.68	22.90	2.00	23.70	23.09	23.68	22.90	2.00	23.70
		1	8	23.38	23.67	23.17	2.00	23.70	23.38	23.67	23.17	2.00	23.70
		1	14	23.55	23.67	23.36	2.00	23.70	23.55	23.67	23.36	2.00	23.70
		8	0	22.24	22.51	21.76	3.00	22.70	22.24	22.51	21.76	3.00	22.70
	256QAM	8	4	22.44	22.61	21.75	3.00	22.70	22.44	22.61	21.75	3.00	22.70
		8	7	22.50	22.58	21.71	3.00	22.70	22.50	22.58	21.71	3.00	22.70
		15	0	22.40	22.47	21.75	3.00	22.70	22.40	22.47	21.75	3.00	22.70
		1	0	20.63	20.48	20.42	5.00	20.70	20.63	20.48	20.42	5.00	20.70
		1	8	20.58	20.45	20.44	5.00	20.70	20.58	20.45	20.44	5.00	20.70
		1	14	20.41	20.52	20.43	5.00	20.70	20.41	20.52	20.43	5.00	20.70
1.4 MHz	QPSK	8	0	20.65	20.62	20.52	5.00	20.70	20.65	20.62	20.52	5.00	20.70
		8	4	20.66	20.58	20.56	5.00	20.70	20.66	20.58	20.56	5.00	20.70
		8	7	20.57	20.45	20.44	5.00	20.70	20.57	20.45	20.44	5.00	20.70
		15	0	20.58	20.50	20.60	5.00	20.70	20.58	20.50	20.60	5.00	20.70
	16QAM	1	0	25.48	25.28	25.28	0.00	25.70	25.48	25.28	25.28	0.00	25.70
		1	3	25.50	25.37	25.32	0.00	25.70	25.50	25.37	25.32	0.00	25.70
		1	5	25.45	25.30	25.24	0.00	25.70	25.45	25.30	25.24	0.00	25.70
		3	0	25.51	25.32	25.21	0.00	25.70	25.51	25.32	25.21	0.00	25.70
		3	1	25.52	25.39	25.29	0.00	25.70	25.52	25.39	25.29	0.00	25.70
		3	3	25.54	25.34	25.25	0.00	25.70	25.54	25.34	25.25	0.00	25.70
	64QAM	6	0	24.02	23.90	23.78	1.00	24.70	24.02	23.90	23.78	1.00	24.70
		1	0	24.46	23.90	23.92	1.00	24.70	24.46	23.90	23.92	1.00	24.70
		1	3	24.49	24.06	23.99	1.00	24.70	24.49	24.06	23.99	1.00	24.70
		1	5	24.39	23.95	23.90	1.00	24.70	24.39	23.95	23.90	1.00	24.70
		3	0	24.21	24.08	23.87	1.00	24.70	24.21	24.08	23.87	1.00	24.70
		3	1	24.28	24.18	23.87	1.00	24.70	24.28	24.18	23.87	1.00	24.70
	256QAM	3	3	24.23	24.13	23.87	1.00	24.70	24.23	24.13	23.87	1.00	24.70
		6	0	22.96	23.08	22.97	2.00	23.70	22.96	23.08	22.97	2.00	23.70
		1	0	23.29	23.59	23.46	2.00	23.70	23.29	23.59	23.46	2.00	23.70
		1	3	23.49	23.70	23.44	2.00	23.70	23.49	23.70	23.44	2.00	23.70
		1	5	23.49	23.63	23.17	2.00	23.70	23.49	23.63	23.17	2.00	23.70
		3	0	23.31	23.40	23.62	2.00	23.70	23.31	23.40	23.62	2.00	23.70
1.4 MHz	64QAM	3	1	23.45	23.43	23.59	2.00	23.70	23.45	23.43	23.59	2.00	23.70
		3	3	23.48	23.44	23.53	2.00	23.70	23.48	23.44	23.53	2.00	23.70
		6	0	22.04	22.48	22.68	3.00	22.70	22.04	22.48	22.68	3.00	22.70
	256QAM	1	0	20.6	20.4	20.6	5	20.7	20.6	20.4	20.6	5	20.7
		1	3	20.7	20.4	20.5	5	20.7	20.7	20.4	20.5	5	20.7
		1	5	20.5	20.5	20.6	5	20.7	20.5	20.5	20.6	5	20.7
		3	0	20.4	20.4	20.5	5	20.7	20.4	20.4	20.5	5	20.7
		3	1	20.6	20.5	20.5	5	20.7	20.6	20.5	20.5	5	20.7
		3	3	20.7	20.6	20.7	5	20.7	20.7	20.6	20.7	5	20.7
	256QAM	6	0	20.6	20.4	20.5	5	20.7	20.6	20.4	20.5	5	20.7

LTE Band 26 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26740	26865	26990	MPR	Tune-up Limit	26740	26865	26990	MPR	Tune-up Limit
				819 MHz	831.5 MHz	844 MHz			819 MHz	831.5 MHz	844 MHz		
10 MHz	QPSK	1	0	23.54	23.52	23.55	0.00	23.90	23.54	23.52	23.55	0.00	23.90
		1	25	23.42	23.60	23.47	0.00	23.90	23.42	23.60	23.47	0.00	23.90
		1	49	23.35	23.45	23.40	0.00	23.90	23.35	23.45	23.40	0.00	23.90
		25	0	22.73	22.64	22.59	1.00	22.90	22.73	22.64	22.59	1.00	22.90
		25	12	22.69	22.80	22.59	1.00	22.90	22.69	22.80	22.59	1.00	22.90
		25	25	22.62	22.59	22.58	1.00	22.90	22.62	22.59	22.58	1.00	22.90
	16QAM	50	0	22.68	22.70	22.55	1.00	22.90	22.68	22.70	22.55	1.00	22.90
		1	0	22.60	22.67	22.09	1.00	22.90	22.60	22.67	22.09	1.00	22.90
		1	25	22.61	22.55	22.00	1.00	22.90	22.61	22.55	22.00	1.00	22.90
		1	49	22.61	22.53	21.93	1.00	22.90	22.61	22.53	21.93	1.00	22.90
		25	0	21.85	21.68	21.69	2.00	21.90	21.85	21.68	21.69	2.00	21.90
		25	12	21.81	21.70	21.62	2.00	21.90	21.81	21.70	21.62	2.00	21.90
	64QAM	25	25	21.74	21.64	21.60	2.00	21.90	21.74	21.64	21.60	2.00	21.90
		50	0	21.72	21.67	21.60	2.00	21.90	21.72	21.67	21.60	2.00	21.90
		1	0	21.59	21.34	21.40	2.00	21.90	21.59	21.34	21.40	2.00	21.90
		1	25	21.57	21.31	21.68	2.00	21.90	21.57	21.31	21.68	2.00	21.90
		1	49	21.63	21.90	21.00	2.00	21.90	21.63	21.90	21.00	2.00	21.90
		25	0	20.65	20.32	20.20	3.00	20.90	20.65	20.32	20.20	3.00	20.90
	256QAM	25	12	20.63	20.23	20.41	3.00	20.90	20.63	20.23	20.41	3.00	20.90
		25	25	20.51	19.96	20.25	3.00	20.90	20.51	19.96	20.25	3.00	20.90
		50	0	20.49	19.94	20.18	3.00	20.90	20.49	19.94	20.18	3.00	20.90
		1	0	18.21	18.25	18.44	5.00	18.90	18.21	18.25	18.44	5.00	18.90
		1	25	18.48	18.39	18.27	5.00	18.90	18.48	18.39	18.27	5.00	18.90
		1	49	18.37	18.35	18.34	5.00	18.90	18.37	18.35	18.34	5.00	18.90
5 MHz	QPSK	25	0	18.26	18.30	18.42	5.00	18.90	18.26	18.30	18.42	5.00	18.90
		25	12	18.49	18.47	18.20	5.00	18.90	18.49	18.47	18.20	5.00	18.90
		25	25	18.45	18.45	18.25	5.00	18.90	18.45	18.45	18.25	5.00	18.90
		50	0	18.26	18.42	18.28	5.00	18.90	18.26	18.42	18.28	5.00	18.90
	16QAM	1	0	23.20	23.59	23.47	0.00	23.90	23.20	23.59	23.47	0.00	23.90
		1	12	23.60	23.59	23.45	0.00	23.90	23.60	23.59	23.45	0.00	23.90
		1	24	23.51	23.61	23.35	0.00	23.90	23.51	23.61	23.35	0.00	23.90
		12	0	22.81	22.63	22.66	1.00	22.90	22.81	22.63	22.66	1.00	22.90
		12	7	22.75	22.70	22.65	1.00	22.90	22.75	22.70	22.65	1.00	22.90
		12	13	22.70	22.59	22.56	1.00	22.90	22.70	22.59	22.56	1.00	22.90
	64QAM	25	0	22.72	22.64	22.63	1.00	22.90	22.72	22.64	22.63	1.00	22.90
		1	0	22.90	22.83	22.20	1.00	22.90	22.90	22.83	22.20	1.00	22.90
		1	12	22.87	22.84	22.16	1.00	22.90	22.87	22.84	22.16	1.00	22.90
		1	24	22.78	22.84	22.09	1.00	22.90	22.78	22.84	22.09	1.00	22.90
		12	0	21.86	21.76	21.81	2.00	21.90	21.86	21.76	21.81	2.00	21.90
		12	7	21.85	21.76	21.80	2.00	21.90	21.85	21.76	21.80	2.00	21.90
	256QAM	12	13	21.74	21.72	21.73	2.00	21.90	21.74	21.72	21.73	2.00	21.90
		25	0	21.70	21.71	21.69	2.00	21.90	21.70	21.71	21.69	2.00	21.90
		1	0	21.54	21.63	21.23	2.00	21.90	21.54	21.63	21.23	2.00	21.90
		1	12	21.81	21.62	21.17	2.00	21.90	21.81	21.62	21.17	2.00	21.90
		1	24	21.61	21.55	21.44	2.00	21.90	21.61	21.55	21.44	2.00	21.90
		12	0	20.49	20.52	20.44	3.00	20.90	20.49	20.52	20.44	3.00	20.90
	64QAM	12	7	20.61	20.51	20.46	3.00	20.90	20.61	20.51	20.46	3.00	20.90
		12	13	20.53	20.43	20.09	3.00	20.90	20.53	20.43	20.09	3.00	20.90
		25	0	20.48	20.39	20.05	3.00	20.90	20.48	20.39	20.05	3.00	20.90
	256QAM	1	0	18.44	18.44	18.40	5.00	18.90	18.44	18.44	18.40	5.00	18.90
		1	12	18.33	18.45	18.38	5.00	18.90	18.33	18.45	18.38	5.00	18.90
		1	24	18.44	18.20	18.26	5.00	18.90	18.44	18.20	18.26	5.00	18.90
		12	0	18.32	18.25	18.46	5.00	18.90	18.32	18.25	18.46	5.00	18.90
		12	7	18.48	18.21	18.25	5.00	18.90	18.48	18.21	18.25	5.00	18.90
		12	13	18.22	18.31	18.38	5.00	18.90	18.22	18.31	18.38	5.00	18.90
	256QAM	25	0	18.39	18.35	18.44	5.00	18.90	18.39	18.35	18.44	5.00	18.90

LTE Band 26 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26705	26865	27025	MPR	Tune-up Limit	26705	26865	27025	MPR	Tune-up Limit
				815.5 MHz	831.5 MHz	847.5 MHz			815.5 MHz	831.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	23.57	23.43	23.48	0.00	23.90	23.57	23.43	23.48	0.00	23.90
		1	8	23.52	23.44	23.44	0.00	23.90	23.52	23.44	23.44	0.00	23.90
		1	14	23.45	23.52	23.42	0.00	23.90	23.45	23.52	23.42	0.00	23.90
		8	0	22.74	22.59	22.60	1.00	22.90	22.74	22.59	22.60	1.00	22.90
		8	4	22.73	22.66	22.62	1.00	22.90	22.73	22.66	22.62	1.00	22.90
		8	7	22.71	22.67	22.62	1.00	22.90	22.71	22.67	22.62	1.00	22.90
	16QAM	15	0	22.69	22.65	22.58	1.00	22.90	22.69	22.65	22.58	1.00	22.90
		1	0	22.82	22.61	22.05	1.00	22.90	22.82	22.61	22.05	1.00	22.90
		1	8	22.72	22.58	21.96	1.00	22.90	22.72	22.58	21.96	1.00	22.90
		1	14	22.67	22.58	21.94	1.00	22.90	22.67	22.58	21.94	1.00	22.90
		8	0	21.82	21.77	21.68	2.00	21.90	21.82	21.77	21.68	2.00	21.90
		8	4	21.78	21.83	21.68	2.00	21.90	21.78	21.83	21.68	2.00	21.90
	64QAM	8	7	21.78	21.77	21.55	2.00	21.90	21.78	21.77	21.55	2.00	21.90
		15	0	21.70	21.72	21.53	2.00	21.90	21.70	21.72	21.53	2.00	21.90
		1	0	21.41	21.32	21.48	2.00	21.90	21.41	21.32	21.48	2.00	21.90
		1	8	21.56	21.27	21.12	2.00	21.90	21.56	21.27	21.12	2.00	21.90
		1	14	21.63	21.29	21.00	2.00	21.90	21.63	21.29	21.00	2.00	21.90
		8	0	20.55	20.18	20.20	3.00	20.90	20.55	20.18	20.20	3.00	20.90
1.4 MHz	QPSK	8	4	20.71	20.20	20.10	3.00	20.90	20.71	20.20	20.10	3.00	20.90
		8	7	20.73	20.21	19.98	3.00	20.90	20.73	20.21	19.98	3.00	20.90
		15	0	20.65	20.22	19.90	3.00	20.90	20.65	20.22	19.90	3.00	20.90
	16QAM	1	0	18.27	18.38	18.20	5.00	18.90	18.27	18.38	18.20	5.00	18.90
		1	8	18.44	18.43	18.21	5.00	18.90	18.44	18.43	18.21	5.00	18.90
		1	14	18.26	18.48	18.32	5.00	18.90	18.26	18.48	18.32	5.00	18.90
	64QAM	8	0	18.40	18.43	18.29	5.00	18.90	18.40	18.43	18.29	5.00	18.90
		8	4	18.50	18.36	18.25	5.00	18.90	18.50	18.36	18.25	5.00	18.90
		8	7	18.36	18.45	18.28	5.00	18.90	18.36	18.45	18.28	5.00	18.90
	256QAM	15	0	18.26	18.43	18.23	5.00	18.90	18.26	18.43	18.23	5.00	18.90
		1	0	23.55	23.31	23.37	0.00	23.90	23.55	23.31	23.37	0.00	23.90
	QPSK	1	3	23.59	23.41	23.41	0.00	23.90	23.59	23.41	23.41	0.00	23.90
		1	5	23.48	23.33	23.32	0.00	23.90	23.48	23.33	23.32	0.00	23.90
		3	0	23.05	22.95	22.93	0.00	23.90	23.05	22.95	22.93	0.00	23.90
		3	1	23.13	23.02	22.95	0.00	23.90	23.13	23.02	22.95	0.00	23.90
	16QAM	3	3	23.10	23.01	22.96	0.00	23.90	23.10	23.01	22.96	0.00	23.90
		6	0	22.67	22.56	22.50	1.00	22.90	22.67	22.56	22.50	1.00	22.90
	64QAM	1	0	22.80	22.56	22.60	1.00	22.90	22.80	22.56	22.60	1.00	22.90
		1	3	22.89	22.70	22.65	1.00	22.90	22.89	22.70	22.65	1.00	22.90
		1	5	22.78	22.60	22.84	1.00	22.90	22.78	22.60	22.84	1.00	22.90
		3	0	22.71	22.77	22.69	1.00	22.90	22.71	22.77	22.69	1.00	22.90
1.4 MHz	QPSK	3	1	22.79	22.80	22.70	1.00	22.90	22.79	22.80	22.70	1.00	22.90
		3	3	22.74	22.80	22.74	1.00	22.90	22.74	22.80	22.74	1.00	22.90
		6	0	21.83	21.76	21.73	2.00	21.90	21.83	21.76	21.73	2.00	21.90
	16QAM	1	0	21.58	21.34	21.82	2.00	21.90	21.58	21.34	21.82	2.00	21.90
		1	3	21.70	21.49	21.90	2.00	21.90	21.70	21.49	21.90	2.00	21.90
		1	5	21.63	21.39	21.69	2.00	21.90	21.63	21.39	21.69	2.00	21.90
	64QAM	3	0	21.56	20.97	21.85	2.00	21.90	21.56	20.97	21.85	2.00	21.90
		3	1	21.61	21.03	21.84	2.00	21.90	21.61	21.03	21.84	2.00	21.90
		3	3	21.66	21.00	21.69	2.00	21.90	21.66	21.00	21.69	2.00	21.90
	256QAM	6	0	20.74	20.17	20.40	3.00	20.90	20.74	20.17	20.40	3.00	20.90
		1	0	18.25	18.24	18.22	5.00	18.90	18.25	18.24	18.22	5.00	18.90
		1	3	18.20	18.24	18.22	5.00	18.90	18.20	18.24	18.22	5.00	18.90
		1	5	18.33	18.22	18.35	5.00	18.90	18.33	18.22	18.35	5.00	18.90
		3	0	18.26	18.47	18.22	5.00	18.90	18.26	18.47	18.22	5.00	18.90
		3	1	18.38	18.39	18.35	5.00	18.90	18.38	18.39	18.35	5.00	18.90
	QPSK	3	3	18.23	18.39	18.31	5.00	18.90	18.23	18.39	18.31	5.00	18.90
		6	0	18.47	18.24	18.36	5.00	18.90	18.47	18.24	18.36	5.00	18.90

LTE Band 30 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					27710 2310 MHz		MPR	Tune-up Limit		27710 2310 MHz		MPR	Tune-up Limit
10 MHz	QPSK	1	0		25.03		0.00	25.70		20.69		0.00	21.25
		1	25		25.20		0.00	25.70		20.68		0.00	21.25
		1	49		25.17		0.00	25.70		20.74		0.00	21.25
		25	0		24.04		1.00	24.70		20.82		0.00	21.25
		25	12		24.30		1.00	24.70		20.79		0.00	21.25
		25	25		24.13		1.00	24.70		20.86		0.00	21.25
	16QAM	50	0		24.30		1.00	24.70		20.77		0.00	21.25
		1	0		24.26		1.00	24.70		21.16		0.00	21.25
		1	25		24.26		1.00	24.70		21.06		0.00	21.25
		1	49		24.20		1.00	24.70		21.15		0.00	21.25
		25	0		23.51		2.00	23.70		20.83		0.00	21.25
		25	12		23.54		2.00	23.70		20.89		0.00	21.25
	64QAM	25	25		23.51		2.00	23.70		20.84		0.00	21.25
		50	0		23.50		2.00	23.70		20.79		0.00	21.25
		1	0		23.29		2.00	23.70		20.79		0.00	21.25
		1	25		23.44		2.00	23.70		20.86		0.00	21.25
		1	49		23.46		2.00	23.70		20.88		0.00	21.25
		25	0		22.22		3.00	22.70		20.63		0.00	21.25
	256QAM	25	12		22.23		3.00	22.70		20.69		0.00	21.25
		25	25		22.25		3.00	22.70		20.71		0.00	21.25
		50	0		22.20		3.00	22.70		20.62		0.00	21.25
		1	0		20.11		5.00	20.70		20.15		0.55	20.70
		1	25		20.30		5.00	20.70		20.21		0.55	20.70
		1	49		20.25		5.00	20.70		20.20		0.55	20.70
	25	0		20.11		5.00	20.70		20.13		0.55	20.70	
	25	12		20.05		5.00	20.70		20.12		0.55	20.70	
	25	25		20.24		5.00	20.70		20.20		0.55	20.70	
	50	0		20.22		5.00	20.70		20.21		0.55	20.70	

LTE Band 30 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					27710 2310 MHz		MPR	Tune-up Limit		27710 2310 MHz		MPR	Tune-up Limit
10 MHz	QPSK	1	0		20.31		0.00	21.00		20.31		0.00	21.00
		1	25		21.00		0.00	21.00		21.00		0.00	21.00
		1	49		20.30		0.00	21.00		20.30		0.00	21.00
		25	0		20.42		0.00	21.00		20.42		0.00	21.00
		25	12		21.00		0.00	21.00		21.00		0.00	21.00
		25	25		20.49		0.00	21.00		20.49		0.00	21.00
		50	0		21.00		0.00	21.00		21.00		0.00	21.00
	16QAM	1	0		20.47		0.00	21.00		20.47		0.00	21.00
		1	25		20.38		0.00	21.00		20.38		0.00	21.00
		1	49		20.43		0.00	21.00		20.43		0.00	21.00
		25	0		19.93		0.20	20.80		19.93		0.20	20.80
		25	12		19.98		0.20	20.80		19.98		0.20	20.80
		25	25		19.98		0.20	20.80		19.98		0.20	20.80
		50	0		19.91		0.20	20.80		19.91		0.20	20.80
	64QAM	1	0		20.03		0.20	20.80		20.03		0.20	20.80
		1	25		20.02		0.20	20.80		20.02		0.20	20.80
		1	49		20.02		0.20	20.80		20.02		0.20	20.80
		25	0		18.91		1.20	19.80		18.91		1.20	19.80
		25	12		18.94		1.20	19.80		18.94		1.20	19.80
		25	25		19.00		1.20	19.80		19.00		1.20	19.80
		50	0		18.89		1.20	19.80		18.89		1.20	19.80
	256QAM	1	0		17.00		3.20	17.80		17.00		3.20	17.80
		1	25		17.02		3.20	17.80		17.02		3.20	17.80
		1	49		17.25		3.20	17.80		17.25		3.20	17.80
		25	0		17.26		3.20	17.80		17.26		3.20	17.80
		25	12		17.00		3.20	17.80		17.00		3.20	17.80
		25	25		17.14		3.20	17.80		17.14		3.20	17.80
		50	0		17.04		3.20	17.80		17.04		3.20	17.80
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					27710 2310 MHz		MPR	Tune-up Limit		27710 2310 MHz		MPR	Tune-up Limit
5 MHz	QPSK	1	0		20.43		0.00	21.00		20.43		0.00	21.00
		1	12		20.40		0.00	21.00		20.40		0.00	21.00
		1	24		20.50		0.00	21.00		20.50		0.00	21.00
		12	0		20.38		0.00	21.00		20.38		0.00	21.00
		12	7		20.42		0.00	21.00		20.42		0.00	21.00
		12	13		20.43		0.00	21.00		20.43		0.00	21.00
		25	0		20.44		0.00	21.00		20.44		0.00	21.00
	16QAM	1	0		20.59		0.00	21.00		20.59		0.00	21.00
		1	12		20.55		0.00	21.00		20.55		0.00	21.00
		1	24		20.64		0.00	21.00		20.64		0.00	21.00
		12	0		19.92		0.20	20.80		19.92		0.20	20.80
		12	7		19.91		0.20	20.80		19.91		0.20	20.80
		12	13		19.94		0.20	20.80		19.94		0.20	20.80
		25	0		19.84		0.20	20.80		19.84		0.20	20.80
	64QAM	1	0		20.09		0.20	20.80		20.09		0.20	20.80
		1	12		20.10		0.20	20.80		20.10		0.20	20.80
		1	24		20.19		0.20	20.80		20.19		0.20	20.80
		12	0		18.88		1.20	19.80		18.88		1.20	19.80
		12	7		18.92		1.20	19.80		18.92		1.20	19.80
		12	13		18.96		1.20	19.80		18.96		1.20	19.80
		25	0		18.88		1.20	19.80		18.88		1.20	19.80
	256QAM	1	0		17.06		3.20	17.80		17.06		3.20	17.80
		1	12		17.12		3.20	17.80		17.12		3.20	17.80
		1	24		17.13		3.20	17.80		17.13		3.20	17.80
		12	0		17.03		3.20	17.80		17.03		3.20	17.80
		12	7		17.21		3.20	17.80		17.21		3.20	17.80
		12	13		17.24		3.20	17.80		17.24		3.20	17.80
		25	0		17.10		3.20	17.80		17.10		3.20	17.80

LTE Band 30 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					27710.00 2310 MHz		MPR	Tune-up Limit		27710.00 2310 MHz		MPR	Tune-up Limit
10 MHz	QPSK	1	0		23.79		0.00	24.70		19.06		0.00	19.50
		1	25		24.20		0.00	24.70		19.50		0.00	19.50
		1	49		23.74		0.00	24.70		19.07		0.00	19.50
		25	0		23.20		1.00	23.70		19.27		0.00	19.50
		25	12		23.30		1.00	23.70		19.50		0.00	19.50
		25	25		22.71		1.00	23.70		19.33		0.00	19.50
		50	0		22.72		1.00	23.70		19.50		0.00	19.50
	16QAM	1	0		22.70		1.00	23.70		19.32		0.00	19.50
		1	25		22.70		1.00	23.70		19.28		0.00	19.50
		1	49		22.71		1.00	23.70		19.26		0.00	19.50
		25	0		21.79		2.00	22.70		19.38		0.00	19.50
		25	12		21.85		2.00	22.70		19.45		0.00	19.50
		25	25		21.85		2.00	22.70		19.45		0.00	19.50
		50	0		21.75		2.00	22.70		19.36		0.00	19.50
	64QAM	1	0		21.76		2.00	22.70		19.42		0.00	19.50
		1	25		21.86		2.00	22.70		19.44		0.00	19.50
		1	49		21.74		2.00	22.70		19.45		0.00	19.50
		25	0		20.73		3.00	21.70		19.38		0.00	19.50
		25	12		20.76		3.00	21.70		19.43		0.00	19.50
		25	25		20.78		3.00	21.70		19.46		0.00	19.50
		50	0		20.73		3.00	21.70		19.37		0.00	19.50
	256QAM	1	0		18.91		5.00	19.70		18.92		0.00	19.50
		1	25		19.15		5.00	19.70		19.07		0.00	19.50
		1	49		19.12		5.00	19.70		19.12		0.00	19.50
		25	0		19.11		5.00	19.70		19.19		0.00	19.50
		25	12		18.99		5.00	19.70		18.96		0.00	19.50
		25	25		18.97		5.00	19.70		18.94		0.00	19.50
		50	0		19.10		5.00	19.70		19.05		0.00	19.50
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					27710.00 2310 MHz		MPR	Tune-up Limit		27710.00 2310 MHz		MPR	Tune-up Limit
5 MHz	QPSK	1	0		23.86		0.00	24.70		19.26		0.00	19.50
		1	12		23.92		0.00	24.70		19.34		0.00	19.50
		1	24		23.94		0.00	24.70		19.33		0.00	19.50
		12	0		23.20		1.00	23.70		19.25		0.00	19.50
		12	7		23.10		1.00	23.70		19.30		0.00	19.50
		12	13		23.10		1.00	23.70		19.29		0.00	19.50
		25	0		23.10		1.00	23.70		19.31		0.00	19.50
	16QAM	1	0		22.74		1.00	23.70		19.40		0.00	19.50
		1	12		22.77		1.00	23.70		19.48		0.00	19.50
		1	24		22.87		1.00	23.70		19.50		0.00	19.50
		12	0		21.70		2.00	22.70		19.37		0.00	19.50
		12	7		21.75		2.00	22.70		19.40		0.00	19.50
		12	13		21.76		2.00	22.70		19.42		0.00	19.50
		25	0		21.71		2.00	22.70		19.36		0.00	19.50
	64QAM	1	0		21.80		2.00	22.70		19.42		0.00	19.50
		1	12		21.91		2.00	22.70		19.47		0.00	19.50
		1	24		21.92		2.00	22.70		19.48		0.00	19.50
		12	0		20.71		3.00	21.70		19.33		0.00	19.50
		12	7		20.75		3.00	21.70		19.42		0.00	19.50
		12	13		20.75		3.00	21.70		19.40		0.00	19.50
		25	0		20.70		3.00	21.70		19.33		0.00	19.50
	256QAM	1	0		18.99		5.00	19.70		19.02		0.00	19.50
		1	12		19.02		5.00	19.70		19.17		0.00	19.50
		1	24		18.97		5.00	19.70		18.91		0.00	19.50
		12	0		19.15		5.00	19.70		19.18		0.00	19.50
		12	7		19.12		5.00	19.70		19.03		0.00	19.50
		12	13		19.15		5.00	19.70		19.10		0.00	19.50
		25	0		18.92		5.00	19.70		19.05		0.00	19.50

LTE Band 30 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					27710 2310 MHz		MPR	Tune-up Limit		27710 2310 MHz		MPR	Tune-up Limit
10 MHz	QPSK	1	0		19.22		0.00	20.00		18.81		0.00	19.00
		1	25		19.75		0.00	20.00		19.00		0.00	19.00
		1	49		19.26		0.00	20.00		18.88		0.00	19.00
		25	0		19.42		0.00	20.00		18.91		0.00	19.00
		25	12		19.75		0.00	20.00		19.00		0.00	19.00
		25	25		19.49		0.00	20.00		18.99		0.00	19.00
		50	0		19.75		0.00	20.00		19.00		0.00	19.00
	16QAM	1	0		19.45		0.00	20.00		18.95		0.00	19.00
		1	25		19.42		0.00	20.00		18.92		0.00	19.00
		1	49		19.45		0.00	20.00		18.95		0.00	19.00
		25	0		19.55		0.00	20.00		18.86		0.00	19.00
		25	12		19.59		0.00	20.00		18.89		0.00	19.00
		25	25		19.59		0.00	20.00		18.90		0.00	19.00
		50	0		19.51		0.00	20.00		18.80		0.00	19.00
	64QAM	1	0		19.55		0.00	20.00		18.84		0.00	19.00
		1	25		19.60		0.00	20.00		18.95		0.00	19.00
		1	49		19.63		0.00	20.00		18.85		0.00	19.00
		25	0		18.51		0.80	19.20		18.51		0.00	19.00
		25	12		18.54		0.80	19.20		18.56		0.00	19.00
		25	25		18.62		0.80	19.20		18.61		0.00	19.00
		50	0		18.51		0.80	19.20		18.51		0.00	19.00
	256QAM	1	0		16.54		2.80	17.20		16.62		1.80	17.20
		1	25		16.75		2.80	17.20		16.56		1.80	17.20
		1	49		16.63		2.80	17.20		16.54		1.80	17.20
		25	0		16.74		2.80	17.20		16.61		1.80	17.20
		25	12		16.61		2.80	17.20		16.52		1.80	17.20
		25	25		16.65		2.80	17.20		16.58		1.80	17.20
		50	0		16.74		2.80	17.20		16.59		1.80	17.20
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)					
					27710 2310 MHz		MPR	Tune-up Limit		27710 2310 MHz		MPR	Tune-up Limit
5 MHz	QPSK	1	0		19.40		0.00	20.00		18.81		0.00	19.00
		1	12		19.47		0.00	20.00		18.89		0.00	19.00
		1	24		19.51		0.00	20.00		18.96		0.00	19.00
		12	0		19.42		0.00	20.00		18.73		0.00	19.00
		12	7		19.44		0.00	20.00		18.75		0.00	19.00
		12	13		19.43		0.00	20.00		18.74		0.00	19.00
		25	0		19.49		0.00	20.00		18.80		0.00	19.00
	16QAM	1	0		19.56		0.00	20.00		18.87		0.00	19.00
		1	12		19.62		0.00	20.00		18.92		0.00	19.00
		1	24		19.69		0.00	20.00		18.99		0.00	19.00
		12	0		19.51		0.00	20.00		18.62		0.00	19.00
		12	7		19.55		0.00	20.00		18.69		0.00	19.00
		12	13		19.56		0.00	20.00		18.68		0.00	19.00
		25	0		19.49		0.00	20.00		18.61		0.00	19.00
	64QAM	1	0		19.62		0.00	20.00		18.73		0.00	19.00
		1	12		19.73		0.00	20.00		18.83		0.00	19.00
		1	24		19.80		0.00	20.00		18.75		0.00	19.00
		12	0		18.48		0.80	19.20		18.51		0.00	19.00
		12	7		18.58		0.80	19.20		18.55		0.00	19.00
		12	13		18.57		0.80	19.20		18.56		0.00	19.00
		25	0		18.51		0.80	19.20		18.49		0.00	19.00
	256QAM	1	0		16.62		2.80	17.20		16.80		1.80	17.20
		1	12		16.77		2.80	17.20		16.73		1.80	17.20
		1	24		16.66		2.80	17.20		16.71		1.80	17.20
		12	0		16.66		2.80	17.20		16.73		1.80	17.20
		12	7		16.60		2.80	17.20		16.80		1.80	17.20
		12	13		16.77		2.80	17.20		16.66		1.80	17.20
		25	0		16.74		2.80	17.20		16.57		1.80	17.20

LTE Band 41 Power Class 3 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	24.81	24.76	24.88	24.88	24.78	0.00	25.70	23.16	23.12	23.19	23.15	23.05	0.00	23.25
		1	49	24.78	24.70	25.20	24.71	24.70	0.00	25.70	23.25	23.25	23.25	23.25	23.25	0.00	23.25
		1	99	24.74	24.71	24.80	24.78	24.80	0.00	25.70	23.12	23.14	23.19	23.17	23.10	0.00	23.25
		50	0	24.58	24.53	24.57	24.54	24.48	1.00	24.70	22.97	22.87	22.91	22.93	22.91	0.00	23.25
		50	24	24.64	24.64	24.70	24.61	24.49	1.00	24.70	23.25	23.25	23.25	23.25	23.25	0.00	23.25
		50	50	24.62	24.56	24.59	24.56	24.53	1.00	24.70	23.01	22.92	22.92	22.97	22.96	0.00	23.25
		100	0	24.66	24.61	24.70	24.60	24.50	1.00	24.70	23.05	22.95	23.25	23.00	22.92	0.00	23.25
		1	0	24.64	24.65	24.70	24.69	24.70	1.00	24.70	23.12	23.01	23.10	23.13	23.04	0.00	23.25
	16QAM	1	99	24.60	24.54	24.68	24.64	24.61	1.00	24.70	23.07	22.90	23.04	23.00	23.02	0.00	23.25
		50	0	23.58	23.57	23.62	23.59	23.51	2.00	23.70	23.00	22.92	22.95	23.00	22.95	0.00	23.25
		50	24	23.67	23.63	23.69	23.65	23.52	2.00	23.70	23.08	23.00	23.02	23.07	22.94	0.00	23.25
		50	50	23.66	23.59	23.65	23.59	23.60	2.00	23.70	23.05	22.95	22.98	23.02	22.99	0.00	23.25
		100	0	23.62	23.58	23.63	23.57	23.49	2.00	23.70	23.04	22.94	22.97	23.00	22.91	0.00	23.25
		1	0	23.47	23.46	23.54	23.55	23.57	2.00	23.70	22.96	22.87	22.91	22.93	22.87	0.00	23.25
		1	49	23.44	23.46	23.50	23.38	23.47	2.00	23.70	22.86	22.83	22.90	22.89	22.83	0.00	23.25
		1	99	23.47	23.38	23.58	22.91	23.44	2.00	23.70	22.91	22.93	22.98	22.91	22.85	0.00	23.25
	64QAM	50	0	22.60	22.57	22.59	22.57	22.55	3.00	22.70	22.01	21.92	21.97	21.98	21.94	0.55	22.70
		50	24	22.65	22.62	22.63	22.41	22.52	3.00	22.70	22.05	21.97	22.01	22.02	21.93	0.55	22.70
		50	50	22.63	22.59	22.61	22.15	22.58	3.00	22.70	22.01	21.96	21.96	22.01	21.98	0.55	22.70
		100	0	22.66	22.62	22.63	22.35	22.54	3.00	22.70	22.06	21.99	22.00	22.06	21.92	0.55	22.70
		1	0	20.38	20.29	20.45	20.23	20.29	5.00	20.70	20.38	20.24	20.49	20.25	20.21	2.55	20.70
		1	49	20.39	20.21	20.20	20.47	20.34	5.00	20.70	20.49	20.45	20.31	20.33	20.44	2.55	20.70
		1	99	20.32	20.22	20.42	20.22	20.50	5.00	20.70	20.49	20.42	20.35	20.39	20.43	2.55	20.70
		50	0	20.44	20.29	20.31	20.35	20.22	5.00	20.70	20.26	20.33	20.24	20.40	20.31	2.55	20.70
	256QAM	50	24	20.49	20.31	20.37	20.30	20.50	5.00	20.70	20.36	20.40	20.46	20.45	20.22	2.55	20.70
		50	50	20.27	20.43	20.24	20.47	20.25	5.00	20.70	20.26	20.21	20.37	20.36	20.44	2.55	20.70
		100	0	20.38	20.30	20.29	20.39	20.45	5.00	20.70	20.22	20.48	20.29	20.49	20.40	2.55	20.70
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750.00	40185.00	40620.00	41055.00	41490.00	MPR	Tune-up Limit	39750.00	40185.00	40620.00	41055.00	41490.00	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
15 MHz	QPSK	1	0	24.79	24.78	24.79	24.78	24.71	0.00	25.70	23.08	22.98	22.60	22.62	22.97	0.00	23.25
		1	37	24.79	24.72	24.75	24.72	24.70	0.00	25.70	23.05	23.15	23.22	23.19	23.15	0.00	23.25
		1	74	24.74	24.76	24.77	24.80	24.79	0.00	25.70	23.03	23.06	23.10	23.09	23.05	0.00	23.25
		36	0	24.56	24.52	24.56	24.55	24.48	1.00	24.70	22.89	22.88	22.93	22.97	22.86	0.00	23.25
		36	20	24.62	24.56	24.62	24.62	24.46	1.00	24.70	22.99	22.96	22.97	22.99	22.85	0.00	23.25
		36	39	24.62	24.54	24.59	24.58	24.55	1.00	24.70	22.97	22.91	22.97	23.00	22.91	0.00	23.25
		75	0	24.62	24.54	24.60	24.58	24.47	1.00	24.70	22.98	22.91	22.99	23.01	22.84	0.00	23.25
		1	0	24.53	24.54	24.67	24.63	24.45	1.00	24.70	22.96	22.98	23.06	23.00	22.85	0.00	23.25
	16QAM	1	37	24.61	24.47	24.59	24.52	24.50	1.00	24.70	23.03	22.89	22.96	22.88	22.87	0.00	23.25
		1	74	24.54	24.56	24.55	24.62	24.60	1.00	24.70	22.96	22.98	22.97	22.97	22.95	0.00	23.25
		36	0	23.56	23.52	23.58	23.57	23.50	2.00	23.70	22.93	22.91	22.95	22.97	22.89	0.00	23.25
		36	20	23.65	23.59	23.63	23.60	23.48	2.00	23.70	23.02	22.96	23.03	23.05	22.87	0.00	23.25
		36	39	23.62	23.56	23.61	23.59	23.53	2.00	23.70	23.00	22.94	22.99	23.00	22.92	0.00	23.25
		75	0	23.64	23.56	23.62	23.59	23.48	2.00	23.70	22.99	22.94	23.00	23.00	22.84	0.00	23.25
		1	0	23.20	23.27	23.24	23.25	23.22	2.00	23.70	22.93	22.75	22.75	22.87	22.76	0.00	23.25
		1	37	23.18	23.24	23.24	22.96	23.19	2.00	23.70	22.75	22.72	22.72	22.83	22.74	0.00	23.25
	64QAM	1	74	23.22	23.24	23.38	22.72	23.25	2.00	23.70	22.77	22.77	22.89	22.93	22.75	0.00	23.25
		36	0	22.49	22.48	22.50	22.48	22.45	3.00	22.70	21.88	21.87	21.86	21.92	21.85	0.55	22.70
		36	20	22.57	22.53	22.58	22.34	22.40	3.00	22.70	21.94	21.90	21.91	21.94	21.82	0.55	22.70
		36	39	22.54	22.50	22.52	22.18	22.49	3.00	22.70	21.92	21.88	21.91	21.94	21.87	0.55	22.70
		75	0	22.62	22.59	22.62	22.30	22.46	3.00	22.70	22.00	21.95	21.96	22.00	21.87	0.55	22.70
		1	0	20.25	20.49	20.45	20.34	20.29	5.00	20.70	20.27	20.34	20.28	20.25	20.24	2.55	20.70
		1	37	20.48	20.23	20.27	20.30	20.43	5.00	20.70	20.32	20.28	20.32	20.35	20.31	2.55	20.70
		1	74	20.29	20.49	20.30	20.24	20.27	5.00	20.70	20.43	20.36	20.41	20.28	20.47	2.55	20.70
	256QAM	36	0	20.48	20.27	20.30	20.24	20.42	5.00	20.70	20.33	20.27	20.28	20.20	20.32	2.55	20.70
		36	20	20.25	20.41	20.43	20.40	20.29	5.00	20.70	20.21	20.40	20.31	20.33	20.45	2.55	20.70
		36	39	20.49	20.44	20.33	20.37	20.34	5.00	20.70	20.41	20.31	20.50	20.29	20.33	2.55	20.70
		75	0	20.43	20.30	20.23	20.22	20.24	5.00	20.70	20.33	20.23	20.41	20.31	20.31	2.55	20.70

LTE Band 41 Power Class 3 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)							
				39750.00	40185.00	40620.00	41055.00	41490.00	MPR	39750.00	40185.00	40620.00	41055.00	41490.00	MPR		
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			
10 MHz	QPSK	1	0	24.70	24.70	24.71	24.83	24.70	0.00	25.70	23.11	23.16	23.13	23.02	22.99	0.00	23.25
		1	25	24.83	24.75	24.86	24.99	24.82	0.00	25.70	23.17	23.18	23.14	23.13	23.21	0.00	23.25
		1	49	24.79	24.72	24.73	24.72	24.71	0.00	25.70	23.19	23.15	23.17	23.15	23.15	0.00	23.25
		25	0	24.51	24.46	24.62	24.64	24.45	1.00	24.70	22.94	22.86	23.06	23.02	22.88	0.00	23.25
		25	12	24.64	24.56	24.66	24.70	24.48	1.00	24.70	23.08	22.98	23.11	23.19	22.93	0.00	23.25
		25	25	24.64	24.59	24.61	24.62	24.59	1.00	24.70	23.05	23.01	23.04	23.01	22.99	0.00	23.25
	16QAM	50	0	24.63	24.53	24.61	24.68	24.49	1.00	24.70	23.03	22.98	23.04	23.18	22.90	0.00	23.25
		1	0	24.52	24.49	24.65	24.70	24.49	1.00	24.70	22.94	22.86	23.09	23.17	22.91	0.00	23.25
		1	25	24.53	24.51	24.66	24.69	24.52	1.00	24.70	22.96	22.84	23.05	23.16	22.96	0.00	23.25
		1	49	24.65	24.59	24.62	24.60	24.60	1.00	24.70	23.06	23.01	23.05	23.04	22.94	0.00	23.25
		25	0	23.58	23.48	23.68	23.69	23.49	2.00	23.70	22.97	22.89	23.11	23.05	22.89	0.00	23.25
		25	12	23.67	23.60	23.65	23.70	23.50	2.00	23.70	23.10	23.02	23.14	23.12	22.93	0.00	23.25
	64QAM	25	25	23.69	23.61	23.66	23.65	23.59	2.00	23.70	23.09	23.02	23.07	23.06	22.90	0.00	23.25
		50	0	23.69	23.64	23.66	23.67	23.48	2.00	23.70	23.11	22.98	23.08	23.13	22.94	0.00	23.25
		1	0	23.52	23.42	23.65	23.37	23.57	2.00	23.70	22.65	22.89	23.06	23.14	22.88	0.00	23.25
		1	25	23.65	23.65	23.69	23.19	23.64	2.00	23.70	22.75	22.98	23.10	23.13	22.97	0.00	23.25
		1	49	23.69	23.68	23.70	23.00	23.61	2.00	23.70	22.89	23.02	23.07	23.07	23.02	0.00	23.25
		25	0	22.49	22.46	22.57	22.30	22.41	3.00	22.70	22.02	21.85	21.96	21.89	21.81	0.55	22.70
	256QAM	25	12	22.57	22.52	22.56	22.22	22.42	3.00	22.70	22.14	21.94	21.98	21.96	21.82	0.55	22.70
		25	25	22.55	22.50	22.58	22.11	22.52	3.00	22.70	22.11	21.87	21.96	21.98	21.89	0.55	22.70
		50	0	22.56	22.50	22.58	22.20	22.46	3.00	22.70	22.08	21.91	21.98	22.04	21.82	0.55	22.70
		1	0	20.43	20.22	20.24	20.22	20.21	5.00	20.70	20.38	20.28	20.31	20.33	20.48	2.55	20.70
		1	25	20.48	20.33	20.26	20.24	20.38	5.00	20.70	20.47	20.43	20.47	20.46	20.40	2.55	20.70
		1	49	20.47	20.40	20.30	20.47	20.26	5.00	20.70	20.42	20.40	20.45	20.29	20.41	2.55	20.70
5 MHz	QPSK	25	0	20.47	20.48	20.20	20.49	20.33	5.00	20.70	20.42	20.20	20.23	20.24	20.20	2.55	20.70
		25	12	20.46	20.21	20.48	20.41	20.27	5.00	20.70	20.36	20.48	20.28	20.34	20.35	2.55	20.70
		25	25	20.36	20.32	20.35	20.22	20.46	5.00	20.70	20.29	20.20	20.47	20.49	20.36	2.55	20.70
		50	0	20.44	20.37	20.27	20.36	20.48	5.00	20.70	20.39	20.33	20.26	20.37	20.21	2.55	20.70
	16QAM	1	0	24.80	24.70	24.76	24.77	24.70	0.00	25.70	23.17	23.11	23.16	23.13	23.02	0.00	23.25
		1	12	24.85	24.82	24.78	24.77	24.83	0.00	25.70	23.15	23.17	23.18	23.14	23.13	0.00	23.25
		1	24	24.88	24.78	24.80	24.77	24.80	0.00	25.70	23.22	23.19	23.15	23.17	23.15	0.00	23.25
		12	0	24.65	24.59	24.63	24.60	24.41	1.00	24.70	23.10	23.01	23.05	23.00	22.91	0.00	23.25
		12	7	24.53	24.49	24.62	24.59	24.45	1.00	24.70	23.10	23.03	23.03	23.01	22.97	0.00	23.25
		12	13	24.56	24.48	24.61	24.59	24.43	1.00	24.70	23.07	22.98	23.01	22.99	22.97	0.00	23.25
	64QAM	25	0	24.54	24.44	24.58	24.53	24.40	1.00	24.70	23.06	22.98	23.04	22.97	22.88	0.00	23.25
		1	0	24.60	24.53	24.59	24.59	24.52	1.00	24.70	22.93	23.00	23.09	23.09	23.01	0.00	23.25
		1	12	24.70	24.69	24.69	24.67	24.66	1.00	24.70	22.87	23.15	23.21	23.12	23.13	0.00	23.25
		1	24	24.70	24.62	24.64	24.62	24.62	1.00	24.70	22.97	23.10	23.15	23.09	23.09	0.00	23.25
		12	0	23.62	23.52	23.60	23.53	23.47	2.00	23.70	23.12	23.04	23.12	23.04	22.93	0.00	23.25
		12	7	23.63	23.57	23.58	23.53	23.54	2.00	23.70	23.08	23.07	23.11	23.04	23.03	0.00	23.25
	256QAM	12	13	23.58	23.53	23.56	23.54	23.49	2.00	23.70	23.09	23.05	23.10	23.05	22.99	0.00	23.25
		25	0	23.53	23.47	23.49	23.47	23.41	2.00	23.70	23.05	23.01	23.05	22.99	22.90	0.00	23.25
		1	0	23.56	23.50	23.58	22.76	23.49	2.00	23.70	23.10	22.99	23.04	23.08	23.01	0.00	23.25
		1	12	23.69	23.67	23.64	22.72	23.61	2.00	23.70	23.15	23.14	23.13	23.15	23.11	0.00	23.25
		1	24	23.62	23.53	23.60	22.71	23.54	2.00	23.70	23.11	23.03	23.08	23.04	23.02	0.00	23.25
		12	0	22.46	22.42	22.38	22.12	22.28	3.00	22.70	22.02	21.89	21.91	21.92	21.79	0.55	22.70
5 MHz	64QAM	12	7	22.49	22.42	22.39	22.11	22.37	3.00	22.70	22.01	21.91	21.92	21.94	21.92	0.55	22.70
		12	13	22.45	22.38	22.41	22.02	22.36	3.00	22.70	21.98	21.89	21.92	21.88	21.87	0.55	22.70
		25	0	22.41	22.37	22.37	22.06	22.29	3.00	22.70	21.95	21.88	21.92	21.86	21.78	0.55	22.70
	256QAM	1	0	20.42	20.38	20.36	20.42	20.34	5.00	20.70	20.33	20.26	20.45	20.42	20.43	2.55	20.70
		1	12	20.27	20.40	20.36	20.46	20.41	5.00	20.70	20.28	20.24	20.21	20.32	20.37	2.55	20.70
		1	24	20.34	20.36	20.26	20.25	20.25	5.00	20.70	20.32	20.32	20.28	20.40	20.36	2.55	20.70
		12	0	20.49	20.40	20.22	20.27	20.24	5.00	20.70	20.50	20.34	20.35	20.36	20.21	2.55	20.70
		12	7	20.37	20.28	20.27	20.23	20.41	5.00	20.70	20.28	20.41	20.25	20.47	20.39	2.55	20.70
		12	13	20.28	20.34	20.23	20.45	20.29	5.00	20.70	20.24	20.31	20.31	20.42	20.28	2.55	20.70
		25	0	20.28	20.45	20.28	20.48	20.43	5.00	20.70	20.44	20.34	20.35	20.37	20.20	2.55	20.70

LTE Band 41 Power Class 3 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
10 MHz	QPSK	1	0	19.58	19.56	19.54	19.50	19.46	0.00	20.00	21.88	21.90	21.81	21.94	21.86	0.00	22.75
		1	25	19.65	19.57	19.50	19.58	19.46	0.00	20.00	21.93	21.93	21.81	22.06	21.91	0.00	22.75
		1	49	19.49	19.57	19.51	19.33	19.47	0.00	20.00	21.82	21.93	21.80	21.79	21.92	0.00	22.75
		25	0	19.72	19.63	19.69	19.63	19.58	0.00	20.00	21.47	21.43	21.44	21.28	21.24	0.95	21.80
		25	12	19.79	19.72	19.71	19.63	19.63	0.00	20.00	21.47	21.53	21.44	21.31	21.27	0.95	21.80
		25	25	19.67	19.70	19.66	19.54	19.59	0.00	20.00	21.44	21.49	21.42	21.20	21.23	0.95	21.80
		50	0	19.71	19.68	19.68	19.60	19.60	0.00	20.00	21.46	21.50	21.42	21.29	21.24	0.95	21.80
		1	0	19.30	19.07	19.08	19.11	19.06	0.00	20.00	21.45	21.39	21.35	21.27	21.19	0.95	21.80
	16QAM	1	25	19.24	19.00	19.08	19.04	19.00	0.00	20.00	21.41	21.31	21.31	21.17	21.15	0.95	21.80
		1	49	19.19	19.03	19.11	19.01	19.02	0.00	20.00	21.44	21.36	21.35	21.20	21.23	0.95	21.80
		25	0	19.29	19.11	19.17	19.14	19.05	0.00	20.00	20.50	20.40	20.40	20.28	20.21	1.95	20.80
		25	12	19.30	19.16	19.18	19.12	19.08	0.00	20.00	20.47	20.48	20.40	20.32	20.22	1.95	20.80
		25	25	19.23	19.14	19.13	19.01	19.08	0.00	20.00	20.52	20.47	20.36	20.17	20.22	1.95	20.80
		50	0	19.24	19.16	19.17	19.05	19.05	0.00	20.00	20.52	20.48	20.43	20.19	20.19	1.95	20.80
		1	0	19.37	19.30	19.30	19.31	19.36	0.00	20.00	20.12	19.95	20.05	20.06	20.11	1.95	20.80
		1	25	19.32	19.33	19.37	19.29	19.33	0.00	20.00	20.07	19.98	20.12	20.04	20.08	1.95	20.80
	64QAM	1	49	19.35	19.37	19.34	19.21	19.33	0.00	20.00	20.10	20.02	20.09	19.96	20.08	1.95	20.80
		25	0	19.09	18.96	19.05	19.10	19.09	0.20	19.80	19.44	19.31	19.40	19.25	19.44	2.95	19.80
		25	12	18.98	19.05	19.09	19.08	19.10	0.20	19.80	19.33	19.40	19.44	19.23	19.45	2.95	19.80
		25	25	19.00	19.04	19.05	19.06	19.10	0.20	19.80	19.08	19.39	19.40	19.21	19.45	2.95	19.80
		50	0	18.87	19.00	19.03	19.06	19.05	0.20	19.80	19.22	19.35	19.38	19.21	19.40	2.95	19.80
		1	0	17.12	17.16	17.06	17.00	17.17	2.20	17.80	17.24	17.08	17.11	17.30	17.17	4.95	17.80
		1	25	17.15	17.17	17.10	17.20	17.12	2.20	17.80	17.00	17.21	17.01	17.01	17.06	4.95	17.80
		1	49	17.16	17.17	17.27	17.12	17.28	2.20	17.80	17.10	17.14	17.16	17.23	17.07	4.95	17.80
	256QAM	25	0	17.05	17.08	17.21	17.22	17.16	2.20	17.80	17.23	17.30	17.05	17.06	17.10	4.95	17.80
		25	12	17.27	17.18	17.00	17.30	17.04	2.20	17.80	17.12	17.14	17.24	17.05	17.02	4.95	17.80
		25	25	17.08	17.13	17.21	17.25	17.10	2.20	17.80	17.26	17.03	17.23	17.21	17.00	4.95	17.80
		50	0	17.02	17.06	17.15	17.22	17.04	2.20	17.80	17.21	17.11	17.03	17.14	17.16	4.95	17.80
5 MHz	QPSK	1	0	19.70	19.54	19.52	19.39	19.47	0.00	20.00	22.04	21.93	21.83	21.85	21.95	0.00	22.75
		1	12	19.52	19.58	19.57	19.38	19.47	0.00	20.00	21.83	21.97	21.88	21.81	21.96	0.00	22.75
		1	24	19.55	19.57	19.58	19.37	19.49	0.00	20.00	21.90	21.97	21.87	21.84	21.96	0.00	22.75
		12	0	19.69	19.70	19.68	19.49	19.58	0.00	20.00	21.22	21.28	21.19	21.17	21.21	0.95	21.80
		12	7	19.68	19.55	19.64	19.54	19.57	0.00	20.00	21.21	21.25	21.19	21.21	21.26	0.95	21.80
		12	13	19.55	19.70	19.67	19.50	19.59	0.00	20.00	21.22	21.27	21.14	21.18	21.20	0.95	21.80
		25	0	19.68	19.67	19.66	19.52	19.57	0.00	20.00	21.20	21.24	21.14	21.18	21.24	0.95	21.80
		1	0	19.05	19.04	19.20	19.00	19.00	0.00	20.00	21.12	21.11	21.22	21.01	21.08	0.95	21.80
	16QAM	1	12	19.01	19.12	19.35	19.00	19.01	0.00	20.00	21.05	21.17	21.28	20.96	21.18	0.95	21.80
		1	24	19.11	19.10	19.27	19.00	19.00	0.00	20.00	21.14	21.16	21.26	21.04	21.15	0.95	21.80
		12	0	19.22	19.11	19.16	19.00	19.01	0.00	20.00	20.49	20.43	20.44	20.17	20.15	1.95	20.80
		12	7	19.25	19.12	19.20	19.02	19.03	0.00	20.00	20.51	20.42	20.44	20.14	20.20	1.95	20.80
		12	13	19.19	19.11	19.18	19.00	19.02	0.00	20.00	20.45	20.42	20.41	20.16	20.19	1.95	20.80
		25	0	19.22	19.15	19.13	19.00	19.10	0.00	20.00	20.46	20.48	20.36	20.17	20.21	1.95	20.80
		1	0	19.35	19.40	19.35	19.22	19.41	0.00	20.00	20.30	20.35	20.30	20.17	20.46	1.95	20.80
		1	12	19.20	19.43	19.44	19.19	19.42	0.00	20.00	20.15	20.38	20.39	20.14	20.37	1.95	20.80
	64QAM	1	24	19.25	19.47	19.43	19.20	19.36	0.00	20.00	20.20	20.42	20.38	20.15	20.31	1.95	20.80
		12	0	19.03	19.06	19.05	19.00	19.10	0.20	19.80	19.28	19.31	19.30	18.80	19.35	2.95	19.80
		12	7	18.96	19.11	19.06	18.97	19.15	0.20	19.80	19.21	19.36	19.31	18.80	19.40	2.95	19.80
		12	13	18.86	19.09	19.02	18.96	19.11	0.20	19.80	19.11	19.34	19.27	18.80	19.36	2.95	19.80
		25	0	18.88	18.99	19.01	18.91	19.00	0.20	19.80	19.13	19.24	19.26	18.80	19.25	2.95	19.80
		1	0	17.23	17.14	17.15	17.07	17.29	2.20	17.80	17.20	17.28	17.09	17.26	17.27	4.95	17.80
		1	12	17.17	17.11	17.03	17.04	17.13	2.20	17.80	17.02	17.15	17.26	17.18	17.20	4.95	17.80
		1	24	17.15	17.11	17.20	17.18	17.08	2.20	17.80	17.22	17.15	17.25	17.23	17.18	4.95	17.80
	256QAM	12	0	17.15	17.01	17.17	17.10	17.24	2.20	17.80	17.00	17.23	17.27	17.23	17.07	4.95	17.80
		12	7	17.22	17.10	17.16	17.13	17.00	2.20	17.80	17.24	17.07	17.07	17.15	17.27	4.95	17.80
		12	13	17.12	17.14	17.06	17.25	17.17	2.20	17.80	17.22	17.26	17.29	17.04	17.18	4.95	17.80
		25	0	17.13	17.24	17.18	17.29	17.12	2.20	17.80	17.06	17.20	17.19	17.27	17.10	4.95	17.80

LTE Band 41 Power Class 3 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	21.05	21.42	21.36	21.04	20.97	0.00	21.75	19.54	20.00	19.81	19.68	19.57	0.00	20.50
		1	49	21.60	21.60	21.60	21.75	21.75	0.00	21.75	20.10	20.10	20.10	20.10	20.10	0.00	20.50
		1	99	21.48	21.24	21.08	20.99	20.90	0.00	21.75	20.00	19.88	19.63	19.54	19.50	0.00	20.50
		50	0	20.33	20.44	20.44	20.28	20.20	0.55	21.20	19.70	19.94	19.60	19.86	19.80	0.00	20.50
		50	24	21.00	21.00	21.00	21.00	21.00	0.55	21.20	20.10	20.10	20.10	20.10	20.10	0.00	20.50
		50	50	20.47	20.30	20.38	20.30	20.23	0.55	21.20	19.84	19.78	19.51	19.90	19.81	0.00	20.50
		100	0	20.37	20.35	21.00	20.31	20.25	0.55	21.20	19.80	19.85	20.10	19.87	19.76	0.00	20.50
	16QAM	1	0	20.45	20.86	20.55	20.46	20.41	0.55	21.20	19.50	19.92	19.90	19.75	19.68	0.00	20.50
		1	49	20.54	20.49	20.45	20.40	20.38	0.55	21.20	19.82	19.85	19.75	19.61	19.62	0.00	20.50
		1	99	20.61	20.37	20.56	20.49	20.43	0.55	21.20	19.91	19.74	19.78	19.67	19.63	0.00	20.50
		50	0	19.97	20.10	19.75	19.63	19.57	1.55	20.20	19.20	19.40	19.50	19.34	19.25	0.30	20.20
		50	24	20.07	20.03	19.73	19.65	19.64	1.55	20.20	19.27	19.32	19.32	19.32	19.31	0.30	20.20
		50	50	20.12	19.97	19.72	19.68	19.62	1.55	20.20	19.32	19.26	19.45	19.36	19.29	0.30	20.20
		100	0	19.99	19.99	19.69	19.56	19.49	1.55	20.20	19.33	19.29	19.41	19.27	19.20	0.30	20.20
	64QAM	1	0	19.70	20.14	19.80	19.45	19.76	1.55	20.20	19.30	19.38	19.50	19.33	19.24	0.30	20.20
		1	49	20.09	20.01	19.68	19.26	19.55	1.55	20.20	19.28	19.26	19.35	19.30	19.20	0.30	20.20
		1	99	20.13	19.90	19.75	19.91	19.57	1.55	20.20	19.35	19.30	19.37	19.30	19.25	0.30	20.20
		50	0	18.88	19.06	19.05	19.08	18.95	2.55	19.20	18.25	18.42	18.51	18.38	18.30	1.30	19.20
		50	24	19.04	19.10	19.11	18.98	19.01	2.55	19.20	18.35	18.34	18.47	18.35	18.36	1.30	19.20
		50	50	19.05	19.06	19.10	18.76	18.97	2.55	19.20	18.40	18.28	18.43	18.39	18.30	1.30	19.20
		100	0	18.86	19.08	19.13	18.90	18.97	2.55	19.20	18.33	18.31	18.47	18.35	18.27	1.30	19.20
	256QAM	1	0	16.68	16.79	16.50	16.54	16.56	4.55	17.20	16.61	16.59	16.70	16.67	16.58	3.30	17.20
		1	49	16.52	16.75	16.76	16.73	16.66	4.55	17.20	16.60	16.80	16.74	16.70	16.57	3.30	17.20
		1	99	16.69	16.70	16.55	16.75	16.69	4.55	17.20	16.80	16.51	16.56	16.66	16.62	3.30	17.20
		50	0	16.71	16.61	16.72	16.73	16.79	4.55	17.20	16.62	16.65	16.79	16.56	16.62	3.30	17.20
		50	24	16.64	16.66	16.64	16.80	16.66	4.55	17.20	16.78	16.78	16.79	16.68	16.60	3.30	17.20
		50	50	16.53	16.73	16.79	16.60	16.55	4.55	17.20	16.51	16.59	16.63	16.62	16.75	3.30	17.20
		100	0	16.62	16.74	16.51	16.77	16.61	4.55	17.20	16.72	16.60	16.50	16.62	16.66	3.30	17.20
15 MHz	QPSK	1	0	20.88	21.12	20.83	20.86	20.80	0.00	21.75	19.76	20.00	19.69	19.61	19.90	0.00	20.50
		1	37	21.10	21.04	20.75	20.83	20.77	0.00	21.75	19.97	19.95	19.59	19.57	19.90	0.00	20.50
		1	74	21.12	21.07	20.78	20.89	20.83	0.00	21.75	20.00	19.95	19.64	19.61	19.53	0.00	20.50
		36	0	20.36	20.46	20.54	20.36	20.29	0.55	21.20	19.78	19.93	19.56	19.88	19.79	0.00	20.50
		36	20	20.40	20.35	20.51	20.36	20.27	0.55	21.20	19.81	19.82	19.53	19.86	19.76	0.00	20.50
		36	39	20.45	20.33	20.48	20.40	20.34	0.55	21.20	19.86	19.80	19.51	19.92	19.82	0.00	20.50
		75	0	20.32	20.33	20.50	20.32	20.34	0.55	21.20	19.80	19.79	19.53	19.86	19.82	0.00	20.50
	16QAM	1	0	20.35	20.46	20.37	20.58	20.46	0.55	21.20	19.73	19.95	19.64	19.91	19.83	0.00	20.50
		1	37	20.50	20.39	20.25	20.47	20.45	0.55	21.20	19.88	19.94	19.93	19.83	19.81	0.00	20.50
		1	74	20.48	20.43	20.28	20.56	20.45	0.55	21.20	19.91	19.88	19.94	19.96	19.85	0.00	20.50
		36	0	20.08	20.09	20.14	20.00	19.94	1.55	20.20	19.23	19.39	19.47	19.35	19.22	0.30	20.20
		36	20	20.12	20.10	20.11	20.00	19.92	1.55	20.20	19.26	19.28	19.40	19.31	19.20	0.30	20.20
		36	39	20.06	20.08	20.08	20.05	19.97	1.55	20.20	19.29	19.25	19.38	19.38	19.28	0.30	20.20
		75	0	20.08	20.07	20.07	19.97	19.99	1.55	20.20	19.23	19.27	19.41	19.30	19.28	0.30	20.20
	64QAM	1	0	19.70	19.80	19.84	19.55	19.62	1.55	20.20	19.26	19.58	19.64	19.52	19.43	0.30	20.20
		1	37	19.74	19.67	19.73	19.22	19.62	1.55	20.20	19.46	19.46	19.49	19.50	19.38	0.30	20.20
		1	74	19.76	19.86	19.85	19.38	19.70	1.55	20.20	19.52	19.42	19.62	19.56	19.50	0.30	20.20
		36	0	18.54	19.10	19.06	18.93	19.06	2.55	19.20	18.21	18.34	18.40	18.29	18.23	1.30	19.20
		36	20	18.59	18.98	19.04	18.83	19.05	2.55	19.20	18.25	18.24	18.39	18.29	18.20	1.30	19.20
		36	39	18.64	18.96	19.00	18.72	19.10	2.55	19.20	18.30	18.21	18.36	18.32	18.25	1.30	19.20
		75	0	18.57	19.03	19.08	18.86	19.11	2.55	19.20	18.30	18.29	18.43	18.30	18.22	1.30	19.20
	256QAM	1	0	16.75	16.65	16.72	16.65	16.75	4.55	17.20	16.71	16.62	16.58	16.60	16.74	3.30	17.20
		1	37	16.70	16.78	16.60	16.74	16.56	4.55	17.20	16.77	16.65	16.51	16.57	16.69	3.30	17.20
		1	74	16.56	16.58	16.68	16.54	16.76	4.55	17.20	16.72	16.60	16.56	16.57	16.67	3.30	17.20
		36	0	16.52	16.57	16.66	16.61	16.71	4.55	17.20	16.71	16.55	16.78	16.73	16.71	3.30	17.20
		36	20	16.70	16.72	16.79	16.72	16.52	4.55	17.20	16.66	16.78	16.50	16.57	16.58	3.30	17.20
		36	39	16.77	16.55	16.63	16.63	16.62	4.55	17.20	16.58	16.58	16.71	16.58	16.70	3.30	17.20
		75	0	16.75	16.75	16.70	16.66	16.52	4.55	17.20	16.70	16.75	16.55	16.77	16.65	3.30	17.20

LTE Band 48 Measured Results (ANT7)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55340	55773	56207	56640	MPR	Tune-up Limit	55340	55773	56207	56640	MPR	Tune-up Limit
				3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz			3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz		
20 MHz	QPSK	1	0	25.56	25.56	25.70	25.41	0.00	25.70	22.31	22.40	22.40	22.31	0.00	23.00
		1	49	25.43	25.48	25.70	25.57	0.00	25.70	22.50	22.50	22.50	22.50	0.00	23.00
		1	99	25.53	25.61	25.60	25.55	0.00	25.70	22.25	22.37	22.40	22.20	0.00	23.00
		50	0	24.24	24.29	24.40	24.37	1.00	24.70	22.23	22.27	22.36	22.05	0.00	23.00
		50	24	24.30	24.39	24.60	24.36	1.00	24.70	22.50	22.50	22.50	22.50	0.00	23.00
		50	50	24.27	24.35	24.35	24.40	1.00	24.70	22.29	22.35	22.29	22.07	0.00	23.00
		100	0	24.30	24.36	24.60	24.37	1.00	24.70	22.30	22.35	22.50	22.01	0.00	23.00
	16QAM	1	0	24.45	24.33	24.36	24.43	1.00	24.70	22.17	22.24	22.44	22.00	0.00	23.00
		1	49	24.35	24.22	24.18	24.25	1.00	24.70	22.03	22.15	22.32	22.00	0.00	23.00
		1	99	24.36	24.31	24.21	24.30	1.00	24.70	22.16	22.25	22.33	22.00	0.00	23.00
		50	0	23.58	23.57	23.70	23.30	2.00	23.70	22.27	22.24	22.39	22.35	0.00	23.00
		50	24	23.64	23.66	23.70	23.27	2.00	23.70	22.31	22.35	22.38	22.33	0.00	23.00
		50	50	23.62	23.64	23.70	23.30	2.00	23.70	22.31	22.32	22.33	22.37	0.00	23.00
		100	0	23.61	23.67	23.69	23.26	2.00	23.70	22.31	22.35	22.32	22.34	0.00	23.00
	64QAM	1	0	22.73	23.17	22.77	22.75	2.00	23.70	22.09	22.22	22.22	22.39	0.00	23.00
		1	99	22.81	23.20	22.80	22.74	2.00	23.70	22.18	22.28	22.28	22.49	0.00	23.00
		50	0	21.85	21.96	21.86	21.73	3.00	22.70	21.72	21.85	21.78	22.00	0.30	22.70
		50	24	21.86	21.95	21.94	21.81	3.00	22.70	21.73	21.86	21.85	21.72	0.30	22.70
		50	50	21.84	21.94	21.91	21.77	3.00	22.70	21.73	21.85	21.82	21.70	0.30	22.70
		100	0	21.81	21.91	21.92	21.80	3.00	22.70	21.74	21.86	21.84	21.70	0.30	22.70
		1	0	19.77	19.84	19.71	19.77	5.00	20.70	19.96	19.80	19.70	19.76	2.30	20.70
	256QAM	1	49	19.75	19.85	19.72	19.84	5.00	20.70	19.80	19.70	19.83	19.86	2.30	20.70
		1	99	19.95	19.85	19.75	19.99	5.00	20.70	19.90	19.92	19.87	19.90	2.30	20.70
		50	0	19.76	19.75	19.99	19.76	5.00	20.70	19.88	19.89	19.99	19.94	2.30	20.70
		50	24	19.74	19.80	19.70	19.86	5.00	20.70	19.71	19.84	19.91	19.86	2.30	20.70
		50	50	19.87	19.95	19.73	19.90	5.00	20.70	20.00	19.99	19.71	19.87	2.30	20.70
		100	0	19.94	19.99	19.96	19.88	5.00	20.70	19.98	19.80	19.82	19.99	2.30	20.70
		1	0	25.48	25.49	25.48	25.26	0.00	25.70	22.37	22.34	22.38	22.19	0.00	23.00
15 MHz	QPSK	1	37	25.45	25.44	25.17	25.25	0.00	25.70	22.35	22.08	22.29	22.14	0.00	23.00
		1	74	25.52	25.55	25.68	25.26	0.00	25.70	22.39	22.40	22.40	22.16	0.00	23.00
		36	0	24.32	24.28	23.98	24.00	1.00	24.70	22.28	22.05	22.33	22.00	0.00	23.00
		36	20	24.28	24.35	24.07	24.07	1.00	24.70	22.27	22.10	22.29	22.08	0.00	23.00
		36	39	24.26	24.34	24.13	24.05	1.00	24.70	22.24	22.15	22.28	22.04	0.00	23.00
		75	0	24.26	24.33	24.10	23.96	1.00	24.70	22.22	22.13	22.29	22.00	0.00	23.00
		1	0	24.31	24.31	24.27	24.11	1.00	24.70	22.25	22.18	22.28	22.08	0.00	23.00
	16QAM	1	37	24.26	24.29	23.90	24.04	1.00	24.70	22.22	22.00	22.18	22.01	0.00	23.00
		1	74	24.30	24.38	24.46	24.10	1.00	24.70	22.30	22.32	22.27	22.04	0.00	23.00
		36	0	23.64	23.57	23.28	23.36	2.00	23.70	22.29	22.02	22.32	22.35	0.00	23.00
		36	20	23.61	23.65	23.33	23.41	2.00	23.70	22.28	22.06	22.29	22.39	0.00	23.00
		36	39	23.60	23.66	23.63	23.37	2.00	23.70	22.26	22.10	22.25	22.35	0.00	23.00
		75	0	23.61	23.64	23.41	23.30	2.00	23.70	22.28	22.10	22.31	22.28	0.00	23.00
		1	0	23.13	22.96	23.20	23.24	2.00	23.70	22.10	22.24	22.22	22.70	0.00	23.00
	64QAM	1	37	23.10	22.97	22.88	23.11	2.00	23.70	22.14	22.27	22.23	22.35	0.00	23.00
		1	74	23.31	23.06	23.46	23.22	2.00	23.70	22.26	22.34	22.33	22.70	0.00	23.00
		36	0	21.73	21.95	21.71	22.33	3.00	22.70	22.32	22.48	22.39	21.95	0.30	22.70
		36	20	21.75	21.97	22.39	22.30	3.00	22.70	22.31	22.46	22.39	22.01	0.30	22.70
		36	39	21.72	21.93	22.43	22.38	3.00	22.70	22.30	22.45	22.36	22.06	0.30	22.70
		75	0	21.78	21.90	22.40	22.37	3.00	22.70	22.38	22.51	22.45	22.10	0.30	22.70
		1	0	19.83	19.75	19.89	19.76	5.00	20.70	19.73	19.75	19.99	19.91	2.30	20.70
	256QAM	1	37	19.91	19.99	20.00	19.97	5.00	20.70	19.80	19.98	19.72	19.88	2.30	20.70
		1	74	19.82	19.98	19.93	19.97	5.00	20.70	19.81	19.99	19.98	19.85	2.30	20.70
		36	0	19.82	19.87	19.85	19.97	5.00	20.70	19.85	19.70	19.75	19.93	2.30	20.70
		36	20	19.70	19.74	19.84	19.81	5.00	20.70	19.96	19.90	19.73	19.93	2.30	20.70
		36	39	19.78	19.93	19.93	19.77	5.00	20.70	19.76	19.82	19.84	19.91	2.30	20.70
		75	0	19.92	19.96	19.70	19.92	5.00	20.70	19.86	19.76	19.85	19.90	2.30	20.70

Notes:

LTE Band 48 Low and high channels were tested using the maximum tune-up limit. This is for testing purpose only. For device placing to the market would follow the tune up procedure.

LTE Band 48 Measured Results (ANT7) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55290.00	55757.00	56223.00	56690.00	MPR	Tune-up Limit	55290.00	55757.00	56223.00	56690.00	MPR	Tune-up Limit
				3555 MHz	3601.7 MHz	3648.3 MHz	3695 MHz			3555 MHz	3601.7 MHz	3648.3 MHz	3695 MHz		
10 MHz	QPSK	1	0	25.43	25.54	25.61	25.29	0.00	25.70	22.32	22.37	22.29	22.10	0.00	23.00
		1	25	25.37	25.55	25.54	25.24	0.00	25.70	22.28	22.36	22.29	22.03	0.00	23.00
		1	49	25.45	25.57	25.59	25.29	0.00	25.70	22.34	22.40	22.29	22.08	0.00	23.00
		25	0	24.29	24.30	24.40	24.13	1.00	24.70	22.26	22.25	22.21	22.04	0.00	23.00
		25	12	24.29	24.33	24.44	24.15	1.00	24.70	22.30	22.35	22.08	22.06	0.00	23.00
		25	25	24.28	24.40	24.42	24.13	1.00	24.70	22.31	22.34	22.26	22.04	0.00	23.00
	16QAM	50	0	24.29	24.39	24.39	24.12	1.00	24.70	22.31	22.31	22.22	22.05	0.00	23.00
		1	0	24.25	24.40	24.37	24.08	1.00	24.70	22.21	22.26	22.27	22.02	0.00	23.00
		1	25	24.18	24.29	24.30	23.98	1.00	24.70	22.15	22.23	22.14	22.00	0.00	23.00
		1	49	24.26	24.41	24.36	24.04	1.00	24.70	22.24	22.31	22.33	22.00	0.00	23.00
		25	0	23.61	23.62	23.70	23.44	2.00	23.70	22.32	22.32	22.25	22.06	0.00	23.00
		25	12	23.63	23.70	23.69	23.46	2.00	23.70	22.33	22.37	22.27	22.07	0.00	23.00
	64QAM	25	25	23.61	23.68	23.68	23.44	2.00	23.70	22.32	22.35	22.30	22.06	0.00	23.00
		50	0	23.62	23.70	23.68	23.46	2.00	23.70	22.33	22.35	22.28	22.06	0.00	23.00
		1	0	23.15	23.68	23.36	23.10	2.00	23.70	22.22	22.38	22.39	22.21	0.00	23.00
		1	25	22.99	23.65	23.37	23.06	2.00	23.70	22.11	22.31	22.40	22.08	0.00	23.00
		1	49	23.17	22.72	23.40	23.16	2.00	23.70	22.26	22.40	22.37	22.22	0.00	23.00
		25	0	21.97	22.22	22.07	21.87	3.00	22.70	21.98	22.14	22.08	21.87	0.30	22.70
	256QAM	25	12	21.97	22.25	22.14	21.94	3.00	22.70	21.99	22.13	22.16	21.92	0.30	22.70
		25	25	21.91	22.22	22.14	21.92	3.00	22.70	21.95	22.15	22.16	21.96	0.30	22.70
		50	0	21.95	22.16	22.06	21.89	3.00	22.70	21.98	22.20	22.07	21.93	0.30	22.70
		1	0	19.94	19.83	19.82	19.80	5.00	20.70	19.89	19.85	19.78	19.80	2.30	20.70
		1	25	19.82	19.91	19.79	19.86	5.00	20.70	19.87	19.93	19.99	19.70	2.30	20.70
		1	49	19.78	19.82	19.89	19.77	5.00	20.70	19.92	19.73	19.78	19.90	2.30	20.70
5 MHz	QPSK	25	0	19.94	19.93	19.87	19.91	5.00	20.70	19.86	19.94	19.92	19.88	2.30	20.70
		25	12	19.73	19.73	19.93	19.78	5.00	20.70	19.91	19.76	19.84	19.87	2.30	20.70
		25	25	19.85	19.98	19.74	19.98	5.00	20.70	19.74	19.97	19.80	19.86	2.30	20.70
		50	0	19.97	19.90	19.92	20.00	5.00	20.70	20.00	19.96	19.82	19.81	2.30	20.70
	16QAM	1	0	25.49	25.58	25.60	25.22	0.00	25.70	22.38	22.39	22.33	22.00	0.00	23.00
		1	12	25.38	25.50	25.54	25.13	0.00	25.70	22.29	22.35	22.22	22.22	0.00	23.00
		1	24	25.47	25.64	25.63	25.23	0.00	25.70	22.40	22.40	22.30	22.32	0.00	23.00
		12	0	24.31	24.42	24.36	24.11	1.00	24.70	22.11	22.16	22.15	22.06	0.00	23.00
		12	7	24.26	24.43	24.36	24.04	1.00	24.70	22.15	22.23	22.17	22.05	0.00	23.00
		12	13	24.25	24.41	24.38	24.04	1.00	24.70	22.16	22.19	22.13	22.04	0.00	23.00
	64QAM	25	0	24.25	24.40	24.35	24.06	1.00	24.70	22.12	22.20	22.14	22.02	0.00	23.00
		1	0	24.22	24.28	24.52	24.00	1.00	24.70	22.24	22.15	22.12	22.14	0.00	23.00
		1	12	24.12	24.27	24.45	23.93	1.00	24.70	22.20	22.13	22.01	22.15	0.00	23.00
		1	24	24.22	24.34	24.50	23.98	1.00	24.70	22.29	22.19	22.10	22.21	0.00	23.00
		12	0	23.60	23.60	23.70	23.37	2.00	23.70	22.21	22.13	22.15	22.28	0.00	23.00
		12	7	23.58	23.59	23.70	23.38	2.00	23.70	22.25	22.18	22.18	22.25	0.00	23.00
	256QAM	12	13	23.60	23.63	23.68	23.32	2.00	23.70	22.17	22.12	22.17	22.21	0.00	23.00
		25	0	23.53	23.69	23.65	23.32	2.00	23.70	22.17	22.21	22.14	22.21	0.00	23.00
		1	0	23.17	22.80	23.49	23.15	2.00	23.70	22.12	22.22	22.20	22.18	0.00	23.00
		1	12	23.09	22.77	23.45	23.06	2.00	23.70	22.09	22.20	22.20	22.12	0.00	23.00
		1	24	23.16	22.86	23.54	23.14	2.00	23.70	22.12	22.26	22.26	22.18	0.00	23.00
		12	0	21.79	22.20	22.06	21.78	3.00	22.70	21.94	21.98	21.89	21.99	0.30	22.70
	64QAM	12	7	21.93	22.08	22.16	21.91	3.00	22.70	21.91	22.07	22.11	21.86	0.30	22.70
		12	13	21.97	22.16	22.18	21.86	3.00	22.70	21.90	22.03	22.10	21.85	0.30	22.70
		25	0	21.91	22.20	22.05	21.86	3.00	22.70	21.91	22.06	22.01	21.89	0.30	22.70
	256QAM	1	0	19.78	19.99	19.86	19.93	5.00	20.70	19.94	19.70	19.77	19.82	2.30	20.70
		1	12	19.84	19.98	19.77	19.98	5.00	20.70	19.72	19.88	19.96	19.83	2.30	20.70
		1	24	19.97	19.71	19.85	19.89	5.00	20.70	19.76	19.93	19.87	19.71	2.30	20.70
		12	0	19.93	19.84	19.72	19.85	5.00	20.70	19.97	19.99	19.97	19.88	2.30	20.70
	256QAM	12	7	19.95	19.77	19.72	19.73	5.00	20.70	19.89	19.97	19.98	20.00	2.30	20.70
		12	13	19.95	19.86	19.83	19.96	5.00	20.70	19.88	19.71	19.83	19.72	2.30	20.70
		25	0	19.96	19.73	19.90	19.70	5.00	20.70	19.87	19.90	19.72	19.86	2.30	20.70

Notes:

LTE Band 48 Low and high channels were tested using the maximum tune-up limit. This is for testing purpose only. For device placing to the market would follow the tune up procedure.

LTE Band 48 Measured Results (ANT8)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55340	55773	56207	56640	MPR	Tune-up Limit	55340	55773	56207	56640	MPR	Tune-up Limit
				3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz			3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz		
20 MHz	QPSK	1	0	21.99	21.73	21.64	21.54	0.00	22.20	21.99	21.73	21.64	21.54	0.00	22.20
		1	49	22.00	22.00	22.00	22.00	0.00	22.20	22.00	22.00	22.00	22.00	0.00	22.20
		1	99	21.85	21.63	21.59	21.41	0.00	22.20	21.85	21.63	21.59	21.41	0.00	22.20
		50	0	20.72	20.48	20.38	20.28	1.00	21.20	20.72	20.48	20.38	20.28	1.00	21.20
		50	24	21.00	21.00	21.00	21.00	1.00	21.20	21.00	21.00	21.00	21.00	1.00	21.20
		50	50	20.58	20.36	20.36	20.25	1.00	21.20	20.58	20.36	20.36	20.25	1.00	21.20
		100	0	20.61	20.46	21.00	20.26	1.00	21.20	20.61	20.46	21.00	20.26	1.00	21.20
	16QAM	1	0	20.81	20.59	20.45	20.36	1.00	21.20	20.81	20.59	20.45	20.36	1.00	21.20
		1	49	20.67	20.46	20.36	20.23	1.00	21.20	20.67	20.46	20.36	20.23	1.00	21.20
		1	99	20.68	20.46	20.41	20.24	1.00	21.20	20.68	20.46	20.41	20.24	1.00	21.20
		50	0	19.72	19.50	19.42	19.32	2.00	20.20	19.72	19.50	19.42	19.32	2.00	20.20
		50	24	19.64	19.49	19.42	19.30	2.00	20.20	19.64	19.49	19.42	19.30	2.00	20.20
		50	50	19.60	19.38	19.42	19.26	2.00	20.20	19.60	19.38	19.42	19.26	2.00	20.20
		100	0	19.61	19.45	19.39	19.27	2.00	20.20	19.61	19.45	19.39	19.27	2.00	20.20
	64QAM	1	0	19.70	19.47	19.34	19.27	2.00	20.20	19.70	19.47	19.34	19.27	2.00	20.20
		1	49	19.54	19.31	19.35	19.23	2.00	20.20	19.54	19.31	19.35	19.23	2.00	20.20
		1	99	19.52	19.29	19.25	19.28	2.00	20.20	19.52	19.29	19.25	19.28	2.00	20.20
		50	0	18.76	18.51	18.43	18.33	3.00	19.20	18.76	18.51	18.43	18.33	3.00	19.20
		50	24	18.66	18.50	18.46	18.31	3.00	19.20	18.66	18.50	18.46	18.31	3.00	19.20
		50	50	18.63	18.40	18.42	18.28	3.00	19.20	18.63	18.40	18.42	18.28	3.00	19.20
		100	0	18.64	18.49	18.43	18.30	3.00	19.20	18.64	18.49	18.43	18.30	3.00	19.20
	256QAM	1	0	16.42	16.42	16.36	16.37	5.00	17.20	16.42	16.42	16.36	16.37	5.00	17.20
		1	49	16.37	16.30	16.49	16.35	5.00	17.20	16.37	16.30	16.49	16.35	5.00	17.20
		1	99	16.22	16.48	16.39	16.44	5.00	17.20	16.22	16.48	16.39	16.44	5.00	17.20
		50	0	16.43	16.27	16.36	16.31	5.00	17.20	16.43	16.27	16.36	16.31	5.00	17.20
		50	24	16.34	16.29	16.26	16.49	5.00	17.20	16.34	16.29	16.26	16.49	5.00	17.20
		50	50	16.38	16.23	16.45	16.42	5.00	17.20	16.38	16.23	16.45	16.42	5.00	17.20
		100	0	16.45	16.30	16.32	16.21	5.00	17.20	16.45	16.30	16.32	16.21	5.00	17.20
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55315	55765	56215	56665	MPR	Tune-up Limit	55315	55765	56215	56665	MPR	Tune-up Limit
				3557.5 MHz	3602.5 MHz	3647.5 MHz	3692.5 MHz			3557.5 MHz	3602.5 MHz	3647.5 MHz	3692.5 MHz		
15 MHz	QPSK	1	0	21.86	21.62	21.53	21.59	0.00	22.20	21.86	21.62	21.53	21.59	0.00	22.20
		1	37	21.83	21.58	21.52	22.00	0.00	22.20	21.83	21.58	21.52	22.00	0.00	22.20
		1	74	21.85	21.64	21.60	22.02	0.00	22.20	21.85	21.64	21.60	22.02	0.00	22.20
		36	0	20.67	20.47	20.39	21.20	1.00	21.20	20.67	20.47	20.39	21.20	1.00	21.20
		36	20	20.56	20.45	20.38	21.09	1.00	21.20	20.56	20.45	20.38	21.09	1.00	21.20
		36	39	20.59	20.41	20.34	20.76	1.00	21.20	20.59	20.41	20.34	20.76	1.00	21.20
		75	0	20.55	20.39	20.33	21.09	1.00	21.20	20.55	20.39	20.33	21.09	1.00	21.20
	16QAM	1	0	20.69	20.45	20.37	20.97	1.00	21.20	20.69	20.45	20.37	20.97	1.00	21.20
		1	37	20.62	20.37	20.30	20.91	1.00	21.20	20.62	20.37	20.30	20.91	1.00	21.20
		1	74	20.63	20.42	20.40	20.92	1.00	21.20	20.63	20.42	20.40	20.92	1.00	21.20
		36	0	19.71	19.47	19.36	20.02	2.00	20.20	19.71	19.47	19.36	20.02	2.00	20.20
		36	20	19.61	19.40	19.39	20.14	2.00	20.20	19.61	19.40	19.39	20.14	2.00	20.20
		36	39	19.54	19.37	19.36	20.04	2.00	20.20	19.54	19.37	19.36	20.04	2.00	20.20
		75	0	19.56	19.41	19.36	19.97	2.00	20.20	19.56	19.41	19.36	19.97	2.00	20.20
	64QAM	1	0	19.39	19.33	19.25	19.26	2.00	20.20	19.39	19.33	19.25	19.26	2.00	20.20
		1	37	19.28	19.24	19.20	19.21	2.00	20.20	19.28	19.24	19.20	19.21	2.00	20.20
		1	74	19.29	19.33	19.30	19.21	2.00	20.20	19.29	19.33	19.30	19.21	2.00	20.20
		36	0	18.65	18.40	18.33	19.20	3.00	19.20	18.65	18.40	18.33	19.20	3.00	19.20
		36	20	18.56	18.39	18.34	18.21	3.00	19.20	18.56	18.39	18.34	18.21	3.00	19.20
		36	39	18.53	18.37	18.30	18.21	3.00	19.20	18.53	18.37	18.30	18.21	3.00	19.20
		75	0	18.59	18.44	18.37	18.27	3.00	19.20	18.59	18.44	18.37	18.27	3.00	19.20
	256QAM	1	0	16.32	16.39	16.35	16.49	5.00	17.20	16.32	16.39	16.35	16.49	5.00	17.20
		1	37	16.49	16.48	16.33	16.27	5.00	17.20	16.49	16.48	16.33	16.27	5.00	17.20
		1	74	16.40	16.20	16.23	16.41	5.00	17.20	16.40	16.20	16.23	16.41	5.00	17.20
		36	0	16.21	16.24	16.49	16.43	5.00	17.20	16.21	16.24	16.49	16.43	5.00	17.20
		36	20	16.25	16.23	16.44	16.40	5.00	17.20	16.25	16.23	16.44	16.40	5.00	17.20
		36	39	16.35	16.47	16.43	16.33	5.00	17.20	16.35	16.47	16.43	16.33	5.00	17.20
		75	0	16.22	16.44	16.32	16.47	5.00	17.20	16.22	16.44	16.32	16.47	5.00	17.20

Notes:

LTE Band 48 Low and high channels were tested using the maximum tune-up limit. This is for testing purpose only. For device placing to the market would follow the tune up procedure.

LTE Band 48 Measured Results (ANT8) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55290	55757	56223	56690	MPR	Tune-up Limit	55290	55757	56223	56690	MPR	Tune-up Limit
				3555 MHz	3601.7 MHz	3648.3 MHz	3695 MHz			3555 MHz	3601.7 MHz	3648.3 MHz	3695 MHz		
10 MHz	QPSK	1	0	21.82	21.57	21.47	21.34	0.00	22.20	21.82	21.57	21.47	21.34	0.00	22.20
		1	25	21.84	21.55	21.49	21.36	0.00	22.20	21.84	21.55	21.49	21.36	0.00	22.20
		1	49	21.84	21.61	21.54	21.33	0.00	22.20	21.84	21.61	21.54	21.33	0.00	22.20
		25	0	20.68	20.43	20.36	20.69	1.00	21.20	20.68	20.43	20.36	20.69	1.00	21.20
		25	12	20.70	20.37	20.32	20.65	1.00	21.20	20.70	20.37	20.32	20.65	1.00	21.20
		25	25	20.67	20.43	20.38	20.72	1.00	21.20	20.67	20.43	20.38	20.72	1.00	21.20
		50	0	20.69	20.44	20.35	20.75	1.00	21.20	20.69	20.44	20.35	20.75	1.00	21.20
	16QAM	1	0	20.76	20.50	20.42	20.76	1.00	21.20	20.76	20.50	20.42	20.76	1.00	21.20
		1	25	20.63	20.37	20.31	20.65	1.00	21.20	20.63	20.37	20.31	20.65	1.00	21.20
		1	49	20.77	20.49	20.40	20.78	1.00	21.20	20.77	20.49	20.40	20.78	1.00	21.20
		25	0	19.67	19.41	19.34	19.73	2.00	20.20	19.67	19.41	19.34	19.73	2.00	20.20
		25	12	19.69	19.44	19.36	19.76	2.00	20.20	19.69	19.44	19.36	19.76	2.00	20.20
		25	25	19.70	19.47	19.43	19.76	2.00	20.20	19.70	19.47	19.43	19.76	2.00	20.20
		50	0	19.73	19.46	19.41	19.66	2.00	20.20	19.73	19.46	19.41	19.66	2.00	20.20
	64QAM	1	0	19.83	19.58	19.46	19.71	2.00	20.20	19.83	19.58	19.46	19.71	2.00	20.20
		1	25	19.75	19.51	19.43	19.69	2.00	20.20	19.75	19.51	19.43	19.69	2.00	20.20
		1	49	19.84	19.56	19.55	19.86	2.00	20.20	19.84	19.56	19.55	19.86	2.00	20.20
		25	0	18.64	18.39	18.32	18.68	3.00	19.20	18.64	18.39	18.32	18.68	3.00	19.20
		25	12	18.65	18.37	18.33	18.68	3.00	19.20	18.65	18.37	18.33	18.68	3.00	19.20
		25	25	18.63	18.36	18.30	18.50	3.00	19.20	18.63	18.36	18.30	18.50	3.00	19.20
		50	0	18.68	18.41	18.35	18.58	3.00	19.20	18.68	18.41	18.35	18.58	3.00	19.20
	256QAM	1	0	16.31	16.40	16.44	16.38	5.00	17.20	16.31	16.40	16.44	16.38	5.00	17.20
		1	25	16.21	16.26	16.20	16.47	5.00	17.20	16.21	16.26	16.20	16.47	5.00	17.20
		1	49	16.49	16.32	16.49	16.38	5.00	17.20	16.49	16.32	16.49	16.38	5.00	17.20
		25	0	16.25	16.23	16.50	16.49	5.00	17.20	16.25	16.23	16.50	16.49	5.00	17.20
		25	12	16.46	16.34	16.34	16.47	5.00	17.20	16.46	16.34	16.34	16.47	5.00	17.20
		25	25	16.42	16.48	16.46	16.40	5.00	17.20	16.42	16.48	16.46	16.40	5.00	17.20
		50	0	16.22	16.48	16.33	16.46	5.00	17.20	16.22	16.48	16.33	16.46	5.00	17.20
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55265	55748	56232	56715	MPR	Tune-up Limit	55265	55748	56232	56715	MPR	Tune-up Limit
				3552.5 MHz	3600.8 MHz	3649.2 MHz	3697.5 MHz			3552.5 MHz	3600.8 MHz	3649.2 MHz	3697.5 MHz		
5 MHz	QPSK	1	0	22.02	21.70	21.61	21.43	0.00	22.20	22.02	21.70	21.61	21.43	0.00	22.20
		1	12	21.92	21.60	21.54	21.37	0.00	22.20	21.92	21.60	21.54	21.37	0.00	22.20
		1	24	22.04	21.69	21.62	21.43	0.00	22.20	22.04	21.69	21.62	21.43	0.00	22.20
		12	0	20.80	20.51	20.42	20.25	1.00	21.20	20.80	20.51	20.42	20.25	1.00	21.20
		12	7	20.63	20.38	20.26	20.34	1.00	21.20	20.63	20.38	20.26	20.34	1.00	21.20
		12	13	20.56	20.33	20.26	20.32	1.00	21.20	20.56	20.33	20.26	20.32	1.00	21.20
		25	0	20.74	20.40	20.35	20.37	1.00	21.20	20.74	20.40	20.35	20.37	1.00	21.20
	16QAM	1	0	20.92	20.62	20.57	20.58	1.00	21.20	20.92	20.62	20.57	20.58	1.00	21.20
		1	12	20.86	20.54	20.51	20.50	1.00	21.20	20.86	20.54	20.51	20.50	1.00	21.20
		1	24	20.93	20.60	20.55	20.55	1.00	21.20	20.93	20.60	20.55	20.55	1.00	21.20
		12	0	19.92	19.58	19.50	19.56	2.00	20.20	19.92	19.58	19.50	19.56	2.00	20.20
		12	7	19.76	19.39	19.33	19.32	2.00	20.20	19.76	19.39	19.33	19.32	2.00	20.20
		12	13	19.75	19.47	19.33	19.37	2.00	20.20	19.75	19.47	19.33	19.37	2.00	20.20
		25	0	19.73	19.43	19.37	19.39	2.00	20.20	19.73	19.43	19.37	19.39	2.00	20.20
	64QAM	1	0	19.38	19.60	19.51	19.52	2.00	20.20	19.38	19.60	19.51	19.52	2.00	20.20
		1	12	19.32	19.48	19.45	19.47	2.00	20.20	19.32	19.48	19.45	19.47	2.00	20.20
		1	24	19.39	19.55	19.51	19.49	2.00	20.20	19.39	19.55	19.51	19.49	2.00	20.20
		12	0	18.83	18.42	18.36	18.22	3.00	19.20	18.83	18.42	18.36	18.22	3.00	19.20
		12	7	18.71	18.28	18.26	18.28	3.00	19.20	18.71	18.28	18.26	18.28	3.00	19.20
		12	13	18.70	18.31	18.37	18.27	3.00	19.20	18.70	18.31	18.37	18.27	3.00	19.20
		25	0	18.73	18.33	18.28	18.30	3.00	19.20	18.73	18.33	18.28	18.30	3.00	19.20
	256QAM	1	0	16.41	16.42	16.43	16.20	5.00	17.20	16.41	16.42	16.43	16.20	5.00	17.20
		1	12	16.25	16.29	16.31	16.49	5.00	17.20	16.25	16.29	16.31	16.49	5.00	17.20
		1	24	16.28	16.21	16.39	16.25	5.00	17.20	16.28	16.21	16.39	16.25	5.00	17.20
		12	0	16.34	16.41	16.41	16.33	5.00	17.20	16.34	16.41	16.41	16.33	5.00	17.20
		12	7	16.24	16.23	16.39	16.40	5.00	17.20	16.24	16.23	16.39	16.40	5.00	17.20
		12	13	16.47	16.29	16.27	16.27	5.00	17.20	16.47	16.29	16.27	16.27	5.00	17.20
		25	0	16.46	16.37	16.26	16.33	5.00	17.20	16.46	16.37	16.26	16.33	5.00	17.20

Notes:

LTE Band 48 Low and high channels were tested using the maximum tune-up limit. This is for testing purpose only. For device placing to the market would follow the tune up procedure.

LTE Band 48 Measured Results (ANT9)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55340.00	55773.00	56207.00	56640.00	MPR	Tune-up Limit	55340.00	55773.00	56207.00	56640.00	MPR	Tune-up Limit
				3560 MHz	24.71	3646.7 MHz	3690 MHz			3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz		
20 MHz	QPSK	1	0	24.42	24.43	24.35	24.24	0.00	25.20	22.72	22.84	22.71	22.70	0.00	23.25
		1	49	24.70	24.70	24.70	24.70	0.00	25.20	22.75	22.75	22.75	22.75	0.00	23.25
		1	99	24.27	24.36	24.28	24.25	0.00	25.20	22.62	22.74	22.66	22.73	0.00	23.25
		50	0	24.14	23.94	23.72	23.71	1.00	24.20	22.74	22.65	22.70	22.63	0.00	23.25
		50	24	24.20	24.20	24.20	24.20	1.00	24.20	22.75	22.75	22.75	22.75	0.00	23.25
		50	50	24.07	23.89	23.77	23.75	1.00	24.20	22.68	22.60	22.73	22.71	0.00	23.25
		100	0	24.09	23.91	24.20	23.75	1.00	24.20	22.73	22.75	22.75	22.72	0.00	23.25
	16QAM	1	0	24.20	23.89	23.73	23.87	1.00	24.20	22.59	22.73	22.68	22.71	0.00	23.25
		1	49	24.13	23.77	23.54	23.79	1.00	24.20	22.46	22.63	22.60	22.65	0.00	23.25
		1	99	24.17	23.78	23.58	23.86	1.00	24.20	22.47	22.71	22.67	22.73	0.00	23.25
		50	0	23.18	22.91	22.75	22.73	2.00	23.20	22.30	22.60	22.67	22.70	0.05	23.20
		50	24	23.15	22.89	22.80	22.79	2.00	23.20	22.26	22.67	22.76	22.75	0.05	23.20
		50	50	23.11	22.86	22.79	22.79	2.00	23.20	22.23	22.66	22.74	22.75	0.05	23.20
		100	0	23.12	22.89	22.80	22.78	2.00	23.20	22.27	22.66	22.78	22.78	0.05	23.20
	64QAM	1	0	23.05	23.19	23.07	23.11	2.00	23.20	22.30	22.40	22.21	22.49	0.05	23.20
		1	49	22.98	23.16	23.02	23.01	2.00	23.20	22.24	22.31	22.20	22.40	0.05	23.20
		1	99	23.06	23.20	23.12	23.11	2.00	23.20	22.29	22.42	22.23	22.36	0.05	23.20
		50	0	22.12	22.14	22.15	22.12	3.00	22.20	21.87	21.86	21.89	21.82	1.05	22.20
		50	24	22.10	22.12	22.19	22.17	3.00	22.20	21.86	21.88	21.91	21.90	1.05	22.20
		50	50	22.10	22.13	22.17	22.15	3.00	22.20	21.84	21.88	21.92	21.86	1.05	22.20
		100	0	22.09	22.11	22.17	22.17	3.00	22.20	21.83	21.83	21.95	21.86	1.05	22.20
	256QAM	1	0	19.81	19.82	19.99	19.75	5.00	20.20	19.81	19.74	19.76	19.79	3.05	20.20
		1	49	19.86	19.89	19.90	19.79	5.00	20.20	19.72	19.76	19.78	19.89	3.05	20.20
		1	99	19.88	19.96	19.81	19.83	5.00	20.20	19.93	19.75	19.72	19.92	3.05	20.20
		50	0	19.78	19.85	19.85	19.99	5.00	20.20	19.96	19.90	19.86	19.98	3.05	20.20
		50	24	19.90	20.00	19.76	19.87	5.00	20.20	19.82	19.89	19.99	19.82	3.05	20.20
		50	50	19.83	19.94	19.98	19.93	5.00	20.20	19.79	19.93	19.79	19.77	3.05	20.20
		100	0	19.91	19.90	19.98	19.88	5.00	20.20	19.72	19.95	19.91	19.90	3.05	20.20
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55315.00	55765.00	56215.00	56665.00	MPR	Tune-up Limit	55315.00	55765.00	56215.00	56665.00	MPR	Tune-up Limit
				3557.5 MHz	3602.5 MHz	3647.5 MHz	3692.5 MHz			3557.5 MHz	3602.5 MHz	3647.5 MHz	3692.5 MHz		
15 MHz	QPSK	1	0	24.31	24.38	24.20	24.28	0.00	25.20	22.57	22.70	22.58	22.66	0.00	23.25
		1	37	24.25	24.29	24.32	24.27	0.00	25.20	22.35	22.67	22.51	22.50	0.00	23.25
		1	74	24.26	24.38	24.42	24.33	0.00	25.20	22.69	22.70	22.63	22.60	0.00	23.25
		36	0	24.09	23.92	23.47	23.69	1.00	24.20	22.43	22.63	22.69	22.69	0.00	23.25
		36	20	24.09	23.89	23.45	23.67	1.00	24.20	22.52	22.63	22.68	22.66	0.00	23.25
		36	39	24.07	23.87	23.57	23.75	1.00	24.20	22.56	22.59	22.65	22.78	0.00	23.25
		75	0	24.05	23.89	23.55	23.66	1.00	24.20	22.52	22.58	22.66	22.66	0.00	23.25
	16QAM	1	0	24.15	23.88	23.69	23.80	1.00	24.20	22.63	22.63	22.66	22.60	0.00	23.25
		1	37	24.07	23.84	23.36	23.74	1.00	24.20	22.42	22.58	22.60	22.63	0.00	23.25
		1	74	24.12	23.89	23.92	23.83	1.00	24.20	22.66	22.61	22.71	22.60	0.00	23.25
		36	0	23.11	22.92	22.30	22.72	2.00	23.20	22.26	22.68	22.69	22.61	0.05	23.20
		36	20	23.10	22.90	22.39	22.70	2.00	23.20	22.26	22.65	22.68	22.64	0.05	23.20
		36	39	23.08	22.88	22.50	22.76	2.00	23.20	22.20	22.63	22.67	22.66	0.05	23.20
		75	0	23.09	22.88	22.43	22.69	2.00	23.20	22.20	22.63	22.68	22.56	0.05	23.20
	64QAM	1	0	22.61	22.44	23.03	22.80	2.00	23.20	22.20	22.24	22.31	22.20	0.05	23.20
		1	37	22.69	22.49	23.15	22.72	2.00	23.20	22.20	22.23	22.29	22.34	0.05	23.20
		1	74	22.81	22.57	22.89	22.93	2.00	23.20	22.46	22.29	22.41	22.32	0.05	23.20
		36	0	22.01	22.14	22.14	21.99	3.00	22.20	21.54	21.89	21.83	21.67	1.05	22.20
		36	20	22.00	22.13	21.97	21.98	3.00	22.20	21.48	21.87	21.82	21.78	1.05	22.20
		36	39	21.98	22.11	22.08	22.04	3.00	22.20	21.58	21.87	21.80	21.77	1.05	22.20
		75	0	22.06	22.06	21.97	22.02	3.00	22.20	21.45	21.81	21.87	21.67	1.05	22.20
	256QAM	1	0	19.86	19.72	19.92	19.71	5.00	20.20	19.75	19.86	19.91	19.76	3.05	20.20
		1	37	19.72	19.77	19.71	19.73	5.00	20.20	20.00	19.72	19.78	19.76	3.05	20.20
		1	74	19.72	19.74	19.85	19.90	5.00	20.20	19.97	19.72	19.89	19.87	3.05	20.20
		36	0	19.86	19.84	19.82	19.77	5.00	20.20	19.83	19.98	19.85	19.80	3.05	20.20
		36	20	19.97	19.71	19.80	19.93	5.00	20.20	19.80	19.73	19.78	19.99	3.05	20.20
		36	39	19.72	19.84	19.83	19.76	5.00	20.20	19.92	19.81	19.72	19.85	3.05	20.20
		75	0	19.83	19.92	19.83	19.76	5.00	20.20	19.99	19.94	19.74	19.90	3.05	20.20

Notes:

LTE Band 48 Low and high channels were tested using the maximum tune-up limit. This is for testing purpose only. For device placing to the market would follow the tune up procedure.

LTE Band 48 Measured Results (ANT9) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55290.00	55757.00	56223.00	56690.00	MPR	Tune-up Limit	55290.00	55757.00	56223.00	56690.00	MPR	Tune-up Limit
				3555 MHz	3601.7 MHz	3648.3 MHz	3695 MHz			3555 MHz	3601.7 MHz	3648.3 MHz	3695 MHz		
10 MHz	QPSK	1	0	24.29	24.31	24.28	24.20	0.00	25.20	22.61	22.68	22.65	22.57	0.00	23.25
		1	25	24.21	24.32	24.24	24.21	0.00	25.20	22.55	22.69	22.61	22.57	0.00	23.25
		1	49	24.29	24.36	24.31	24.25	0.00	25.20	22.59	22.68	22.64	22.61	0.00	23.25
		25	0	24.14	23.83	23.75	23.70	1.00	24.20	22.60	22.60	22.70	22.68	0.00	23.25
		25	12	24.14	23.75	23.75	23.81	1.00	24.20	22.70	22.68	22.73	22.77	0.00	23.25
		25	25	24.14	23.91	23.80	23.78	1.00	24.20	22.60	22.40	22.40	22.75	0.00	23.25
	16QAM	50	0	24.14	23.80	23.75	23.70	1.00	24.20	22.50	22.60	22.72	22.69	0.00	23.25
		1	0	24.12	23.93	23.75	23.70	1.00	24.20	22.76	22.50	22.68	22.67	0.00	23.25
		1	25	24.01	23.82	23.67	23.64	1.00	24.20	22.65	22.50	22.62	22.61	0.00	23.25
		1	49	24.04	23.94	23.75	23.72	1.00	24.20	22.69	22.70	22.71	22.68	0.00	23.25
		25	0	23.15	22.91	22.73	22.70	2.00	23.20	22.31	22.40	22.40	22.72	0.05	23.20
		25	12	23.16	22.93	22.72	22.84	2.00	23.20	22.33	22.30	22.40	22.83	0.05	23.20
	64QAM	25	25	23.15	22.93	22.79	22.83	2.00	23.20	22.32	22.30	22.30	22.82	0.05	23.20
		50	0	23.16	22.94	22.70	22.72	2.00	23.20	22.31	22.20	22.20	22.74	0.05	23.20
		1	0	22.95	22.39	23.19	23.09	2.00	23.20	22.26	22.31	22.20	22.20	0.05	23.20
		1	25	22.90	22.40	23.18	23.08	2.00	23.20	22.20	22.31	22.20	22.20	0.05	23.20
		1	49	23.03	22.47	23.19	23.08	2.00	23.20	22.22	22.39	22.20	22.20	0.05	23.20
		25	0	21.99	22.15	22.10	21.93	3.00	22.20	21.76	21.87	21.83	21.76	1.05	22.20
	256QAM	25	12	22.00	22.15	22.17	22.02	3.00	22.20	21.81	21.88	21.81	21.90	1.05	22.20
		25	25	22.10	22.12	22.17	22.08	3.00	22.20	21.77	21.85	21.92	21.85	1.05	22.20
		50	0	22.13	22.08	22.11	22.06	3.00	22.20	21.77	21.80	21.92	21.77	1.05	22.20
		1	0	19.74	19.71	19.98	19.71	5.00	20.20	19.89	19.89	19.88	19.98	3.05	20.20
		1	25	19.86	19.82	19.77	19.75	5.00	20.20	19.99	19.71	19.80	19.96	3.05	20.20
		1	49	19.96	19.77	19.74	19.73	5.00	20.20	19.94	19.92	19.78	19.76	3.05	20.20
5 MHz	QPSK	25	0	19.77	20.00	19.85	19.88	5.00	20.20	19.99	19.86	19.87	19.89	3.05	20.20
		25	12	19.78	19.95	19.73	19.75	5.00	20.20	19.95	19.91	19.75	19.91	3.05	20.20
		25	25	19.71	19.71	19.94	19.85	5.00	20.20	19.83	19.76	19.74	19.96	3.05	20.20
		50	0	19.75	19.87	19.82	19.78	5.00	20.20	19.74	19.71	19.75	19.94	3.05	20.20
	16QAM	1	0	24.32	24.36	24.26	24.24	0.00	25.20	22.43	22.47	22.42	22.45	0.00	23.25
		1	12	24.20	24.31	24.25	24.20	0.00	25.20	22.40	22.42	22.36	22.35	0.00	23.25
		1	24	24.29	24.37	24.33	24.24	0.00	25.20	22.46	22.51	22.44	22.45	0.00	23.25
		12	0	24.15	23.82	23.73	23.78	1.00	24.20	22.52	22.57	22.47	22.48	0.00	23.25
		12	7	24.16	23.93	23.79	23.77	1.00	24.20	22.53	22.64	22.56	22.51	0.00	23.25
		12	13	24.13	23.91	23.80	23.78	1.00	24.20	22.52	22.62	22.52	22.52	0.00	23.25
	64QAM	25	0	24.12	23.92	23.69	23.74	1.00	24.20	22.50	22.64	22.48	22.47	0.00	23.25
		1	0	24.07	23.83	23.88	23.69	1.00	24.20	22.40	22.26	22.30	22.35	0.00	23.25
		1	12	23.94	23.82	23.89	23.62	1.00	24.20	22.32	22.30	22.30	22.33	0.00	23.25
		1	24	24.06	23.87	23.97	23.69	1.00	24.20	22.40	22.33	22.29	22.42	0.00	23.25
		12	0	23.17	22.77	22.74	22.76	2.00	23.20	22.30	22.39	22.21	22.31	0.05	23.20
		12	7	23.11	22.89	22.83	22.79	2.00	23.20	22.30	22.41	22.29	22.33	0.05	23.20
	256QAM	12	13	23.14	22.87	22.81	22.79	2.00	23.20	22.30	22.41	22.29	22.32	0.05	23.20
		25	0	23.13	22.94	22.73	22.74	2.00	23.20	22.30	22.39	22.30	22.29	0.05	23.20
		1	0	23.06	22.97	22.88	22.74	2.00	23.20	22.27	22.40	22.78	22.31	0.05	23.20
		1	12	22.63	22.94	22.87	22.66	2.00	23.20	22.27	22.38	22.77	22.84	0.05	23.20
		1	24	22.70	23.09	22.93	22.71	2.00	23.20	22.33	22.44	22.84	22.89	0.05	23.20
		12	0	22.07	22.20	21.89	21.96	3.00	22.20	21.74	21.50	21.36	21.81	1.05	22.20
5 MHz	64QAM	12	7	22.00	22.17	22.11	22.07	3.00	22.20	21.76	21.71	21.90	21.78	1.05	22.20
		12	13	22.04	22.16	22.10	22.01	3.00	22.20	21.73	21.72	21.93	21.76	1.05	22.20
		25	0	22.07	22.03	22.02	22.10	3.00	22.20	21.80	21.69	21.86	21.81	1.05	22.20
	256QAM	1	0	19.85	19.77	19.72	19.77	5.00	20.20	19.81	19.77	19.76	19.93	3.05	20.20
		1	12	19.85	19.97	19.94	19.96	5.00	20.20	19.91	19.98	19.77	19.88	3.05	20.20
		1	24	19.86	19.85	19.79	19.73	5.00	20.20	19.88	19.72	19.90	19.92	3.05	20.20
		12	0	19.79	19.81	19.84	19.98	5.00	20.20	19.76	19.72	19.76	19.86	3.05	20.20
		12	7	19.82	19.92	19.84	19.89	5.00	20.20	19.83	19.90	19.89	19.99	3.05	20.20
		12	13	19.97	19.99	19.81	19.96	5.00	20.20	19.90	19.96	19.77	19.80	3.05	20.20
	256QAM	25	0	19.94	19.83	19.97	19.89	5.00	20.20	19.95	19.96	19.86	19.90	3.05	20.20

Notes:

LTE Band 48 Low and high channels were tested using the maximum tune-up limit. This is for testing purpose only. For device placing to the market would follow the tune up procedure.

LTE Band 48 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55340	55773	56207	56640	MPR	Tune-up Limit	55340	55773	56207	56640	MPR	Tune-up Limit
				3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz			3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz		
20 MHz	QPSK	1	0	21.70	21.48	21.43	21.49	0.00	22.20	20.50	20.32	20.20	20.28	0.00	21.00
		1	49	22.20	22.20	22.20	22.20	0.00	22.20	20.75	20.75	20.75	20.75	0.00	21.00
		1	99	21.58	21.34	21.46	21.46	0.00	22.20	20.38	20.19	20.26	20.23	0.00	21.00
		50	0	20.73	20.50	20.43	20.49	1.00	21.20	20.54	20.34	20.22	20.28	0.00	21.00
		50	24	21.20	21.20	21.20	21.20	1.00	21.20	20.75	20.75	20.75	20.75	0.00	21.00
		50	50	20.62	20.37	20.52	20.54	1.00	21.20	20.43	20.23	20.31	20.32	0.00	21.00
		100	0	20.64	20.49	21.20	20.55	1.00	21.20	20.45	20.34	20.75	20.35	0.00	21.00
	16QAM	1	0	20.86	20.61	20.58	20.63	1.00	21.20	20.41	20.20	20.00	20.17	0.00	21.00
		1	49	20.73	20.48	20.52	20.53	1.00	21.20	20.30	20.08	20.00	20.10	0.00	21.00
		1	99	20.73	20.49	20.59	20.60	1.00	21.20	20.29	20.08	20.00	20.14	0.00	21.00
		50	0	19.98	19.73	19.67	19.71	2.00	20.20	19.84	19.62	19.44	19.56	0.80	20.20
		50	24	19.89	19.71	19.67	19.79	2.00	20.20	19.75	19.61	19.47	19.64	0.80	20.20
		50	50	19.84	19.60	19.74	19.75	2.00	20.20	19.71	19.50	19.55	19.63	0.80	20.20
		100	0	19.85	19.68	19.64	19.74	2.00	20.20	19.69	19.56	19.47	19.60	0.80	20.20
	64QAM	1	0	19.99	19.80	19.63	19.72	2.00	20.20	19.78	19.61	19.44	19.51	0.80	20.20
		1	49	19.82	19.57	19.60	19.64	2.00	20.20	19.63	19.46	19.40	19.44	0.80	20.20
		1	99	19.80	19.59	19.72	19.73	2.00	20.20	19.63	19.44	19.54	19.52	0.80	20.20
		50	0	18.98	18.75	18.69	18.74	3.00	19.20	18.84	18.64	18.50	18.59	1.80	19.20
		50	24	18.90	18.73	18.66	18.82	3.00	19.20	18.75	18.64	18.52	18.65	1.80	19.20
		50	50	18.89	18.64	18.75	18.79	3.00	19.20	18.71	18.52	18.59	18.62	1.80	19.20
		100	0	18.91	18.76	18.68	18.81	3.00	19.20	18.74	18.61	18.52	18.63	1.80	19.20
	256QAM	1	0	16.78	16.88	16.75	16.92	5.00	17.20	16.87	16.93	16.98	16.89	3.80	17.20
		1	49	16.85	16.97	16.94	16.78	5.00	17.20	16.71	16.72	16.72	16.83	3.80	17.20
		1	99	16.92	16.87	16.91	17.00	5.00	17.20	16.89	16.97	16.89	16.94	3.80	17.20
		50	0	16.93	16.75	16.73	16.98	5.00	17.20	16.83	16.95	16.94	16.77	3.80	17.20
		50	24	16.90	16.76	16.91	16.92	5.00	17.20	16.94	16.78	16.71	17.00	3.80	17.20
		50	50	16.78	16.81	16.75	16.89	5.00	17.20	16.94	16.91	16.85	17.00	3.80	17.20
		100	0	16.74	16.99	16.99	16.83	5.00	17.20	16.79	16.85	16.84	16.80	3.80	17.20
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55315	55765	56215	56665	MPR	Tune-up Limit	55315	55765	56215	56665	MPR	Tune-up Limit
				3557.5 MHz	3602.5 MHz	3647.5 MHz	3692.5 MHz			3557.5 MHz	3602.5 MHz	3647.5 MHz	3692.5 MHz		
15 MHz	QPSK	1	0	21.59	21.40	21.35	21.40	0.00	22.20	20.39	20.22	20.17	20.20	0.00	21.00
		1	37	21.55	21.35	21.37	21.41	0.00	22.20	20.35	20.16	20.19	20.20	0.00	21.00
		1	74	21.57	21.39	21.47	21.48	0.00	22.20	20.38	20.24	20.28	20.27	0.00	21.00
		36	0	20.76	20.55	20.41	20.47	1.00	21.20	20.52	20.36	20.25	20.29	0.00	21.00
		36	20	20.61	20.47	20.41	20.50	1.00	21.20	20.43	20.27	20.26	20.28	0.00	21.00
		36	39	20.63	20.48	20.46	20.48	1.00	21.20	20.39	20.27	20.30	20.34	0.00	21.00
		75	0	20.58	20.47	20.47	20.45	1.00	21.20	20.40	20.28	20.30	20.25	0.00	21.00
	16QAM	1	0	20.70	20.51	20.45	20.50	1.00	21.20	20.51	20.31	20.29	20.33	0.00	21.00
		1	37	20.65	20.43	20.45	20.46	1.00	21.20	20.46	20.27	20.30	20.30	0.00	21.00
		1	74	20.66	20.48	20.56	20.55	1.00	21.20	20.50	20.33	20.41	20.33	0.00	21.00
		36	0	19.94	19.71	19.67	19.69	2.00	20.20	19.82	19.61	19.53	19.58	0.80	20.20
		36	20	19.84	19.69	19.66	19.66	2.00	20.20	19.69	19.59	19.52	19.51	0.80	20.20
		36	39	19.80	19.64	19.67	19.73	2.00	20.20	19.66	19.55	19.58	19.57	0.80	20.20
		75	0	19.80	19.66	19.69	19.65	2.00	20.20	19.69	19.57	19.59	19.51	0.80	20.20
	64QAM	1	0	19.67	19.46	19.36	19.40	2.00	20.20	19.51	19.31	19.22	19.24	0.80	20.20
		1	37	19.59	19.34	19.37	19.40	2.00	20.20	19.40	19.22	19.22	19.23	0.80	20.20
		1	74	19.62	19.47	19.52	19.52	2.00	20.20	19.43	19.31	19.39	19.36	0.80	20.20
		36	0	18.94	18.67	18.60	18.67	3.00	19.20	18.74	18.55	18.49	18.50	1.80	19.20
		36	20	18.82	18.70	18.63	18.66	3.00	19.20	18.65	18.55	18.47	18.51	1.80	19.20
		36	39	18.75	18.67	18.65	18.69	3.00	19.20	18.62	18.48	18.55	18.55	1.80	19.20
		75	0	18.86	18.72	18.73	18.69	3.00	19.20	18.70	18.58	18.62	18.55	1.80	19.20
	256QAM	1	0	16.80	16.83	16.91	16.93	5.00	17.20	16.80	16.92	16.91	16.87	3.80	17.20
		1	37	16.98	16.79	16.76	16.84	5.00	17.20	16.94	16.97	16.85	16.76	3.80	17.20
		1	74	16.88	16.97	16.91	16.93	5.00	17.20	16.92	16.86	16.93	16.99	3.80	17.20
		36	0	16.96	16.95	16.94	16.76	5.00	17.20	16.78	16.92	16.85	16.80	3.80	17.20
		36	20	17.00	16.92	16.90	16.96	5.00	17.20	16.87	16.81	16.91	16.98	3.80	17.20
		36	39	16.74	16.90	16.94	16.88	5.00	17.20	16.88	16.84	16.85	17.00	3.80	17.20
		75	0	16.87	16.88	16.74	16.80	5.00	17.20	16.72	16.87	16.96	16.71	3.80	17.20

Notes:

LTE Band 48 Low and high channels were tested using the maximum tune-up limit. This is for testing purpose only. For device placing to the market would follow the tune up procedure.

LTE Band 48 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55290	55757	56223	56690	MPR	Tune-up Limit	55290	55757	56223	56690	MPR	Tune-up Limit
				3555 MHz	3601.7 MHz	3648.3 MHz	3695 MHz			3555 MHz	3601.7 MHz	3648.3 MHz	3695 MHz		
10 MHz	QPSK	1	0	21.54	21.32	21.32	21.42	0.00	22.20	20.36	20.15	20.16	20.18	0.00	21.00
		1	25	21.61	21.33	21.35	21.45	0.00	22.20	20.36	20.19	20.18	20.21	0.00	21.00
		1	49	21.54	21.32	21.37	21.42	0.00	22.20	20.42	20.19	20.21	20.20	0.00	21.00
		25	0	20.67	20.42	20.40	20.52	1.00	21.20	20.48	20.29	20.19	20.24	0.00	21.00
		25	12	20.52	20.32	20.40	20.52	1.00	21.20	20.35	20.19	20.16	20.15	0.00	21.00
		25	25	20.73	20.51	20.52	20.59	1.00	21.20	20.53	20.33	20.35	20.37	0.00	21.00
		50	0	20.72	20.46	20.50	20.53	1.00	21.20	20.50	20.27	20.33	20.25	0.00	21.00
	16QAM	1	0	20.75	20.50	20.54	20.65	1.00	21.20	20.53	20.34	20.33	20.36	0.00	21.00
		1	25	20.59	20.39	20.44	20.53	1.00	21.20	20.41	20.19	20.18	20.23	0.00	21.00
		1	49	20.79	20.56	20.57	20.65	1.00	21.20	20.56	20.35	20.40	20.38	0.00	21.00
		25	0	19.96	19.74	19.64	19.80	2.00	20.20	19.73	19.56	19.47	19.51	0.80	20.20
		25	12	20.00	19.77	19.74	19.82	2.00	20.20	19.77	19.60	19.57	19.52	0.80	20.20
		25	25	19.98	19.72	19.75	19.85	2.00	20.20	19.80	19.58	19.62	19.65	0.80	20.20
		50	0	19.99	19.77	19.77	19.79	2.00	20.20	19.83	19.57	19.58	19.58	0.80	20.20
	64QAM	1	0	20.02	19.86	19.78	19.90	2.00	20.20	19.91	19.63	19.56	19.59	0.80	20.20
		1	25	19.91	19.78	19.79	19.86	2.00	20.20	19.75	19.41	19.43	19.49	0.80	20.20
		1	49	20.08	19.85	19.90	19.94	2.00	20.20	19.88	19.67	19.73	19.74	0.80	20.20
		25	0	18.88	18.65	18.57	18.61	3.00	19.20	18.72	18.49	18.45	18.50	1.80	19.20
		25	12	18.90	18.65	18.65	18.62	3.00	19.20	18.72	18.50	18.54	18.51	1.80	19.20
		25	25	19.00	18.78	18.88	18.88	3.00	19.20	18.66	18.40	18.39	18.43	1.80	19.20
		50	0	19.02	18.78	18.88	18.84	3.00	19.20	18.70	18.40	18.43	18.39	1.80	19.20
	256QAM	1	0	16.78	16.95	16.96	16.91	5.00	17.20	16.87	16.95	16.82	16.73	3.80	17.20
		1	25	16.89	16.95	16.77	16.75	5.00	17.20	16.88	16.93	16.90	16.99	3.80	17.20
		1	49	16.70	16.92	16.74	16.76	5.00	17.20	16.87	16.74	16.98	16.80	3.80	17.20
		25	0	16.77	16.90	16.98	16.93	5.00	17.20	16.90	16.73	16.71	16.95	3.80	17.20
		25	12	16.87	16.70	16.71	16.87	5.00	17.20	16.91	16.86	16.90	16.85	3.80	17.20
		25	25	16.86	16.70	16.87	16.74	5.00	17.20	16.92	16.88	16.96	16.77	3.80	17.20
		50	0	16.71	16.95	16.79	16.73	5.00	17.20	16.92	16.97	16.88	16.79	3.80	17.20
5 MHz	QPSK	1	0	21.67	21.47	21.46	21.49	0.00	22.20	20.46	20.28	20.29	20.28	0.00	21.00
		1	12	21.59	21.39	21.39	21.42	0.00	22.20	20.39	20.18	20.22	20.19	0.00	21.00
		1	24	21.70	21.47	21.52	21.51	0.00	22.20	20.48	20.30	20.35	20.32	0.00	21.00
		12	0	20.85	20.55	20.60	20.58	1.00	21.20	20.60	20.41	20.34	20.37	0.00	21.00
		12	7	20.65	20.37	20.46	20.56	1.00	21.20	20.47	20.28	20.35	20.36	0.00	21.00
		12	13	20.64	20.38	20.39	20.50	1.00	21.20	20.50	20.30	20.29	20.32	0.00	21.00
		25	0	20.80	20.52	20.53	20.53	1.00	21.20	20.53	20.33	20.36	20.33	0.00	21.00
	16QAM	1	0	20.77	20.72	20.71	20.73	1.00	21.20	20.52	20.47	20.47	20.46	0.00	21.00
		1	12	20.62	20.65	20.67	20.65	1.00	21.20	20.43	20.36	20.42	20.38	0.00	21.00
		1	24	20.75	20.73	20.76	20.75	1.00	21.20	20.50	20.45	20.51	20.47	0.00	21.00
		12	0	20.09	19.86	19.88	19.90	2.00	20.20	19.78	19.69	19.77	19.74	0.80	20.20
		12	7	19.86	19.72	19.76	19.75	2.00	20.20	19.72	19.58	19.65	19.61	0.80	20.20
		12	13	19.87	19.71	19.74	19.83	2.00	20.20	19.73	19.59	19.67	19.60	0.80	20.20
		25	0	19.97	19.75	19.78	19.79	2.00	20.20	19.80	19.60	19.62	19.59	0.80	20.20
	64QAM	1	0	20.10	19.87	19.87	19.90	2.00	20.20	19.87	19.71	19.69	19.68	0.80	20.20
		1	12	20.07	19.81	19.81	19.85	2.00	20.20	19.80	19.63	19.65	19.64	0.80	20.20
		1	24	20.10	19.81	19.90	19.91	2.00	20.20	19.87	19.67	19.71	19.67	0.80	20.20
		12	0	18.70	18.75	18.75	18.49	3.00	19.20	18.74	18.40	18.45	18.42	1.80	19.20
		12	7	18.81	18.60	18.60	18.64	3.00	19.20	18.71	18.51	18.54	18.52	1.80	19.20
		12	13	18.98	18.57	18.61	18.64	3.00	19.20	18.72	18.52	18.54	18.53	1.80	19.20
		25	0	18.86	18.59	18.65	18.65	3.00	19.20	18.67	18.46	18.50	18.48	1.80	19.20
	256QAM	1	0	16.71	16.87	16.92	16.75	5.00	17.20	16.87	16.82	16.71	16.79	3.80	17.20
		1	12	16.88	16.92	16.81	16.94	5.00	17.20	16.89	16.92	16.80	16.74	3.80	17.20
		1	24	16.88	16.82	16.77	16.73	5.00	17.20	16.84	16.94	16.80	16.77	3.80	17.20
		12	0	16.70	16.87	16.89	16.92	5.00	17.20	16.94	16.72	16.79	16.88	3.80	17.20
		12	7	16.86	16.75	16.74	16.99	5.00	17.20	16.71	16.82	16.89	16.79	3.80	17.20
		12	13	16.92	16.75	16.90	16.84	5.00	17.20	16.75	16.92	16.93	16.71	3.80	17.20
		25	0	16.73	16.75	16.74	16.72	5.00	17.20	16.96	16.73	16.84	16.74	3.80	17.20

Notes:

LTE Band 48 Low and high channels were tested using the maximum tune-up limit. This is for testing purpose only. For device placing to the market would follow the tune up procedure.

LTE Band 66 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Tune-up Limit	132072	132322	132572	MPR	Tune-up Limit
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	24.93	24.88	24.91	0.00	25.70	18.60	18.52	18.46	0.00	19.25
		1	49	24.81	25.20	24.76	0.00	25.70	18.52	18.45	18.43	0.00	19.25
		1	99	24.73	24.80	24.76	0.00	25.70	18.48	18.44	18.38	0.00	19.25
		50	0	24.17	24.05	24.05	1.00	24.70	18.55	18.50	18.45	0.00	19.25
		50	24	24.15	24.30	23.99	1.00	24.70	18.60	18.57	18.45	0.00	19.25
		50	50	24.07	24.03	23.95	1.00	24.70	18.58	18.51	18.50	0.00	19.25
	16QAM	100	0	24.12	24.11	23.99	1.00	24.70	18.58	18.56	18.42	0.00	19.25
		1	0	24.20	24.29	24.26	1.00	24.70	19.16	18.94	19.00	0.00	19.25
		1	49	24.20	24.15	24.12	1.00	24.70	19.13	18.92	18.89	0.00	19.25
		1	99	24.20	24.20	24.12	1.00	24.70	19.07	18.88	18.89	0.00	19.25
		50	0	23.31	23.13	23.13	2.00	23.70	18.60	18.49	18.48	0.00	19.25
		50	24	23.27	23.16	23.08	2.00	23.70	18.68	18.57	18.48	0.00	19.25
	64QAM	50	50	23.23	23.10	23.02	2.00	23.70	18.61	18.51	18.51	0.00	19.25
		100	0	23.19	23.03	23.02	2.00	23.70	18.65	18.57	18.45	0.00	19.25
		1	0	23.48	23.43	23.52	2.00	23.70	19.22	18.70	18.74	0.00	19.25
		1	49	23.36	23.42	23.67	2.00	23.70	19.18	18.69	18.75	0.00	19.25
		1	99	23.23	23.36	23.04	2.00	23.70	19.11	18.68	18.74	0.00	19.25
		50	0	22.25	22.51	22.44	3.00	22.70	18.60	18.52	18.51	0.00	19.25
	256QAM	50	24	22.22	22.58	22.36	3.00	22.70	18.65	18.60	18.52	0.00	19.25
		50	50	22.09	22.49	22.06	3.00	22.70	18.60	18.54	18.57	0.00	19.25
		100	0	22.13	22.48	22.16	3.00	22.70	18.59	18.56	18.44	0.00	19.25
		1	0	20.41	20.67	20.62	5.00	20.70	18.45	18.59	18.49	0.00	19.25
		1	49	20.47	20.59	20.54	5.00	20.70	18.38	18.50	18.44	0.00	19.25
		1	99	20.50	20.61	20.40	5.00	20.70	18.32	18.50	18.43	0.00	19.25
15 MHz	QPSK	50	0	20.41	20.52	20.55	5.00	20.70	18.36	18.30	18.57	0.00	19.25
		50	24	20.49	20.40	20.40	5.00	20.70	18.56	18.44	18.40	0.00	19.25
		50	50	20.57	20.41	20.57	5.00	20.70	18.30	18.37	18.34	0.00	19.25
		100	0	20.66	20.66	20.62	5.00	20.70	18.49	18.41	18.38	0.00	19.25
	16QAM	1	0	25.45	25.40	25.43	0.00	25.70	18.70	18.71	18.68	0.00	19.25
		1	37	25.33	25.32	25.28	0.00	25.70	18.69	18.69	18.58	0.00	19.25
		1	74	25.25	25.32	25.28	0.00	25.70	18.62	18.67	18.62	0.00	19.25
		36	0	24.29	24.17	24.17	1.00	24.70	18.81	18.67	18.64	0.00	19.25
		36	20	24.27	24.23	24.11	1.00	24.70	18.82	18.79	18.65	0.00	19.25
		36	39	24.19	24.15	24.07	1.00	24.70	18.79	18.75	18.69	0.00	19.25
	64QAM	75	0	24.24	24.23	24.11	1.00	24.70	18.82	18.71	18.62	0.00	19.25
		1	0	24.66	24.41	24.38	1.00	24.70	18.69	19.13	19.07	0.00	19.25
		1	37	24.55	24.27	24.24	1.00	24.70	18.72	19.13	19.04	0.00	19.25
		1	74	24.62	24.32	24.24	1.00	24.70	18.68	19.11	19.01	0.00	19.25
		36	0	23.43	23.25	23.25	2.00	23.70	18.85	18.67	18.69	0.00	19.25
		36	20	23.39	23.28	23.20	2.00	23.70	18.87	18.77	18.72	0.00	19.25
	256QAM	36	39	23.35	23.22	23.14	2.00	23.70	18.80	18.73	18.74	0.00	19.25
		75	0	23.31	23.15	23.14	2.00	23.70	18.82	18.73	18.65	0.00	19.25
		1	0	23.60	23.55	23.64	2.00	23.70	18.87	19.23	18.92	0.00	19.25
		1	37	23.48	23.54	23.69	2.00	23.70	18.86	19.25	18.89	0.00	19.25
		1	74	23.35	23.48	23.16	2.00	23.70	18.79	19.24	18.85	0.00	19.25
		36	0	22.37	22.63	22.56	3.00	22.70	18.92	18.67	18.66	0.00	19.25
	64QAM	36	20	22.34	22.70	22.48	3.00	22.70	18.91	18.79	18.70	0.00	19.25
		36	39	22.21	22.61	22.18	3.00	22.70	18.86	18.76	18.74	0.00	19.25
		75	0	22.25	22.60	22.28	3.00	22.70	18.81	18.78	18.62	0.00	19.25
	256QAM	1	0	20.42	20.68	20.54	5.00	20.70	18.37	18.55	18.59	0.00	19.25
		1	37	20.56	20.57	20.54	5.00	20.70	18.53	18.33	18.58	0.00	19.25
		1	74	20.61	20.41	20.47	5.00	20.70	18.43	18.52	18.60	0.00	19.25
		36	0	20.68	20.59	20.64	5.00	20.70	18.41	18.57	18.37	0.00	19.25
	256QAM	36	20	20.57	20.65	20.47	5.00	20.70	18.46	18.55	18.46	0.00	19.25
		36	39	20.48	20.44	20.58	5.00	20.70	18.55	18.36	18.41	0.00	19.25
		75	0	20.43	20.68	20.61	5.00	20.70	18.37	18.58	18.44	0.00	19.25

LTE Band 66 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132022.00	132322.00	132622.00	MPR	Tune-up Limit	132022.00	132322.00	132622.00	MPR	Tune-up Limit
				1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	24.87	24.82	24.85	0.00	25.70	18.76	18.57	18.63	0.00	19.25
		1	25	24.75	24.74	24.81	0.00	25.70	18.64	18.62	18.60	0.00	19.25
		1	49	24.71	24.74	24.70	0.00	25.70	18.67	18.55	18.63	0.00	19.25
		25	0	24.41	24.29	24.29	1.00	24.70	18.86	18.68	18.64	0.00	19.25
		25	12	24.39	24.35	24.23	1.00	24.70	18.84	18.77	18.65	0.00	19.25
		25	25	24.31	24.27	24.19	1.00	24.70	18.81	18.73	18.67	0.00	19.25
	16QAM	50	0	24.36	24.35	24.23	1.00	24.70	18.81	18.73	18.64	0.00	19.25
		1	0	24.61	24.53	24.50	1.00	24.70	18.78	18.77	19.06	0.00	19.25
		1	25	24.41	24.39	24.36	1.00	24.70	18.76	18.70	19.07	0.00	19.25
		1	49	24.51	24.44	24.36	1.00	24.70	18.73	18.68	19.03	0.00	19.25
		25	0	23.55	23.37	23.37	2.00	23.70	18.87	18.78	18.70	0.00	19.25
		25	12	23.51	23.40	23.32	2.00	23.70	18.87	18.85	18.70	0.00	19.25
	64QAM	25	25	23.47	23.34	23.26	2.00	23.70	18.82	18.82	18.72	0.00	19.25
		50	0	23.43	23.27	23.26	2.00	23.70	18.79	18.79	18.68	0.00	19.25
		1	0	23.22	23.67	23.68	2.00	23.70	18.92	18.86	18.93	0.00	19.25
		1	25	23.10	23.45	23.56	2.00	23.70	18.92	18.88	18.97	0.00	19.25
		1	49	22.97	23.60	23.28	2.00	23.70	18.84	18.85	18.96	0.00	19.25
		25	0	21.99	22.00	22.68	3.00	22.70	18.91	18.77	18.71	0.00	19.25
	256QAM	25	12	21.96	22.00	22.60	3.00	22.70	18.92	18.85	18.71	0.00	19.25
		25	25	21.83	22.01	22.30	3.00	22.70	18.86	18.84	18.76	0.00	19.25
		50	0	21.87	22.11	22.40	3.00	22.70	18.88	18.77	18.66	0.00	19.25
		1	0	20.69	20.46	20.67	5.00	20.70	18.45	18.48	18.54	0.00	19.25
		1	25	20.55	20.52	20.68	5.00	20.70	18.57	18.52	18.53	0.00	19.25
		1	49	20.59	20.60	20.48	5.00	20.70	18.49	18.36	18.30	0.00	19.25
5 MHz	QPSK	25	0	20.66	20.52	20.61	5.00	20.70	18.36	18.31	18.37	0.00	19.25
		25	12	20.48	20.45	20.70	5.00	20.70	18.53	18.37	18.39	0.00	19.25
		25	25	20.65	20.45	20.58	5.00	20.70	18.31	18.32	18.45	0.00	19.25
		50	0	20.43	20.66	20.54	5.00	20.70	18.42	18.50	18.58	0.00	19.25
	16QAM	1	0	24.99	24.94	24.97	0.00	25.70	18.84	18.64	18.60	0.00	19.25
		1	12	24.87	24.86	24.82	0.00	25.70	18.79	18.69	18.64	0.00	19.25
		1	24	24.79	24.86	24.82	0.00	25.70	18.76	18.69	18.62	0.00	19.25
		12	0	24.53	24.41	24.41	1.00	24.70	18.82	18.74	18.74	0.00	19.25
		12	7	24.51	24.47	24.35	1.00	24.70	18.86	18.76	18.72	0.00	19.25
		12	13	24.43	24.39	24.31	1.00	24.70	18.79	18.73	18.71	0.00	19.25
	64QAM	25	0	24.48	24.47	24.35	1.00	24.70	18.83	18.77	18.71	0.00	19.25
		1	0	24.18	24.65	24.62	1.00	24.70	18.94	18.81	19.18	0.00	19.25
		1	12	24.01	24.51	24.48	1.00	24.70	18.93	18.83	19.20	0.00	19.25
		1	24	23.95	24.56	24.48	1.00	24.70	18.90	18.85	19.14	0.00	19.25
		12	0	23.67	23.49	23.49	2.00	23.70	18.89	18.81	18.82	0.00	19.25
		12	7	23.63	23.52	23.44	2.00	23.70	18.93	18.84	18.87	0.00	19.25
	256QAM	12	13	23.59	23.46	23.38	2.00	23.70	18.89	18.81	18.83	0.00	19.25
		25	0	23.55	23.39	23.38	2.00	23.70	18.84	18.71	18.76	0.00	19.25
		1	0	23.34	23.39	23.48	2.00	23.70	19.07	18.63	19.07	0.00	19.25
		1	12	23.22	23.38	23.63	2.00	23.70	19.05	18.68	19.07	0.00	19.25
		1	24	23.09	23.32	23.00	2.00	23.70	19.03	18.67	19.02	0.00	19.25
		12	0	22.11	22.47	22.40	3.00	22.70	18.87	18.78	18.65	0.00	19.25
5 MHz	64QAM	12	7	22.08	22.54	22.32	3.00	22.70	18.90	18.83	18.71	0.00	19.25
		12	13	21.95	22.45	22.02	3.00	22.70	18.87	18.79	18.67	0.00	19.25
		25	0	21.99	22.44	22.12	3.00	22.70	18.82	18.74	18.70	0.00	19.25
	256QAM	1	0	20.51	20.57	20.68	5.00	20.70	18.37	18.56	18.35	0.00	19.25
		1	12	20.50	20.65	20.49	5.00	20.70	18.32	18.32	18.51	0.00	19.25
		1	24	20.50	20.56	20.50	5.00	20.70	18.37	18.54	18.45	0.00	19.25
		12	0	20.52	20.55	20.46	5.00	20.70	18.57	18.31	18.48	0.00	19.25
		12	7	20.69	20.48	20.57	5.00	20.70	18.35	18.45	18.55	0.00	19.25
		12	13	20.66	20.45	20.69	5.00	20.70	18.49	18.55	18.39	0.00	19.25
		25	0	20.40	20.66	20.50	5.00	20.70	18.34	18.49	18.44	0.00	19.25

LTE Band 66 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131987.00	132322.00	132657.00	MPR	Tune-up Limit	131987.00	132322.00	132657.00	MPR	Tune-up Limit
				1711.5 MHz	1745 MHz	1778.5 MHz			1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	25.11	25.06	25.09	0.00	25.70	18.71	18.58	18.68	0.00	19.25
		1	8	24.99	24.98	24.94	0.00	25.70	18.63	18.61	18.68	0.00	19.25
		1	14	24.91	24.98	24.94	0.00	25.70	18.70	18.60	18.67	0.00	19.25
		8	0	24.65	24.53	24.53	1.00	24.70	18.78	18.72	18.71	0.00	19.25
		8	4	24.63	24.59	24.47	1.00	24.70	18.82	18.75	18.73	0.00	19.25
		8	7	24.55	24.51	24.43	1.00	24.70	18.81	18.75	18.71	0.00	19.25
	16QAM	15	0	24.60	24.59	24.47	1.00	24.70	18.83	18.72	18.73	0.00	19.25
		1	0	24.30	24.54	24.60	1.00	24.70	18.75	18.72	19.11	0.00	19.25
		1	8	24.13	24.63	24.60	1.00	24.70	18.62	18.70	19.01	0.00	19.25
		1	14	24.07	24.68	24.60	1.00	24.70	18.66	18.74	19.06	0.00	19.25
		8	0	22.79	23.61	23.61	2.00	23.70	18.91	18.78	18.76	0.00	19.25
		8	4	22.75	23.64	23.56	2.00	23.70	18.92	18.78	18.83	0.00	19.25
	64QAM	8	7	22.71	23.58	23.50	2.00	23.70	18.92	18.83	18.84	0.00	19.25
		15	0	22.71	23.51	23.50	2.00	23.70	18.81	18.70	18.78	0.00	19.25
		1	0	23.46	23.41	23.50	2.00	23.70	19.04	18.97	18.83	0.00	19.25
		1	8	23.34	23.40	23.65	2.00	23.70	18.94	18.96	18.84	0.00	19.25
		1	14	23.21	23.34	23.02	2.00	23.70	19.00	19.05	18.82	0.00	19.25
		8	0	22.23	22.49	22.42	3.00	22.70	18.79	18.80	18.78	0.00	19.25
	256QAM	8	4	22.20	22.56	22.34	3.00	22.70	18.80	18.86	18.81	0.00	19.25
		8	7	22.07	22.47	22.04	3.00	22.70	18.78	18.87	18.81	0.00	19.25
		15	0	22.11	22.46	22.14	3.00	22.70	18.87	18.73	18.76	0.00	19.25
		1	0	20.45	20.49	20.63	5.00	20.70	18.35	18.48	18.43	0.00	19.25
		1	8	20.62	20.48	20.43	5.00	20.70	18.34	18.46	18.44	0.00	19.25
		1	14	20.46	20.47	20.57	5.00	20.70	18.30	18.47	18.60	0.00	19.25
1.4 MHz	QPSK	8	0	20.59	20.40	20.54	5.00	20.70	18.36	18.54	18.46	0.00	19.25
		8	4	20.59	20.67	20.70	5.00	20.70	18.53	18.39	18.31	0.00	19.25
		8	7	20.51	20.52	20.42	5.00	20.70	18.32	18.30	18.52	0.00	19.25
		15	0	20.51	20.54	20.60	5.00	20.70	18.51	18.31	18.59	0.00	19.25
	16QAM	1	0	25.23	25.18	25.21	0.00	25.70	18.69	18.54	18.61	0.00	19.25
		1	3	25.11	25.10	25.06	0.00	25.70	18.75	18.61	18.62	0.00	19.25
		1	5	25.03	25.10	25.06	0.00	25.70	18.68	18.56	18.59	0.00	19.25
		3	0	24.77	24.98	24.89	0.00	25.70	18.63	18.55	18.58	0.00	19.25
		3	1	24.75	24.71	24.78	0.00	25.70	18.66	18.62	18.62	0.00	19.25
		3	3	24.87	24.97	24.99	0.00	25.70	18.67	18.62	18.65	0.00	19.25
	64QAM	6	0	24.51	24.66	24.59	1.00	24.70	18.73	18.66	18.64	0.00	19.25
		1	0	24.42	23.89	23.86	1.00	24.70	18.85	18.67	19.01	0.00	19.25
		1	3	24.25	23.75	23.72	1.00	24.70	18.91	18.76	19.06	0.00	19.25
		1	5	24.19	23.80	23.72	1.00	24.70	18.84	18.69	19.00	0.00	19.25
		3	0	23.91	23.73	23.73	1.00	24.70	18.76	18.82	18.83	0.00	19.25
		3	1	23.87	23.76	23.76	1.00	24.70	18.81	18.87	18.86	0.00	19.25
	256QAM	3	3	23.83	24.00	23.87	1.00	24.70	18.80	18.88	18.86	0.00	19.25
		6	0	23.68	23.63	23.62	2.00	23.70	18.86	18.83	18.58	0.00	19.25
		1	0	23.58	23.03	23.12	2.00	23.70	18.90	19.03	18.75	0.00	19.25
		1	3	23.46	23.02	23.27	2.00	23.70	18.97	19.12	18.81	0.00	19.25
		1	5	23.33	22.96	22.78	2.00	23.70	18.92	19.01	18.75	0.00	19.25
		3	0	23.35	23.11	23.04	2.00	23.70	18.65	18.97	18.78	0.00	19.25
	64QAM	3	1	23.32	23.18	22.96	2.00	23.70	18.68	18.97	18.83	0.00	19.25
		3	3	23.19	23.09	22.77	2.00	23.70	18.70	19.01	18.84	0.00	19.25
		6	0	22.23	22.08	21.76	3.00	22.70	18.78	18.61	18.96	0.00	19.25
	256QAM	1	0	20.57	20.50	20.48	5.00	20.70	18.56	18.53	18.55	0.00	19.25
		1	3	20.61	20.64	20.57	5.00	20.70	18.55	18.35	18.46	0.00	19.25
		1	5	20.49	20.56	20.66	5.00	20.70	18.49	18.47	18.39	0.00	19.25
		3	0	20.66	20.41	20.62	5.00	20.70	18.37	18.52	18.33	0.00	19.25
	256QAM	3	1	20.50	20.45	20.40	5.00	20.70	18.30	18.44	18.45	0.00	19.25
		3	3	20.57	20.42	20.52	5.00	20.70	18.49	18.31	18.40	0.00	19.25
		6	0	20.68	20.41	20.63	5.00	20.70	18.57	18.52	18.35	0.00	19.25

LTE Band 66 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Tune-up Limit	132072	132322	132572	MPR	Tune-up Limit
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	20.95	20.94	20.82	0.00	21.50	20.58	20.67	20.67	0.00	21.00
		1	49	21.00	21.00	21.00	0.00	21.50	20.75	20.75	20.75	0.00	21.00
		1	99	20.86	20.84	20.72	0.00	21.50	20.43	20.59	20.58	0.00	21.00
		50	0	20.82	20.86	20.73	0.00	21.50	20.56	20.68	20.66	0.00	21.00
		50	24	21.00	21.00	21.00	0.00	21.50	20.75	20.75	20.75	0.00	21.00
		50	50	20.86	20.85	20.73	0.00	21.50	20.58	20.68	20.69	0.00	21.00
	16QAM	100	0	20.88	21.00	20.75	0.00	21.50	20.60	20.75	20.69	0.00	21.00
		1	0	20.83	20.96	20.93	0.00	21.50	20.83	20.50	20.53	0.00	21.00
		1	49	20.80	20.92	20.90	0.00	21.50	20.77	20.45	20.48	0.00	21.00
		1	99	20.85	20.91	20.96	0.00	21.50	20.58	20.41	20.47	0.00	21.00
		50	0	20.26	20.21	20.13	0.40	21.10	20.15	20.22	20.05	0.00	21.00
		50	24	20.34	20.30	20.18	0.40	21.10	20.22	20.10	20.13	0.00	21.00
	64QAM	50	50	20.28	20.27	20.16	0.40	21.10	20.17	20.05	20.06	0.00	21.00
		100	0	20.30	20.30	20.19	0.40	21.10	20.20	20.11	20.09	0.00	21.00
		1	0	20.71	20.20	20.24	0.40	21.10	20.90	20.63	20.78	0.00	21.00
		1	49	20.62	20.19	20.23	0.40	21.10	20.88	20.61	20.74	0.00	21.00
		1	99	20.62	20.19	20.18	0.40	21.10	20.89	20.62	20.71	0.00	21.00
		50	0	19.46	19.42	19.37	1.40	20.10	19.51	19.55	19.54	0.90	20.10
	256QAM	50	24	19.51	19.49	19.39	1.40	20.10	19.53	19.58	19.59	0.90	20.10
		50	50	19.46	19.43	19.43	1.40	20.10	19.53	19.57	19.57	0.90	20.10
		100	0	19.46	19.46	19.33	1.40	20.10	19.46	19.60	19.53	0.90	20.10
		1	0	17.50	17.39	17.60	3.40	18.10	17.38	17.52	17.54	2.90	18.10
		1	49	17.39	17.57	17.40	3.40	18.10	17.36	17.51	17.32	2.90	18.10
		1	99	17.41	17.52	17.53	3.40	18.10	17.36	17.51	17.57	2.90	18.10
15 MHz	QPSK	50	0	17.41	17.35	17.58	3.40	18.10	17.33	17.37	17.51	2.90	18.10
		50	24	17.57	17.59	17.39	3.40	18.10	17.54	17.38	17.47	2.90	18.10
		50	50	17.58	17.54	17.44	3.40	18.10	17.46	17.30	17.60	2.90	18.10
		100	0	17.35	17.50	17.31	3.40	18.10	17.56	17.37	17.31	2.90	18.10
	16QAM	1	0	20.89	20.90	20.83	0.00	21.50	20.64	20.65	20.54	0.00	21.00
		1	37	20.85	20.92	20.78	0.00	21.50	20.62	20.66	20.49	0.00	21.00
		1	74	20.82	20.90	20.75	0.00	21.50	20.62	20.63	20.47	0.00	21.00
		36	0	20.83	20.83	20.71	0.00	21.50	20.65	20.65	20.55	0.00	21.00
		36	20	20.92	20.92	20.83	0.00	21.50	20.75	20.75	20.65	0.00	21.00
		36	39	20.90	20.88	20.75	0.00	21.50	20.70	20.68	20.59	0.00	21.00
	64QAM	75	0	20.89	20.85	20.68	0.00	21.50	20.69	20.71	20.51	0.00	21.00
		1	0	20.76	20.98	20.86	0.00	21.50	20.44	20.45	20.10	0.00	21.00
		1	37	20.81	20.87	20.83	0.00	21.50	20.43	20.41	20.09	0.00	21.00
		1	74	20.79	20.91	20.78	0.00	21.50	20.39	20.42	20.05	0.00	21.00
		36	0	20.23	20.20	20.14	0.40	21.10	20.08	20.19	20.11	0.00	21.00
		36	20	20.34	20.30	20.25	0.40	21.10	20.17	20.08	20.22	0.00	21.00
	256QAM	36	39	20.27	20.25	20.18	0.40	21.10	20.12	20.05	20.17	0.00	21.00
		75	0	20.28	20.26	20.24	0.40	21.10	20.11	20.07	20.10	0.00	21.00
		1	0	20.41	20.80	20.53	0.40	21.10	20.85	20.91	20.73	0.00	21.00
		1	37	20.43	20.86	20.53	0.40	21.10	20.86	20.97	20.70	0.00	21.00
		1	74	20.37	20.85	20.49	0.40	21.10	20.87	20.97	20.66	0.00	21.00
		36	0	19.56	19.39	19.36	1.40	20.10	19.59	19.45	19.55	0.90	20.10
	64QAM	36	20	19.58	19.47	19.39	1.40	20.10	19.59	19.55	19.58	0.90	20.10
		36	39	19.55	19.44	19.43	1.40	20.10	19.58	19.49	19.58	0.90	20.10
		75	0	19.50	19.46	19.33	1.40	20.10	19.55	19.55	19.50	0.90	20.10
	256QAM	1	0	17.32	17.48	17.49	3.40	18.10	17.47	17.35	17.43	2.90	18.10
		1	37	17.40	17.37	17.41	3.40	18.10	17.30	17.57	17.59	2.90	18.10
		1	74	17.40	17.45	17.54	3.40	18.10	17.59	17.48	17.57	2.90	18.10
		36	0	17.41	17.43	17.37	3.40	18.10	17.54	17.54	17.31	2.90	18.10
	256QAM	36	20	17.54	17.43	17.41	3.40	18.10	17.37	17.30	17.55	2.90	18.10
		36	39	17.55	17.48	17.35	3.40	18.10	17.48	17.44	17.44	2.90	18.10
		75	0	17.43	17.59	17.36	3.40	18.10	17.37	17.60	17.55	2.90	18.10

LTE Band 66 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132022	132322	132622	MPR	Tune-up Limit	132022	132322	132622	MPR	Tune-up Limit
				1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	20.99	20.85	20.85	0.00	21.50	20.69	20.56	20.53	0.00	21.00
		1	25	20.85	20.86	20.80	0.00	21.50	20.60	20.52	20.46	0.00	21.00
		1	49	20.88	20.81	20.76	0.00	21.50	20.58	20.49	20.49	0.00	21.00
		25	0	20.94	20.85	20.73	0.00	21.50	20.73	20.63	20.59	0.00	21.00
		25	12	20.95	20.94	20.71	0.00	21.50	20.72	20.72	20.56	0.00	21.00
		25	25	20.88	20.88	20.72	0.00	21.50	20.66	20.66	20.56	0.00	21.00
		50	0	20.90	20.91	20.69	0.00	21.50	20.70	20.69	20.52	0.00	21.00
	16QAM	1	0	20.88	20.95	20.84	0.00	21.50	20.50	20.13	20.15	0.00	21.00
		1	25	20.86	20.84	20.83	0.00	21.50	20.42	20.03	20.07	0.00	21.00
		1	49	20.75	20.86	20.80	0.00	21.50	20.39	20.02	20.05	0.00	21.00
		25	0	20.33	20.34	20.21	0.40	21.10	20.17	20.14	20.16	0.00	21.00
		25	12	20.32	20.42	20.16	0.40	21.10	20.14	20.22	20.16	0.00	21.00
		25	25	20.29	20.38	20.18	0.40	21.10	20.10	20.15	20.19	0.00	21.00
		50	0	20.28	20.36	20.15	0.40	21.10	20.14	20.12	20.08	0.00	21.00
	64QAM	1	0	20.37	20.41	20.45	0.40	21.10	20.98	20.75	20.67	0.00	21.00
		1	25	20.34	20.41	20.48	0.40	21.10	20.94	20.81	20.73	0.00	21.00
		1	49	20.30	20.37	20.44	0.40	21.10	20.91	20.75	20.64	0.00	21.00
		25	0	19.54	19.44	19.36	1.40	20.10	19.57	19.54	19.57	0.90	20.10
		25	12	19.56	19.52	19.36	1.40	20.10	19.58	19.58	19.56	0.90	20.10
		25	25	19.51	19.49	19.43	1.40	20.10	19.53	19.59	19.60	0.90	20.10
		50	0	19.49	19.43	19.32	1.40	20.10	19.53	19.54	19.48	0.90	20.10
	256QAM	1	0	17.38	17.37	17.35	3.40	18.10	17.56	17.35	17.39	2.90	18.10
		1	25	17.46	17.55	17.40	3.40	18.10	17.46	17.49	17.43	2.90	18.10
		1	49	17.57	17.33	17.36	3.40	18.10	17.46	17.48	17.50	2.90	18.10
		25	0	17.52	17.50	17.55	3.40	18.10	17.34	17.57	17.55	2.90	18.10
		25	12	17.31	17.58	17.59	3.40	18.10	17.35	17.42	17.33	2.90	18.10
		25	25	17.58	17.50	17.38	3.40	18.10	17.59	17.36	17.34	2.90	18.10
		50	0	17.49	17.34	17.40	3.40	18.10	17.36	17.46	17.58	2.90	18.10
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131997	132322	132647	MPR	Tune-up Limit	131997	132322	132647	MPR	Tune-up Limit
				1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	20.93	20.83	20.67	0.00	21.50	20.71	20.73	20.73	0.00	21.00
		1	12	20.87	20.87	20.71	0.00	21.50	20.74	20.71	20.65	0.00	21.00
		1	24	20.89	20.83	20.62	0.00	21.50	20.62	20.72	20.66	0.00	21.00
		12	0	20.79	20.83	20.65	0.00	21.50	20.10	20.09	20.15	0.00	21.00
		12	7	20.81	20.84	20.70	0.00	21.50	20.13	20.16	20.15	0.00	21.00
		12	13	20.77	20.80	20.63	0.00	21.50	20.06	20.06	20.14	0.00	21.00
		25	0	20.84	20.80	20.68	0.00	21.50	20.09	20.12	20.01	0.00	21.00
	16QAM	1	0	20.99	20.87	20.89	0.00	21.50	20.58	20.14	20.18	0.00	21.00
		1	12	20.92	20.84	20.89	0.00	21.50	20.54	20.16	20.11	0.00	21.00
		1	24	20.94	20.89	20.86	0.00	21.50	20.52	20.15	20.12	0.00	21.00
		12	0	20.30	20.28	20.20	0.40	21.10	20.22	20.18	20.08	0.00	21.00
		12	7	20.31	20.30	20.25	0.40	21.10	20.24	20.19	20.11	0.00	21.00
		12	13	20.24	20.27	20.21	0.40	21.10	20.21	20.16	20.07	0.00	21.00
		25	0	20.21	20.16	20.13	0.40	21.10	20.13	20.04	20.09	0.00	21.00
	64QAM	1	0	20.66	20.50	20.21	0.40	21.10	20.64	20.81	20.97	0.00	21.00
		1	12	20.63	20.61	20.24	0.40	21.10	20.61	20.87	20.94	0.00	21.00
		1	24	20.63	20.59	20.15	0.40	21.10	20.60	20.85	20.91	0.00	21.00
		12	0	19.31	19.41	19.34	1.40	20.10	19.54	19.57	19.50	0.90	20.10
		12	7	19.32	19.40	19.38	1.40	20.10	19.59	19.57	19.50	0.90	20.10
		12	13	19.34	19.38	19.34	1.40	20.10	19.53	19.56	19.48	0.90	20.10
		25	0	19.36	19.36	19.24	1.40	20.10	19.57	19.55	19.51	0.90	20.10
	256QAM	1	0	17.43	17.59	17.34	3.40	18.10	17.51	17.58	17.52	2.90	18.10
		1	12	17.50	17.51	17.47	3.40	18.10	17.44	17.48	17.34	2.90	18.10
		1	24	17.50	17.59	17.44	3.40	18.10	17.56	17.41	17.33	2.90	18.10
		12	0	17.59	17.47	17.55	3.40	18.10	17.37	17.36	17.55	2.90	18.10
		12	7	17.31	17.36	17.31	3.40	18.10	17.34	17.52	17.53	2.90	18.10
		12	13	17.51	17.38	17.40	3.40	18.10	17.55	17.39	17.45	2.90	18.10
		25	0	17.55	17.53	17.34	3.40	18.10	17.58	17.45	17.35	2.90	18.10

LTE Band 66 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131987	132322	132657	MPR	Tune-up Limit	131987	132322	132657	MPR	Tune-up Limit
				1711.5 MHz	1745 MHz	1778.5 MHz			1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	20.91	20.86	20.84	0.00	21.50	20.71	20.66	20.69	0.00	21.00
		1	8	20.84	20.84	20.83	0.00	21.50	20.67	20.67	20.63	0.00	21.00
		1	14	20.87	20.86	20.77	0.00	21.50	20.70	20.75	20.65	0.00	21.00
		8	0	20.88	20.85	20.75	0.00	21.50	20.08	20.05	20.99	0.00	21.00
		8	4	20.90	20.89	20.75	0.00	21.50	20.09	20.11	20.95	0.00	21.00
		8	7	20.91	20.91	20.80	0.00	21.50	20.08	20.11	20.96	0.00	21.00
	16QAM	15	0	20.87	20.85	20.77	0.00	21.50	20.09	20.09	20.98	0.00	21.00
		1	0	20.85	20.84	20.94	0.00	21.50	20.15	20.14	20.35	0.00	21.00
		1	8	20.78	20.84	20.85	0.00	21.50	20.02	20.13	20.28	0.00	21.00
		1	14	20.77	20.87	20.92	0.00	21.50	20.05	20.15	20.30	0.00	21.00
		8	0	20.28	20.20	20.12	0.40	21.10	20.12	20.17	20.07	0.00	21.00
		8	4	20.32	20.24	20.16	0.40	21.10	20.14	20.19	20.07	0.00	21.00
	64QAM	8	7	20.32	20.24	20.17	0.40	21.10	20.15	20.20	20.11	0.00	21.00
		15	0	20.22	20.14	20.10	0.40	21.10	20.03	20.09	20.01	0.00	21.00
		1	0	20.40	20.39	20.21	0.40	21.10	20.97	20.77	20.76	0.00	21.00
		1	8	20.37	20.38	20.17	0.40	21.10	20.95	20.74	20.74	0.00	21.00
		1	14	20.33	20.39	20.19	0.40	21.10	20.92	20.81	20.74	0.00	21.00
		8	0	19.31	19.40	19.35	1.40	20.10	19.58	19.50	19.55	0.90	20.10
1.4 MHz	QPSK	8	4	19.35	19.42	19.35	1.40	20.10	19.60	19.52	19.59	0.90	20.10
		8	7	19.32	19.44	19.33	1.40	20.10	19.58	19.54	19.58	0.90	20.10
		15	0	19.41	19.33	19.36	1.40	20.10	19.56	19.58	19.58	0.90	20.10
	16QAM	1	0	17.34	17.33	17.39	3.40	18.10	17.56	17.50	17.32	2.90	18.10
		1	8	17.39	17.59	17.44	3.40	18.10	17.60	17.45	17.41	2.90	18.10
		1	14	17.38	17.48	17.37	3.40	18.10	17.55	17.56	17.34	2.90	18.10
	64QAM	8	0	17.44	17.44	17.44	3.40	18.10	17.32	17.42	17.41	2.90	18.10
		8	4	17.39	17.37	17.50	3.40	18.10	17.38	17.47	17.31	2.90	18.10
		8	7	17.30	17.55	17.38	3.40	18.10	17.34	17.51	17.36	2.90	18.10
	256QAM	15	0	17.38	17.52	17.39	3.40	18.10	17.51	17.50	17.39	2.90	18.10
	QPSK	1	0	20.97	20.97	20.79	0.00	21.50	20.69	20.68	20.49	0.00	21.00
		1	3	20.99	20.92	20.82	0.00	21.50	20.74	20.73	20.58	0.00	21.00
		1	5	20.92	20.97	20.75	0.00	21.50	20.70	20.67	20.50	0.00	21.00
		3	0	20.95	20.90	20.76	0.00	21.50	20.65	20.70	20.51	0.00	21.00
		3	1	20.99	20.96	20.82	0.00	21.50	20.70	20.72	20.56	0.00	21.00
1.4 MHz	16QAM	3	3	20.99	20.95	20.82	0.00	21.50	20.69	20.72	20.55	0.00	21.00
		6	0	20.71	20.68	20.58	0.00	21.50	20.73	20.73	20.61	0.00	21.00
		1	0	20.81	20.80	20.61	0.00	21.50	20.10	20.32	20.29	0.00	21.00
		1	3	20.84	20.88	20.70	0.00	21.50	20.16	20.39	20.38	0.00	21.00
		1	5	20.79	20.82	20.63	0.00	21.50	20.07	20.31	20.33	0.00	21.00
		3	0	20.72	20.75	20.79	0.00	21.50	20.04	20.18	20.04	0.00	21.00
	64QAM	3	1	20.75	20.78	20.80	0.00	21.50	20.08	20.21	20.11	0.00	21.00
		3	3	20.74	20.77	20.83	0.00	21.50	20.07	20.21	20.10	0.00	21.00
		6	0	20.10	20.13	20.10	0.40	21.10	20.13	20.11	20.08	0.00	21.00
		1	0	20.40	20.17	20.16	0.40	21.10	20.77	20.92	20.72	0.00	21.00
		1	3	20.51	20.23	20.26	0.40	21.10	20.84	20.94	20.79	0.00	21.00
		1	5	20.43	20.14	20.19	0.40	21.10	20.79	20.92	20.65	0.00	21.00
1.4 MHz	256QAM	3	0	20.22	20.27	20.21	0.40	21.10	20.41	20.76	20.64	0.00	21.00
		3	1	20.27	20.33	20.24	0.40	21.10	20.46	20.78	20.68	0.00	21.00
		3	3	20.27	20.31	20.24	0.40	21.10	20.47	20.80	20.66	0.00	21.00
		6	0	19.18	19.45	19.20	1.40	20.10	19.42	19.35	19.40	0.90	20.10
		1	0	17.59	17.34	17.36	3.40	18.10	17.55	17.36	17.54	2.90	18.10
		1	3	17.59	17.46	17.41	3.40	18.10	17.39	17.55	17.45	2.90	18.10
	QPSK	1	5	17.40	17.41	17.32	3.40	18.10	17.41	17.53	17.33	2.90	18.10
		3	0	17.33	17.38	17.34	3.40	18.10	17.52	17.30	17.49	2.90	18.10
		3	1	17.54	17.42	17.49	3.40	18.10	17.53	17.56	17.32	2.90	18.10
		3	3	17.49	17.46	17.59	3.40	18.10	17.49	17.51	17.55	2.90	18.10
		6	0	17.46	17.36	17.49	3.40	18.10	17.40	17.55	17.58	2.90	18.10

LTE Band 66 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Tune-up Limit	132072	132322	132572	MPR	Tune-up Limit
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	24.01	24.01	23.89	0.00	24.70	20.85	20.86	20.79	0.00	21.25
		1	49	24.20	24.20	24.20	0.00	24.70	20.90	20.90	20.90	0.00	21.25
		1	99	23.95	23.93	23.83	0.00	24.70	20.77	20.81	20.73	0.00	21.25
		50	0	22.73	22.73	22.80	1.00	23.70	20.29	20.32	20.26	0.00	21.25
		50	24	23.20	23.20	23.20	1.00	23.70	20.90	20.90	20.90	0.00	21.25
		50	50	22.75	22.75	22.87	1.00	23.70	20.32	20.33	20.29	0.00	21.25
	16QAM	100	0	22.77	23.20	22.77	1.00	23.70	20.66	20.90	20.56	0.00	21.25
		1	0	22.95	22.87	22.85	1.00	23.70	20.46	20.44	20.36	0.00	21.25
		1	49	22.82	22.82	22.93	1.00	23.70	20.37	20.39	20.37	0.00	21.25
		1	99	22.80	22.80	22.79	1.00	23.70	20.33	20.39	20.29	0.00	21.25
		50	0	21.94	21.89	21.85	2.00	22.70	20.72	20.71	20.69	0.00	21.25
		50	24	22.01	21.97	21.86	2.00	22.70	20.80	20.82	20.70	0.00	21.25
	64QAM	50	50	21.97	21.94	21.87	2.00	22.70	20.74	20.78	20.72	0.00	21.25
		100	0	21.98	21.97	21.83	2.00	22.70	20.70	20.71	20.57	0.00	21.25
		1	0	22.42	22.00	22.06	2.00	22.70	20.87	20.87	20.85	0.00	21.25
		1	49	22.36	22.01	22.09	2.00	22.70	20.86	20.86	20.85	0.00	21.25
		1	99	22.41	22.02	22.06	2.00	22.70	20.86	20.87	20.81	0.00	21.25
		50	0	20.85	20.82	20.83	3.00	21.70	20.81	20.81	20.76	0.00	21.25
	256QAM	50	24	20.90	20.91	20.85	3.00	21.70	20.87	20.87	20.77	0.00	21.25
		50	50	20.85	20.87	20.87	3.00	21.70	20.83	20.84	20.81	0.00	21.25
		100	0	20.85	20.87	20.76	3.00	21.70	20.84	20.87	20.76	0.00	21.25
		1	0	18.90	18.82	18.94	5.00	19.70	19.09	18.86	18.96	1.55	19.70
		1	49	18.99	18.82	18.84	5.00	19.70	18.92	19.03	18.98	1.55	19.70
		1	99	18.86	18.95	19.02	5.00	19.70	18.89	18.94	18.97	1.55	19.70
15 MHz	QPSK	50	0	19.00	18.96	18.87	5.00	19.70	18.96	19.03	18.88	1.55	19.70
		50	24	18.87	18.83	19.06	5.00	19.70	18.81	18.89	18.89	1.55	19.70
		50	50	18.88	18.94	18.93	5.00	19.70	18.83	18.97	18.87	1.55	19.70
		100	0	19.02	18.91	18.90	5.00	19.70	18.96	19.03	19.09	1.55	19.70
	16QAM	1	0	23.95	23.93	23.87	0.00	24.70	20.83	20.84	20.86	0.00	21.25
		1	37	23.92	23.95	23.88	0.00	24.70	20.83	20.85	20.81	0.00	21.25
		1	74	23.94	23.94	23.82	0.00	24.70	20.79	20.83	20.79	0.00	21.25
		36	0	22.79	22.70	23.58	1.00	23.70	20.34	20.29	20.28	0.00	21.25
		36	20	22.80	22.76	23.63	1.00	23.70	20.35	20.39	20.29	0.00	21.25
		36	39	22.75	22.75	23.65	1.00	23.70	20.32	20.34	20.33	0.00	21.25
		75	0	22.73	22.71	23.63	1.00	23.70	20.87	20.89	20.76	0.00	21.25
	64QAM	1	0	22.83	22.86	23.36	1.00	23.70	20.74	20.71	20.75	0.00	21.25
		1	37	22.81	22.82	23.31	1.00	23.70	20.68	20.67	20.71	0.00	21.25
		1	74	22.77	22.79	23.25	1.00	23.70	20.71	20.69	20.67	0.00	21.25
		36	0	21.83	21.70	22.57	2.00	22.70	20.81	20.72	20.69	0.00	21.25
		36	20	21.85	21.74	22.60	2.00	22.70	20.79	20.83	20.71	0.00	21.25
		36	39	21.79	21.72	22.65	2.00	22.70	20.76	20.78	20.75	0.00	21.25
		75	0	21.77	21.71	22.60	2.00	22.70	20.68	20.70	20.58	0.00	21.25
	256QAM	1	0	21.86	22.36	22.01	2.00	22.70	20.88	20.75	20.86	0.00	21.25
		1	37	21.90	22.45	22.00	2.00	22.70	20.88	20.83	20.86	0.00	21.25
		1	74	21.84	22.37	21.98	2.00	22.70	20.88	20.83	20.84	0.00	21.25
		36	0	20.96	20.78	20.78	3.00	21.70	20.86	20.77	20.74	0.00	21.25
		36	20	20.97	20.90	20.82	3.00	21.70	20.86	20.87	20.76	0.00	21.25
		36	39	20.94	20.86	20.86	3.00	21.70	20.83	20.83	20.81	0.00	21.25
		75	0	20.87	20.89	20.74	3.00	21.70	20.87	20.88	20.77	0.00	21.25
	256QAM	1	0	18.82	19.00	19.04	5.00	19.70	19.05	18.83	18.98	1.55	19.70
		1	37	18.85	18.93	18.91	5.00	19.70	19.04	18.81	18.93	1.55	19.70
		1	74	19.04	19.00	18.99	5.00	19.70	18.84	18.85	18.83	1.55	19.70
		36	0	18.92	18.91	18.83	5.00	19.70	19.02	19.08	18.99	1.55	19.70
		36	20	18.92	18.81	18.85	5.00	19.70	19.02	19.02	18.82	1.55	19.70
		36	39	18.89	19.08	18.87	5.00	19.70	18.87	19.07	19.07	1.55	19.70
		75	0	18.84	19.08	19.09	5.00	19.70	18.91	19.10	18.91	1.55	19.70

LTE Band 66 Measured Results (ANT3) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132022.00	132322.00	132622.00	MPR	Tune-up Limit	132022.00	132322.00	132622.00	MPR	Tune-up Limit
				1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	24.00	23.87	23.85	0.00	24.70	20.76	20.77	20.75	0.00	21.25
		1	25	23.90	23.86	23.84	0.00	24.70	20.74	20.77	20.74	0.00	21.25
		1	49	23.91	23.80	23.80	0.00	24.70	20.70	20.73	20.68	0.00	21.25
		25	0	22.76	22.76	23.58	1.00	23.70	20.36	20.30	20.26	0.00	21.25
		25	12	22.75	22.75	23.61	1.00	23.70	20.36	20.39	20.28	0.00	21.25
		25	25	22.80	22.79	23.62	1.00	23.70	20.34	20.35	20.31	0.00	21.25
	16QAM	50	0	22.73	22.72	23.57	1.00	23.70	20.64	20.66	20.57	0.00	21.25
		1	0	22.85	23.00	23.40	1.00	23.70	20.70	20.65	20.62	0.00	21.25
		1	25	22.77	23.00	23.36	1.00	23.70	20.59	20.60	20.56	0.00	21.25
		1	49	22.74	23.00	23.22	1.00	23.70	20.57	20.59	20.56	0.00	21.25
		25	0	21.83	21.73	22.60	2.00	22.70	20.64	20.59	20.53	0.00	21.25
		25	12	21.78	21.82	22.63	2.00	22.70	20.66	20.66	20.53	0.00	21.25
	64QAM	25	25	21.70	21.78	22.64	2.00	22.70	20.61	20.63	20.60	0.00	21.25
		50	0	21.76	21.75	22.54	2.00	22.70	20.46	20.49	20.36	0.00	21.25
		1	0	21.97	21.94	22.06	2.00	22.70	20.61	20.63	20.63	0.00	21.25
		1	25	21.93	22.02	22.09	2.00	22.70	20.60	20.63	20.64	0.00	21.25
		1	49	21.90	21.95	22.05	2.00	22.70	20.58	20.61	20.63	0.00	21.25
		25	0	20.95	20.85	20.78	3.00	21.70	20.65	20.58	20.51	0.00	21.25
	256QAM	25	12	20.98	20.93	20.81	3.00	21.70	20.65	20.63	20.55	0.00	21.25
		25	25	20.94	20.92	20.86	3.00	21.70	20.63	20.61	20.59	0.00	21.25
		50	0	20.92	20.86	20.72	3.00	21.70	20.56	20.60	20.48	0.00	21.25
		1	0	18.96	18.85	18.86	5.00	19.70	18.93	19.09	18.81	1.55	19.70
		1	25	18.87	18.93	18.81	5.00	19.70	18.81	19.05	19.04	1.55	19.70
		1	49	18.95	18.97	18.98	5.00	19.70	18.88	18.83	18.84	1.55	19.70
5 MHz	QPSK	25	0	18.82	18.82	19.06	5.00	19.70	19.00	18.88	19.10	1.55	19.70
		25	12	18.93	18.85	18.93	5.00	19.70	18.80	19.05	18.92	1.55	19.70
		25	25	19.00	18.87	18.98	5.00	19.70	18.86	18.83	18.99	1.55	19.70
		50	0	19.04	19.02	19.04	5.00	19.70	19.02	18.89	18.95	1.55	19.70
	16QAM	1	0	23.83	23.83	23.87	0.00	24.70	20.84	20.82	20.85	0.00	21.25
		1	12	23.82	23.85	23.84	0.00	24.70	20.80	20.88	20.84	0.00	21.25
		1	24	23.79	23.87	23.82	0.00	24.70	20.82	20.84	20.83	0.00	21.25
		12	0	22.70	22.72	22.73	1.00	23.70	20.36	20.36	20.37	0.00	21.25
		12	7	22.75	22.72	22.74	1.00	23.70	20.39	20.37	20.35	0.00	21.25
		12	13	22.73	22.74	22.72	1.00	23.70	20.36	20.36	20.36	0.00	21.25
	64QAM	25	0	22.74	22.78	22.75	1.00	23.70	20.90	20.90	20.86	0.00	21.25
		1	0	22.98	22.78	22.82	1.00	23.70	20.75	20.71	20.74	0.00	21.25
		1	12	22.96	22.81	22.81	1.00	23.70	20.67	20.67	20.72	0.00	21.25
		1	24	22.90	22.80	22.75	1.00	23.70	20.74	20.72	20.74	0.00	21.25
		12	0	21.86	21.78	21.70	2.00	22.70	20.88	20.86	20.83	0.00	21.25
		12	7	21.89	21.77	21.72	2.00	22.70	20.90	20.86	20.83	0.00	21.25
	256QAM	12	13	21.84	21.77	21.71	2.00	22.70	20.86	20.85	20.79	0.00	21.25
		25	0	21.78	21.74	21.76	2.00	22.70	20.68	20.65	20.60	0.00	21.25
		1	0	22.17	22.03	21.72	2.00	22.70	20.90	20.89	20.89	0.00	21.25
		1	12	22.15	22.10	21.72	2.00	22.70	20.84	20.85	20.88	0.00	21.25
		1	24	22.13	22.07	21.71	2.00	22.70	20.89	20.84	20.86	0.00	21.25
		12	0	20.83	20.93	20.85	3.00	21.70	20.87	20.86	20.86	0.00	21.25
5 MHz	64QAM	12	7	20.88	20.90	20.87	3.00	21.70	20.86	20.89	20.88	0.00	21.25
		12	13	20.80	20.93	20.82	3.00	21.70	20.84	20.88	20.87	0.00	21.25
		25	0	20.82	20.84	20.75	3.00	21.70	20.84	20.83	20.80	0.00	21.25
	256QAM	1	0	18.82	19.07	19.09	5.00	19.70	19.04	18.99	18.96	1.55	19.70
		1	12	19.06	18.91	18.82	5.00	19.70	18.91	18.92	19.08	1.55	19.70
		1	24	19.00	18.90	19.03	5.00	19.70	18.94	18.83	18.86	1.55	19.70
	16QAM	12	0	18.93	18.93	18.96	5.00	19.70	19.08	19.06	18.85	1.55	19.70
		12	7	18.97	19.03	19.08	5.00	19.70	18.87	18.85	18.97	1.55	19.70
		12	13	18.88	19.00	18.87	5.00	19.70	19.03	18.96	18.90	1.55	19.70
		25	0	19.03	18.80	18.85	5.00	19.70	18.94	18.91	18.97	1.55	19.70

LTE Band 66 Measured Results (ANT3) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131987.00	132322.00	132657.00	MPR	Tune-up Limit	131987.00	132322.00	132657.00	MPR	Tune-up Limit
				1711.5 MHz	1745 MHz	1778.5 MHz			1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	23.82	23.75	23.77	0.00	24.70	20.80	20.76	20.81	0.00	21.25
		1	8	23.76	23.75	23.75	0.00	24.70	20.74	20.75	20.73	0.00	21.25
		1	14	23.77	23.79	23.76	0.00	24.70	20.79	20.79	20.78	0.00	21.25
		8	0	23.05	23.02	22.94	1.00	23.70	20.32	20.35	20.31	0.00	21.25
		8	4	23.07	23.04	22.97	1.00	23.70	20.37	20.36	20.33	0.00	21.25
		8	7	23.09	23.08	22.98	1.00	23.70	20.34	20.35	20.34	0.00	21.25
	16QAM	15	0	23.04	23.04	22.95	1.00	23.70	20.90	20.94	20.85	0.00	21.25
		1	0	23.14	22.96	23.33	1.00	23.70	20.42	20.58	20.69	0.00	21.25
		1	8	23.06	22.95	23.31	1.00	23.70	20.31	20.54	20.60	0.00	21.25
		1	14	23.05	22.95	23.32	1.00	23.70	20.33	20.67	20.62	0.00	21.25
		8	0	22.39	22.44	22.33	2.00	22.70	20.36	20.83	20.79	0.00	21.25
		8	4	22.44	22.48	22.36	2.00	22.70	20.36	20.83	20.83	0.00	21.25
	64QAM	8	7	22.40	22.51	22.37	2.00	22.70	20.38	20.87	20.83	0.00	21.25
		15	0	22.34	22.38	22.28	2.00	22.70	20.27	20.62	20.63	0.00	21.25
		1	0	21.95	22.02	22.11	2.00	22.70	20.45	20.88	20.85	0.00	21.25
		1	8	21.94	21.97	22.08	2.00	22.70	20.88	20.83	20.80	0.00	21.25
		1	14	21.97	22.01	22.07	2.00	22.70	20.85	20.89	20.86	0.00	21.25
		8	0	20.89	20.81	20.86	3.00	21.70	20.75	20.78	20.77	0.00	21.25
	256QAM	8	4	20.95	20.85	20.89	3.00	21.70	20.82	20.78	20.78	0.00	21.25
		8	7	20.89	20.83	20.88	3.00	21.70	20.78	20.79	20.78	0.00	21.25
		15	0	20.90	20.85	20.78	3.00	21.70	20.82	20.84	20.81	0.00	21.25
		1	0	18.85	18.87	19.02	5.00	19.70	19.05	19.09	19.00	1.55	19.70
		1	8	18.99	18.96	19.01	5.00	19.70	19.09	19.02	18.92	1.55	19.70
		1	14	19.10	18.87	18.86	5.00	19.70	18.97	18.81	19.00	1.55	19.70
1.4 MHz	QPSK	8	0	19.03	19.08	18.88	5.00	19.70	18.98	18.94	18.86	1.55	19.70
		8	4	19.10	18.93	18.84	5.00	19.70	18.84	18.93	18.92	1.55	19.70
		8	7	18.85	18.99	19.00	5.00	19.70	19.08	18.80	18.89	1.55	19.70
		15	0	18.96	18.92	19.10	5.00	19.70	18.96	19.08	19.01	1.55	19.70
	16QAM	1	0	23.83	23.80	23.81	0.00	24.70	20.82	20.72	20.66	0.00	21.25
		1	3	23.87	23.88	23.87	0.00	24.70	20.82	20.76	20.75	0.00	21.25
		1	5	23.83	23.83	23.78	0.00	24.70	20.80	20.70	20.69	0.00	21.25
		3	0	23.88	23.80	23.73	0.00	24.70	20.73	20.71	20.66	0.00	21.25
		3	1	23.91	23.87	23.79	0.00	24.70	20.77	20.79	20.69	0.00	21.25
		3	3	23.90	23.85	23.79	0.00	24.70	20.78	20.78	20.71	0.00	21.25
	64QAM	6	0	22.94	22.91	22.85	1.00	23.70	20.25	20.25	20.79	0.00	21.25
		1	0	23.01	22.90	22.92	1.00	23.70	20.37	20.52	20.25	0.00	21.25
		1	3	23.06	23.05	23.00	1.00	23.70	20.37	20.32	20.34	0.00	21.25
		1	5	23.00	22.98	22.95	1.00	23.70	20.38	20.54	20.28	0.00	21.25
		3	0	23.11	23.09	22.89	1.00	23.70	20.30	20.40	20.38	0.00	21.25
		3	1	23.15	23.15	22.95	1.00	23.70	20.36	20.36	20.41	0.00	21.25
	256QAM	3	3	23.14	23.14	22.92	1.00	23.70	20.37	20.39	20.43	0.00	21.25
		6	0	21.87	22.11	22.01	2.00	22.70	20.80	20.79	20.72	0.00	21.25
		1	0	22.18	21.87	21.92	2.00	22.70	20.77	20.75	20.71	0.00	21.25
		1	3	22.26	21.96	21.97	2.00	22.70	20.85	20.82	20.83	0.00	21.25
		1	5	22.16	21.85	21.91	2.00	22.70	20.75	20.73	20.70	0.00	21.25
		3	0	22.11	21.89	21.70	2.00	22.70	20.81	20.76	20.74	0.00	21.25
	QPSK	3	1	22.15	21.95	21.72	2.00	22.70	20.86	20.82	20.77	0.00	21.25
		3	3	22.17	21.93	21.74	2.00	22.70	20.84	20.82	20.77	0.00	21.25
		6	0	20.74	21.03	20.77	3.00	21.70	20.87	20.83	20.79	0.00	21.25
	16QAM	1	0	18.97	18.82	18.84	5.00	19.70	19.05	18.97	18.91	1.55	19.70
		1	3	19.05	19.05	19.08	5.00	19.70	18.99	18.95	18.98	1.55	19.70
		1	5	18.87	19.09	18.88	5.00	19.70	18.96	18.90	18.95	1.55	19.70
	64QAM	3	0	18.95	19.01	18.80	5.00	19.70	18.81	18.92	19.07	1.55	19.70
		3	1	19.03	19.09	18.86	5.00	19.70	18.94	18.84	19.04	1.55	19.70
		3	3	18.89	18.80	19.00	5.00	19.70	18.90	19.05	18.95	1.55	19.70
		6	0	18.97	18.99	18.83	5.00	19.70	18.99	18.86	18.97	1.55	19.70

LTE Band 66 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Tune-up Limit	132072	132322	132572	MPR	Tune-up Limit
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	20.49	20.38	20.28	0.00	21.00	20.89	20.74	20.59	0.00	21.50
		1	49	20.75	20.75	20.75	0.00	21.00	21.00	21.00	21.00	0.00	21.50
		1	99	20.34	20.28	20.24	0.00	21.00	20.75	20.68	20.55	0.00	21.50
		50	0	20.09	20.89	20.90	0.00	21.00	20.88	20.74	20.66	0.00	21.50
		50	24	20.75	20.75	20.75	0.00	21.00	21.00	21.00	21.00	0.00	21.50
		50	50	20.01	20.90	20.92	0.00	21.00	20.88	20.76	20.66	0.00	21.50
	16QAM	100	0	20.06	20.75	20.96	0.00	21.00	20.92	21.00	20.71	0.00	21.50
		1	0	20.49	20.35	20.29	0.00	21.00	20.92	20.95	20.82	0.00	21.50
		1	49	20.41	20.29	20.29	0.00	21.00	20.81	20.90	20.82	0.00	21.50
		1	99	20.35	20.22	20.21	0.00	21.00	20.96	20.89	20.74	0.00	21.50
		50	0	19.99	19.87	19.87	0.30	20.70	19.85	19.71	19.70	0.80	20.70
		50	24	20.06	19.92	19.96	0.30	20.70	19.91	19.79	19.72	0.80	20.70
	64QAM	50	50	19.98	19.90	19.90	0.30	20.70	19.86	19.73	19.71	0.80	20.70
		100	0	20.06	19.97	19.96	0.30	20.70	19.91	19.79	19.75	0.80	20.70
		1	0	20.27	20.14	20.07	0.30	20.70	20.09	19.95	19.80	0.80	20.70
		1	49	20.20	20.08	20.08	0.30	20.70	20.02	19.90	19.87	0.80	20.70
		1	99	20.17	20.06	20.07	0.30	20.70	20.00	19.91	19.82	0.80	20.70
		50	0	19.09	18.98	18.94	1.30	19.70	18.90	18.75	18.71	1.80	19.70
	256QAM	50	24	19.12	19.06	19.04	1.30	19.70	18.95	18.85	18.78	1.80	19.70
		50	50	19.06	18.95	18.97	1.30	19.70	18.88	18.80	18.75	1.80	19.70
		100	0	19.07	19.00	19.00	1.30	19.70	18.90	18.80	18.76	1.80	19.70
		1	0	17.02	17.04	17.09	3.30	17.70	16.92	16.87	16.92	3.80	17.70
		1	49	17.00	16.87	16.92	3.30	17.70	16.86	17.06	16.86	3.80	17.70
		1	99	16.91	17.05	17.04	3.30	17.70	16.93	17.01	16.90	3.80	17.70
15 MHz	QPSK	50	0	16.85	16.84	16.88	3.30	17.70	16.97	16.95	16.81	3.80	17.70
		50	24	17.05	16.93	17.01	3.30	17.70	17.08	17.04	16.97	3.80	17.70
		50	50	17.04	16.93	16.82	3.30	17.70	16.96	16.82	16.81	3.80	17.70
		100	0	17.00	17.09	16.85	3.30	17.70	17.00	16.90	17.06	3.80	17.70
	16QAM	1	0	20.48	20.35	20.36	0.00	21.00	20.85	20.68	20.62	0.00	21.50
		1	37	20.45	20.34	20.31	0.00	21.00	20.80	20.67	20.60	0.00	21.50
		1	74	20.40	20.29	20.26	0.00	21.00	20.78	20.65	20.59	0.00	21.50
		36	0	20.09	20.63	20.63	0.00	21.00	20.94	20.70	20.64	0.00	21.50
		36	20	20.10	20.71	20.66	0.00	21.00	20.95	20.80	20.68	0.00	21.50
		36	39	20.04	20.67	20.72	0.00	21.00	20.91	20.73	20.70	0.00	21.50
	64QAM	75	0	20.01	20.66	20.63	0.00	21.00	20.88	20.73	20.60	0.00	21.50
		1	0	20.34	20.33	20.36	0.00	21.00	20.76	20.93	20.86	0.00	21.50
		1	37	20.34	20.30	20.37	0.00	21.00	20.72	20.87	20.89	0.00	21.50
		1	74	20.33	20.26	20.25	0.00	21.00	20.73	20.82	20.85	0.00	21.50
		36	0	20.06	19.87	19.86	0.30	20.70	20.19	19.92	19.88	0.80	20.70
		36	20	20.07	19.95	19.89	0.30	20.70	20.18	20.02	19.91	0.80	20.70
	256QAM	36	39	20.02	19.92	19.94	0.30	20.70	20.13	19.97	19.97	0.80	20.70
		75	0	20.05	19.92	19.88	0.30	20.70	20.15	19.98	19.90	0.80	20.70
		1	0	20.52	20.39	20.43	0.30	20.70	20.60	20.45	20.41	0.80	20.70
		1	37	20.57	20.46	20.50	0.30	20.70	20.64	20.49	20.48	0.80	20.70
		1	74	20.53	20.43	20.44	0.30	20.70	20.60	20.49	20.45	0.80	20.70
		36	0	19.11	18.89	18.92	1.30	19.70	19.19	18.96	18.92	1.80	19.70
	64QAM	36	20	19.12	18.96	18.93	1.30	19.70	19.20	19.06	18.96	1.80	19.70
		36	39	19.07	18.95	18.98	1.30	19.70	19.13	19.01	19.00	1.80	19.70
		75	0	19.10	18.99	18.94	1.30	19.70	19.20	19.05	18.94	1.80	19.70
	256QAM	1	0	17.07	16.99	16.81	3.30	17.70	16.94	16.97	16.91	3.80	17.70
		1	37	17.02	16.94	17.05	3.30	17.70	16.99	16.90	16.94	3.80	17.70
		1	74	16.80	16.98	17.00	3.30	17.70	16.94	17.02	16.87	3.80	17.70
	256QAM	36	0	16.95	17.07	17.07	3.30	17.70	16.85	16.87	16.84	3.80	17.70
		36	20	16.99	16.91	16.84	3.30	17.70	16.82	17.10	16.90	3.80	17.70
		36	39	16.87	16.92	16.92	3.30	17.70	17.03	16.90	16.83	3.80	17.70
		75	0	17.05	17.01	16.85	3.30	17.70	16.96	16.96	16.97	3.80	17.70

LTE Band 66 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132022	132322	132622	MPR	Tune-up Limit	132022	132322	132622	MPR	Tune-up Limit
				1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	20.48	20.54	20.52	0.00	21.00	20.66	20.52	20.54	0.00	21.50
		1	25	20.33	20.44	20.52	0.00	21.00	20.60	20.54	20.50	0.00	21.50
		1	49	20.33	20.46	20.43	0.00	21.00	20.57	20.51	20.50	0.00	21.50
		25	0	20.10	20.42	20.35	0.00	21.00	20.86	20.68	20.63	0.00	21.50
		25	12	20.12	20.48	20.41	0.00	21.00	20.86	20.75	20.64	0.00	21.50
		25	25	20.05	20.43	20.44	0.00	21.00	20.81	20.71	20.67	0.00	21.50
		50	0	20.07	20.46	20.38	0.00	21.00	20.85	20.74	20.61	0.00	21.50
	16QAM	1	0	20.12	20.45	20.47	0.00	21.00	20.90	20.78	20.69	0.00	21.50
		1	25	20.18	20.34	20.36	0.00	21.00	20.77	20.68	20.61	0.00	21.50
		1	49	20.02	20.39	20.38	0.00	21.00	20.76	20.67	20.62	0.00	21.50
		25	0	20.20	20.01	19.98	0.30	20.70	20.22	20.04	19.96	0.80	20.70
		25	12	20.21	20.08	20.00	0.30	20.70	20.23	20.13	19.99	0.80	20.70
		25	25	20.16	20.05	20.04	0.30	20.70	20.18	20.09	20.03	0.80	20.70
		50	0	20.13	20.02	19.92	0.30	20.70	20.14	20.05	19.90	0.80	20.70
	64QAM	1	0	20.29	20.08	20.11	0.30	20.70	20.28	20.07	20.06	0.80	20.70
		1	25	20.25	20.13	20.06	0.30	20.70	20.24	20.15	20.08	0.80	20.70
		1	49	20.16	20.06	20.04	0.30	20.70	20.19	20.10	20.03	0.80	20.70
		25	0	19.20	18.98	18.98	1.30	19.70	19.21	19.01	18.98	1.80	19.70
		25	12	19.20	19.06	19.00	1.30	19.70	19.21	19.09	19.00	1.80	19.70
		25	25	19.17	19.07	19.06	1.30	19.70	19.21	19.08	19.07	1.80	19.70
		50	0	19.12	18.99	18.90	1.30	19.70	19.15	19.03	18.91	1.80	19.70
	256QAM	1	0	16.82	16.86	16.83	3.30	17.70	16.87	16.92	16.84	3.80	17.70
		1	25	16.89	16.86	17.06	3.30	17.70	16.95	16.93	16.82	3.80	17.70
		1	49	17.03	16.91	16.91	3.30	17.70	17.06	16.95	16.99	3.80	17.70
		25	0	17.10	16.83	16.86	3.30	17.70	16.91	16.92	16.89	3.80	17.70
		25	12	16.84	16.81	16.89	3.30	17.70	17.10	16.92	17.08	3.80	17.70
		25	25	16.99	16.88	16.97	3.30	17.70	17.07	16.81	16.93	3.80	17.70
		50	0	16.96	16.86	16.88	3.30	17.70	17.01	16.87	16.83	3.80	17.70
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131997	132322	132647	MPR	Tune-up Limit	131997	132322	132647	MPR	Tune-up Limit
				1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	20.53	20.32	20.39	0.00	21.00	20.83	20.59	20.64	0.00	21.50
		1	12	20.50	20.35	20.35	0.00	21.00	20.78	20.66	20.61	0.00	21.50
		1	24	20.46	20.34	20.31	0.00	21.00	20.77	20.64	20.60	0.00	21.50
		12	0	20.14	20.73	20.70	0.00	21.00	20.80	20.67	20.63	0.00	21.50
		12	7	20.17	20.73	20.66	0.00	21.00	20.84	20.67	20.63	0.00	21.50
		12	13	20.09	20.72	20.68	0.00	21.00	20.82	20.66	20.62	0.00	21.50
		25	0	20.11	20.72	20.43	0.00	21.00	20.82	20.61	20.62	0.00	21.50
	16QAM	1	0	20.24	21.00	20.54	0.00	21.00	20.92	20.70	20.80	0.00	21.50
		1	12	20.18	20.47	20.25	0.00	21.00	20.87	20.71	20.79	0.00	21.50
		1	24	20.18	20.03	20.03	0.00	21.00	20.90	20.73	20.74	0.00	21.50
		12	0	20.18	20.02	20.02	0.30	20.70	20.37	20.21	20.17	0.80	20.70
		12	7	20.18	20.05	20.03	0.30	20.70	20.40	20.21	20.19	0.80	20.70
		12	13	20.17	20.01	20.01	0.30	20.70	20.34	20.22	20.25	0.80	20.70
		25	0	20.10	19.92	19.91	0.30	20.70	20.25	20.10	19.95	0.80	20.70
	64QAM	1	0	20.35	20.13	20.25	0.30	20.70	20.54	20.35	20.20	0.80	20.70
		1	12	20.36	20.18	20.23	0.30	20.70	20.55	20.40	20.20	0.80	20.70
		1	24	20.30	20.15	20.17	0.30	20.70	20.49	20.37	20.12	0.80	20.70
		12	0	19.22	19.08	19.06	1.30	19.70	19.39	19.20	19.00	1.80	19.70
		12	7	19.22	19.04	19.05	1.30	19.70	19.42	19.24	19.03	1.80	19.70
		12	13	19.16	19.04	19.05	1.30	19.70	19.37	19.24	19.00	1.80	19.70
		25	0	19.16	18.97	19.02	1.30	19.70	19.33	19.15	18.95	1.80	19.70
	256QAM	1	0	16.98	17.09	17.07	3.30	17.70	17.08	17.07	17.02	3.80	17.70
		1	12	16.98	16.90	17.03	3.30	17.70	16.97	16.94	16.95	3.80	17.70
		1	24	16.86	16.90	16.93	3.30	17.70	16.85	16.86	16.84	3.80	17.70
		12	0	17.01	17.05	16.90	3.30	17.70	16.82	16.94	17.09	3.80	17.70
		12	7	17.10	16.96	16.94	3.30	17.70	16.85	16.88	16.83	3.80	17.70
		12	13	17.02	16.86	16.97	3.30	17.70	17.01	16.88	17.05	3.80	17.70
		25	0	16.93	17.04	16.89	3.30	17.70	16.95	16.93	16.93	3.80	17.70

LTE Band 66 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131987	132322	132657	MPR	Tune-up Limit	131987	132322	132657	MPR	Tune-up Limit
				1711.5 MHz	1745 MHz	1778.5 MHz			1711.5 MHz	1745 MHz	1778.5 MHz		
3 MHz	QPSK	1	0	20.70	20.52	20.55	0.00	21.00	20.74	20.55	20.57	0.00	21.50
		1	8	20.64	20.50	20.51	0.00	21.00	20.67	20.52	20.52	0.00	21.50
		1	14	20.65	20.53	20.53	0.00	21.00	20.68	20.54	20.53	0.00	21.50
		8	0	20.12	20.42	20.45	0.00	21.00	20.76	20.63	20.63	0.00	21.50
		8	4	20.13	20.47	20.43	0.00	21.00	20.79	20.63	20.63	0.00	21.50
		8	7	20.15	20.44	20.43	0.00	21.00	20.79	20.65	20.63	0.00	21.50
	16QAM	15	0	20.09	20.46	20.44	0.00	21.00	20.80	20.64	20.61	0.00	21.50
		1	0	20.17	20.40	20.46	0.00	21.00	20.83	20.65	20.62	0.00	21.50
		1	8	20.08	20.38	20.39	0.00	21.00	20.78	20.63	20.55	0.00	21.50
		1	14	20.11	20.41	20.39	0.00	21.00	20.76	20.63	20.57	0.00	21.50
		8	0	20.19	20.02	20.01	0.30	20.70	20.06	19.96	19.88	0.80	20.70
		8	4	20.20	20.02	20.02	0.30	20.70	20.10	19.95	19.94	0.80	20.70
	64QAM	8	7	20.20	20.01	20.02	0.30	20.70	20.10	19.95	19.93	0.80	20.70
		15	0	20.06	19.92	19.90	0.30	20.70	20.00	19.83	19.85	0.80	20.70
		1	0	20.34	20.12	20.19	0.30	20.70	20.24	20.05	20.09	0.80	20.70
		1	8	20.34	20.13	20.07	0.30	20.70	20.26	20.13	20.01	0.80	20.70
		1	14	20.25	20.13	20.11	0.30	20.70	20.18	20.04	20.01	0.80	20.70
		8	0	19.10	18.93	18.96	1.30	19.70	19.27	19.12	19.12	1.80	19.70
	256QAM	8	4	19.10	18.96	18.99	1.30	19.70	19.29	19.12	19.14	1.80	19.70
		8	7	19.15	18.98	18.99	1.30	19.70	19.28	19.13	19.14	1.80	19.70
		15	0	19.16	19.04	19.03	1.30	19.70	19.33	19.18	19.17	1.80	19.70
		1	0	17.02	16.99	16.87	3.30	17.70	16.90	17.05	17.10	3.80	17.70
		1	8	16.82	16.80	16.95	3.30	17.70	17.02	16.91	17.09	3.80	17.70
		1	14	16.88	17.00	16.90	3.30	17.70	16.96	16.85	16.87	3.80	17.70
		8	0	17.09	17.00	16.98	3.30	17.70	17.02	16.88	17.09	3.80	17.70
		8	4	17.03	17.06	17.02	3.30	17.70	16.83	16.89	16.86	3.80	17.70
		8	7	17.01	16.92	17.08	3.30	17.70	16.92	16.94	16.94	3.80	17.70
		15	0	17.10	17.00	17.07	3.30	17.70	17.06	16.94	16.92	3.80	17.70
1.4 MHz	QPSK	1	0	20.74	20.47	20.45	0.00	21.00	20.75	20.72	20.71	0.00	21.50
		1	3	20.73	20.53	20.47	0.00	21.00	20.80	20.79	20.76	0.00	21.50
		1	5	20.69	20.48	20.45	0.00	21.00	20.73	20.71	20.72	0.00	21.50
		3	0	20.62	20.45	20.41	0.00	21.00	20.68	20.72	20.70	0.00	21.50
		3	1	20.69	20.52	20.46	0.00	21.00	20.74	20.76	20.74	0.00	21.50
		3	3	20.68	20.53	20.46	0.00	21.00	20.71	20.79	20.74	0.00	21.50
	16QAM	6	0	20.07	20.41	20.34	0.00	21.00	20.74	20.57	20.51	0.00	21.50
		1	0	20.17	20.38	20.34	0.00	21.00	20.85	20.60	20.50	0.00	21.50
		1	3	20.20	20.45	20.43	0.00	21.00	20.89	20.67	20.63	0.00	21.50
		1	5	20.13	20.38	20.34	0.00	21.00	20.82	20.62	20.58	0.00	21.50
		3	0	20.09	20.07	20.01	0.00	21.00	20.80	20.73	20.67	0.00	21.50
		3	1	20.12	20.10	20.05	0.00	21.00	20.81	20.75	20.71	0.00	21.50
	64QAM	3	3	20.10	20.09	20.05	0.00	21.00	20.81	20.76	20.74	0.00	21.50
		6	0	20.22	20.05	20.02	0.30	20.70	20.41	20.22	20.18	0.80	20.70
		1	0	20.19	20.01	20.23	0.30	20.70	20.41	20.16	20.20	0.80	20.70
		1	3	20.26	20.06	20.34	0.30	20.70	20.48	20.24	20.26	0.80	20.70
		1	5	20.11	19.94	20.21	0.30	20.70	20.43	20.16	20.13	0.80	20.70
		3	0	20.16	19.99	20.19	0.30	20.70	20.18	20.18	20.19	0.80	20.70
	256QAM	3	1	20.24	20.04	20.21	0.30	20.70	20.21	20.24	20.23	0.80	20.70
		3	3	20.22	20.02	20.20	0.30	20.70	20.23	20.27	20.24	0.80	20.70
		6	0	19.39	19.17	18.84	1.30	19.70	19.31	19.42	19.34	1.80	19.70
		1	0	16.89	16.81	17.00	3.30	17.70	16.92	17.06	16.97	3.80	17.70
		1	3	16.93	16.97	17.03	3.30	17.70	17.00	16.85	16.89	3.80	17.70
		1	5	16.85	16.85	17.08	3.30	17.70	17.02	17.03	17.00	3.80	17.70
		3	0	17.07	17.04	16.90	3.30	17.70	16.92	16.97	16.85	3.80	17.70
		3	1	16.98	16.87	17.10	3.30	17.70	16.88	16.82	17.10	3.80	17.70
		3	3	17.05	16.85	17.03	3.30	17.70	16.94	16.99	16.89	3.80	17.70
		6	0	16.92	17.01	16.95	3.30	17.70	17.10	17.04	16.97	3.80	17.70

LTE Band 71 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				133297 680.5 MHz		MPR	Tune-up Limit	133297 680.5 MHz		MPR	Tune-up Limit
20 MHz	QPSK	1	0	25.39		0.00	25.70	25.39		0.00	25.70
		1	49	25.40		0.00	25.70	25.40		0.00	25.70
		1	99	25.25		0.00	25.70	25.25		0.00	25.70
		50	0	23.94		1.00	24.70	23.94		1.00	24.70
		50	24	24.40		1.00	24.70	24.40		1.00	24.70
		50	50	23.88		1.00	24.70	23.88		1.00	24.70
	16QAM	100	0	23.96		1.00	24.70	23.96		1.00	24.70
		1	0	24.31		1.00	24.70	24.31		1.00	24.70
		1	49	24.30		1.00	24.70	24.30		1.00	24.70
		1	99	24.18		1.00	24.70	24.18		1.00	24.70
		50	0	22.92		2.00	23.70	22.92		2.00	23.70
		50	24	22.98		2.00	23.70	22.98		2.00	23.70
	64QAM	50	50	22.87		2.00	23.70	22.87		2.00	23.70
		100	0	22.97		2.00	23.70	22.97		2.00	23.70
		1	0	23.19		2.00	23.70	23.19		2.00	23.70
		1	49	23.42		2.00	23.70	23.42		2.00	23.70
		1	99	23.31		2.00	23.70	23.31		2.00	23.70
		50	0	22.55		3.00	22.70	22.55		3.00	22.70
	256QAM	50	24	22.55		3.00	22.70	22.55		3.00	22.70
		50	50	22.48		3.00	22.70	22.48		3.00	22.70
		100	0	22.38		3.00	22.70	22.38		3.00	22.70
		1	0	20.31		5.00	20.70	20.31		5.00	20.70
		1	49	20.40		5.00	20.70	20.40		5.00	20.70
		1	99	20.25		5.00	20.70	20.25		5.00	20.70
15 MHz	QPSK	50	0	20.28		5.00	20.70	20.28		5.00	20.70
		50	24	20.32		5.00	20.70	20.32		5.00	20.70
		50	50	20.48		5.00	20.70	20.48		5.00	20.70
		100	0	20.45		5.00	20.70	20.45		5.00	20.70
		1	0	25.43		0.00	25.70	25.43		0.00	25.70
		1	37	25.39		0.00	25.70	25.39		0.00	25.70
	16QAM	1	74	25.39		0.00	25.70	25.39		0.00	25.70
		36	0	23.97		1.00	24.70	23.97		1.00	24.70
		36	20	24.01		1.00	24.70	24.01		1.00	24.70
		36	39	23.97		1.00	24.70	23.97		1.00	24.70
		75	0	23.99		1.00	24.70	23.99		1.00	24.70
		1	0	24.49		1.00	24.70	24.49		1.00	24.70
	64QAM	1	37	24.37		1.00	24.70	24.37		1.00	24.70
		1	74	24.38		1.00	24.70	24.38		1.00	24.70
		36	0	22.96		2.00	23.70	22.96		2.00	23.70
		36	20	23.00		2.00	23.70	23.00		2.00	23.70
		36	39	22.93		2.00	23.70	22.93		2.00	23.70
		75	0	23.00		2.00	23.70	23.00		2.00	23.70
	256QAM	1	0	23.50		2.00	23.70	23.50		2.00	23.70
		1	37	23.66		2.00	23.70	23.66		2.00	23.70
		1	74	23.19		2.00	23.70	23.19		2.00	23.70
		36	0	22.24		3.00	22.70	22.24		3.00	22.70
		36	20	22.55		3.00	22.70	22.55		3.00	22.70
		36	39	22.47		3.00	22.70	22.47		3.00	22.70
	QPSK	75	0	22.52		3.00	22.70	22.52		3.00	22.70
		1	0	20.21		5.00	20.70	20.21		5.00	20.70
		1	37	20.33		5.00	20.70	20.33		5.00	20.70
		1	74	20.45		5.00	20.70	20.45		5.00	20.70
		36	0	20.26		5.00	20.70	20.26		5.00	20.70
		36	20	20.41		5.00	20.70	20.41		5.00	20.70
	16QAM	36	39	20.30		5.00	20.70	20.30		5.00	20.70
		75	0	20.32		5.00	20.70	20.32		5.00	20.70

LTE Band 71 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				133172.00	133297.00	133422.00	MPR	Tune-up Limit	133172.00	133297.00	133422.00	MPR	Tune-up Limit
				668 MHz	680.5 MHz	693 MHz			668 MHz	680.5 MHz	693 MHz		
10 MHz	QPSK	1	0	25.47	25.38	25.38	0.00	25.70	25.47	25.38	25.38	0.00	25.70
		1	25	25.37	25.30	25.32	0.00	25.70	25.37	25.30	25.32	0.00	25.70
		1	49	25.29	25.30	25.17	0.00	25.70	25.29	25.30	25.17	0.00	25.70
		25	0	24.07	23.90	23.86	1.00	24.70	24.07	23.90	23.86	1.00	24.70
		25	12	24.06	23.89	23.82	1.00	24.70	24.06	23.89	23.82	1.00	24.70
		25	25	24.00	23.93	23.83	1.00	24.70	24.00	23.93	23.83	1.00	24.70
	16QAM	50	0	24.07	23.94	23.84	1.00	24.70	24.07	23.94	23.84	1.00	24.70
		1	0	24.13	23.90	24.28	1.00	24.70	24.13	23.90	24.28	1.00	24.70
		1	25	23.97	23.78	24.20	1.00	24.70	23.97	23.78	24.20	1.00	24.70
		1	49	23.92	23.76	24.14	1.00	24.70	23.92	23.76	24.14	1.00	24.70
		25	0	23.19	22.92	22.92	2.00	23.70	23.19	22.92	22.92	2.00	23.70
		25	12	23.18	22.87	22.88	2.00	23.70	23.18	22.87	22.88	2.00	23.70
	64QAM	25	25	23.06	22.90	22.90	2.00	23.70	23.06	22.90	22.90	2.00	23.70
		50	0	23.11	22.93	22.86	2.00	23.70	23.11	22.93	22.86	2.00	23.70
		1	0	23.11	23.16	23.47	2.00	23.70	23.11	23.16	23.47	2.00	23.70
		1	25	22.85	23.19	23.54	2.00	23.70	22.85	23.19	23.54	2.00	23.70
		1	49	23.09	23.10	23.63	2.00	23.70	23.09	23.10	23.63	2.00	23.70
		25	0	22.37	22.49	22.45	3.00	22.70	22.37	22.49	22.45	3.00	22.70
	256QAM	25	12	22.18	22.56	22.45	3.00	22.70	22.18	22.56	22.45	3.00	22.70
		25	25	21.97	22.53	22.17	3.00	22.70	21.97	22.53	22.17	3.00	22.70
		50	0	21.97	22.52	22.23	3.00	22.70	21.97	22.52	22.23	3.00	22.70
		1	0	20.49	20.25	20.49	5.00	20.70	20.49	20.25	20.49	5.00	20.70
		1	25	20.28	20.49	20.41	5.00	20.70	20.28	20.49	20.41	5.00	20.70
		1	49	20.37	20.34	20.32	5.00	20.70	20.37	20.34	20.32	5.00	20.70
5 MHz	QPSK	25	0	20.25	20.43	20.37	5.00	20.70	20.25	20.43	20.37	5.00	20.70
		25	12	20.50	20.34	20.34	5.00	20.70	20.50	20.34	20.34	5.00	20.70
		25	25	20.33	20.42	20.31	5.00	20.70	20.33	20.42	20.31	5.00	20.70
		50	0	20.35	20.35	20.44	5.00	20.70	20.35	20.35	20.44	5.00	20.70
	16QAM	1	0	25.69	25.37	25.46	0.00	25.70	25.69	25.37	25.46	0.00	25.70
		1	12	25.57	25.40	25.33	0.00	25.70	25.57	25.40	25.33	0.00	25.70
		1	24	25.57	25.34	25.26	0.00	25.70	25.57	25.34	25.26	0.00	25.70
		12	0	24.15	23.95	23.98	1.00	24.70	24.15	23.95	23.98	1.00	24.70
		12	7	24.08	24.01	23.92	1.00	24.70	24.08	24.01	23.92	1.00	24.70
		12	13	24.02	23.94	23.82	1.00	24.70	24.02	23.94	23.82	1.00	24.70
	64QAM	25	0	24.11	23.98	23.87	1.00	24.70	24.11	23.98	23.87	1.00	24.70
		1	0	24.34	24.58	24.31	1.00	24.70	24.34	24.58	24.31	1.00	24.70
		1	12	24.27	24.50	24.04	1.00	24.70	24.27	24.50	24.04	1.00	24.70
		1	24	24.17	24.51	23.94	1.00	24.70	24.17	24.51	23.94	1.00	24.70
		12	0	23.23	23.12	23.03	2.00	23.70	23.23	23.12	23.03	2.00	23.70
		12	7	23.20	23.15	22.94	2.00	23.70	23.20	23.15	22.94	2.00	23.70
	256QAM	12	13	23.11	23.08	22.87	2.00	23.70	23.11	23.08	22.87	2.00	23.70
		25	0	23.15	23.06	22.83	2.00	23.70	23.15	23.06	22.83	2.00	23.70
		1	0	23.22	23.22	23.24	2.00	23.70	23.22	23.22	23.24	2.00	23.70
		1	12	23.15	23.14	23.30	2.00	23.70	23.15	23.14	23.30	2.00	23.70
		1	24	23.14	23.12	23.35	2.00	23.70	23.14	23.12	23.35	2.00	23.70
		12	0	22.43	22.43	22.49	3.00	22.70	22.43	22.43	22.49	3.00	22.70
	64QAM	12	7	22.43	22.44	22.25	3.00	22.70	22.43	22.44	22.25	3.00	22.70
		12	13	22.41	22.34	21.78	3.00	22.70	22.41	22.34	21.78	3.00	22.70
		25	0	22.43	22.45	21.82	3.00	22.70	22.43	22.45	21.82	3.00	22.70
	256QAM	1	0	20.25	20.27	20.44	5.00	20.70	20.25	20.27	20.44	5.00	20.70
		1	12	20.36	20.23	20.33	5.00	20.70	20.36	20.23	20.33	5.00	20.70
		1	24	20.37	20.31	20.35	5.00	20.70	20.37	20.31	20.35	5.00	20.70
		12	0	20.33	20.34	20.33	5.00	20.70	20.33	20.34	20.33	5.00	20.70
		12	7	20.40	20.21	20.46	5.00	20.70	20.40	20.21	20.46	5.00	20.70
		12	13	20.33	20.20	20.39	5.00	20.70	20.33	20.20	20.39	5.00	20.70
		25	0	20.37	20.47	20.40	5.00	20.70	20.37	20.47	20.40	5.00	20.70

LTE Band 71 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				133297 680.5 MHz	MPR	Tune-up Limit	133297 680.5 MHz	MPR	Tune-up Limit		
20 MHz	QPSK	1	0	23.55	0.00	23.90	23.55	0.00	23.90		
		1	49	23.60	0.00	23.90	23.60	0.00	23.90		
		1	99	23.43	0.00	23.90	23.43	0.00	23.90		
		50	0	22.57	1.00	22.90	22.57	1.00	22.90		
		50	24	22.80	1.00	22.90	22.80	1.00	22.90		
		50	50	22.48	1.00	22.90	22.48	1.00	22.90		
	16QAM	100	0	22.59	1.00	22.90	22.59	1.00	22.90		
		1	0	22.68	1.00	22.90	22.68	1.00	22.90		
		1	49	22.65	1.00	22.90	22.65	1.00	22.90		
		1	99	22.58	1.00	22.90	22.58	1.00	22.90		
		50	0	21.57	2.00	21.90	21.57	2.00	21.90		
		50	24	21.60	2.00	21.90	21.60	2.00	21.90		
	64QAM	50	50	21.51	2.00	21.90	21.51	2.00	21.90		
		100	0	21.60	2.00	21.90	21.60	2.00	21.90		
		1	0	21.35	2.00	21.90	21.35	2.00	21.90		
		1	49	21.44	2.00	21.90	21.44	2.00	21.90		
		1	99	21.45	2.00	21.90	21.45	2.00	21.90		
		50	0	20.61	3.00	20.90	20.61	3.00	20.90		
	256QAM	50	24	20.62	3.00	20.90	20.62	3.00	20.90		
		50	50	20.65	3.00	20.90	20.65	3.00	20.90		
		100	0	20.47	3.00	20.90	20.47	3.00	20.90		
		1	0	18.5	5.00	18.90	18.46	5.00	18.90		
		1	49	18.5	5.00	18.90	18.50	5.00	18.90		
		1	99	18.3	5.00	18.90	18.35	5.00	18.90		
15 MHz	QPSK	50	0	18.5	5.00	18.90	18.49	5.00	18.90		
		50	24	18.4	5.00	18.90	18.38	5.00	18.90		
		50	50	18.6	5.00	18.90	18.56	5.00	18.90		
		100	0	18.4	5.00	18.90	18.41	5.00	18.90		
	16QAM	1	0	23.60	0.00	23.90	23.60	0.00	23.90		
		1	37	23.52	0.00	23.90	23.52	0.00	23.90		
		1	74	23.47	0.00	23.90	23.47	0.00	23.90		
		36	0	22.58	1.00	22.90	22.58	1.00	22.90		
		36	20	22.62	1.00	22.90	22.62	1.00	22.90		
		36	39	22.55	1.00	22.90	22.55	1.00	22.90		
	64QAM	75	0	22.58	1.00	22.90	22.58	1.00	22.90		
		1	0	22.80	1.00	22.90	22.80	1.00	22.90		
		1	37	22.73	1.00	22.90	22.73	1.00	22.90		
		1	74	22.72	1.00	22.90	22.72	1.00	22.90		
		36	0	21.55	2.00	21.90	21.55	2.00	21.90		
		36	20	21.61	2.00	21.90	21.61	2.00	21.90		
	256QAM	36	39	21.53	2.00	21.90	21.53	2.00	21.90		
		75	0	21.58	2.00	21.90	21.58	2.00	21.90		
		1	0	21.53	2.00	21.90	21.53	2.00	21.90		
		1	37	21.40	2.00	21.90	21.40	2.00	21.90		
		1	74	21.21	2.00	21.90	21.21	2.00	21.90		
		36	0	20.61	3.00	20.90	20.61	3.00	20.90		
	QPSK	36	20	20.64	3.00	20.90	20.64	3.00	20.90		
		36	39	20.71	3.00	20.90	20.71	3.00	20.90		
		75	0	20.67	3.00	20.90	20.67	3.00	20.90		
		1	0	18.6	5.00	18.90	18.57	5.00	18.90		
		1	37	18.6	5.00	18.90	18.59	5.00	18.90		
		1	74	18.4	5.00	18.90	18.42	5.00	18.90		
	16QAM	36	0	18.4	5.00	18.90	18.44	5.00	18.90		
		36	20	18.4	5.00	18.90	18.40	5.00	18.90		
		36	39	18.5	5.00	18.90	18.48	5.00	18.90		
		75	0	18.5	5.00	18.90	18.49	5.00	18.90		

LTE Band 71 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				133172	133297	133422	MPR	Tune-up Limit	133172	133297	133422	MPR	Tune-up Limit
				668 MHz	680.5 MHz	693 MHz			668 MHz	680.5 MHz	693 MHz		
10 MHz	QPSK	1	0	23.70	23.54	23.55	0.00	23.90	23.70	23.54	23.55	0.00	23.90
		1	25	23.54	23.44	23.48	0.00	23.90	23.54	23.44	23.48	0.00	23.90
		1	49	23.51	23.45	23.42	0.00	23.90	23.51	23.45	23.42	0.00	23.90
		25	0	22.77	22.59	22.52	1.00	22.90	22.77	22.59	22.52	1.00	22.90
		25	12	22.74	22.63	22.52	1.00	22.90	22.74	22.63	22.52	1.00	22.90
		25	25	22.66	22.63	22.49	1.00	22.90	22.66	22.63	22.49	1.00	22.90
		50	0	22.74	22.61	22.50	1.00	22.90	22.74	22.61	22.50	1.00	22.90
	16QAM	1	0	22.53	22.22	22.71	1.00	22.90	22.53	22.22	22.71	1.00	22.90
		1	25	22.36	22.14	22.60	1.00	22.90	22.36	22.14	22.60	1.00	22.90
		1	49	22.36	22.15	22.51	1.00	22.90	22.36	22.15	22.51	1.00	22.90
		25	0	21.82	21.59	21.56	2.00	21.90	21.82	21.59	21.56	2.00	21.90
		25	12	21.80	21.62	21.51	2.00	21.90	21.80	21.62	21.51	2.00	21.90
		25	25	21.70	21.58	21.53	2.00	21.90	21.70	21.58	21.53	2.00	21.90
		50	0	21.73	21.57	21.54	2.00	21.90	21.73	21.57	21.54	2.00	21.90
	64QAM	1	0	21.38	21.31	21.79	2.00	21.90	21.38	21.31	21.79	2.00	21.90
		1	25	21.23	21.37	21.85	2.00	21.90	21.23	21.37	21.85	2.00	21.90
		1	49	21.52	21.33	21.19	2.00	21.90	21.52	21.33	21.19	2.00	21.90
		25	0	20.47	20.53	20.86	3.00	20.90	20.47	20.53	20.86	3.00	20.90
		25	12	20.48	20.58	20.89	3.00	20.90	20.48	20.58	20.89	3.00	20.90
		25	25	20.59	20.61	20.53	3.00	20.90	20.59	20.61	20.53	3.00	20.90
		50	0	20.41	20.47	20.54	3.00	20.90	20.41	20.47	20.54	3.00	20.90
	256QAM	1	0	18.4	18.6	18.6	5.00	18.90	18.38	18.59	18.56	5.00	18.90
		1	25	18.4	18.6	18.4	5.00	18.90	18.42	18.56	18.44	5.00	18.90
		1	49	18.4	18.6	18.3	5.00	18.90	18.44	18.58	18.32	5.00	18.90
		25	0	18.5	18.5	18.6	5.00	18.90	18.49	18.50	18.60	5.00	18.90
		25	12	18.3	18.4	18.6	5.00	18.90	18.34	18.44	18.58	5.00	18.90
		25	25	18.4	18.5	18.3	5.00	18.90	18.43	18.54	18.34	5.00	18.90
		50	0	18.4	18.4	18.5	5.00	18.90	18.42	18.35	18.47	5.00	18.90
5 MHz	QPSK	1	0	23.82	23.73	23.52	0.00	23.90	23.82	23.73	23.52	0.00	23.90
		1	12	23.69	23.63	23.45	0.00	23.90	23.69	23.63	23.45	0.00	23.90
		1	24	23.69	23.64	23.30	0.00	23.90	23.69	23.64	23.30	0.00	23.90
		12	0	22.84	22.57	22.54	1.00	22.90	22.84	22.57	22.54	1.00	22.90
		12	7	22.81	22.62	22.51	1.00	22.90	22.81	22.62	22.51	1.00	22.90
		12	13	22.73	22.56	22.42	1.00	22.90	22.73	22.56	22.42	1.00	22.90
		25	0	22.79	22.63	22.50	1.00	22.90	22.79	22.63	22.50	1.00	22.90
	16QAM	1	0	22.72	22.49	22.82	1.00	22.90	22.72	22.49	22.82	1.00	22.90
		1	12	22.61	22.43	22.71	1.00	22.90	22.61	22.43	22.71	1.00	22.90
		1	24	22.58	22.48	22.60	1.00	22.90	22.58	22.48	22.60	1.00	22.90
		12	0	21.87	21.69	21.67	2.00	21.90	21.87	21.69	21.67	2.00	21.90
		12	7	21.84	21.67	21.64	2.00	21.90	21.84	21.67	21.64	2.00	21.90
		12	13	21.74	21.60	21.58	2.00	21.90	21.74	21.60	21.58	2.00	21.90
		25	0	21.70	21.62	21.54	2.00	21.90	21.70	21.62	21.54	2.00	21.90
	64QAM	1	0	21.54	21.90	21.67	2.00	21.90	21.54	21.90	21.67	2.00	21.90
		1	12	21.46	21.88	21.74	2.00	21.90	21.46	21.88	21.74	2.00	21.90
		1	24	21.41	21.87	21.03	2.00	21.90	21.41	21.87	21.03	2.00	21.90
		12	0	20.64	20.60	20.55	3.00	20.90	20.64	20.60	20.55	3.00	20.90
		12	7	20.55	20.62	20.43	3.00	20.90	20.55	20.62	20.43	3.00	20.90
		12	13	20.47	20.57	20.13	3.00	20.90	20.47	20.57	20.13	3.00	20.90
		25	0	20.40	20.51	20.21	3.00	20.90	20.40	20.51	20.21	3.00	20.90
	256QAM	1	0	18.4	18.5	18.4	5.00	18.90	18.38	18.45	18.43	5.00	18.90
		1	12	18.4	18.3	18.4	5.00	18.90	18.39	18.31	18.36	5.00	18.90
		1	24	18.4	18.5	18.3	5.00	18.90	18.37	18.52	18.31	5.00	18.90
		12	0	18.6	18.5	18.4	5.00	18.90	18.56	18.54	18.40	5.00	18.90
		12	7	18.5	18.3	18.5	5.00	18.90	18.53	18.33	18.51	5.00	18.90
		12	13	18.3	18.5	18.4	5.00	18.90	18.31	18.47	18.42	5.00	18.90
		25	0	18.5	18.5	18.5	5.00	18.90	18.52	18.52	18.45	5.00	18.90

9.5. LTE Up-Link Carrier Aggregation

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

For inter-band carrier aggregation with uplink assigned to one E-UTRA band (Table 5.6A-1), the requirements in subclause 6.2.3 apply.

For inter-band carrier aggregation with one component carrier per operating band and the uplink active in two E-UTRA bands, the requirements in subclause 6.2.3 apply for each uplink component carrier.

For intra-band contiguous carrier aggregation the allowed Maximum Power Reduction (MPR) for the maximum output power applicable to the DUT in table below. In case the modulation format is different on different component carriers then the MPR is determined by the rules applied to higher order of those modulations.

Modulation	CA bandwidth Class B and C / Smallest Component Carrier Transmission Bandwidth Configuration				MPR (dB)
	25 RB	50 RB	75 RB	100 RB	
QPSK	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 18 and ≤ 100	≤ 1
QPSK	> 25	> 50	> 75	> 100	≤ 2
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 18 and ≤ 100	≤ 2
16 QAM	> 25	> 50	> 75	> 100	≤ 3
64 QAM	≤ 8 and allocation wholly contained within a single CC	≤ 12 and allocation wholly contained within a single CC	≤ 16 and allocation wholly contained within a single CC	≤ 18 and allocation wholly contained within a single CC	≤ 2
64 QAM	> 8 or allocation extends across two CC's	> 12 or allocation extends across two CC's	> 16 or allocation extends across two CC's	> 18 or allocation extends across two CC's	≤ 3
256 QAM	≥ 1				≤ 5

For PUCCH and SRS transmissions, the allowed MPR is according to that specified for PUSCH WPDK modulation for the corresponding transmission bandwidth.

For intra-band contiguous carrier aggregation bandwidth class C with non-contiguous resource allocation, the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2A-1 is specified as follows

$$\text{MPR} = \text{CEIL} \{ \min(M_A, M_{\text{IM5}}), 0.5 \}$$

Where M_A is defined as follows

$$M_A = \begin{cases} 8.2 & ; 0 \leq A < 0.025 \\ 9.2 - 40A & ; 0.025 \leq A < 0.05 \\ 8 - 16A & ; 0.05 \leq A < 0.25 \\ 4.83 - 3.33A & ; 0.25 \leq A \leq 0.4 \end{cases}$$

$$3.83 - 0.83A \quad ; 0.4 \leq A \leq 1$$

and M_{IM5} is defined as follows

$$M_{IM5} = \begin{cases} 4.5 & ; \Delta_{IM5} < 1.5 * BW_{Channel_CA} \\ 6.0 & ; 1.5 * BW_{Channel_CA} \leq \Delta_{IM5} < BW_{Channel_CA}/2 + \Delta f_{00B} \\ M_A & ; \Delta_{IM5} \geq BW_{Channel_CA}/2 + \Delta f_{00B} \end{cases}$$

Where

$$A = N_{RB_alloc} / N_{RB_agg}$$

$$\Delta_{IM5} = \max(|F_{C_agg} - (3 * F_{agg_alloc_low} - 2 * F_{agg_alloc_high})|, |F_{C_agg} - (3 * F_{agg_alloc_high} - 2 * F_{agg_alloc_low})|)$$

$CEIL\{M_A, 0.5\}$ means rounding upwards to closest 0.5dB, i.e. $MPR \in [3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5]$

For intra-band carrier aggregation, the MPR is evaluated per slot and given by the maximum value taken over the transmission(s) on all component carriers within the slot; the maximum MPR over the two slots is then applied for the entire subframe.

For intra-band non-contiguous carrier aggregation with one uplink carrier on the PCC, the requirements in the subclause 6.2.3 apply. For intra-band non-contiguous aggregation with two uplink carriers the MPR is defined for those E-UTRA bands where maximum possible $W_{GAP} \leq 42.2$ MHz as follows

$$MPR = CEIL\{M_A, 0.5\}$$

Where M_N is defined as follows

$$M_N = \begin{cases} -0.125N + 18.25 & ; 2 \leq N \leq 50 \\ -0.0333 N + 13.67 & ; 50 < N \leq 200 \end{cases}$$

Where $N = N_{RB_alloc}$ is the number of allocated resource blocks.

For the UE maximum output power modified by MPR, the power limits specified in subclause 6.2.5A apply.

LTE Carrier Aggregation Test Signal Set-up Procedure

(Use normal LTE set-up procedure in addition with the following steps)

Set to CMW-500 with following parameters:

- PCC tab:
 - Select the testing Operating Band, Channel, Frequency, Cell Bandwidth, Uplink RBs

LTE Signaling 1 - V3.5.40 - Base V 3.5.90

Connection Status

Cell: Connection Established

Packet Switched: Connection Established

RRC State: Connected

SCC1 State: MAC Activated

Event Log

02:17:19 Redirection Successful

02:17:18 Tracking Area Update Received

02:17:18 RRC Connection Established

02:17:17 RRC Connection Released

02:17:16 Redirection Start

02:17:12 Redirection Successful

UE Info

IMEI: 359250065123018

IMSI: 001010000150503

Voice Domain Pr... IMS PS Voice preferred CS Voice

UE's Usage Settl... Voice centric

Default Bearer IPv4 address: 192.168.48.129fc01:abab:cdc

Dedicated Bearer TFT Port Range DL / UL: 5005 - 5008 / 5005 - 5008

PCC Tab Configuration:

Operating Band: **Band 7** FDD

Downlink: 2850 Ch, 2630.0 MHz

Uplink: 20850 Ch, 2510.0 MHz

Cell Bandwidth: 20.0 MHz

RS EPRE: -85.0 dBm/15kHz

Full Cell BW Pow.: -54.2 dBm

PUSCH Open Loop Nom.Power: 23 dBm

PUSCH Closed Loop Target Power: 33.0 dBm

Sched. **User def. Channels** Multicenter UL

Uplink RB Configuration:

#RB: 100

Start RB: 0

Mod / TBSI: QPSK, 5

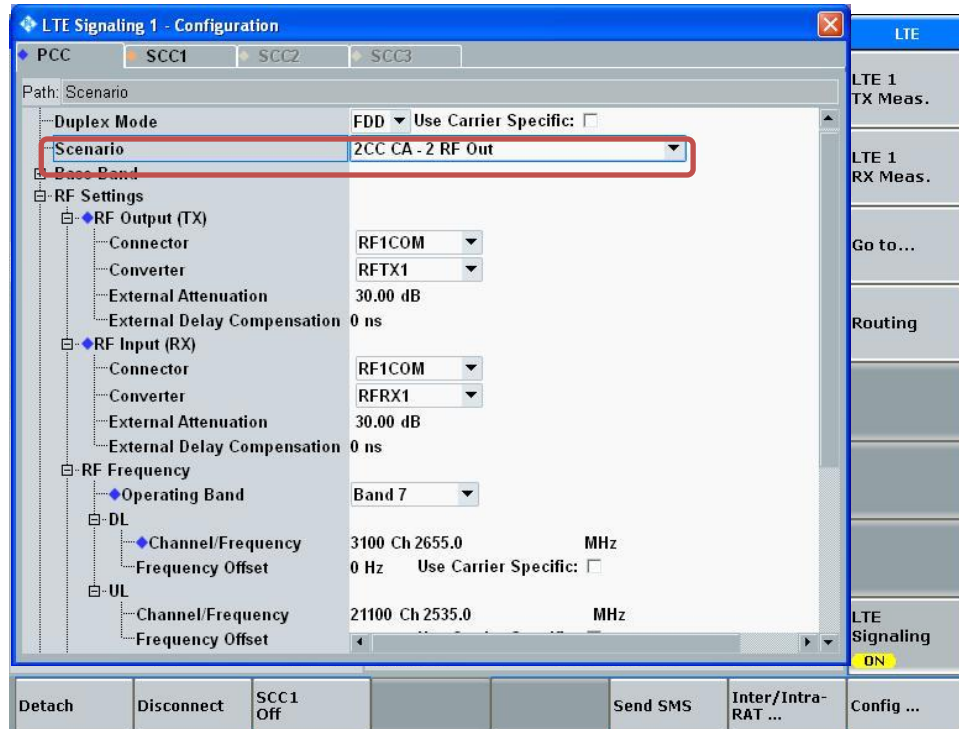
Code Rate / TBS: 0.612, 8760

Throughput: 8.760 Mbit/s

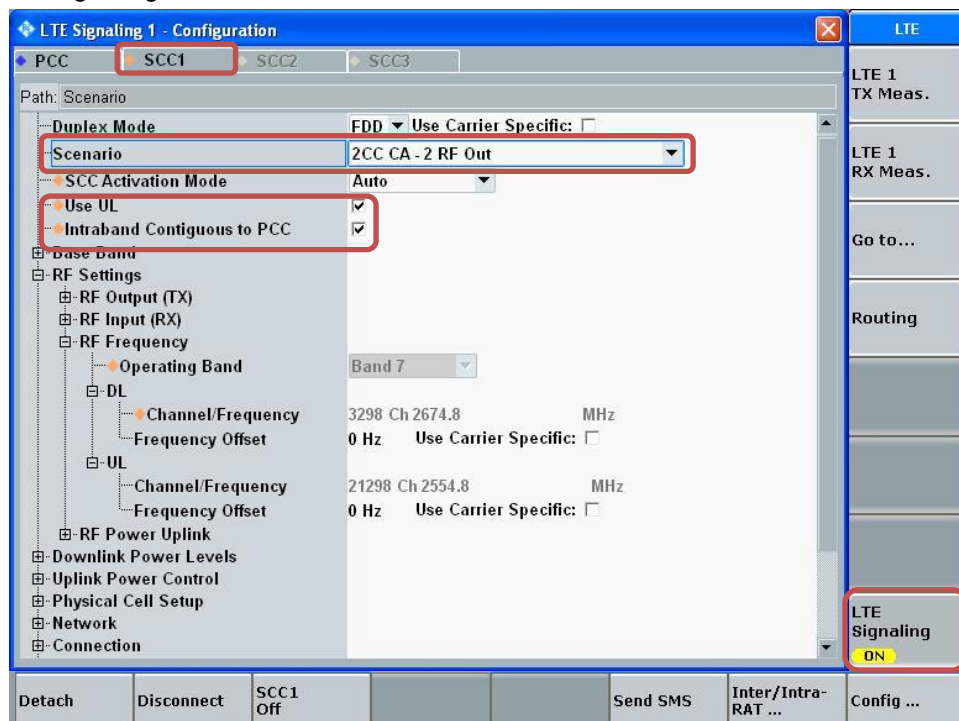
Buttons: Detach, Disconnect, SCC1 Off, Send SMS, Inter/Intra-RAT ..., Config ...

- Go to "Config...."

- Go to "Scenario"
- Set to "2CC CA – 2 RF Out"



- Select "SCC1" tab
- Go to "Scenario"
- Set to "2CC CA – 2 RF Out"
- Enable "Use UL"
- Enable "Intraband Contiguous to PCC"
- Select "LTE Signaling" button



- Select "SCC1" tab
 - Select the testing Cell Bandwidth, Uplink RBs

LTE Signaling 1 - V3.5.40 - Base V 3.5.90

Connection Status

Cell:  Connection Established

RRC State: Connected
SCC1 State: MAC Activated

Event Log

02:17:19 Redirection Successful
02:17:18 Tracking Area Update Received
02:17:18 RRC Connection Established
02:17:17 RRC Connection Released
02:17:16 Redirection Start
02:17:12 Redirection Successful

UE Info

IMEI: 359250065123018
IMSI: 001010000150503
Voice Domain Pr...: IMS PS Voice preferred CS Voic
UE's Usage Settl...: Voice centric
Default Bearer: IPv4 address: 192.168.48.129 IPv6 pref: 5 (cmw500.r...)
Dedicated Bearer: TFT Port Range DL / UL: 5005 - 5008 / 5005 - 5008

SCC1

Operating Band: Band 7 FDD
Downlink: 3048 Ch 2649.8 MHz
Uplink: 21048 Ch 2529.8 MHz
Cell Bandwidth: 20.0 MHz 20.0 MHz
RS EPRE: -85.8 dBm/15kHz
Full Cell BW Pow: -55.0 dBm
PUSCH Open Loop Nom.Power: 23 dBm
PUSCH Closed Loop Target Power: 33.0 dBm
Intraband Contiguous to PCC: ☒
PCC <-> SCC1: Swap
PCC -> SCC1: Copy
Sched: User def. Channels Multicenter UL

Downlink Uplink

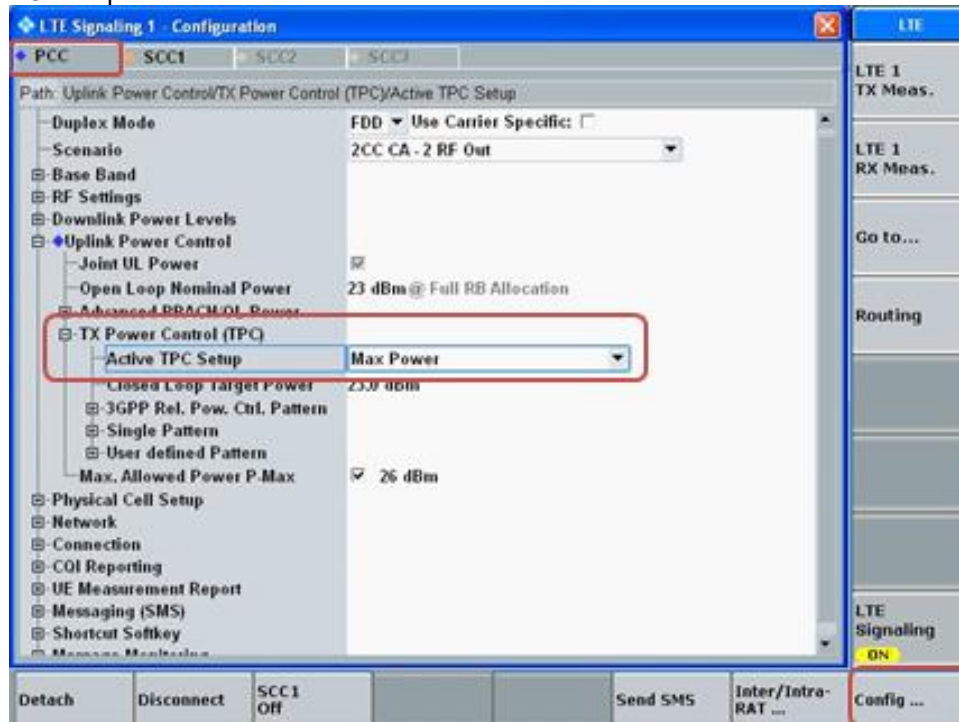
	Downlink	Uplink
#RB	100	100
Start RB	0	0
Mod / TBSI	QPSK 5	QPSK 10
Code Rate / TBS	0.320 8760	0.613 17568
Throughput	8.760 Mbit/s	17.568 Mbit/s

LTE Signaling ON

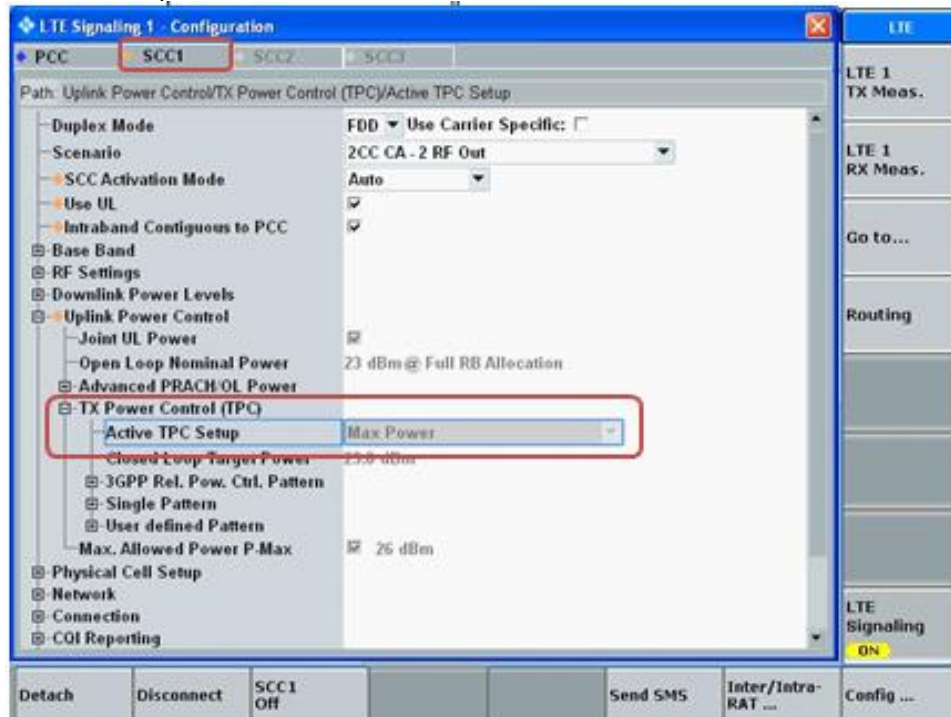
Detach Disconnect SCC1 Off Send SMS Inter/Intra-RAT ... Config ...

Max Power Setting

- Select “Config ...” button
- Select PCC tab
- Set “Active TPC Setup” to “Max Power”

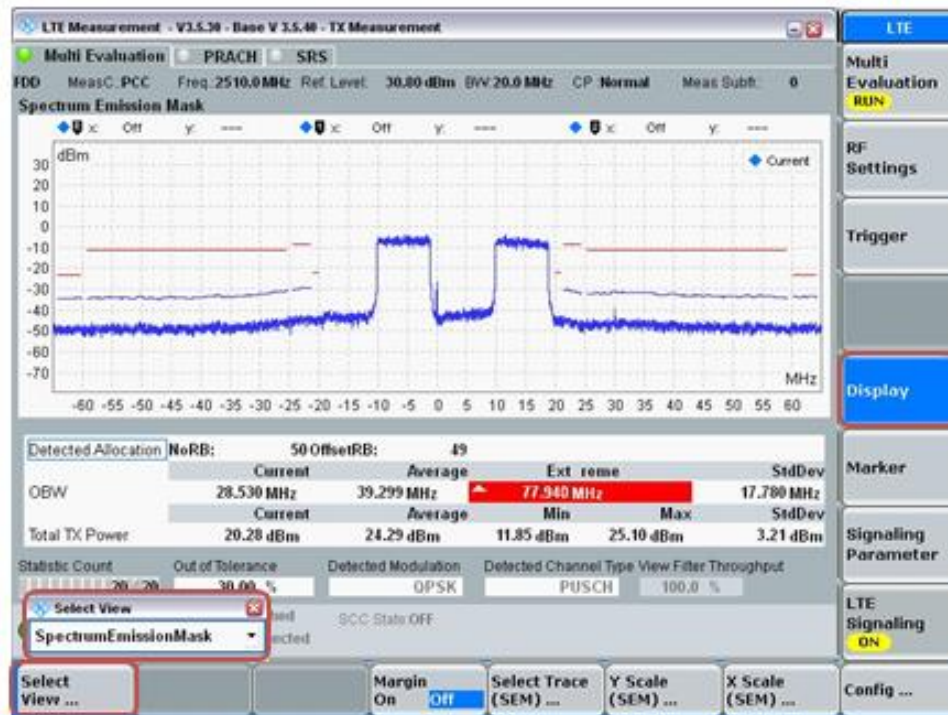


- Select SCC1 tab
- Verify that “Active TPC Setup” is set to “Max Power”



View TX Power

- Go to “Display”
- Select “Select View...”
- Select “Spectrum Emission Mask”



LTE Intra-Band Contiguous Carrier Aggregation

UL CA shall be tested based on the worst-case SAR configuration determined from non-CA SAR testing result. The channel BW, channel number, RB allocation, etc. would be selected to allow contiguous CA of PCC and SCC. Uplink output power for UL CA is the total power measured across the PCC and SCC.

UL CA power measurements were performed for each antennas at with QPSK modulation based on the worst-case standalone SAR.

The UL CA mode power measurements represent the total power across both carriers. Measurements were made for all supported PCC bandwidths using the channel/RB combination resulting in the highest standalone output power at the least MPR (0 dB). SCCs were set to use configurations similar to the PCC to establish conservative or worst case equivalent SAR test conditions (highest maximum power with MPR of 0 dB).

The standalone power measurement is the power for the PCC in the non-CA mode (i.e. single carrier power). In all cases the UL CA power is less than or equal to the standalone power, which is in accordance with the tune-up limits in table below.

According to November 2017 TCB workshop, Uplink CA SAR Test Guidance as follows:

- a) When the maximum output for UL CA is $\leq$ standalone LTE mode (without CA)
 - PCC is configured according to the highest standalone SAR configuration tested
 - SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC
- b) When the Reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels(PCC based)
- c) UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level

Maximum Output Power (Tune-up Limit) for LTE UL Carrier Aggregation

Intra-Band Contiguous	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
CA_5B	QPSK	25.70	25.70	23.90	23.90				
CA_7C	QPSK	25.70	20.75	17.50	19.50	24.70	20.50	19.50	18.50
CA_41C (PC3)	QPSK	25.70	23.25	20.00	22.75	24.70	22.50	21.75	20.50
CA_41C (PC2)	QPSK	27.70	N/A	N/A	N/A	26.70	22.50	N/A	N/A
Intra-Band Contiguous	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT7		ANT8		ANT9		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
CA_48C	QPSK	25.70	23.00	22.20	22.20	25.20	23.25	22.20	21.00

LTE CA 5B Measured Results

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Tune-Up Limit (dBm)	UL CA Inactive (dBm)	Tune-Up Limit (dBm)	UL CA active (dBm)	Delta
CA_5B	ANT 1	Mode A	QPSK	10	831.6	1	49	5	841.5	1	0	25.70	25.20	25.70	25.10	-0.1
CA_5B	ANT 1	Mode B	QPSK	10	831.6	1	49	5	841.5	1	0	25.70	25.20	25.70	25.13	-0.1
CA_5B	ANT 1	Mode B	QPSK	10	831.6	1	49	5	841.5	1	0	25.70	25.20	25.70	25.41	0.2
CA_5B	ANT 2	Mode A	QPSK	10	831.6	1	49	5	841.5	1	0	23.90	23.80	23.90	23.66	-0.1
CA_5B	ANT 2	Mode B	QPSK	10	831.6	1	49	5	841.5	1	0	23.90	23.80	23.90	23.63	-0.2

Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

LTE CA 7C Measured Results

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Tune-Up Limit (dBm)	UL CA Inactive (dBm)	Tune-Up Limit (dBm)	UL CA active (dBm)	Delta
CA_7C	ANT 1	Mode A	QPSK	20	2525.1	1	99	20	2544.9	1	0	25.70	25.70	25.70	25.49	-0.2
CA_7C	ANT 1	Mode B	QPSK	20	2525.1	1	99	20	2544.9	1	0	20.75	20.60	20.75	20.54	-0.1
CA_7C	ANT 1	Mode B	QPSK	20	2510.0	1	99	20	2529.8	1	0	20.75	20.60	20.75	20.39	-0.2
CA_7C	ANT 2	Mode A	QPSK	20	2510.0	1	99	20	2529.8	1	0	17.50	17.25	17.50	17.33	0.1
CA_7C	ANT 2	Mode B	QPSK	20	2510.0	1	99	20	2529.8	1	0	19.50	19.40	19.50	19.63	0.2
CA_7C	ANT 3	Mode A	QPSK	20	2525.1	1	99	20	2544.9	1	0	24.70	24.30	24.70	24.30	0.0
CA_7C	ANT 3	Mode B	QPSK	20	2525.1	1	99	20	2544.9	1	0	20.50	20.50	20.50	20.34	-0.2
CA_7C	ANT 3	Mode B	QPSK	20	2540.2	1	99	20	2560.0	1	0	20.50	20.50	20.50	20.39	-0.1
CA_7C	ANT 4	Mode A	QPSK	20	2510.0	1	99	20	2529.8	1	0	19.50	19.25	19.50	19.32	0.1
CA_7C	ANT 4	Mode B	QPSK	20	2525.1	1	99	20	2544.9	1	0	18.50	18.50	18.50	18.26	-0.2
CA_7C	ANT 4	Mode B	QPSK	20	2525.1	1	99	20	2544.9	1	0	18.50	18.50	18.50	18.45	0.0

Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

LTE CA 41C (PC3) Measured Results

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Tune-Up Limit (dBm)	UL CA Inactive (dBm)	Tune-Up Limit (dBm)	UL CA active (dBm)	Delta
CA_41C	ANT 1	Mode A	QPSK	20	2583.1	1	99	20	2602.9	1	0	25.70	25.20	25.70	25.44	0.2
CA_41C	ANT 1	Mode B	QPSK	20	2583.1	1	99	20	2602.9	1	0	23.25	23.25	23.25	23.31	0.1
CA_41C	ANT 1	Mode B	QPSK	20	2506.0	1	99	20	2525.8	1	0	23.25	23.25	23.25	23.28	0.0
CA_41C	ANT 2	Mode A	QPSK	20	2506.0	1	99	20	2525.8	1	0	20.00	19.70	20.00	19.54	-0.2
CA_41C	ANT 2	Mode B	QPSK	20	2583.1	1	99	20	2602.9	1	0	22.75	22.10	22.75	22.18	0.1
CA_41C	ANT 2	Mode B	QPSK	20	2506.0	1	99	20	2525.8	1	0	22.75	22.10	22.75	22.31	0.2
CA_41C	ANT 3	Mode A	QPSK	20	2583.1	1	99	20	2602.9	1	0	24.70	24.70	24.70	24.67	0.0
CA_41C	ANT 3	Mode B	QPSK	20	2583.1	1	99	20	2602.9	1	0	22.50	22.50	22.50	22.50	0.0
CA_41C	ANT 3	Mode B	QPSK	20	2660.2	1	99	20	2680.0	1	0	22.50	22.50	22.50	22.26	-0.2
CA_41C	ANT 4	Mode A	QPSK	20	2660.2	1	99	20	2680.0	1	0	21.75	21.60	21.75	21.36	-0.2
CA_41C	ANT 4	Mode B	QPSK	20	2583.1	1	99	20	2602.9	1	0	20.50	20.10	20.50	20.08	0.0
CA_41C	ANT 4	Mode B	QPSK	20	2506.0	1	99	20	2525.8	1	0	20.50	20.10	20.50	20.33	0.2

Note(s):

1. PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.
2. Additional SAR for UL CA PC2 is not required. Test reduction has been applied base on standalone SAR.
3. SAR evaluation for PC2 is only required when its Maximum output power (Tune-up Limit) is higher from PC3.

LTE CA 48C Measured Results

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Tune-Up Limit (dBm)	UL CA Inactive (dBm)	Tune-Up Limit (dBm)	UL CA active (dBm)	Delta
CA_48C	ANT 7	Mode A	QPSK	20	3615.1	1	99	20	3634.9	1	0	25.70	25.70	25.70	25.66	0.0
CA_48C	ANT 7	Mode B	QPSK	20	3615.1	1	99	20	3634.9	1	0	23.00	22.50	23.00	22.56	0.1
CA_48C	ANT 7	Mode B	QPSK	20	3560.0	1	99	20	3579.8	1	0	23.00	22.50	23.00	22.65	0.1
CA_48C	ANT 4	Mode A	QPSK	20	3615.1	1	99	20	3634.9	1	0	22.20	22.00	22.20	22.02	0.0
CA_48C	ANT 4	Mode B	QPSK	20	3607.2	1	99	20	3690.0	1	0	22.20	22.00	22.20	21.92	-0.1
CA_48C	ANT 4	Mode B	QPSK	20	3560.0	1	99	20	3579.8	1	0	22.20	22.00	22.20	21.80	-0.2
CA_48C	ANT 9	Mode A	QPSK	20	3615.1	1	99	20	3634.9	1	0	25.20	24.70	25.20	24.69	0.0
CA_48C	ANT 9	Mode B	QPSK	20	3607.2	1	99	20	3690.0	1	0	23.25	22.75	23.25	22.92	0.2
CA_48C	ANT 8	Mode A	QPSK	20	3615.1	1	99	20	3634.9	1	0	22.20	22.20	22.20	22.32	0.1
CA_48C	ANT 8	Mode B	QPSK	20	3615.1	1	99	20	3634.9	1	0	21.00	20.75	21.00	20.61	-0.1
CA_48C	ANT 8	Mode B	QPSK	20	3615.1	1	99	20	3634.9	1	0	21.00	20.75	21.00	20.66	-0.1

Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

LTE Inter-Band Carrier Aggregation

According to October 2018 TCB workshop, Uplink CA SAR Test Guidance as follows:

- Provide the single uplink SAR values you have obtained for the relevant SAR configurations and frequency bands that employ inter-band uplink carrier aggregation.
- If the single uplink 1-g SAR values for each band are both less than 0.8 W/kg and the algebraic summation of the 1-g SAR values are less than 1.45 W/kg no additional measurements need to be performed.
- If one of the single uplink 1-g SAR values is greater than 0.8 W/kg, instead of algebraically summing the 1-g SAR values, sum up the SAR distributions, similar to the enlarged zoom scan (volume scan) procedures found in FCC KDB Publication 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04.
- If the algebraic sum of the 1-g SAR values is > 1.45 W/kg additional measurements may have to be made. Submit a KDB inquiry for additional guidance.

Maximum Output Power (Tune-up Limit) and SAR test exemption for LTE UL Carrier Aggregation

Test positions and test channels used for the testing below are based on the standalone worst-case SAR results. UL CA is reduced by 3dB therefore power and SAR was estimated based on standalone results.

UL CA inter-bands	RF Exposure Conditions	Antennna Ports				Standalone worst-case position				UL CA				
						Tune-up Limit (dBm)		Reported 1-g SAR (W/kg)		Tune-up Limit (-3dB) (dBm)		Reported 1-g SAR (W/kg)		
		CC1		CC2		CC1	CC2	CC1	CC2	CC1	CC2	CC1	CC2	CC1+CC2
CA_2A-5A	Head	ANT1	2A	ANT2	5A	25.70	24.50	0.280	0.706	22.70	21.50	0.140	0.354	0.494
		ANT2	2A	ANT1	5A	20.00	25.70	0.965	0.221	17.00	22.70	0.484	0.111	0.594
		ANT3	2A	ANT1	5A	24.70	25.70	0.363	0.221	21.70	22.70	0.182	0.111	0.293
		ANT3	2A	ANT2	5A	24.70	24.50	0.363	0.706	21.70	21.50	0.182	0.354	0.536
		ANT4	2A	ANT1	5A	19.00	25.70	0.994	0.221	16.00	22.70	0.498	0.111	0.609
	Body	ANT4	2A	ANT2	5A	19.00	24.50	0.994	0.706	16.00	21.50	0.498	0.354	0.852
		ANT1	2A	ANT2	5A	16.50	24.50	0.931	0.497	13.50	21.50	0.467	0.249	0.716
		ANT2	2A	ANT1	5A	20.25	25.70	0.910	0.664	17.25	22.70	0.456	0.333	0.789
		ANT3	2A	ANT1	5A	19.50	25.70	0.953	0.664	16.50	22.70	0.478	0.333	0.810
		ANT3	2A	ANT2	5A	19.50	24.50	0.953	0.497	16.50	21.50	0.478	0.249	0.727
CA_2A-12A	Head	ANT4	2A	ANT1	5A	20.25	25.70	0.842	0.664	17.25	22.70	0.422	0.333	0.755
		ANT4	2A	ANT2	5A	20.25	24.50	0.842	0.497	17.25	21.50	0.422	0.249	0.671
	Body	ANT1	2A	ANT2	12A	25.70	23.90	0.280	0.571	22.70	20.90	0.140	0.286	0.427
		ANT2	2A	ANT1	12A	20.00	24.70	0.965	0.154	17.00	21.70	0.484	0.077	0.561
		ANT3	2A	ANT1	12A	24.70	24.70	0.363	0.154	21.70	21.70	0.182	0.077	0.259
		ANT3	2A	ANT2	12A	24.70	23.90	0.363	0.571	21.70	20.90	0.182	0.286	0.468
		ANT4	2A	ANT1	12A	19.00	24.70	0.994	0.154	16.00	21.70	0.498	0.077	0.575
	Body	ANT4	2A	ANT2	12A	19.00	23.90	0.994	0.571	16.00	20.90	0.498	0.286	0.784
		ANT1	2A	ANT2	12A	16.50	23.90	0.931	0.500	13.50	20.90	0.467	0.251	0.717
		ANT2	2A	ANT1	12A	20.25	25.70	0.910	0.741	17.25	22.70	0.456	0.371	0.827
CA_2A-13A	Head	ANT3	2A	ANT1	12A	19.50	25.70	0.953	0.741	16.50	22.70	0.478	0.371	0.849
		ANT3	2A	ANT2	12A	19.50	23.90	0.953	0.500	16.50	20.90	0.478	0.251	0.728
		ANT4	2A	ANT1	12A	20.25	25.70	0.842	0.741	17.25	22.70	0.422	0.371	0.793
		ANT4	2A	ANT2	12A	20.25	23.90	0.842	0.500	17.25	20.90	0.422	0.251	0.673
	Body	ANT1	2A	ANT2	13A	25.70	23.90	0.280	0.594	22.70	20.90	0.140	0.298	0.438
		ANT2	2A	ANT1	13A	20.00	25.20	0.965	0.229	17.00	22.20	0.484	0.115	0.598
		ANT3	2A	ANT1	13A	24.70	25.20	0.363	0.229	21.70	22.20	0.182	0.115	0.297
		ANT3	2A	ANT2	13A	24.70	23.90	0.363	0.594	21.70	20.90	0.182	0.298	0.480
		ANT4	2A	ANT1	13A	19.00	25.20	0.994	0.229	16.00	22.20	0.498	0.115	0.613
CA_2A-13A	Body	ANT4	2A	ANT2	13A	19.00	23.90	0.994	0.594	16.00	20.90	0.498	0.298	0.796
		ANT1	2A	ANT2	13A	16.50	23.90	0.931	0.419	13.50	20.90	0.467	0.210	0.677
		ANT2	2A	ANT1	13A	20.25	25.70	0.910	0.637	17.25	22.70	0.456	0.319	0.775
		ANT3	2A	ANT1	13A	19.50	25.70	0.953	0.637	16.50	22.70	0.478	0.319	0.797
		ANT3	2A	ANT2	13A	19.50	23.90	0.953	0.419	16.50	20.90	0.478	0.210	0.688
	Body	ANT4	2A	ANT1	13A	20.25	25.70	0.842	0.637	17.25	22.70	0.422	0.319	0.741
		ANT4	2A	ANT2	13A	20.25	23.90	0.842	0.419	17.25	20.90	0.422	0.210	0.632

UL CA inter-bands	RF Exposure Conditions	Antennna Ports				Standalone worst-case position				UL CA				
						Tune-up Limit (dBm)		Reported 1-g SAR (W/kg)		Tune-up Limit (-3dB) (dBm)		Reported 1-g SAR (W/kg)		
		CC1		CC2		CC1	CC2	CC1	CC2	CC1	CC2	CC1	CC2	CC1+CC2
CA_12A- 66A	Head	ANT1	12A	ANT2	66A	24.70	19.00	0.154	0.956	21.70	16.00	0.077	0.479	0.556
		ANT1	12A	ANT3	66A	24.70	24.70	0.154	0.367	21.70	21.70	0.077	0.184	0.261
		ANT1	12A	ANT4	66A	24.70	20.00	0.154	0.961	21.70	17.00	0.077	0.482	0.559
		ANT2	12A	ANT1	66A	23.90	25.70	0.571	0.302	20.90	22.70	0.286	0.151	0.438
		ANT2	12A	ANT3	66A	23.90	24.70	0.571	0.367	20.90	21.70	0.286	0.184	0.470
		ANT2	12A	ANT4	66A	23.90	20.00	0.571	0.961	20.90	17.00	0.286	0.482	0.768
	Body	ANT1	12A	ANT2	66A	25.70	17.25	0.741	0.982	22.70	14.25	0.371	0.492	0.864
		ANT1	12A	ANT3	66A	25.70	21.25	0.741	0.945	22.70	18.25	0.371	0.474	0.845
		ANT1	12A	ANT4	66A	25.70	21.00	0.741	0.978	22.70	18.00	0.371	0.490	0.862
		ANT2	12A	ANT1	66A	23.90	17.00	0.500	0.936	20.90	14.00	0.251	0.469	0.720
		ANT2	12A	ANT3	66A	23.90	21.25	0.500	0.945	20.90	18.25	0.251	0.474	0.724
CA_13A- 66A	Head	ANT2	12A	ANT4	66A	23.90	21.00	0.500	0.978	20.90	18.00	0.251	0.490	0.741
		ANT1	13A	ANT2	66A	25.20	19.00	0.229	0.956	22.20	16.00	0.115	0.479	0.594
		ANT1	13A	ANT3	66A	25.20	24.70	0.229	0.367	22.20	21.70	0.115	0.184	0.299
		ANT1	13A	ANT4	66A	25.20	20.00	0.229	0.961	22.20	17.00	0.115	0.482	0.596
		ANT2	13A	ANT1	66A	23.90	25.70	0.594	0.302	20.90	22.70	0.298	0.151	0.449
		ANT2	13A	ANT3	66A	23.90	24.70	0.594	0.367	20.90	21.70	0.298	0.184	0.482
	Body	ANT2	13A	ANT4	66A	23.90	20.00	0.594	0.961	20.90	17.00	0.298	0.482	0.779
		ANT1	13A	ANT2	66A	25.70	17.25	0.637	0.982	22.70	14.25	0.319	0.492	0.811
		ANT1	13A	ANT3	66A	25.70	21.25	0.637	0.945	22.70	18.25	0.319	0.474	0.793
		ANT1	13A	ANT4	66A	25.70	21.00	0.637	0.978	22.70	18.00	0.319	0.490	0.809
		ANT2	13A	ANT1	66A	23.90	17.00	0.419	0.936	20.90	14.00	0.210	0.469	0.679
		ANT2	13A	ANT3	66A	23.90	21.25	0.419	0.945	20.90	18.25	0.210	0.474	0.684
		ANT2	13A	ANT4	66A	23.90	21.00	0.419	0.978	20.90	18.00	0.210	0.490	0.700

Conclusion:

The single uplink 1-g SAR values for each band are both less than 0.8 W/kg and the algebraic summation of the 1-g SAR values are less than 1.45 W/kg. Therefore, no additional measurements are required.

9.6. LTE Down-Link Carrier Aggregation

This device supports LTE downlink carrier aggregation (CA). The tables appendix G is show the supported frequency bands of the device for DL Inter-band and DL Intra-band combinations.

9.7. 5G NR(FR1)

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 138.521-1 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS138.521-1.

Table 6.2.2.3-1: Maximum Power Reduction (MPR) for Power 3

Modulation	MPR (dB)		
	Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
	$\leq 0.5^2$		0^2
DFT-s-OFDM QPSK	≤ 1		0
DFT-s-OFDM 16 QAM	≤ 2		≤ 1
DFT-s-OFDM 64 QAM	≤ 2.5		
DFT-s-OFDM 256 QAM	≤ 4.5		
CP-OFDM QPSK	≤ 3		≤ 1.5
CP-OFDM 16 QAM	≤ 3		≤ 2
CP-OFDM 64 QAM	≤ 3.5		
CP-OFDM 256 QAM	≤ 6.5		
NOTE 1: Applicable for UE operating in TDD mode with PI/2 BPSK modulation and UE indicates support for UE capability <i>powerBoosting-pi2BPSK</i> and if the IE <i>powerBoostPi2BPSK</i> is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0dB MPR is 26dBm.			
NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 and if the IE <i>powerBoostPi2BPSK</i> is set to 0 and if more than 40% of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.			

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01"

Table 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)

Network Signalling label	Requirements (subclause)	NR Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Table 5.3.2-1	N/A

Maximum Output Power (Tune-up Limit) for 5G NR (FR1)

According to April 2015 TCB workshop, SAR test exclusion can be applied for testing overlapping 5G NR(FR1) bands as follows:

- c) The maximum output power, including tolerance, for the smaller band must be $\leq$ the larger band to qualify for the SAR test exclusion.
- d) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.

- NR Band n2 (1850-1910 MHz) is covered by NR Band n25 (1850-1915 MHz)

Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.

SAR measurement is not required for the Pi/2 BPSK, 16QAM, 64QAM and 256QAM. When the highest maximum output power for Pi/2 BPSK, 16QAM, 64QAM and 256QAM is $\leq \frac{1}{2}$ dB higher than the QPSK or when the reported SAR for the QPSK configuration is ≤ 1.45 W/kg.

Please refer to section 6.5. for 5G NR(FR1) detail test channels.

RF Air interface	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
NR n2	QPSK	25.70	21.00	20.50	20.50	24.70	21.00	19.25	20.00
NR n5	QPSK	25.70	25.70	23.90	23.90				
NR n12	QPSK	25.70	25.70	23.90	23.90				
NR n25	QPSK	25.70	21.00	20.50	20.50	24.70	21.00	19.25	20.00
NR n41 (PC3)	QPSK	25.70	21.25	18.00	20.75	25.20	20.50	19.75	18.50
NR n41 (PC2)	QPSK	26.70	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NR n66	QPSK	25.70	19.25	21.50	21.00	24.70	21.25	21.00	21.50
NR n71	QPSK	25.70	25.70	23.90	23.90				
RF Air interface	Mode	Maximum Output Power (Tune-up Limit) (dBm)							
		ANT7		ANT8		ANT9		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
NR n77	QPSK	25.70	19.50	22.00	21.25	25.20	18.75	19.50	19.50

NR Band 12 Measured Results (ANT1)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					141300	141500	141700	MPR	Tune-up Limit	141300	141500	141700	MPR	Tune-up Limit
					706.5 MHz	707.5 MHz	708.5 MHz			706.5 MHz	707.5 MHz	708.5 MHz		
15 MHz	DFS-s OFDM	Pi/2 BPSK	1	1		25.45		0.0	25.70		25.45		0.0	25.70
			1	1		25.21		0.0	25.70		25.21		0.0	25.70
		QPSK	1	40		25.70		0.0	25.70		25.70		0.0	25.70
			1	77		25.43		0.0	25.70		25.43		0.0	25.70
			36	0		24.37		1.0	24.70		24.37		1.0	24.70
			36	22		25.70		0.0	25.70		25.70		0.0	25.70
			36	43		24.39		1.0	24.70		24.39		1.0	24.70
			75	0		24.37		1.0	24.70		24.37		1.0	24.70
			16QAM	1	1		24.40	1.0	24.70		24.40		1.0	24.70
		64QAM	1	1		22.88	2.5	23.20		22.88		2.5	23.20	
	256QAM	1	1		20.93	4.5	21.20		20.93		4.5	21.20		
	CP-OFDM	QPSK	1	1		23.87	1.5	24.20		23.87		1.5	24.20	
	BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)			
140800						141500	142200	MPR	Tune-up Limit	140800	141500	142200	MPR	Tune-up Limit
704 MHz						707.5 MHz	711 MHz			704 MHz	707.5 MHz	711 MHz		
10 MHz	DFS-s OFDM	Pi/2 BPSK	1	1		25.21		0.0	25.70		25.21		0.0	25.70
			1	1		25.29		0.0	25.70		25.29		0.0	25.70
		QPSK	1	26		25.48		0.0	25.70		25.48		0.0	25.70
			1	50		25.22		0.0	25.70		25.22		0.0	25.70
			25	0		24.46		1.0	24.70		24.46		1.0	24.70
			25	14		25.43		0.0	25.70		25.43		0.0	25.70
			25	27		24.42		1.0	24.70		24.42		1.0	24.70
			50	0		24.37		1.0	24.70		24.37		1.0	24.70
			16QAM	1	1		24.29	1.0	24.70		24.29		1.0	24.70
		64QAM	1	1		22.96	2.5	23.20		22.96		2.5	23.20	
	256QAM	1	1		20.73	4.5	21.20		20.73		4.5	21.20		
	CP-OFDM	QPSK	1	1		23.80	1.5	24.20		23.80		1.5	24.20	
	BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)			
140300						141500	142700	MPR	Tune-up Limit	140300	141500	142700	MPR	Tune-up Limit
701.5 MHz						707.5 MHz	713.5 MHz			701.5 MHz	707.5 MHz	713.5 MHz		
5 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	25.37	25.28	25.22	0.0	25.70	25.37	25.28	25.22	0.0	25.70
			1	1	25.24	25.30	25.42	0.0	25.70	25.24	25.30	25.42	0.0	25.70
		QPSK	1	13	25.44	25.44	25.49	0.0	25.70	25.44	25.44	25.49	0.0	25.70
			1	23	25.47	25.42	25.40	0.0	25.70	25.47	25.42	25.40	0.0	25.70
			12	0	24.26	24.37	24.39	1.0	24.70	24.26	24.37	24.39	1.0	24.70
			12	7	25.29	25.37	25.40	0.0	25.70	25.29	25.37	25.40	0.0	25.70
			12	13	24.44	24.20	24.39	1.0	24.70	24.44	24.20	24.39	1.0	24.70
			25	0	24.40	24.50	24.46	1.0	24.70	24.40	24.50	24.46	1.0	24.70
			16QAM	1	1	24.34	24.44	24.45	1.0	24.70	24.34	24.44	24.45	1.0
		64QAM	1	1	22.90	23.00	22.77	2.5	23.20	22.90	23.00	22.77	2.5	23.20
	256QAM	1	1	20.85	20.76	20.75	4.5	21.20	20.85	20.76	20.75	4.5	21.20	
	CP-OFDM	QPSK	1	1	23.87	23.99	23.88	1.5	24.20	23.87	23.99	23.88	1.5	24.20

NR Band 12 Measured Results (ANT2)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					141300	141500	141700	MPR	Tune-up Limit	141300	141500	141700	MPR	Tune-up Limit
					706.5 MHz	707.5 MHz	708.5 MHz			706.5 MHz	707.5 MHz	708.5 MHz		
15 MHz	DFS-s OFDM	Pi/2 BPSK	1	1		23.21		0.0	23.90		23.21		0.0	23.90
			1	1		23.35		0.0	23.90		23.35		0.0	23.90
		QPSK	1	40		23.90		0.0	23.90		23.90		0.0	23.90
			1	77		23.31		0.0	23.90		23.31		0.0	23.90
			36	0		22.22		1.0	22.90		22.22		1.0	22.90
			36	22		23.90		0.0	23.90		23.90		0.0	23.90
			36	43		22.30		1.0	22.90		22.30		1.0	22.90
			75	0		22.24		1.0	22.90		22.24		1.0	22.90
		16QAM	1	1		22.28	1.0	22.90		22.28	1.0	22.90		
		64QAM	1	1		20.95	2.5	21.40		20.95	2.5	21.40		
	256QAM	1	1		18.73	4.5	19.40		18.73	4.5	19.40			
	CP-OFDM	QPSK	1	1		21.84	1.5	22.40		21.84	1.5	22.40		
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					140800	141500	142200	MPR	Tune-up Limit	140800	141500	142200	MPR	Tune-up Limit
					704 MHz	707.5 MHz	711 MHz			704 MHz	707.5 MHz	711 MHz		
10 MHz	DFS-s OFDM	Pi/2 BPSK	1	1		23.29		0.0	23.90		23.29		0.0	23.90
			1	1		23.21		0.0	23.90		23.21		0.0	23.90
		QPSK	1	26		23.31		0.0	23.90		23.31		0.0	23.90
			1	50		23.47		0.0	23.90		23.47		0.0	23.90
			25	0		22.32		1.0	22.90		22.32		1.0	22.90
			25	14		23.38		0.0	23.90		23.38		0.0	23.90
			25	27		22.34		1.0	22.90		22.34		1.0	22.90
			50	0		22.46		1.0	22.90		22.46		1.0	22.90
		16QAM	1	1		22.46	1.0	22.90		22.46	1.0	22.90		
		64QAM	1	1		20.70	2.5	21.40		20.70	2.5	21.40		
	256QAM	1	1		19.00	4.5	19.40		19.00	4.5	19.40			
	CP-OFDM	QPSK	1	1		21.80	1.5	22.40		21.80	1.5	22.40		
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					140300	141500	142700	MPR	Tune-up Limit	140300	141500	142700	MPR	Tune-up Limit
					701.5 MHz	707.5 MHz	713.5 MHz			701.5 MHz	707.5 MHz	713.5 MHz		
5 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	23.35	23.37	23.28	0.0	23.90	23.35	23.37	23.28	0.0	23.90
			1	1	23.23	23.26	23.29	0.0	23.90	23.23	23.26	23.29	0.0	23.90
		QPSK	1	13	23.36	23.24	23.37	0.0	23.90	23.36	23.24	23.37	0.0	23.90
			1	23	23.21	23.26	23.32	0.0	23.90	23.21	23.26	23.32	0.0	23.90
			12	0	22.48	22.31	22.23	1.0	22.90	22.48	22.31	22.23	1.0	22.90
			12	7	23.26	23.36	23.27	0.0	23.90	23.26	23.36	23.27	0.0	23.90
			12	13	22.24	22.39	22.43	1.0	22.90	22.24	22.39	22.43	1.0	22.90
			25	0	22.25	22.29	22.27	1.0	22.90	22.25	22.29	22.27	1.0	22.90
		16QAM	1	1	22.44	22.32	22.33	1.0	22.90	22.44	22.32	22.33	1.0	22.90
		64QAM	1	1	20.78	20.87	20.88	2.5	21.40	20.78	20.87	20.88	2.5	21.40
		256QAM	1	1	18.92	18.96	18.96	4.5	19.40	18.92	18.96	18.96	4.5	19.40
		CP-OFDM	QPSK	1	1	21.98	21.94	21.82	1.5	22.40	21.98	21.94	21.82	1.5

NR Band 41 Measured Results (ANT1) (continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					501200	509900	518600	527300	536000	MFR	Tune-up Limit	501200	509900	518600	527300	536000	MFR	Tune-up Limit
					2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	DFS-s OFDM	P2 BPSK	1	1	25.03	24.97	24.93	25.12	25.03	0.0	25.70	21.12	20.92	21.16	20.97	21.11	0.0	21.25
			1	1	25.19	25.03	24.95	25.08	24.98	0.0	25.70	21.14	21.19	21.03	21.08	21.12	0.0	21.25
		QPSK	1	26	25.07	25.03	25.06	25.02	25.02	0.0	25.70	21.01	21.18	21.13	20.90	20.94	0.0	21.25
			1	49	25.11	24.98	25.07	24.91	25.01	0.0	25.70	21.13	21.02	21.19	20.95	21.08	0.0	21.25
			25	0	24.09	24.11	23.98	24.01	24.05	1.0	24.70	21.11	21.05	20.96	20.92	21.11	0.0	21.25
			25	13	24.93	25.05	25.08	25.10	25.00	0.0	25.70	20.95	20.92	21.13	21.01	21.07	0.0	21.25
			25	26	23.90	24.13	24.15	24.10	23.95	1.0	24.70	21.06	21.02	20.99	21.02	20.94	0.0	21.25
			50	0	24.12	24.16	24.05	24.07	24.15	1.0	24.70	20.91	20.97	21.18	20.98	21.14	0.0	21.25
			16QAM	1	1	23.98	24.16	24.10	24.10	1.0	24.70	20.90	21.09	21.20	20.91	20.94	0.0	21.25
			64QAM	1	1	22.69	22.49	22.55	22.54	2.5	23.20	21.12	20.98	20.97	21.18	21.12	0.0	21.25
			256QAM	1	1	20.59	20.49	20.43	20.53	4.5	21.20	20.90	21.01	21.10	21.18	20.93	0.0	21.25
	CP-OFDM	QPSK	1	1	23.46	23.68	23.65	23.56	23.46	1.5	24.20	20.94	21.19	20.97	21.11	21.07	0.0	21.25

NR Band 41 Measured Results (ANT2) (continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					501200	509900	518600	527300	536000	MFR	Tune-up Limit	501200	509900	518600	527300	536000	MFR	Tune-up Limit
					2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	DFS-s OFDM	P2 BPSK	1	1	17.63	17.89	17.68	17.81	17.65	0.0	18.00	20.45	20.55	20.67	20.42	20.57	0.0	20.75
			1	1	17.71	17.87	17.67	17.76	17.74	0.0	18.00	20.42	20.58	20.58	20.62	20.61	0.0	20.75
		QPSK	1	26	17.72	17.80	17.63	17.72	17.71	0.0	18.00	20.65	20.52	20.52	20.47	20.44	0.0	20.75
			1	49	17.63	17.62	17.62	17.80	17.85	0.0	18.00	20.62	20.48	20.59	20.64	20.48	0.0	20.75
			25	0	17.74	17.74	17.88	17.89	17.86	0.0	18.00	20.52	20.51	20.55	20.53	20.67	0.0	20.75
			25	13	17.70	17.67	17.90	17.79	17.85	0.0	18.00	20.66	20.66	20.58	20.66	20.53	0.0	20.75
			25	26	17.77	17.84	17.89	17.63	17.75	0.0	18.00	20.42	20.67	20.66	20.52	20.52	0.0	20.75
			50	0	17.66	17.62	17.87	17.82	17.85	0.0	18.00	20.49	20.59	20.54	20.54	20.57	0.0	20.75
			16QAM	1	1	17.71	17.81	17.75	17.72	0.0	18.00	20.54	20.69	20.52	20.64	20.67	0.0	20.75
			64QAM	1	1	17.69	17.64	17.85	17.70	0.0	18.00	20.49	20.65	20.40	20.50	20.58	0.0	20.75
			256QAM	1	1	17.72	17.69	17.69	17.83	0.0	18.00	20.63	20.55	20.66	20.46	20.48	0.0	20.75
	CP-OFDM	QPSK	1	1	17.69	17.66	17.76	17.77	17.79	0.0	18.00	20.45	20.46	20.50	20.55	20.69	0.0	20.75

NR Band 41 Measured Results (ANT3) (continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					501200 2506 MHz	509900 2549.5 MHz	518600 2593 MHz	527300 2636.5 MHz	536000 2680 MHz	MFR	Tune-up Limit	501200 2506 MHz	509900 2549.5 MHz	518600 2593 MHz	527300 2636.5 MHz	536000 2680 MHz	MFR	Tune-up Limit
20 MHz	DFS-s OFDM	PQ2 BPSK	1	1	24.87	24.75	24.70	24.83	24.90	0	25.20	20.37	20.31	20.11	20.17	20.32	0	20.50
			1	1	24.79	24.89	24.73	24.80	24.92	0	25.20	20.35	20.30	20.32	20.27	20.31	0	20.50
		QPSK	1	26	24.73	24.89	24.70	24.81	24.80	0	25.20	20.27	20.40	20.37	20.23	20.21	0	20.50
			1	49	24.75	24.92	24.87	24.87	24.97	0	25.20	20.25	20.23	20.33	20.14	20.24	0	20.50
			25	0	23.72	23.92	23.96	23.75	23.85	1	24.20	20.31	20.17	20.23	20.10	20.17	0	20.50
			25	13	24.99	24.79	24.88	24.96	24.84	0	25.20	20.13	20.29	20.18	20.35	20.39	0	20.50
			25	26	23.88	23.71	23.74	23.84	23.76	1	24.20	20.35	20.27	20.23	20.14	20.36	0	20.50
			50	0	23.93	23.85	23.90	23.80	23.82	1	24.20	20.17	20.12	20.13	20.32	20.32	0	20.50
			1	1	23.72	23.71	23.95	23.93	23.79	1	24.20	20.31	20.40	20.28	20.31	20.37	0	20.50
		64QAM	1	1	22.41	22.39	22.40	22.36	22.49	2.5	22.70	20.27	20.33	20.28	20.32	20.32	0	20.50
		256QAM	1	1	20.35	20.45	20.41	20.48	20.28	4.5	20.70	20.21	20.22	20.30	20.39	20.13	0	20.50
	CP-OFDM	QPSK	1	1	23.32	23.20	23.31	23.30	23.24	1.5	23.70	20.30	20.33	20.27	20.33	20.24	0	20.50

NR Band 41 Measured Results (ANT4) (continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)							
					501200	509900	518600	527300	536000	MFR	Tune-up Limit	501200	509900	518600	527300	536000	MFR	Tune-up Limit	
					2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			
20 MHz	DFS-s OFDM	F2 BPSK	1	1	19.25	19.50	19.46	19.35	19.52	0	19.75	18.13	18.03	18.26	18.21	18.19	0	18.50	
			1	1	19.31	19.48	19.37	19.44	19.47	0	19.75	18.10	18.09	18.02	18.11	18.29	0	18.50	
		QPSK	1	26	19.51	19.27	19.36	19.41	19.42	0	19.75	18.19	18.17	18.10	18.24	18.05	0	18.50	
			1	49	19.52	19.27	19.33	19.33	19.32	0	19.75	18.30	18.13	18.16	18.00	18.05	0	18.50	
			25	0	19.45	19.40	19.32	19.35	19.30	0	19.75	18.12	18.15	18.13	18.15	18.27	0	18.50	
			25	13	19.28	19.28	19.36	19.52	19.27	0	19.75	18.19	18.07	18.19	18.06	18.06	0	18.50	
			25	26	19.31	19.39	19.49	19.53	19.45	0	19.75	18.11	18.15	18.23	18.00	18.27	0	18.50	
			50	0	19.29	19.40	19.26	19.31	19.41	0	19.75	18.18	18.22	18.18	18.02	18.21	0	18.50	
			16QAM	1	1	19.48	19.41	19.31	19.37	19.25	0	19.75	18.04	18.06	18.11	18.04	18.13	0	18.50
			64QAM	1	1	19.36	19.48	19.31	19.38	19.42	0	19.75	18.18	18.13	18.18	18.25	18.11	0	18.50
			256QAM	1	1	19.50	19.28	19.32	19.42	19.47	0	19.75	18.14	18.22	18.12	18.22	18.15	0	18.50
	CP-OFDM	QPSK	1	1	19.36	19.37	19.45	19.28	19.51	0	19.75	18.22	18.14	18.18	18.17	18.16	0	18.50	

NR Band 71 Measured Results (ANT1)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					134600	136100	137600	MPR	Tune-up Limit	134600	136100	137600	MPR	Tune-up Limit
					673 MHz	680.5 MHz	688 MHz			673 MHz	680.5 MHz	688 MHz		
20 MHz	DFS-s OFDM	Pi/2 BPSK	1	1		25.31		0.0	25.70		25.31		0.0	25.70
			1	1		25.44		0.0	25.70		25.44		0.0	25.70
		QPSK	1	53		25.70		0.0	25.70		25.70		0.0	25.70
			1	104		25.43		0.0	25.70		25.43		0.0	25.70
			50	0		24.44		1.0	24.70		24.44		1.0	24.70
			50	28		25.70		0.0	25.70		25.70		0.0	25.70
			50	56		24.28		1.0	24.70		24.28		1.0	24.70
			100	0		24.33		1.0	24.70		24.33		1.0	24.70
		16QAM	1	1		24.31		1.0	24.70		24.31		1.0	24.70
		64QAM	1	1		22.95		2.5	23.20		22.95		2.5	23.20
		256QAM	1	1		20.81		4.5	21.20		20.81		4.5	21.20
	CP-OFDM	QPSK	1	1		23.87		1.5	24.20		23.87		1.5	24.20
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					134100	136100	138100	MPR	Tune-up Limit	134100	136100	138100	MPR	Tune-up Limit
					670.5 MHz	680.5 MHz	690.5 MHz			670.5 MHz	680.5 MHz	690.5 MHz		
15 MHz	DFS-s OFDM	Pi/2 BPSK	1	1		25.31		0.0	25.70		25.31		0.0	25.70
			1	1		25.44		0.0	25.70		25.44		0.0	25.70
		QPSK	1	40		25.20		0.0	25.70		25.20		0.0	25.70
			1	77		25.43		0.0	25.70		25.43		0.0	25.70
			36	0		24.44		1.0	24.70		24.44		1.0	24.70
			36	22		25.28		0.0	25.70		25.28		0.0	25.70
			36	43		24.28		1.0	24.70		24.28		1.0	24.70
			75	0		24.33		1.0	24.70		24.33		1.0	24.70
		16QAM	1	1		24.31		1.0	24.70		24.31		1.0	24.70
		64QAM	1	1		22.95		2.5	23.20		22.95		2.5	23.20
		256QAM	1	1		20.81		4.5	21.20		20.81		4.5	21.20
	CP-OFDM	QPSK	1	1		23.87		1.5	24.20		23.87		1.5	24.20
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					133600	136100	138600	MPR	Tune-up Limit	133600	136100	138600	MPR	Tune-up Limit
					668 MHz	680.5 MHz	693 MHz			668 MHz	680.5 MHz	693 MHz		
10 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	25.38	25.31	25.38	0.0	25.70	25.38	25.31	25.38	0.0	25.70
			1	1	25.39	25.44	25.39	0.0	25.70	25.39	25.44	25.39	0.0	25.70
		QPSK	1	26	25.42	25.20	25.40	0.0	25.70	25.42	25.20	25.40	0.0	25.70
			1	50	25.22	25.43	25.44	0.0	25.70	25.22	25.43	25.44	0.0	25.70
			25	0	24.48	24.44	24.35	1.0	24.70	24.48	24.44	24.35	1.0	24.70
			25	14	25.36	25.28	25.37	0.0	25.70	25.36	25.28	25.37	0.0	25.70
			25	27	24.42	24.28	24.48	1.0	24.70	24.42	24.28	24.48	1.0	24.70
			50	0	24.46	24.33	24.44	1.0	24.70	24.46	24.33	24.44	1.0	24.70
		16QAM	1	1	24.37	24.31	24.49	1.0	24.70	24.37	24.31	24.49	1.0	24.70
		64QAM	1	1	22.74	22.95	22.93	2.5	23.20	22.74	22.95	22.93	2.5	23.20
		256QAM	1	1	20.93	20.81	20.95	4.5	21.20	20.93	20.81	20.95	4.5	21.20
	CP-OFDM	QPSK	1	1	23.78	23.87	23.76	1.5	24.20	23.78	23.87	23.76	1.5	24.20
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					133100	136100	139100	MPR	Tune-up Limit	133100	136100	139100	MPR	Tune-up Limit
					665.5 MHz	680.5 MHz	695.5 MHz			665.5 MHz	680.5 MHz	695.5 MHz		
5 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	25.38	25.31	25.38	0.0	25.70	25.38	25.31	25.38	0.0	25.70
			1	1	25.39	25.44	25.39	0.0	25.70	25.39	25.44	25.39	0.0	25.70
		QPSK	1	13	25.42	25.20	25.40	0.0	25.70	25.42	25.20	25.40	0.0	25.70
			1	23	25.22	25.43	25.44	0.0	25.70	25.22	25.43	25.44	0.0	25.70
			12	0	24.48	24.44	24.35	1.0	24.70	24.48	24.44	24.35	1.0	24.70
			12	7	25.36	25.28	25.37	0.0	25.70	25.36	25.28	25.37	0.0	25.70
			12	13	24.42	24.28	24.48	1.0	24.70	24.42	24.28	24.48	1.0	24.70
			25	0	24.46	24.33	24.44	1.0	24.70	24.46	24.33	24.44	1.0	24.70
		16QAM	1	1	24.37	24.31	24.49	1.0	24.70	24.37	24.31	24.49	1.0	24.70
		64QAM	1	1	22.74	22.95	22.93	2.5	23.20	22.74	22.95	22.93	2.5	23.20
		256QAM	1	1	20.93	20.81	20.95	4.5	21.20	20.93	20.81	20.95	4.5	21.20
	CP-OFDM	QPSK	1	1	23.78	23.87	23.76	1.5	24.20	23.78	23.87	23.76	1.5	24.20

NR Band 77 Measured Results (ANT7) (continued)

Power Mode A (dBm)																		Power Mode B (dBm)									
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	648000	652000	656000	660000	664000	MFR	Tune-up Limit	648000	652000	656000	660000	664000	MFR	Tune-up Limit									
					3720 MHz	3780 MHz	3840 MHz	3900 MHz	3960 MHz			3720 MHz	3780 MHz	3840 MHz	3900 MHz	3960 MHz											
40 MHz	DFS-s OFDM	PI2 BPSK	1	1	25.10	25.07	24.91	24.96	25.08	0.0	25.70	19.08	19.06	18.99	19.02	18.98	0.0	19.50									
			1	1	25.13	24.92	25.07	25.14	25.01	0.0	25.70	18.96	19.18	19.15	19.13	18.95	0.0	19.50									
		QPSK	1	53	25.11	25.07	25.01	25.16	25.00	0.0	25.70	19.15	18.91	19.19	19.13	19.02	0.0	19.50									
			1	104	25.03	25.08	25.01	25.11	25.02	0.0	25.70	19.19	18.92	19.18	18.98	19.17	0.0	19.50									
			50	0	23.98	24.02	24.03	24.00	24.16	1.0	24.70	19.04	19.17	19.12	18.94	18.98	0.0	19.50									
			50	28	25.09	24.93	25.08	25.18	24.95	0.0	25.70	19.14	19.04	19.05	19.17	18.98	0.0	19.50									
			50	56	24.02	23.93	24.16	23.93	23.92	1.0	24.70	19.00	18.90	18.91	19.11	18.97	0.0	19.50									
			100	0	24.00	24.14	24.00	24.00	24.13	1.0	24.70	18.94	19.07	19.01	18.98	19.01	0.0	19.50									
			16QAM	1	1	24.02	23.98	23.91	24.17	24.01	1.0	24.70	19.02	19.01	19.14	18.95	18.97	0.0	19.50								
			64QAM	1	1	22.59	22.58	22.60	22.69	22.66	2.5	23.20	19.08	19.17	19.07	19.09	19.04	0.0	19.50								
256QAM	1	1	20.69	20.47	20.66	20.66	20.46	4.5	21.20	19.11	19.10	18.95	19.04	18.98	0.0	19.50											
CP-OFDM	QPSK	1	1	23.66	23.45	23.48	23.54	23.53	1.5	24.20	19.17	19.17	19.00	19.07	19.01	0.0	19.50										
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)															
					647334 3710.01 MHz	651666 3774.99 MHz	656000 3840 MHz	660266 3903.99 MHz	664666 3969.99 MHz	MFR	Tune-up Limit	647334 3710.01 MHz	651666 3774.99 MHz	656000 3840 MHz	660266 3903.99 MHz	664666 3969.99 MHz	MFR	Tune-up Limit									
20 MHz	DFS-s OFDM	PI2 BPSK	1	1	25.04	24.95	25.05	25.18	24.99			0.0	25.70	19.11	18.90	18.93			19.04	18.95	0.0	19.50					
			1	1	25.18	25.04	25.00	25.17	25.07	0.0	25.70	19.09	19.01	19.08	19.17	19.09	0.0	19.50									
		QPSK	1	26	24.91	25.16	25.19	25.02	25.19	0.0	25.70	18.93	19.12	19.04	19.10	18.94	0.0	19.50									
			1	49	25.05	25.09	25.15	25.07	24.91	0.0	25.70	19.13	18.96	19.19	19.15	19.06	0.0	19.50									
			25	0	23.96	24.01	23.95	24.17	24.19	1.0	24.70	18.99	18.99	18.98	19.18	19.00	0.0	19.50									
			25	13	25.17	25.15	25.02	25.09	25.09	0.0	25.70	18.97	18.95	19.05	19.12	18.93	0.0	19.50									
			25	26	24.05	23.91	24.08	24.00	24.10	1.0	24.70	18.91	19.15	19.19	19.13	19.12	0.0	19.50									
			50	0	24.18	24.13	23.97	24.03	24.05	1.0	24.70	19.14	19.10	19.15	18.98	18.92	0.0	19.50									
			16QAM	1	1	24.05	23.98	24.07	24.06	24.05	1.0	24.70	19.00	18.97	19.10	18.98	19.15	0.0	19.50								
			64QAM	1	1	22.63	22.42	22.64	22.43	22.42	2.5	23.20	19.19	19.01	19.03	19.05	19.13	0.0	19.50								
256QAM	1	1	20.55	20.49	20.40	20.50	20.67	4.5	21.20	19.14	19.03	19.14	19.12	19.00	0.0	19.50											
CP-OFDM	QPSK	1	1	23.65	23.43	23.58	23.56	23.61	1.5	24.20	18.93	19.10	18.96	19.17	19.10	0.0	19.50										

NR Band 77 Measured Results (ANT8) (continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					647334	651666	656000	660266	664666	MPR	Tune-up Limit	647334	651666	656000	660266	664666	MPR	Tune-up Limit
					3710.01 MHz	3774.99 MHz	3840 MHz	3903.99 MHz	3969.99 MHz			3710.01 MHz	3774.99 MHz	3840 MHz	3903.99 MHz	3969.99 MHz		
20 MHz	DFS-s OFDM	PI2 BPSK	1	1	21.76	21.53	21.54	21.52	21.76	0.0	22.00	20.91	21.04	20.82	20.90	20.91	0.0	21.25
			1	1	21.50	21.73	21.56	21.76	21.58	0.0	22.00	20.90	20.92	20.86	21.04	20.83	0.0	21.25
		QPSK	1	26	21.51	21.63	21.72	21.68	21.72	0.0	22.00	21.10	20.94	20.92	20.86	20.85	0.0	21.25
			1	49	21.58	21.52	21.74	21.69	21.75	0.0	22.00	20.94	20.97	20.85	20.98	21.08	0.0	21.25
			25	0	21.65	21.68	21.57	21.68	21.51	0.0	22.00	21.09	20.96	20.96	21.06	21.04	0.0	21.25
			25	13	21.63	21.59	21.64	21.69	21.66	0.0	22.00	20.83	21.02	20.98	20.80	20.89	0.0	21.25
			25	26	21.59	21.80	21.52	21.69	21.73	0.0	22.00	21.09	21.08	20.85	21.06	20.93	0.0	21.25
			50	0	21.57	21.56	21.69	21.74	21.50	0.0	22.00	20.85	21.10	20.92	21.06	20.86	0.0	21.25
		16QAM	1	1	21.71	21.52	21.72	21.63	21.51	0.0	22.00	20.85	21.04	20.85	20.99	20.99	0.0	21.25
		64QAM	1	1	21.76	21.55	21.73	21.67	21.62	0.0	22.00	21.09	20.89	20.92	20.92	21.08	0.0	21.25
		256QAM	1	1	21.58	21.77	21.61	21.76	21.67	0.0	22.00	20.86	21.01	21.08	21.02	21.09	0.0	21.25
	CP-OFDM	QPSK	1	1	21.67	21.79	21.58	21.73	21.80	0.0	22.00	21.00	20.92	20.81	21.03	20.98	0.0	21.25

NR Band 77 Measured Results (ANT9) (continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					647334 3710.01 MHz	651666 3774.99 MHz	656000 3840 MHz	660266 3903.99 MHz	664666 3969.99 MHz	MFR	Tune-up Limit	647334 3710.01 MHz	651666 3774.99 MHz	656000 3840 MHz	660266 3903.99 MHz	664666 3969.99 MHz	MFR	Tune-up Limit
20 MHz	DFS-s OFDM	PI/2 BPSK	1	1	24.99	24.74	24.95	24.72	24.87	0	25.20	18.41	18.46	18.49	18.24	18.31	0	18.75
			1	1	24.73	24.86	24.78	24.85	24.90	0	25.20	18.41	18.21	18.31	18.25	18.32	0	18.75
			1	26	24.72	24.89	24.84	24.79	24.77	0	25.20	18.22	18.39	18.32	18.28	18.32	0	18.75
			1	49	24.78	24.85	24.93	24.89	24.95	0	25.20	18.21	18.42	18.20	18.45	18.45	0	18.75
			25	0	23.99	23.71	23.86	23.96	23.81	0.7	24.50	18.22	18.41	18.41	18.42	18.35	0	18.75
			25	13	24.77	24.88	24.72	24.92	25.00	0	25.20	18.28	18.32	18.38	18.49	18.26	0	18.75
			25	26	23.97	23.92	23.94	23.84	23.70	0.7	24.50	18.30	18.26	18.23	18.50	18.38	0	18.75
			50	0	23.79	23.96	23.87	23.88	23.77	0.7	24.50	18.43	18.41	18.39	18.34	18.47	0	18.75
		QPSK	1	1	23.79	23.81	23.73	23.90	23.90	1	24.20	18.42	18.32	18.47	18.45	18.22	0	18.75
			1	1	22.24	22.29	22.48	22.40	22.38	2.5	22.70	18.36	18.48	18.22	18.36	18.27	0	18.75
			1	1	20.45	20.35	20.46	20.34	20.31	4.5	20.70	18.37	18.29	18.40	18.30	18.23	0	18.75
			1	1	23.36	23.48	23.43	23.20	23.23	1.5	23.70	18.32	18.43	18.29	18.44	18.20	0	18.75
	CP-OFDM	QPSK	1	1	23.36	23.48	23.43	23.20	23.23	1.5	23.70	18.32	18.43	18.29	18.44	18.20	0	18.75

NR Band 77 Measured Results (ANT4) (continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					647334 3710.01 MHz	651666 3774.99 MHz	656000 3840 MHz	660266 3903.99 MHz	664666 3969.99 MHz	MPR	Tune-up Limit	647334 3710.01 MHz	651666 3774.99 MHz	656000 3840 MHz	660266 3903.99 MHz	664666 3969.99 MHz	MPR	Tune-up Limit
20 MHz	DFS-s OFDM	PI2 BPSK	1	1	19.38	19.28	19.26	19.49	19.43	0.0	19.50	19.38	19.28	19.26	19.49	19.43	0.0	19.50
			1	1	19.43	19.23	19.40	19.35	19.28	0.0	19.50	19.43	19.23	19.40	19.35	19.28	0.0	19.50
		QPSK	1	26	19.44	19.50	19.36	19.24	19.38	0.0	19.50	19.44	19.50	19.36	19.24	19.38	0.0	19.50
			1	49	19.41	19.31	19.38	19.29	19.41	0.0	19.50	19.41	19.31	19.38	19.29	19.41	0.0	19.50
			25	0	19.41	19.45	19.42	19.40	19.26	0.0	19.50	19.41	19.45	19.42	19.40	19.26	0.0	19.50
			25	13	19.42	19.44	19.35	19.36	19.45	0.0	19.50	19.42	19.44	19.35	19.36	19.45	0.0	19.50
			25	26	19.41	19.33	19.45	19.37	19.34	0.0	19.50	19.41	19.33	19.45	19.37	19.34	0.0	19.50
			50	0	19.37	19.46	19.36	19.46	19.41	0.0	19.50	19.37	19.46	19.36	19.46	19.41	0.0	19.50
			16QAM	1	1	19.23	19.26	19.48	19.28	0.0	19.50	19.23	19.26	19.48	19.28	19.23	0.0	19.50
			64QAM	1	1	19.42	19.44	19.42	19.41	0.0	19.50	19.42	19.44	19.42	19.41	19.43	0.0	19.50
			256QAM	1	1	19.29	19.49	19.50	19.32	0.0	19.50	19.29	19.49	19.50	19.32	19.22	0.0	19.50
	CP-OFDM	QPSK	1	1	19.32	19.31	19.39	19.45	19.43	0.0	19.50	19.32	19.31	19.39	19.45	19.43	0.0	19.50

9.8. Wi-Fi 2.4GHz (DTS Band)

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 b/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. g, n, ac, then ax) is selected. Therefore the SAR measurements performed for the 802.11b modes, as the lowest order modulation, cover 802.11g/n/ac/ax modes.

According to KDB 248227 D01, simultaneous SAR provisions in KDB 447498 D01 apply to determine simultaneous transmission SAR test exclusion for Wi-Fi MIMO. If the sum of 1-g single transmission chain SAR measurements is <1.6W/kg and/or the MIMO output power is equal or less than a single chain, then no additional SAR measurements for simultaneously at the specified maximum output power of MIMO operation.

When antennas are spatially separated to the extent that SAR distributions do not overlap and can be treated independently, SAR compliance for simultaneous transmission is determined separately for each individual antenna.

Maximum Power

The table below is the Maximum power for this device. The highlighted values indicates what the overall worst case transmission mode will be required for SAR testing per channel. In the Wi-Fi 2.4 GHz (Pcell_OFF and Pcell_ON) table, the highlighted worst case Low/Mid/High channels are selected for Mode A and Mode B.

Channel	Frequency (MHz)	ANT3											
		b (SISO)	g (SISO)	11n/11ac HT20 (SISO)	11ax HE20 SU (SISO)	11ax HE20 RU106 (SISO)	11ax HE20 RU52 (SISO)	11ax HE20 RU26 (SISO)	11n/11ac HT20 (MIMO)	11ax HE20 SU (MIMO)	11ax HE20 RU106 (MIMO)	11ax HE20 RU52 (MIMO)	11ax HE20 RU26 (MIMO)
1	2412	21.50	16.50	16.50	16.00	16.00	16.00	16.00	16.00	15.00	15.00	15.00	15.00
2	2417	21.50	19.50	19.50	18.00	18.00	18.00	18.00	18.50	17.00	17.00	17.00	17.00
3	2422	21.50	21.00	21.00	20.00	20.00	20.00	20.00	20.00	19.00	19.00	19.00	19.00
4	2427	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	20.00
5	2432	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	20.00
6	2437	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	20.00
7	2442	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	20.00
8	2447	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	20.00
9	2452	21.50	20.50	20.50	20.00	20.00	20.00	20.00	19.50	18.50	18.50	18.50	18.50
10	2457	21.50	19.50	19.50	18.00	18.00	18.00	18.00	18.50	17.00	17.00	17.00	17.00
11	2462	21.50	17.50	17.50	16.00	16.00	16.00	16.00	16.50	15.00	15.00	15.00	15.00
12	2467	21.50	15.50	15.50	14.00	14.00	14.00	14.00	14.00	12.50	12.50	12.50	12.50
13	2472	21.50	15.00	15.00	10.00	7.00	4.00	1.00	14.50	9.00	6.00	3.00	0.00
Channel	Frequency (MHz)	ANT4											
		b (SISO)	g (SISO)	11n/11ac HT20 (SISO)	11ax HE20 SU (SISO)	11ax HE20 RU106 (SISO)	11ax HE20 RU52 (SISO)	11ax HE20 RU26 (SISO)	11n/11ac HT20 (MIMO)	11ax HE20 SU (MIMO)	11ax HE20 RU106 (MIMO)	11ax HE20 RU52 (MIMO)	11ax HE20 RU26 (MIMO)
1	2412	20.50	16.50	16.50	16.00	16.00	16.00	16.00	16.00	15.00	15.00	15.00	15.00
2	2417	20.50	19.50	19.50	18.00	18.00	18.00	18.00	18.50	17.00	17.00	17.00	17.00
3	2422	20.50	20.50	20.50	20.00	20.00	20.00	20.00	20.00	19.00	19.00	19.00	19.00
4	2427	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.00
5	2432	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.00
6	2437	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.00
7	2442	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.00
8	2447	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.00
9	2452	20.50	20.50	20.50	20.00	20.00	20.00	20.00	19.50	18.50	18.50	18.50	18.50
10	2457	20.50	19.50	19.50	18.00	18.00	18.00	18.00	18.50	17.00	17.00	17.00	17.00
11	2462	20.50	17.50	17.50	16.00	16.00	16.00	16.00	16.50	15.00	15.00	15.00	15.00
12	2467	20.50	15.50	15.50	14.00	14.00	14.00	14.00	14.00	12.50	12.50	12.50	12.50
13	2472	20.50	15.00	15.00	10.00	7.00	4.00	1.00	14.50	9.00	6.00	3.00	0.00

Wi-Fi 2.4 GHz ($P_{\text{cell OFF}}$ and $P_{\text{cell ON}}$)

For 2.4 GHz band, there are two use cases:

- $P_{\text{cell ON}}$: This will be used when both WWAN and Wi-Fi radios are ON.
- $P_{\text{cell OFF}}$: This will be used when only Wi-Fi radio is ON

Mode	Channel	Frequency (MHz)	$P_{\text{cell OFF}}$				$P_{\text{cell ON}}$			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11b DSSS (SISO)	1	2412	21.50	21.50	20.50	20.50	21.50	18.50	16.50	18.00
	2	2417	21.50	21.50	20.50	20.50	21.50	18.50	16.50	18.00
	3	2422	21.50	21.50	20.50	20.50	21.50	18.50	16.50	18.00
	4	2427	21.50	21.50	20.50	20.50	21.50	18.50	16.50	18.00
	5	2432	21.50	21.50	20.50	20.50	21.50	18.50	16.50	18.00
	6	2437	21.50	21.50	20.50	20.50	21.50	18.50	16.50	18.00
	7	2442	21.50	21.50	20.50	20.50	21.50	18.50	16.50	18.00
	8	2447	21.50	21.50	20.50	20.50	21.50	18.50	16.50	18.00
	9	2452	21.50	21.50	20.50	20.50	21.50	18.50	16.50	18.00
	10	2457	21.50	21.50	20.50	20.50	21.50	18.50	16.50	18.00
	11	2462	21.50	21.50	20.50	20.50	21.50	18.50	16.50	18.00
	12	2467	21.50	21.50	20.50	20.50	21.50	18.50	16.50	18.00
	13	2472	21.50	21.50	20.50	20.50	21.50	18.50	16.50	18.00

Wi-Fi 2.4GHz Measured Results

The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11g/n/ac/ax mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

SAR testing is not required for OFDM mode(s) when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

Power Mode	Antenna	Mode	Power Mode A					Power Mode B				
			Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)
Pcell OFF	ANT3	DSSS 802.11b	1	2412	21.50	21.50	Yes	1	2412	21.50	21.50	Yes
			6	2437	21.50	21.50		6	2437	21.50	21.50	
			11	2462	21.50	21.50		11	2462	21.50	21.50	
	ANT4	DSSS 802.11b	1	2412	20.50	20.50	Yes	1	2412	20.50	20.50	Yes
			6	2437	20.50	20.50		6	2437	20.50	20.50	
			11	2462	20.50	20.50		11	2462	20.50	20.50	
Power Mode	Antenna	Mode	Power Mode A					Power Mode B				
			Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)
Pcell ON	ANT3	DSSS 802.11b	1	2412	21.50	21.50	Yes	1	2412	18.50	18.50	Yes
			6	2437	21.50	21.50		6	2437	18.50	18.50	
			11	2462	21.50	21.50		11	2462	18.50	18.50	
	ANT4	DSSS 802.11b	1	2412	16.50	16.50	Yes	1	2412	18.00	18.00	Yes
			6	2437	16.50	16.50		6	2437	18.00	18.00	
			11	2462	16.50	16.50		11	2462	18.00	18.00	

Note(s):

SAR is not required for channel 12 and 13 because the tune-up limit and the measured output power for these two channels are not greater than those for the default test channels. Refer to KDB 248227 D01 section 3.1

9.9. Wi-Fi 5GHz (U-NII Bands)

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, n, ac then ax) is selected. Therefore the SAR measurements performed for the 802.11n/ac modes, as the lowest order modulation, cover 802.11ax modes.

When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is ≤ 1.2 W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.

According to KDB 248227 D01, simultaneous SAR provisions in KDB 447498 D01 apply to determine simultaneous transmission SAR test exclusion for Wi-Fi MIMO. If the sum of 1-g single transmission chain SAR measurements is <1.6 W/kg and/or the MIMO output power is equal or less than a single chain, then no additional SAR measurements for simultaneously at the specified maximum output power of MIMO operation.

When antennas are spatially separated to the extent that SAR distributions do not overlap and can be treated independently, SAR compliance for simultaneous transmission is determined separately for each individual antenna.

Maximum Power

The table below is the Maximum power for this device. The highlighted values indicates what the overall worst case transmission mode will be required for SAR testing per channel. In the Wi-Fi 5 GHz (Pcell_OFF and Pcell_ON) table, the highlighted worst case Low/Mid/High channels are selected for Mode A and Mode B.

ANT5														
Band	Bandwidth	Channel	Frequency (MHz)	a (SISO)	11n/11ac HT (SISO)	11ax HE SU (SISO)	11ax HE RU106 (SISO)	11ax HE RU52 (SISO)	11ax HE RU26 (SISO)	11n/11ac HT (MIMO)	11ax HE SU (MIMO)	11ax HE RU106 (MIMO)	11ax HE RU52 (MIMO)	11ax HE RU26 (MIMO)
U-NII-1	20 MHz	36	5180	19.00	19.00	18.00	18.00	15.00	12.00	18.00	17.00	15.00	12.00	9.00
		40	5200	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		44	5220	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		48	5240	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
	40 MHz	38	5190		16.50	16.00	16.00	15.00	12.00	16.00	15.50	15.00	12.00	9.00
		46	5230		21.50	21.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
	80 MHz	42	5210		15.50	15.50	15.50	15.00	12.00	14.50	14.50	15.00	12.00	9.00
Band	Bandwidth	Channel	Frequency (MHz)	a (SISO)	11n/11ac HT (SISO)	11ax HE SU (SISO)	11ax HE RU106 (SISO)	11ax HE RU52 (SISO)	11ax HE RU26 (SISO)	11n/11ac HT (MIMO)	11ax HE SU (MIMO)	11ax HE RU106 (MIMO)	11ax HE RU52 (MIMO)	11ax HE RU26 (MIMO)
U-NII-2A	20 MHz	52	5260	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		56	5280	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		60	5300	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		64	5320	19.00	19.00	18.00	18.00	15.00	12.00	18.00	17.00	15.00	12.00	9.00
	40 MHz	54	5270		21.50	21.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		62	5310		17.00	16.00	16.00	15.00	12.00	15.50	15.50	15.00	12.00	9.00
	80 MHz	58	5290		16.00	16.00	16.00	15.00	12.00	15.50	15.00	15.00	12.00	9.00
Band	Bandwidth	Channel	Frequency (MHz)	a (SISO)	11n/11ac HT (SISO)	11ax HE SU (SISO)	11ax HE RU106 (SISO)	11ax HE RU52 (SISO)	11ax HE RU26 (SISO)	11n/11ac HT (MIMO)	11ax HE SU (MIMO)	11ax HE RU106 (MIMO)	11ax HE RU52 (MIMO)	11ax HE RU26 (MIMO)
U-NII-2C	20 MHz	100	5500	19.00	19.00	18.00	18.00	15.00	12.00	18.00	17.00	15.00	12.00	9.00
		104	5520	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		108	5540	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		112	5560	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		116	5580	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		120	5600	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		124	5620	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		128	5640	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		132	5660	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		136	5680	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
	40 MHz	140	5700	17.00	17.00	16.50	18.00	15.00	12.00	16.50	16.00	15.00	12.00	9.00
		144	5720	21.00	21.00	21.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		102	5510		16.00	16.00	16.00	15.00	12.00	15.00	15.50	15.00	12.00	9.00
		110	5550		21.50	21.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		118	5590		21.50	21.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
	80 MHz	126	5630		21.50	21.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		134	5670		18.50	18.00	18.00	15.00	12.00	18.00	17.50	15.00	12.00	9.00
		142	5710		21.50	21.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		106	5530		16.00	15.00	15.00	15.00	12.00	15.00	13.50	13.50	12.00	9.00
		122	5610		21.50	21.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		138	5690		21.50	21.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
Band	Bandwidth	Channel	Frequency (MHz)	a (SISO)	11n/11ac HT (SISO)	11ax HE SU (SISO)	11ax HE RU106 (SISO)	11ax HE RU52 (SISO)	11ax HE RU26 (SISO)	11n/11ac HT (MIMO)	11ax HE SU (MIMO)	11ax HE RU106 (MIMO)	11ax HE RU52 (MIMO)	11ax HE RU26 (MIMO)
U-NII-3	20 MHz	149	5745	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50
		153	5765	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50
		157	5785	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50
		161	5805	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50
		165	5825	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50
	40 MHz	151	5755		21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50
		159	5795		21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50
	80 MHz	155	5775		21.50	21.50	21.50	21.50	21.50	20.50	20.00	20.00	20.00	20.00

ANT6														
Band	Bandwidth	Channel	Frequency (MHz)	a (SISO)	11n/11ac HT (SISO)	11ax HE SU (SISO)	11ax HE RU106 (SISO)	11ax HE RU52 (SISO)	11ax HE RU26 (SISO)	11n/11ac HT (MIMO)	11ax HE SU (MIMO)	11ax HE RU106 (MIMO)	11ax HE RU52 (MIMO)	11ax HE RU26 (MIMO)
U-NII-1	20 MHz	36	5180	19.00	19.00	18.00	18.00	15.00	12.00	18.00	17.00	15.00	12.00	9.00
		40	5200	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		44	5220	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		48	5240	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
	40 MHz	38	5190		16.50	16.00	16.00	15.00	12.00	16.00	15.50	15.00	12.00	9.00
		46	5230		20.50	20.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
	80 MHz	42	5210		15.50	15.50	15.50	15.00	12.00	14.50	14.50	15.00	12.00	9.00
Band	Bandwidth	Channel	Frequency (MHz)	a (SISO)	11n/11ac HT (SISO)	11ax HE SU (SISO)	11ax HE RU106 (SISO)	11ax HE RU52 (SISO)	11ax HE RU26 (SISO)	11n/11ac HT (MIMO)	11ax HE SU (MIMO)	11ax HE RU106 (MIMO)	11ax HE RU52 (MIMO)	11ax HE RU26 (MIMO)
U-NII-2A	20 MHz	52	5260	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		56	5280	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		60	5300	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		64	5320	19.00	19.00	18.00	18.00	15.00	12.00	18.00	17.00	15.00	12.00	9.00
	40 MHz	54	5270		20.50	20.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		62	5310		17.00	16.00	16.00	15.00	12.00	15.50	15.50	15.00	12.00	9.00
	80 MHz	58	5290		16.00	16.00	16.00	15.00	12.00	15.50	15.00	15.00	12.00	9.00
Band	Bandwidth	Channel	Frequency (MHz)	a (SISO)	11n/11ac HT (SISO)	11ax HE SU (SISO)	11ax HE RU106 (SISO)	11ax HE RU52 (SISO)	11ax HE RU26 (SISO)	11n/11ac HT (MIMO)	11ax HE SU (MIMO)	11ax HE RU106 (MIMO)	11ax HE RU52 (MIMO)	11ax HE RU26 (MIMO)
U-NII-2C	20 MHz	100	5500	19.00	19.00	18.00	18.00	15.00	12.00	18.00	17.00	15.00	12.00	9.00
		104	5520	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		108	5540	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		112	5560	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		116	5580	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		120	5600	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		124	5620	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		128	5640	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		132	5660	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		136	5680	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
	40 MHz	140	5700	17.00	17.00	16.50	18.00	15.00	12.00	16.50	16.00	15.00	12.00	9.00
		144	5720	20.50	20.50	20.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		102	5510		16.00	16.00	16.00	15.00	12.00	15.00	15.50	15.00	12.00	9.00
		110	5550		20.50	20.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		118	5590		20.50	20.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		126	5630		20.50	20.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		134	5670		18.50	18.00	18.00	15.00	12.00	18.00	17.50	15.00	12.00	9.00
	80 MHz	142	5710		20.50	20.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		106	5530		16.00	15.00	15.00	15.00	12.00	15.00	13.50	13.50	12.00	9.00
		122	5610		20.50	20.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		138	5690		20.50	20.50	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
Band	Bandwidth	Channel	Frequency (MHz)	a (SISO)	11n/11ac HT (SISO)	11ax HE SU (SISO)	11ax HE RU106 (SISO)	11ax HE RU52 (SISO)	11ax HE RU26 (SISO)	11n/11ac HT (MIMO)	11ax HE SU (MIMO)	11ax HE RU106 (MIMO)	11ax HE RU52 (MIMO)	11ax HE RU26 (MIMO)
U-NII-3	20 MHz	149	5745	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25
		153	5765	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25
		157	5785	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25
		161	5805	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25
		165	5825	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25
	40 MHz	151	5755		21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25
		159	5795		21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25	21.25
	80 MHz	155	5775		21.25	21.25	21.25	21.25	21.25	20.50	20.00	20.00	20.00	20.00

Wi-Fi 5 GHz (P_{cell} OFF and P_{cell} ON)

For 5GHz band, there are two use cases:

- P_{cell}_ON: This will be used when both WWAN and Wi-Fi radios are ON.
- P_{cell}_OFF: This will be used when only Wi-Fi radio is ON

Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-1 5.2 GHz (SISO)	802.11a/n/ac 20 MHz	36	5180	19.00	19.00	19.00	18.25	19.00	15.50	14.50	15.00
		40	5200	21.00	19.00	20.50	18.25	21.00	15.50	14.50	15.00
		44	5220	21.00	19.00	20.50	18.25	21.00	15.50	14.50	15.00
		48	5240	21.00	19.00	20.50	18.25	21.00	15.50	14.50	15.00
	802.11n/ac 40 MHz	38	5190	16.50	16.50	16.50	16.50	16.50	15.50	14.50	15.00
		46	5230	21.50	19.00	20.50	18.25	21.50	15.50	14.50	15.00
	802.11ac 80 MHz	42	5210	15.50	15.50	15.50	15.50	15.50	15.50	14.50	15.00
U-NII-2A 5.3 GHz (SISO)	802.11a/n/ac 20 MHz	52	5260	21.00	18.25	20.50	16.25	21.00	13.75	14.00	13.25
		56	5280	21.00	18.25	20.50	16.25	21.00	13.75	14.00	13.25
		60	5300	21.00	18.25	20.50	16.25	21.00	13.75	14.00	13.25
		64	5320	19.00	18.25	19.00	16.25	19.00	13.75	14.00	13.25
	802.11n/ac 40 MHz	54	5270	21.50	18.25	20.50	16.25	21.50	13.75	14.00	13.25
		62	5310	17.00	17.00	17.00	16.25	17.00	13.75	14.00	13.25
	802.11ac 80 MHz	58	5290	16.00	16.00	16.00	16.00	16.00	13.75	14.00	13.25
Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-2C 5.5 GHz (SISO)	802.11a/n/ac 20 MHz	100	5500	19.00	16.50	19.00	16.50	19.00	12.50	15.75	12.25
		104	5520	21.00	16.50	20.50	16.50	21.00	12.50	15.75	12.25
		108	5540	21.00	16.50	20.50	16.50	21.00	12.50	15.75	12.25
		112	5560	21.00	16.50	20.50	16.50	21.00	12.50	15.75	12.25
		116	5580	21.00	16.50	20.50	16.50	21.00	12.50	15.75	12.25
		120	5600	21.00	16.50	20.50	16.50	21.00	12.50	15.75	12.25
		124	5620	21.00	16.50	20.50	16.50	21.00	12.50	15.75	12.25
		128	5640	21.00	16.50	20.50	16.50	21.00	12.50	15.75	12.25
		132	5660	21.00	16.50	20.50	16.50	21.00	12.50	15.75	12.25
		136	5680	21.00	16.50	20.50	16.50	21.00	12.50	15.75	12.25
	802.11n/ac 40 MHz	140	5700	17.00	16.50	17.00	16.50	17.00	12.50	15.75	12.25
		144	5720	21.00	16.50	20.50	16.50	21.00	12.50	15.75	12.25
		102	5510	16.00	16.00	16.00	16.00	16.00	12.50	15.75	12.25
		110	5550	21.50	16.50	20.50	16.50	21.50	12.50	15.75	12.25
		118	5590	21.50	16.50	20.50	16.50	21.50	12.50	15.75	12.25
		126	5630	21.50	16.50	20.50	16.50	21.50	12.50	15.75	12.25
	802.11ac 80 MHz	134	5670	18.50	16.50	18.50	16.50	18.50	12.50	15.75	12.25
		142	5710	21.50	16.50	20.50	16.50	21.50	12.50	15.75	12.25
	802.11ac 80 MHz	106	5530	16.00	16.00	16.00	16.00	16.00	12.50	15.75	12.25
		122	5610	21.50	16.50	20.50	16.50	21.50	12.50	15.75	12.25
	802.11ac 80 MHz	138	5690	21.50	16.50	20.50	16.50	21.50	12.50	15.75	12.25
Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-3 5.8 GHz (SISO)	802.11a/n/ac 20 MHz	149	5745	21.50	18.00	21.25	17.75	21.50	14.50	20.00	14.00
		153	5765	21.50	18.00	21.25	17.75	21.50	14.50	20.00	14.00
		157	5785	21.50	18.00	21.25	17.75	21.50	14.50	20.00	14.00
		161	5805	21.50	18.00	21.25	17.75	21.50	14.50	20.00	14.00
		165	5825	21.50	18.00	21.25	17.75	21.50	14.50	20.00	14.00
	802.11n/ac 40 MHz	151	5755	21.50	18.00	21.25	17.75	21.50	14.50	20.00	14.00
		159	5795	21.50	18.00	21.25	17.75	21.50	14.50	20.00	14.00
	802.11ac 80 MHz	155	5775	21.50	18.00	21.25	17.75	21.50	14.50	20.00	14.00

Wi-Fi 5 GHz Measured Results

The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n then ac) is selected.

SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

Power Mode	Antenna	Power Mode A							Power Mode B						
		Band	Mode	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)	Band	Mode	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)
Pcell OFF	ANT5	U-NII-2A	802.11n HT40	54	5270	21.50	21.50	Yes	U-NII-1	802.11n HT40	38	5190	16.50	16.50	Yes
				62	5310	17.00	17.00				46	5230	19.00	19.00	
		U-NII-2C	802.11ac VHT80	106	5530	16.00	16.00	Yes	U-NII-2C	802.11ac VHT80	106	5530	16.00	16.00	Yes
				122	5610	21.50	21.50				122	5610	16.50	16.50	
				138	5690	21.50	21.50				138	5690	16.50	16.50	
		U-NII-3	802.11ac VHT80	155	5775	21.50	21.50	Yes	U-NII-3	802.11ac VHT80	155	5775	18.00	18.00	Yes
	ANT6	U-NII-1	802.11n HT40	54	5270	20.50	20.50	Yes	U-NII-1	802.11n HT40	38	5190	16.50	16.50	Yes
				62	5310	17.00	17.00				46	5230	18.25	18.25	
		U-NII-2C	802.11ac VHT80	106	5530	16.00	16.00	Yes	U-NII-2C	802.11ac VHT80	106	5530	16.00	16.00	Yes
				122	5610	20.50	20.50				122	5610	16.50	16.50	
				138	5690	20.50	20.50				138	5690	16.50	16.50	
		U-NII-3	802.11ac VHT80	155	5775	21.25	21.25	Yes	U-NII-3	802.11ac VHT80	155	5775	17.75	17.75	Yes
Power Mode	Antenna	Power Mode A							Power Mode B						
		Band	Mode	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)	Band	Mode	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Tune-up (dBm)	SAR Test (Yes/No)
Pcell ON	ANT5	U-NII-2A	802.11n HT40	54	5270	21.50	21.50	Yes	U-NII-1	802.11ac VHT80	42	5120	15.50	15.50	Yes
				62	5310	17.00	17.00				106	5530	12.50	12.50	
		U-NII-2C	802.11ac VHT80	106	5530	16.00	16.00	Yes	U-NII-2C	802.11ac VHT80	106	5530	12.50	12.50	Yes
				122	5610	21.50	21.50				122	5610	12.50	12.50	
				138	5690	21.50	21.50				138	5690	12.50	12.50	
		U-NII-3	802.11a	155	5775	21.50	21.50		U-NII-3	802.11ac VHT80	155	5775	14.50	14.50	Yes
	ANT6	U-NII-1	802.11ac VHT80	42	5210	14.50	14.50	Yes	U-NII-1	802.11ac VHT80	42	5210	15.00	15.00	Yes
		U-NII-2C	802.11ac VHT80	106	5530	15.75	15.75	Yes	U-NII-2C	802.11ac VHT80	106	5530	12.25	12.25	Yes
				122	5610	15.75	15.75				122	5610	12.25	12.25	
				138	5690	15.75	15.75				138	5690	12.25	12.25	
		U-NII-3	802.11ac VHT80	155	5775	20.00	20.00	Yes	U-NII-3	802.11ac VHT80	155	5775	14.00	14.00	Yes

9.10. Bluetooth

From October 2016 TCB workshop, this device power and SAR measured is performed with test software, the duty cycle is 100%.

According to KDB 447498 D01 apply to determine simultaneous transmission SAR test exclusion for Wi-Fi MIMO. If the sum of 1-g single transmission chain SAR measurements is $<1.6\text{W/kg}$ and/or the MIMO output power is equal or less than a single chain, then no additional SAR measurements for simultaneously at the specified maximum output power of MIMO operation.

When antennas are spatially separated to the extent that SAR distributions do not overlap and can be treated independently, SAR compliance for simultaneous transmission is determined separately for each individual antenna.

Bluetooth (P_{low} , P_{high} , and $P_{\text{standalone}}$)

For Bluetooth, there are three use cases:

- Bluetooth P_{low} is used with Wi-Fi and WWAN antennas are active.
- Bluetooth P_{high} is used when Wi-Fi antenna is active and WWAN antenna is inactive or with Wi-Fi inactive and WWAN antenna is active.
- Bluetooth $P_{\text{standalone}}$ is used with Wi-Fi and WWAN antennas are inactive.

Mode	Maximum Output Power (Tune-up Limit) (dBm)											
	Bluetooth P_{low}				Bluetooth P_{high}				Bluetooth $P_{\text{standalone}}$			
	ANT3		ANT4		ANT3		ANT4		ANT3		ANT4	
	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
GFSK	20.0	10.5	10.0	10.0	20.0	14.5	14.0	14.0	20.0	20.0	20.0	20.0
EDR	16.0	10.5	10.0	10.0	16.0	14.5	14.0	14.0	16.0	16.0	16.0	16.0
LE	20.0	10.5	10.0	10.0	20.0	14.5	14.0	14.0	20.0	20.0	20.0	20.0
HDR	12.0	10.5	10.0	10.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0

This device supports Bluetooth beamforming. SAR measurement is not required for Beamforming when the output power is equal or less than a single chain. Please refer to BT tune-up procedure.

Bluetooth Measured Results

SAR measurement is not required for the 8PSK, BLE, and HDR. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

Power Mode	Antenna	Mode	Ch #	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
					Meas Pwr	Tune-up	SAR Test (Yes/No)	Meas Pwr	Tune-up	SAR Test (Yes/No)
Bluetooth P_{low}	LAT 3	GFSK	0	2402	20.00	20.00	Yes	10.50	10.50	Yes
			39	2441	20.00	20.00		10.50	10.50	
			78	2480	20.00	20.00		10.50	10.50	
	UAT 1	GFSK	0	2402	10.00	10.00	Yes	10.00	10.00	Yes
			39	2441	10.00	10.00		10.00	10.00	
			78	2480	10.00	10.00		10.00	10.00	
Bluetooth P_{high}	LAT 3	GFSK	0	2402	20.00	20.00	Yes	14.50	14.50	Yes
			39	2441	20.00	20.00		14.50	14.50	
			78	2480	20.00	20.00		14.50	14.50	
	UAT 1	GFSK	0	2402	14.00	14.00	Yes	14.00	14.00	Yes
			39	2441	14.00	14.00		14.00	14.00	
			78	2480	14.00	14.00		14.00	14.00	
Bluetooth $P_{\text{standalone}}$	LAT 3	GFSK	0	2402	20.00	20.00	Yes	20.00	20.00	Yes
			39	2441	20.00	20.00		20.00	20.00	
			78	2480	20.00	20.00		20.00	20.00	
	UAT 1	GFSK	0	2402	20.00	20.00	Yes	20.00	20.00	Yes
			39	2441	20.00	20.00		20.00	20.00	
			78	2480	20.00	20.00		20.00	20.00	

Duty Factor Measured Results

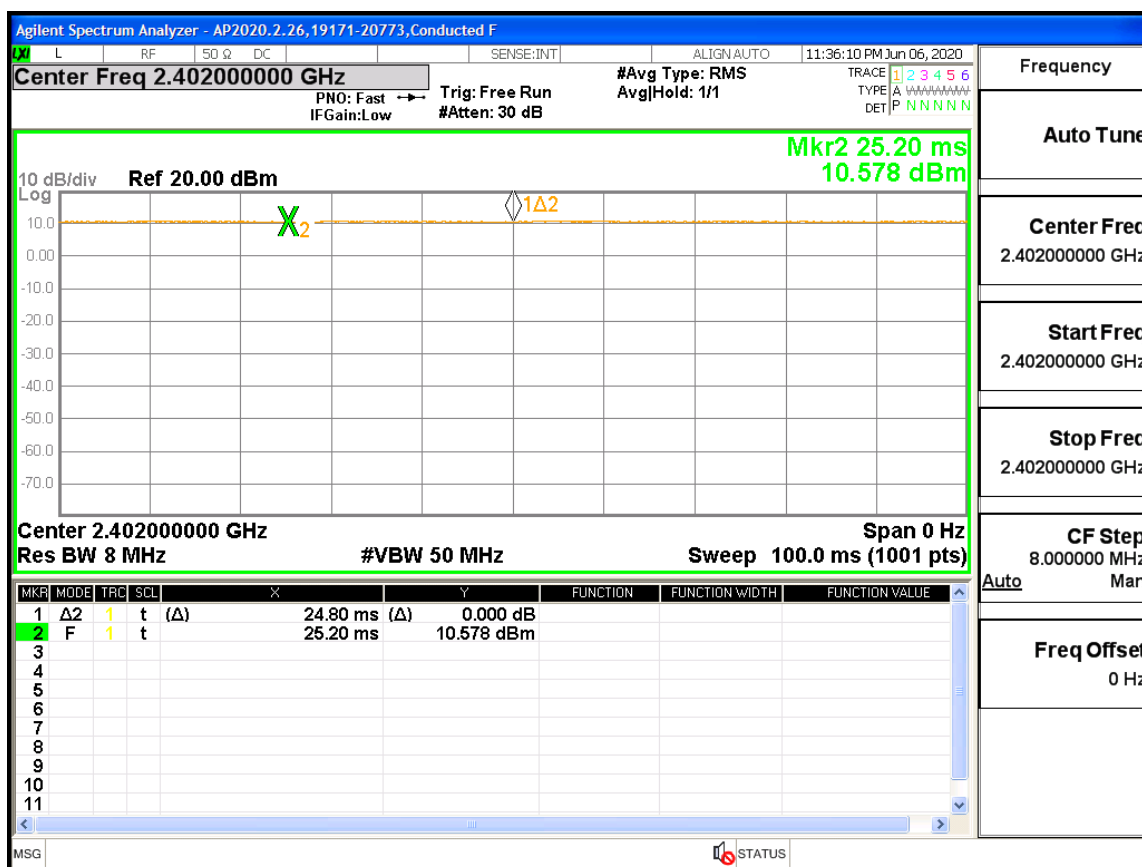
Mode	Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
GFSK	DH5	1	1	100.00%	1.00

Note(s):

Duty Cycle = (T on / period) * 100%

Duty Cycle plots

GFSK



10. Measured and Reported (Scaled) SAR Results

SAR Test Reduction criteria are as follows:

- Reported SAR(W/kg) for WWAN = Measured SAR * Tune-up Scaling Factor
- Reported SAR(W/kg) for Wi-Fi and Bluetooth = Measured SAR * Tune-up scaling factor * Duty Cycle scaling factor
- Duty Cycle scaling factor = 1 / Duty cycle (%)

KDB 447498 D01 General RF Exposure Guidance:

Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

KDB 648474 D04 Handset SAR:

With headset attached, when the reported SAR for body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

KDB 941225 D01 SAR test for 3G devices:

When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

KDB 941225 D05 SAR for LTE Devices:

SAR test reduction is applied using the following criteria:

- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel.
- When the reported SAR is > 0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.
- Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are > 0.8 W/kg. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg.
- Testing for 16-QAM modulation is not required because the reported SAR for QPSK is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of QPSK.
- Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.
- For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. 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; therefore, the requirement for H, M and L channels may not fully apply.

KDB 248227 D01 SAR meas for 802.11:

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions. An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS procedure is applied to reduce the number of SAR tests; these are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

The multiple test positions require SAR measurements in head, hotspot mode or UMPC mini-tablet configurations may be reduced according to the highest reported SAR determined using the initial test position(s) by applying the DSSS or OFDM SAR measurement procedures in the required wireless mode test configuration(s). The initial test position(s) is measured using the highest measured maximum output power channel in the required wireless mode test configuration(s). When the reported SAR for the initial test position is:

- ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.
- > 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions are tested.
 - For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
 - When it is unclear, all equivalent conditions must be tested.
- For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required test channels are considered.
 - The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.
- When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is ≤ 1.2 W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.
- When the specified maximum output power is different between UNII 1 and UNII 2A, begin SAR with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is ≤ 1.2 W/kg, testing for the band with the lower specified output power is not required; otherwise test the remaining bands independently for SAR.

To determine the initial test position, Area Scans were performed to determine the position with the *Maximum Value of SAR (measured)*. The position that produced the highest *Maximum Value of SAR* is considered the worst case position; thus used as the initial test position.

10.1. GSM850

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	GPRS 2 Slots	Mode A	0	Left Touch	190	836.6	32.50	32.17	0.120	0.129	0.094	0.102	1
					Left Tilt	190	836.6	32.50	32.17	0.051	0.055	0.040	0.043	
					Right Touch	190	836.6	32.50	32.17	0.129	0.139	0.101	0.109	
					Right Tilt	190	836.6	32.50	32.17	0.055	0.059	0.044	0.048	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	190	836.6	32.50	32.17	0.342	0.369	0.233	0.251	2
					Front	190	836.6	32.50	32.17	0.204	0.220	0.136	0.147	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	190	836.6	32.50	32.17	0.261	0.282	0.170	0.183	
					Edge 3	190	836.6	32.50	32.17	0.136	0.147	0.070	0.076	
					Edge 4	190	836.6	32.50	32.17	0.117	0.126	0.076	0.082	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	GPRS 2 Slots	Mode A	0	Left Touch	190	836.6	31.00	30.75	0.461	0.488	0.334	0.354	3
					Left Tilt	190	836.6	31.00	30.75	0.322	0.341	0.201	0.213	
					Right Touch	190	836.6	31.00	30.75	0.558	0.591	0.395	0.418	
					Right Tilt	190	836.6	31.00	30.75	0.400	0.424	0.233	0.247	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	190	836.6	31.00	30.75	0.490	0.519	0.303	0.321	4
					Front	190	836.6	31.00	30.75	0.297	0.315	0.192	0.203	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	190	836.6	31.00	30.75	0.131	0.139	0.073	0.077	
					Edge 2	190	836.6	31.00	30.75	0.156	0.165	0.099	0.105	
					Edge 4	190	836.6	31.00	30.75	0.306	0.324	0.195	0.207	

10.2. GSM1900

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	GPRS 2 Slots	Mode A	0	Left Touch	661	1880.0	31.00	30.92	0.116	0.118	0.075	0.076	5
					Left Tilt	661	1880.0	31.00	30.92	0.104	0.106	0.059	0.060	
					Right Touch	661	1880.0	31.00	30.92	0.292	0.297	0.179	0.182	
					Right Tilt	661	1880.0	31.00	30.92	0.071	0.073	0.044	0.045	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	27.00	26.43	0.726	0.828	0.334	0.381	6
						661	1880.0	27.00	26.47	0.810	0.915	0.372	0.420	
						810	1909.8	27.00	26.40	0.712	0.817	0.326	0.374	
					Front	661	1880.0	27.00	26.47	0.324	0.366	0.173	0.195	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	661	1880.0	27.00	26.47	0.543	0.613	0.246	0.278	
					Edge 3	661	1880.0	27.00	26.47	0.322	0.364	0.163	0.184	
					Edge 4	661	1880.0	27.00	26.47	0.011	0.012	0.005	0.005	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	GPRS 2 Slots	Mode A	0	Left Touch	661	1880.0	26.50	26.10	0.230	0.252	0.132	0.145	7
					Left Tilt	661	1880.0	26.50	26.10	0.181	0.198	0.101	0.111	
					Right Touch	512	1850.2	26.50	26.00	0.830	0.931	0.436	0.489	
						661	1880.0	26.50	26.10	0.858	0.941	0.479	0.525	
						810	1909.8	26.50	26.05	0.798	0.885	0.449	0.498	
					Right Tilt	512	1850.2	26.50	26.00	0.691	0.775	0.334	0.375	
						661	1880.0	26.50	26.10	0.742	0.814	0.350	0.384	
						810	1909.8	26.50	26.05	0.728	0.807	0.340	0.377	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	26.50	26.00	0.779	0.874	0.366	0.411	8
						661	1880.0	26.50	26.10	0.867	0.951	0.412	0.452	
						810	1909.8	26.50	26.05	0.793	0.880	0.377	0.418	
	Hotspot	GPRS 2 Slots	Mode B	5	Front	661	1880.0	26.50	26.10	0.525	0.576	0.276	0.303	
					Edge 1	661	1880.0	26.50	26.10	0.341	0.374	0.141	0.155	
					Edge 2	661	1880.0	26.50	26.10	0.014	0.015	0.006	0.007	
					Edge 4	661	1880.0	26.50	26.10	0.726	0.796	0.361	0.396	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3	Head	GPRS 2 Slots	Mode A	0	Left Touch	661	1880.0	30.00	29.30	0.185	0.217	0.116	0.136	9
					Left Tilt	661	1880.0	30.00	29.30	0.093	0.109	0.056	0.065	
					Right Touch	661	1880.0	30.00	29.30	0.100	0.117	0.065	0.077	
					Right Tilt	661	1880.0	30.00	29.30	0.108	0.127	0.062	0.073	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	27.00	26.50	0.787	0.883	0.438	0.491	10
						661	1880.0	27.00	26.50	0.793	0.890	0.437	0.490	
						810	1909.8	27.00	26.50	0.719	0.807	0.391	0.439	
					Front	661	1880.0	27.00	26.50	0.223	0.250	0.130	0.146	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 3	661	1880.0	27.00	26.50	0.204	0.229	0.108	0.121	
					Edge 4	661	1880.0	27.00	26.50	0.541	0.607	0.283	0.318	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT4	Head	GPRS 2 Slots	Mode A	0	Left Touch	512	1850.2	25.25	25.00	0.786	0.833	0.428	0.453	11
						661	1880.0	25.25	25.00	0.878	0.930	0.469	0.497	
						810	1909.8	25.25	24.90	0.856	0.928	0.461	0.500	
					Left Tilt	661	1880.0	25.25	25.00	0.631	0.668	0.307	0.325	
					Right Touch	661	1880.0	25.25	25.00	0.227	0.240	0.137	0.145	
					Right Tilt	661	1880.0	25.25	25.00	0.180	0.191	0.096	0.102	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	661	1880.0	26.50	26.25	0.661	0.700	0.358	0.379	12
					Front	661	1880.0	26.50	26.25	0.377	0.399	0.212	0.225	
					Edge 1	661	1880.0	26.50	26.25	0.220	0.233	0.092	0.097	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	512	1850.2	26.50	26.10	0.747	0.819	0.358	0.393	
						661	1880.0	26.50	26.25	0.848	0.898	0.408	0.432	
						810	1909.8	26.50	26.25	0.872	0.924	0.422	0.447	

10.4. W-CDMA Band 4

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	1413	1732.6	25.70	25.50	0.083	0.087	0.057	0.060	23
					Left Tilt	1413	1732.6	25.70	25.50	0.071	0.075	0.046	0.048	
					Right Touch	1413	1732.6	25.70	25.50	0.217	0.227	0.140	0.147	
					Right Tilt	1413	1732.6	25.70	25.50	0.057	0.060	0.038	0.040	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1413	1732.6	19.25	19.10	0.567	0.587	0.293	0.303	24
					Front	1413	1732.6	19.25	19.10	0.405	0.419	0.205	0.212	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	1413	1732.6	19.25	19.10	0.168	0.174	0.086	0.089	25
					Edge 3	1312	1712.4	19.25	19.09	0.905	0.939	0.432	0.448	
						1413	1732.6	19.25	19.10	0.849	0.879	0.407	0.421	
					Edge 4	1413	1732.6	19.25	19.10	0.030	0.031	0.016	0.017	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	1413	1732.6	21.50	21.43	0.226	0.230	0.141	0.143	26
					Left Tilt	1413	1732.6	21.50	21.43	0.231	0.235	0.136	0.138	
					Right Touch	1312	1712.4	21.50	21.47	0.852	0.858	0.468	0.472	
						1413	1732.6	21.50	21.43	0.821	0.834	0.453	0.460	
						1513	1752.6	21.50	21.38	0.836	0.860	0.459	0.472	
					Right Tilt	1312	1712.4	21.50	21.47	0.883	0.890	0.435	0.438	
						1413	1732.6	21.50	21.43	0.840	0.853	0.415	0.421	
						1513	1752.6	21.50	21.38	0.873	0.898	0.430	0.442	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1312	1712.4	21.00	20.10	0.670	0.824	0.320	0.394	27
						1413	1732.6	21.00	20.00	0.647	0.815	0.308	0.388	
						1513	1752.6	21.00	20.10	0.665	0.818	0.315	0.388	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	1413	1732.6	21.00	20.00	0.395	0.497	0.172	0.217	
					Edge 2	1413	1732.6	21.00	20.00	0.005	0.006	0.002	0.002	
					Edge 4	1413	1732.6	21.00	20.00	0.446	0.561	0.229	0.288	
	Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)	
Tune-up Limit									Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	1413	1732.6	24.70	24.30	0.290	0.318	0.191	0.209	28
					Left Tilt	1413	1732.6	24.70	24.30	0.156	0.171	0.101	0.111	
					Right Touch	1413	1732.6	24.70	24.30	0.199	0.218	0.130	0.143	
					Right Tilt	1413	1732.6	24.70	24.30	0.128	0.140	0.078	0.085	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1312	1712.4	21.25	20.80	0.857	0.951	0.476	0.528	29
						1413	1732.6	21.25	20.90	0.852	0.924	0.483	0.524	
						1513	1752.6	21.25	20.80	0.875	0.971	0.503	0.558	
					Front	1413	1732.6	21.25	20.90	0.497	0.539	0.298	0.323	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 3	1413	1732.6	21.25	20.90	0.178	0.193	0.084	0.091	
					Edge 4	1312	1712.4	21.25	20.80	0.710	0.788	0.377	0.418	
						1413	1732.6	21.25	20.90	0.754	0.817	0.398	0.431	
						1513	1752.6	21.25	20.80	0.783	0.868	0.417	0.463	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT4	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	1312	1712.4	21.00	20.75	0.886	0.938	0.466	0.494	30
						1413	1732.6	21.00	20.75	0.883	0.935	0.467	0.495	
						1513	1752.6	21.00	20.75	0.868	0.919	0.461	0.488	
					Left Tilt	1413	1732.6	21.00	20.75	0.545	0.577	0.275	0.291	
					Right Touch	1413	1732.6	21.00	20.75	0.240	0.254	0.153	0.162	
					RightTilt	1413	1732.6	21.00	20.75	0.128	0.136	0.072	0.076	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1413	1732.6	21.50	20.75	0.625	0.743	0.342	0.406	31
					Front	1413	1732.6	21.50	20.75	0.339	0.403	0.196	0.233	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	1413	1732.6	21.50	20.75	0.217	0.258	0.096	0.114	
					Edge 2	1312	1712.4	21.50	20.75	0.733	0.871	0.374	0.444	
						1413	1732.6	21.50	20.75	0.737	0.876	0.377	0.448	
						1513	1752.6	21.50	20.75	0.751	0.893	0.384	0.456	

10.5. W-CDMA Band 5

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	4183	836.6	25.70	25.10	0.112	0.129	0.087	0.100	
					Left Tilt	4183	836.6	25.70	25.10	0.054	0.062	0.042	0.048	
					Right Touch	4183	836.6	25.70	25.10	0.136	0.156	0.104	0.119	33
					RightTilt	4183	836.6	25.70	25.10	0.062	0.072	0.050	0.057	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	4183	836.6	25.70	25.10	0.357	0.410	0.242	0.278	34
					Front	4183	836.6	25.70	25.10	0.253	0.290	0.168	0.193	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	4183	836.6	25.70	25.10	0.387	0.444	0.252	0.289	35
					Edge 3	4183	836.6	25.70	25.10	0.214	0.246	0.107	0.123	
					Edge 4	4183	836.6	25.70	25.10	0.208	0.239	0.134	0.154	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	4183	836.6	23.90	23.30	0.126	0.145	0.099	0.114	
					Left Tilt	4183	836.6	23.90	23.30	0.073	0.084	0.057	0.066	
					Right Touch	4183	836.6	23.90	23.30	0.173	0.199	0.136	0.156	36
					Right Tilt	4183	836.6	23.90	23.30	0.086	0.098	0.069	0.079	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	4183	836.6	23.90	23.30	0.460	0.528	0.285	0.327	37
					Front	4183	836.6	23.90	23.30	0.288	0.331	0.192	0.220	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	4183	836.6	23.90	23.30	0.130	0.149	0.074	0.085	
					Edge 2	4183	836.6	23.90	23.30	0.135	0.155	0.087	0.100	
					Edge 4	4183	836.6	23.90	23.30	0.274	0.315	0.179	0.206	

10.6. CDMA BC0

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	1xRTT RC3 SO55	Mode A	0	Left Touch	384	836.5	25.70	25.61	0.097	0.099	0.075	0.077	
					Left Tilt	384	836.5	25.70	25.61	0.053	0.054	0.041	0.042	
					Right Touch	384	836.5	25.70	25.61	0.102	0.104	0.080	0.081	
					Right Tilt	384	836.5	25.70	25.61	0.051	0.052	0.040	0.041	
		1xEVDO Rel. 0	Mode A	0	Left Touch	384	836.5	25.70	25.61	0.096	0.098	0.074	0.075	
					Left Tilt	384	836.5	25.70	25.61	0.045	0.046	0.036	0.037	
					Right Touch	384	836.5	25.70	25.61	0.107	0.109	0.084	0.086	38
					Right Tilt	384	836.5	25.70	25.61	0.046	0.047	0.037	0.038	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	384	836.5	25.70	25.68	0.391	0.393	0.263	0.264	39
					Front	384	836.5	25.70	25.68	0.251	0.252	0.166	0.167	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	384	836.5	25.70	25.68	0.369	0.371	0.238	0.239	
					Edge 3	384	836.5	25.70	25.68	0.205	0.206	0.105	0.105	
					Edge 4	384	836.5	25.70	25.68	0.156	0.157	0.101	0.101	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	1xRTT RC3 SO55	Mode A	0	Left Touch	384	836.5	23.90	23.25	0.372	0.432	0.273	0.317	
					Left Tilt	384	836.5	23.90	23.25	0.352	0.409	0.200	0.232	
					Right Touch	384	836.5	23.90	23.25	0.547	0.635	0.389	0.452	
					Right Tilt	384	836.5	23.90	23.25	0.453	0.526	0.248	0.288	
		1xEVDO Rel. 0	Mode A	0	Left Touch	384	836.5	23.90	23.25	0.392	0.455	0.285	0.331	
					Left Tilt	384	836.5	23.90	23.25	0.352	0.409	0.203	0.236	
					Right Touch	384	836.5	23.90	23.25	0.575	0.668	0.408	0.474	40
					Right Tilt	384	836.5	23.90	23.25	0.462	0.537	0.254	0.295	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	384	836.5	23.90	23.40	0.510	0.572	0.328	0.368	41
					Front	384	836.5	23.90	23.40	0.240	0.269	0.162	0.182	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	384	836.5	23.90	23.40	0.165	0.185	0.091	0.102	
					Edge 2	384	836.5	23.90	23.40	0.129	0.145	0.083	0.093	
					Edge 4	384	836.5	23.90	23.40	0.257	0.288	0.165	0.185	

10.7. CDMA BC1

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.	
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled		
ANT1	Head	1xRTT RC3 SO55	Mode A	0	Left Touch	600	1880.0	25.70	25.50	0.154	0.161	0.097	0.102		
					Left Tilt	600	1880.0	25.70	25.50	0.109	0.114	0.062	0.065		
					Right Touch	600	1880.0	25.70	25.50	0.312	0.327	0.190	0.199		
					Right Tilt	600	1880.0	25.70	25.50	0.080	0.084	0.050	0.052		
		1xEVDO Rel. 0	Mode A	0	Left Touch	600	1880.0	25.70	25.50	0.177	0.185	0.112	0.117		
					Left Tilt	600	1880.0	25.70	25.50	0.117	0.123	0.068	0.071		
					Right Touch	600	1880.0	25.70	25.50	0.350	0.366	0.208	0.218	42	
					Right Tilt	600	1880.0	25.70	25.50	0.088	0.092	0.054	0.057		
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	25	1851.3	21.00	21.00	0.851	0.851	0.395	0.395		
						600	1880.0	21.00	21.00	0.883	0.883	0.397	0.397		
						1175	1908.8	21.00	21.00	0.892	0.892	0.411	0.411	43	
					Front	600	1880.0	21.00	21.00	0.420	0.420	0.224	0.224		
Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	600	1880.0	21.00	21.00	0.442	0.442	0.210	0.210			
				Edge 3	600	1880.0	21.00	21.00	0.440	0.440	0.220	0.220			
				Edge 4	600	1880.0	21.00	21.00	0.017	0.017	0.007	0.007			
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.	
ANT2	Head	1xRTT RC3 SO55	Mode A	0	Left Touch	600	1880.0	20.50	20.50	0.443	0.443	0.258	0.258		
					Left Tilt	600	1880.0	20.50	20.50	0.220	0.220	0.125	0.125		
					Right Touch	25	1851.3	20.50	20.50	0.891	0.891	0.459	0.459		
						600	1880.0	20.50	20.50	0.980	0.980	0.500	0.500		
						1175	1908.8	20.50	20.50	0.991	0.991	0.503	0.503	44	
					Right Tilt	600	1880.0	20.50	20.50	0.714	0.714	0.331	0.331		
		1xEVDO Rel. 0	Mode A	0	Left Touch	600	1880.0	20.50	20.50	0.191	0.191	0.109	0.109		
					Left Tilt	600	1880.0	20.50	20.50	0.155	0.155	0.083	0.083		
					Right Touch	25	1851.3	20.50	20.50	0.809	0.809	0.401	0.401		
						600	1880.0	20.50	20.50	0.864	0.864	0.428	0.428		
						1175	1908.8	20.50	20.50	0.845	0.845	0.420	0.420		
					Right Tilt	600	1880.0	20.50	20.50	0.677	0.677	0.318	0.318		
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	600	1880.0	20.50	20.50	0.696	0.696	0.346	0.346	45	
					Front	600	1880.0	20.50	20.50	0.264	0.264	0.174	0.174		
		Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	600	1880.0	20.50	20.50	0.344	0.344	0.132	0.132	
						Edge 2	600	1880.0	20.50	20.50	0.022	0.022	0.011	0.011	
				Edge 4	600	1880.0	20.50	20.50	0.380	0.380	0.205	0.205			

10.8. CDMA BC10

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	1xRTT RC3 SO55	Mode A	0	Left Touch	560	820.0	25.70	25.54	0.118	0.122	0.077	0.080	
					Left Tilt	560	820.0	25.70	25.54	0.070	0.072	0.055	0.057	
					Right Touch	560	820.0	25.70	25.54	0.130	0.135	0.101	0.105	
					Right Tilt	560	820.0	25.70	25.54	0.069	0.072	0.054	0.056	
		1xEVDO Rel. 0	Mode A	0	Left Touch	560	820.0	25.70	25.54	0.119	0.123	0.078	0.081	
					Left Tilt	560	820.0	25.70	25.54	0.067	0.070	0.053	0.055	
					Right Touch	560	820.0	25.70	25.54	0.134	0.139	0.104	0.108	46
					Right Tilt	560	820.0	25.70	25.54	0.062	0.065	0.050	0.052	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	560	820.0	25.70	25.56	0.365	0.377	0.249	0.257	47
					Front	560	820.0	25.70	25.56	0.273	0.282	0.171	0.177	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	560	820.0	25.70	25.56	0.406	0.419	0.247	0.255	48
					Edge 3	560	820.0	25.70	25.56	0.031	0.032	0.015	0.016	
					Edge 4	560	820.0	25.70	25.56	0.025	0.026	0.016	0.017	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	1xRTT RC3 SO55	Mode A	0	Left Touch	560	820.0	23.90	23.65	0.445	0.471	0.319	0.338	
					Left Tilt	560	820.0	23.90	23.65	0.376	0.398	0.204	0.216	
					Right Touch	560	820.0	23.90	23.65	0.574	0.608	0.409	0.433	
					Right Tilt	560	820.0	23.90	23.65	0.469	0.497	0.249	0.264	
		1xEVDO Rel. 0	Mode A	0	Left Touch	560	820.0	23.90	23.65	0.424	0.449	0.303	0.321	
					Left Tilt	560	820.0	23.90	23.65	0.387	0.410	0.206	0.218	
					Right Touch	560	820.0	23.90	23.65	0.617	0.654	0.430	0.455	49
					Right Tilt	560	820.0	23.90	23.65	0.520	0.551	0.276	0.292	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	560	820.0	23.90	23.65	0.332	0.352	0.207	0.219	50
					Front	560	820.0	23.90	23.65	0.198	0.210	0.137	0.145	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	560	820.0	23.90	23.65	0.126	0.133	0.072	0.076	
					Edge 2	560	820.0	23.90	23.65	0.024	0.025	0.016	0.017	
					Edge 4	560	820.0	23.90	23.65	0.099	0.105	0.063	0.067	

10.9. LTE Band 5 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	20525	836.5	1	25	25.70	25.20	0.111	0.125	0.086	0.097	51
								25	12	24.70	24.20	0.086	0.097	0.068	0.076	
					Left Tilt	20525	836.5	1	25	25.70	25.20	0.056	0.063	0.043	0.048	
								25	12	24.70	24.20	0.047	0.052	0.036	0.041	
					Right Touch	20525	836.5	1	25	25.70	25.20	0.154	0.173	0.120	0.135	
								25	12	24.70	24.20	0.111	0.125	0.086	0.097	
					Right Tilt	20525	836.5	1	25	25.70	25.20	0.073	0.081	0.058	0.065	
								25	12	24.70	24.20	0.049	0.055	0.039	0.044	
	Body & Hotspot	QPSK	Mode B	5	Rear	20525	836.5	1	25	25.70	25.20	0.587	0.659	0.398	0.447	52
								25	12	24.70	24.20	0.239	0.268	0.161	0.181	
					Front	20525	836.5	1	25	25.70	25.20	0.411	0.461	0.270	0.303	
								25	12	24.70	24.20	0.246	0.276	0.158	0.177	
					Edge 2	20525	836.5	1	25	25.70	25.20	0.770	0.864	0.499	0.560	
								25	12	24.70	24.20	0.555	0.623	0.357	0.401	
	Hotspot	QPSK	Mode B	5	Edge 3	20525	836.5	1	25	25.70	25.20	0.252	0.283	0.138	0.155	53
								25	12	24.70	24.20	0.217	0.243	0.112	0.126	
					Edge 4	20525	836.5	1	25	25.70	25.20	0.503	0.564	0.323	0.362	
								25	12	24.70	24.20	0.364	0.408	0.233	0.261	

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	QPSK	Mode A	0	Left Touch	20525	836.5	1	25	23.90	23.80	0.351	0.359	0.255	0.261	54
								25	12	22.90	22.80	0.335	0.343	0.243	0.249	
					Left Tilt	20525	836.5	1	25	23.90	23.80	0.306	0.313	0.174	0.178	
								25	12	22.90	22.80	0.293	0.300	0.170	0.174	
					Right Touch	20525	836.5	1	25	23.90	23.80	0.516	0.528	0.367	0.376	
								25	12	22.90	22.80	0.465	0.476	0.312	0.319	
					Right Tilt	20525	836.5	1	25	23.90	23.80	0.419	0.429	0.234	0.239	
								25	12	22.90	22.80	0.350	0.358	0.191	0.195	
	Body & Hotspot	QPSK	Mode B	5	Rear	20525	836.5	1	25	23.90	23.80	0.495	0.507	0.306	0.313	55
								25	12	22.90	22.80	0.353	0.361	0.217	0.222	
					Front	20525	836.5	1	25	23.90	23.80	0.296	0.303	0.197	0.202	
								25	12	22.90	22.80	0.220	0.225	0.146	0.149	
					Edge 1	20525	836.5	1	25	23.90	23.80	0.150	0.153	0.083	0.085	
								25	12	22.90	22.80	0.115	0.118	0.064	0.065	
	Hotspot	QPSK	Mode B	5	Edge 2	20525	836.5	1	25	23.90	23.80	0.132	0.135	0.085	0.087	56
								25	12	22.90	22.80	0.101	0.103	0.064	0.065	
					Edge 4	20525	836.5	1	25	23.90	23.80	0.232	0.237	0.152	0.156	
								25	12	22.90	22.80	0.182	0.186	0.118	0.121	

UL CA 5B

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 1	Head	QPSK	Mode A	0	Right Touch	20476	831.6	1	49	20575	841.5	1	0	25.70	25.10	0.150	0.172	0.124	0.142	
ANT 1	Body	QPSK	Mode B	5	Rear	20476	831.6	1	49	20575	841.5	1	0	25.70	25.13	0.407	0.464	0.275	0.314	
ANT 1	Body	QPSK	Mode B	5	Edge 2	20476	831.6	1	49	20575	841.5	1	0	25.70	25.41	0.401	0.429	0.260	0.278	
ANT 2	Head	QPSK	Mode A	0	Right Touch	20476	831.6	1	49	20575	841.5	1	0	23.90	23.66	0.512	0.541	0.447	0.472	
ANT 2	Body	QPSK	Mode B	5	Rear	20476	831.6	1	49	20575	841.5	1	0	23.90	23.63	0.363	0.386	0.226	0.241	

Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

10.10. LTE Band 7 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	21100	2535.0	1	49	25.70	25.70	0.155	0.155	0.087	0.087	
								50	24	24.70	24.50	0.141	0.148	0.079	0.082	
					Left Tilt	21100	2535.0	1	49	25.70	25.70	0.113	0.113	0.061	0.061	
								50	24	24.70	24.50	0.103	0.108	0.054	0.056	
					Right Touch	21100	2535.0	1	49	25.70	25.70	0.378	0.378	0.190	0.190	
								50	24	24.70	24.50	0.363	0.380	0.179	0.187	56
					Right Tilt	21100	2535.0	1	49	25.70	25.70	0.096	0.096	0.053	0.053	
								50	24	24.70	24.50	0.079	0.083	0.044	0.046	
	Body & Hotspot	QPSK	Mode B	5	Rear	21100	2535.0	1	49	20.75	20.60	0.579	0.599	0.257	0.266	
								50	24	20.75	20.60	0.608	0.629	0.268	0.277	57
					Front	21100	2535.0	1	49	20.75	20.60	0.373	0.386	0.153	0.158	
								50	24	20.75	20.60	0.382	0.395	0.157	0.163	
	Hotspot	QPSK	Mode B	5	Edge 2	20850	2510.0	1	49	20.75	20.60	0.847	0.877	0.358	0.371	
								50	24	20.75	20.60	0.897	0.929	0.377	0.390	58
						21100	2535.0	1	49	20.75	20.60	0.830	0.859	0.357	0.370	
								50	24	20.75	20.60	0.874	0.905	0.374	0.387	
					21350	2560.0	2560.0	100	0	20.75	20.60	0.866	0.896	0.370	0.383	
								1	49	20.75	20.60	0.760	0.787	0.327	0.338	
								50	24	20.75	20.60	0.794	0.822	0.340	0.352	
					Edge 3	21100	2535.0	1	49	20.75	20.60	0.568	0.588	0.207	0.214	
								50	24	20.75	20.60	0.559	0.579	0.205	0.212	
					Edge 4	21100	2535.0	1	49	20.75	20.60	0.124	0.128	0.055	0.057	
								50	24	20.75	20.60	0.141	0.146	0.062	0.064	
ANT2	Head	QPSK	Mode A	0	Left Touch	21100	2535.0	1	49	17.50	17.25	0.701	0.743	0.271	0.287	
								50	24	17.50	17.25	0.736	0.780	0.284	0.301	
					Left Tilt	20850	2510.0	1	49	17.50	17.25	0.856	0.907	0.323	0.342	
								50	24	17.50	17.25	0.885	0.937	0.333	0.353	59
						21100	2535.0	1	49	17.50	17.25	0.820	0.869	0.308	0.326	
								50	24	17.50	17.25	0.860	0.911	0.322	0.341	
						21350	2560.0	100	0	17.50	17.25	0.858	0.909	0.322	0.341	
								1	49	17.50	17.25	0.799	0.846	0.299	0.317	
					Right Touch	21100	2535.0	50	24	17.50	17.25	0.815	0.863	0.305	0.323	
								1	49	17.50	17.25	0.551	0.584	0.226	0.239	
					Right Tilt	21100	2535.0	50	24	17.50	17.25	0.567	0.601	0.233	0.247	
								1	49	17.50	17.25	0.514	0.544	0.199	0.211	
								50	24	17.50	17.25	0.526	0.557	0.203	0.215	
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	1	49	19.50	19.40	0.968	0.991	0.401	0.410	60
								50	24	19.50	19.40	0.933	0.955	0.382	0.391	
						21100	2535.0	1	49	19.50	19.35	0.780	0.807	0.330	0.342	
								50	24	19.50	19.35	0.823	0.852	0.347	0.359	
					21350	2560.0	2560.0	100	0	19.50	19.35	0.830	0.859	0.349	0.361	
								1	49	19.50	19.40	0.935	0.957	0.384	0.393	
					Front	21100	2535.0	50	24	19.50	19.40	0.927	0.949	0.380	0.389	
								1	49	19.50	19.35	0.618	0.640	0.253	0.262	
								50	24	19.50	19.35	0.542	0.561	0.226	0.234	
	Hotspot	QPSK	Mode B	5	Edge 1	20850	2510.0	1	49	19.50	19.40	0.952	0.974	0.364	0.372	
								50	24	19.50	19.40	0.818	0.837	0.314	0.321	
						21100	2535.0	1	49	19.50	19.35	0.895	0.926	0.341	0.353	
								50	24	19.50	19.35	0.923	0.955	0.353	0.365	
					21350	2560.0	2560.0	100	0	19.50	19.35	0.942	0.975	0.359	0.372	
								1	49	19.50	19.40	0.875	0.895	0.334	0.342	
					Edge 2	21100	2535.0	50	24	19.50	19.40	0.874	0.894	0.334	0.342	
								1	49	19.50	19.35	0.066	0.068	0.027	0.028	
					Edge 4	21100	2535.0	50	24	19.50	19.35	0.064	0.066	0.029	0.030	
								1	49	19.50	19.35	0.518	0.536	0.231	0.239	
								50	24	19.50	19.35	0.578	0.598	0.252	0.261	

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3	Head	QPSK	Mode A	0	Left Touch	21100	2535.0	1	49	24.70	24.30	0.355	0.389	0.201	0.220	61
								50	24	23.70	23.50	0.300	0.314	0.168	0.176	
					Left Tilt	21100	2535.0	1	49	24.70	24.30	0.120	0.132	0.068	0.074	
								50	24	23.70	23.50	0.099	0.103	0.056	0.059	
					Right Touch	21100	2535.0	1	49	24.70	24.30	0.257	0.282	0.151	0.166	
								50	24	23.70	23.50	0.198	0.207	0.116	0.121	
					Right Tilt	21100	2535.0	1	49	24.70	24.30	0.210	0.230	0.115	0.126	
								50	24	23.70	23.50	0.155	0.162	0.086	0.090	
	Body & Hotspot	QPSK	Mode B	5	Rear	21100	2535.0	1	49	20.50	20.50	0.760	0.760	0.379	0.379	
								50	24	20.50	20.50	0.789	0.789	0.392	0.392	62
					Front	21100	2535.0	1	49	20.50	20.50	0.577	0.577	0.290	0.290	
								50	24	20.50	20.50	0.596	0.596	0.300	0.300	
	Hotspot	QPSK	Mode B	5	Edge 3	21100	2535.0	1	49	20.50	20.50	0.103	0.103	0.049	0.049	
								50	24	20.50	20.50	0.107	0.107	0.051	0.051	
					Edge 4	20850	2510.0	1	49	20.50	20.50	0.813	0.813	0.350	0.350	
								50	24	20.50	20.50	0.809	0.809	0.351	0.351	
								1	49	20.50	20.50	0.885	0.885	0.394	0.394	
								50	24	20.50	20.50	0.952	0.952	0.421	0.421	
						21100	2535.0	100	0	20.50	20.50	0.964	0.964	0.424	0.424	
								1	49	20.50	20.50	0.988	0.988	0.422	0.422	63
								50	24	20.50	20.50	0.805	0.805	0.353	0.353	
						21350	2560.0	1	49	20.50	20.50	0.988	0.988	0.422	0.422	
								50	24	20.50	20.50	0.805	0.805	0.353	0.353	
ANT4	Head	QPSK	Mode A	0	Left Touch	20850	2510.0	1	49	19.50	19.25	0.890	0.943	0.449	0.476	
								50	24	19.50	19.25	0.908	0.962	0.458	0.485	64
						21100	2535.0	1	49	19.50	19.25	0.831	0.880	0.415	0.440	
								50	24	19.50	19.25	0.827	0.876	0.425	0.450	
					Left Tilt	21100	2535.0	1	49	19.50	19.25	0.756	0.801	0.390	0.413	
								50	24	19.50	19.25	0.783	0.829	0.404	0.428	
					Right Touch	21100	2535.0	1	49	19.50	19.25	0.588	0.623	0.280	0.297	
								50	24	19.50	19.25	0.604	0.640	0.287	0.304	
					Right Tilt	21100	2535.0	1	49	19.50	19.25	0.254	0.269	0.142	0.150	
								50	24	19.50	19.25	0.265	0.281	0.147	0.156	
	Body & Hotspot	QPSK	Mode B	5	Rear	21100	2535.0	1	49	18.50	18.50	0.457	0.457	0.235	0.235	
								50	24	18.50	18.30	0.473	0.495	0.243	0.254	65
					Front	21100	2535.0	1	49	18.50	18.50	0.310	0.310	0.152	0.152	
								50	24	18.50	18.30	0.321	0.336	0.158	0.165	
	Hotspot	QPSK	Mode B	5	Edge 1	21100	2535.0	1	49	18.50	18.50	0.134	0.134	0.052	0.052	
								50	24	18.50	18.30	0.157	0.164	0.060	0.063	
					Edge 2	20850	2510.0	1	49	18.50	18.50	0.732	0.732	0.320	0.320	
								50	24	18.50	18.30	0.774	0.810	0.337	0.353	
						21100	2535.0	1	49	18.50	18.50	0.876	0.876	0.375	0.375	
								50	24	18.50	18.30	0.781	0.818	0.342	0.358	
						21350	2560.0	100	0	18.50	18.50	0.970	0.970	0.405	0.405	66
								1	49	18.50	18.50	0.699	0.699	0.299	0.299	
								50	24	18.50	18.30	0.761	0.797	0.324	0.339	

UL CA 7C

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 1	Head	QPSK	Mode A	0	Right Touch	21001	2525.1	1	99	21199	2544.9	1	0	25.70	25.49	0.147	0.154	0.068	0.071	
ANT 1	Body	QPSK	Mode B	5	Rear	21001	2525.1	1	99	21199	2544.9	1	0	20.75	20.54	0.530	0.556	0.240	0.252	
ANT 1	Hotspot	QPSK	Mode B	5	Edge 2	20850	2510.0	1	99	21048	2529.8	1	0	20.75	20.39	0.795	0.864	0.339	0.368	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	20850	2510.0	1	99	21048	2529.8	1	0	17.50	17.33	0.634	0.659	0.233	0.242	
ANT 2	Body	QPSK	Mode B	5	Rear	20850	2510.0	1	99	21048	2529.8	1	0	19.50	19.63	0.463	0.449	0.201	0.195	
ANT 3	Head	QPSK	Mode A	0	Left Touch	21001	2525.1	1	99	21199	2544.9	1	0	24.70	24.30	0.276	0.303	0.154	0.169	
ANT 3	Body	QPSK	Mode B	5	Rear	21001	2525.1	1	99	21199	2544.9	1	0	20.50	20.34	0.756	0.784	0.389	0.404	
ANT 3	Hotspot	QPSK	Mode B	5	Edge 4	21152	2540.2	1	99	21350	2560.0	1	0	20.50	20.39	0.468	0.480	0.205	0.210	
ANT 4	Head	QPSK	Mode A	0	Left Touch	20850	2510.0	1	99	21048	2529.8	1	0	19.50	19.32	0.329	0.343	0.157	0.164	
ANT 4	Body	QPSK	Mode B	5	Rear	21001	2525.1	1	99	21199	2544.9	1	0	18.50	18.26	0.213	0.225	0.117	0.124	
ANT 4	Hotspot	QPSK	Mode B	5	Edge 2	21001	2525.1	1	99	21199	2544.9	1	0	18.50	18.45	0.431	0.436	0.184	0.186	

Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

10.11. LTE Band 12 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	23095	707.5	1	25	25.70	25.70	0.111	0.111	0.089	0.089	
								25	12	24.70	24.70	0.096	0.096	0.077	0.077	
					Left Tilt	23095	707.5	1	25	25.70	25.70	0.077	0.077	0.063	0.063	
								25	12	24.70	24.70	0.069	0.069	0.057	0.057	
					Right Touch	23095	707.5	1	25	25.70	25.70	0.123	0.123	0.098	0.098	67
								25	12	24.70	24.70	0.117	0.117	0.093	0.093	
					Right Tilt	23095	707.5	1	25	25.70	25.70	0.080	0.080	0.066	0.066	
								25	12	24.70	24.70	0.068	0.068	0.057	0.057	
	Body & Hotspot	QPSK	Mode B	5	Rear	23095	707.5	1	25	25.70	25.70	0.347	0.347	0.221	0.221	68
								25	12	24.70	24.70	0.286	0.286	0.191	0.191	
					Front	23095	707.5	1	25	25.70	25.70	0.230	0.230	0.149	0.149	
								25	12	24.70	24.70	0.188	0.188	0.123	0.123	
	Hotspot	QPSK	Mode B	5	Edge 2	23095	707.5	1	25	25.70	25.70	0.785	0.785	0.514	0.514	69
								25	12	24.70	24.70	0.655	0.655	0.428	0.428	
					Edge 3	23095	707.5	1	25	25.70	25.70	0.204	0.204	0.103	0.103	
								25	12	24.70	24.70	0.172	0.172	0.088	0.088	
					Edge 4	23095	707.5	1	25	25.70	25.70	0.446	0.446	0.294	0.294	
								25	12	24.70	24.70	0.370	0.370	0.244	0.244	

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	QPSK	Mode A	0	Left Touch	23095	707.5	1	25	23.90	23.50	0.199	0.218	0.199	0.218	
								25	12	22.90	22.50	0.172	0.189	0.172	0.189	
					Left Tilt	23095	707.5	1	25	23.90	23.50	0.164	0.180	0.164	0.180	
								25	12	22.90	22.50	0.137	0.150	0.137	0.150	
					Right Touch	23095	707.5	1	25	23.90	23.50	0.349	0.383	0.238	0.261	70
								25	12	22.90	22.50	0.200	0.219	0.200	0.219	
					Right Tilt	23095	707.5	1	25	23.90	23.50	0.235	0.258	0.235	0.258	
								25	12	22.90	22.50	0.198	0.217	0.198	0.217	
	Body & Hotspot	QPSK	Mode B	5	Rear	23095	707.5	1	25	23.90	23.50	0.230	0.252	0.140	0.154	71
								25	12	22.90	22.50	0.136	0.149	0.136	0.149	
					Front	23095	707.5	1	25	23.90	23.50	0.105	0.115	0.105	0.115	
								25	12	22.90	22.50	0.088	0.096	0.088	0.096	
	Hotspot	QPSK	Mode B	5	Edge 1	23095	707.5	1	25	23.90	23.50	0.052	0.057	0.052	0.057	
								25	12	22.90	22.50	0.043	0.047	0.043	0.047	
					Edge 2	23095	707.5	1	25	23.90	23.50	0.113	0.124	0.113	0.124	
								25	12	22.90	22.50	0.096	0.105	0.096	0.105	
					Edge 4	23095	707.5	1	25	23.90	23.50	0.405	0.444	0.267	0.293	72
								25	12	22.90	22.50	0.221	0.242	0.221	0.242	

10.12. LTE Band 13 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	23230	782.0	1	25	25.70	25.20	0.116	0.130	0.092	0.103	
								25	12	24.70	24.40	0.104	0.111	0.083	0.089	
					Left Tilt	23230	782.0	1	25	25.70	25.20	0.068	0.076	0.055	0.062	
								25	12	24.70	24.40	0.059	0.063	0.048	0.051	
					Right Touch	23230	782.0	1	25	25.70	25.20	0.121	0.136	0.096	0.108	73
								25	12	24.70	24.40	0.103	0.110	0.083	0.089	
					Right Tilt	23230	782.0	1	25	25.70	25.20	0.058	0.065	0.050	0.056	
								25	12	24.70	24.40	0.051	0.055	0.043	0.046	
	Body & Hotspot	QPSK	Mode B	5	Rear	23230	782.0	1	25	25.70	25.20	0.281	0.315	0.188	0.211	74
								25	12	24.70	24.40	0.259	0.278	0.173	0.185	
					Front	23230	782.0	1	25	25.70	25.20	0.249	0.279	0.169	0.190	
								25	12	24.70	24.40	0.181	0.194	0.122	0.131	
	Hotspot	QPSK	Mode B	5	Edge 2	23230	782.0	1	25	25.70	25.20	0.561	0.629	0.365	0.410	75
								25	12	24.70	24.40	0.490	0.525	0.311	0.333	
					Edge 3	23230	782.0	1	25	25.70	25.20	0.172	0.193	0.098	0.110	
								25	12	24.70	24.40	0.152	0.163	0.087	0.093	
					Edge 4	23230	782.0	1	25	25.70	25.20	0.321	0.360	0.209	0.235	
								25	12	24.70	24.40	0.263	0.282	0.173	0.185	

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	QPSK	Mode A	0	Left Touch	23230	782.0	1	25	23.90	23.50	0.279	0.306	0.202	0.221	
								25	12	22.90	22.60	0.249	0.267	0.181	0.194	
					Left Tilt	23230	782.0	1	25	23.90	23.50	0.251	0.275	0.148	0.162	
								25	12	22.90	22.60	0.215	0.230	0.127	0.136	
					Right Touch	23230	782.0	1	25	23.90	23.50	0.404	0.443	0.274	0.300	76
								25	12	22.90	22.60	0.309	0.331	0.217	0.233	
					Right Tilt	23230	782.0	1	25	23.90	23.50	0.335	0.367	0.186	0.204	
								25	12	22.90	22.60	0.287	0.308	0.160	0.171	
	Body & Hotspot	QPSK	Mode B	5	Rear	23230	782.0	1	25	23.90	23.50	0.183	0.201	0.106	0.116	77
								25	12	22.90	22.60	0.151	0.162	0.088	0.094	
					Front	23230	782.0	1	25	23.90	23.50	0.109	0.120	0.075	0.082	
								25	12	22.90	22.60	0.092	0.099	0.063	0.068	
	Hotspot	QPSK	Mode B	5	Edge 1	23230	782.0	1	25	23.90	23.50	0.092	0.101	0.053	0.058	
								25	12	22.90	22.60	0.075	0.080	0.044	0.047	
					Edge 2	23230	782.0	1	25	23.90	23.50	0.104	0.114	0.070	0.076	
								25	12	22.90	22.60	0.062	0.067	0.043	0.046	
					Edge 4	23230	782.0	1	25	23.90	23.50	0.112	0.123	0.075	0.083	
								25	12	22.90	22.60	0.078	0.084	0.054	0.057	

10.13. LTE Band 14 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	23330	793.0	1	25	25.70	25.20	0.105	0.118	0.085	0.095	
								25	12	24.70	24.21	0.089	0.100	0.072	0.081	
					Left Tilt	23330	793.0	1	25	25.70	25.20	0.069	0.077	0.056	0.063	
								25	12	24.70	24.21	0.056	0.063	0.046	0.051	
					Right Touch	23330	793.0	1	25	25.70	25.20	0.121	0.136	0.098	0.110	78
								25	12	24.70	24.21	0.111	0.124	0.088	0.099	
					Right Tilt	23330	793.0	1	25	25.70	25.20	0.073	0.082	0.060	0.067	
								25	12	24.70	24.21	0.059	0.066	0.050	0.056	
	Body & Hotspot	QPSK	Mode B	5	Rear	23330	793.0	1	25	25.70	25.20	0.364	0.408	0.236	0.265	79
								25	12	24.70	24.21	0.299	0.335	0.194	0.217	
					Front	23330	793.0	1	25	25.70	25.20	0.191	0.214	0.131	0.147	
								25	12	24.70	24.21	0.169	0.189	0.116	0.130	
					Hotspot	23330	793.0	1	25	25.70	25.20	0.550	0.617	0.354	0.397	80
								25	12	24.70	24.21	0.518	0.580	0.335	0.375	
								1	25	25.70	25.20	0.164	0.184	0.096	0.107	
								25	12	24.70	24.21	0.146	0.163	0.086	0.096	
					Edge 4	23330	793.0	1	25	25.70	25.20	0.332	0.373	0.217	0.243	
								25	12	24.70	24.21	0.325	0.364	0.212	0.237	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	QPSK	Mode A	0	Left Touch	23330	793.0	1	25	23.90	23.60	0.276	0.296	0.200	0.214	
								25	12	22.90	22.56	0.222	0.240	0.163	0.176	
					Left Tilt	23330	793.0	1	25	23.90	23.60	0.180	0.193	0.113	0.121	
								25	12	22.90	22.56	0.141	0.152	0.091	0.098	
					Right Touch	23330	793.0	1	25	23.90	23.60	0.344	0.369	0.231	0.248	81
								25	12	22.90	22.56	0.282	0.305	0.192	0.208	
					Right Tilt	23330	793.0	1	25	23.90	23.60	0.299	0.320	0.166	0.178	
								25	12	22.90	22.56	0.249	0.269	0.140	0.151	
	Body & Hotspot	QPSK	Mode B	5	Rear	23330	793.0	1	25	23.90	23.60	0.318	0.341	0.189	0.203	82
								25	12	22.90	22.56	0.303	0.328	0.180	0.195	
					Front	23330	793.0	1	25	23.90	23.60	0.150	0.161	0.101	0.108	
								25	12	22.90	22.56	0.146	0.158	0.100	0.108	
					Hotspot	23330	793.0	1	25	23.90	23.60	0.112	0.120	0.063	0.068	
								25	12	22.90	22.56	0.092	0.099	0.053	0.057	
								1	25	23.90	23.60	0.148	0.159	0.099	0.106	
								25	12	22.90	22.56	0.142	0.154	0.095	0.103	
					Edge 4	23330	793.0	1	25	23.90	23.60	0.222	0.238	0.147	0.158	
								25	12	22.90	22.56	0.183	0.198	0.122	0.132	

10.14. LTE Band 25 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.				
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled					
ANT1	Head	QPSK	Mode A	0	Left Touch	26365	1882.5	1	49	25.70	25.70	0.194	0.194	0.102	0.102					
								50	24	24.70	24.70	0.142	0.142	0.091	0.091					
					Left Tilt	26365	1882.5	1	49	25.70	25.70	0.114	0.114	0.067	0.067					
								50	24	24.70	24.70	0.090	0.090	0.053	0.053					
					Right Touch	26365	1882.5	1	49	25.70	25.70	0.340	0.340	0.210	0.210	83				
								50	24	24.70	24.70	0.319	0.319	0.196	0.196					
					Right Tilt	26365	1882.5	1	49	25.70	25.70	0.096	0.096	0.061	0.061					
								50	24	24.70	24.70	0.083	0.083	0.052	0.052					
					Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	21.00	20.60	0.778	0.853	0.363	0.398	
												50	24	21.00	20.60	0.804	0.882	0.374	0.410	
	26365	1882.5	1	49						21.00	20.60	0.805	0.883	0.375	0.411					
			50	24						21.00	20.60	0.809	0.887	0.375	0.411	84				
	26590	1905.0	100	0						21.00	20.60	0.798	0.875	0.372	0.408					
			1	49						21.00	20.60	0.788	0.864	0.367	0.402					
	Front	26365	1882.5	50					24	21.00	20.60	0.787	0.863	0.368	0.404					
				1					49	21.00	20.60	0.420	0.461	0.221	0.242					
				50					24	21.00	20.60	0.418	0.458	0.220	0.241					
				1					49	21.00	20.60	0.597	0.655	0.274	0.300					
	Hotspot	QPSK	Mode B	5	Edge 2	26365	1882.5	50	24	21.00	20.60	0.603	0.661	0.276	0.303					
								1	49	21.00	20.60	0.442	0.485	0.221	0.242					
					Edge 3	26365	1882.5	50	24	21.00	20.60	0.439	0.481	0.220	0.241					
								1	49	21.00	20.60	0.022	0.024	0.011	0.012					
					Edge 4	26365	1882.5	50	24	21.00	20.60	0.021	0.023	0.010	0.011					

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	QPSK	Mode A	0	Left Touch	26365	1882.5	1	49	20.50	20.25	0.178	0.189	0.104	0.110	
								50	24	20.50	20.25	0.181	0.192	0.106	0.112	
					Left Tilt	26365	1882.5	1	49	20.50	20.25	0.139	0.147	0.077	0.082	
								50	24	20.50	20.25	0.141	0.149	0.078	0.083	
					Right Touch	26140	1860.0	1	49	20.50	20.25	0.776	0.822	0.408	0.432	
								50	24	20.50	20.25	0.804	0.852	0.423	0.448	
						26365	1882.5	1	49	20.50	20.25	0.800	0.847	0.418	0.443	
								50	24	20.50	20.25	0.825	0.874	0.427	0.452	
								100	0	20.50	20.25	0.826	0.875	0.430	0.455	
						26590	1905.0	1	49	20.50	20.25	0.836	0.886	0.437	0.463	
								50	24	20.50	20.25	0.844	0.894	0.443	0.469	85
					Right Tilt	26365	1882.5	1	49	20.50	20.25	0.601	0.637	0.280	0.297	
								50	24	20.50	20.25	0.614	0.650	0.286	0.303	
	Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	20.50	20.25	0.751	0.795	0.364	0.386	
								50	24	20.50	20.25	0.783	0.829	0.378	0.400	
						26365	1882.5	1	49	20.50	20.25	0.774	0.820	0.379	0.401	
								50	24	20.50	20.25	0.786	0.833	0.385	0.408	
								100	0	20.50	20.25	0.780	0.826	0.376	0.398	
						26590	1905.0	1	49	20.50	20.25	0.808	0.856	0.389	0.412	
								50	24	20.50	20.25	0.810	0.858	0.391	0.414	86
					Front	26365	1882.5	1	49	20.50	20.25	0.389	0.412	0.203	0.215	
								50	24	20.50	20.25	0.395	0.418	0.206	0.218	
	Hotspot	QPSK	Mode B	5	Edge 1	26365	1882.5	1	49	20.50	20.25	0.200	0.212	0.081	0.085	
								50	24	20.50	20.25	0.200	0.212	0.080	0.085	
					Edge 2	26365	1882.5	1	49	20.50	20.25	0.026	0.028	0.014	0.015	
								50	24	20.50	20.25	0.025	0.027	0.014	0.015	
					Edge 4	26365	1882.5	1	49	20.50	20.25	0.515	0.546	0.271	0.287	
								50	24	20.50	20.25	0.581	0.615	0.301	0.319	

Antenna	RF Exposure Conditions	Mode	Pow er Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3	Head	QPSK	Mode A	0	Left Touch	26365	1882.5	1	49	24.70	24.50	0.270	0.283	0.171	0.179	87
								50	24	23.70	23.40	0.230	0.246	0.142	0.152	
					Left Tilt	26365	1882.5	1	49	24.70	24.50	0.095	0.099	0.059	0.062	
								50	24	23.70	23.40	0.079	0.085	0.050	0.054	
					Right Touch	26365	1882.5	1	49	24.70	24.50	0.147	0.154	0.095	0.099	
								50	24	23.70	23.40	0.116	0.124	0.075	0.080	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	26365	1882.5	1	49	24.70	24.50	0.124	0.130	0.070	0.073	
								50	24	23.70	23.40	0.089	0.095	0.051	0.055	
					Rear	26365	1882.5	1	49	21.00	20.50	0.639	0.717	0.357	0.401	
								50	24	21.00	20.50	0.650	0.729	0.359	0.403	88
					Front	26365	1882.5	1	49	21.00	20.50	0.433	0.486	0.248	0.278	
								50	24	21.00	20.50	0.442	0.496	0.249	0.279	
	Hotspot	QPSK	Mode B	5	Edge 3	26365	1882.5	1	49	21.00	20.50	0.222	0.249	0.120	0.135	
								50	24	21.00	20.50	0.228	0.256	0.123	0.138	
					Edge 4	26140	1860.0	1	49	21.00	20.50	0.680	0.763	0.352	0.395	
								50	24	21.00	20.50	0.700	0.785	0.362	0.406	
						26365	1882.5	1	49	21.00	20.50	0.728	0.817	0.377	0.423	
								50	24	21.00	20.50	0.744	0.835	0.383	0.430	89
						26590	1905.0	100	0	21.00	20.50	0.738	0.828	0.380	0.426	
								1	49	21.00	20.50	0.638	0.716	0.336	0.377	
						50	24	21.00	20.50	0.654	0.734	0.343	0.385			

Antenna	RF Exposure Conditions	Mode	Pow er Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT4	Head	QPSK	Mode A	0	Left Touch	26140	1860.0	1	49	19.25	19.00	0.888	0.941	0.474	0.502	
								50	24	19.25	19.00	0.889	0.942	0.476	0.504	
						26365	1882.5	1	49	19.25	19.00	0.846	0.896	0.452	0.479	
								50	24	19.25	19.00	0.865	0.916	0.462	0.489	
						100	0	19.25	19.00	0.868	0.919	0.463	0.490			
						26590	1905.0	1	49	19.25	19.00	0.884	0.936	0.477	0.505	
					50	24	19.25	19.00	0.905	0.959	0.487	0.516	90			
					Left Tilt	26140	1860.0	1	49	19.25	19.00	0.700	0.741	0.339	0.359	
								50	24	19.25	19.00	0.720	0.763	0.348	0.369	
						26365	1882.5	1	49	19.25	19.00	0.772	0.818	0.374	0.396	
								50	24	19.25	19.00	0.756	0.801	0.377	0.399	
						100	0	19.25	19.00	0.709	0.751	0.341	0.361			
						26590	1905.0	1	49	19.25	19.00	0.724	0.767	0.353	0.374	
					50	24	19.25	19.00	0.748	0.792	0.364	0.386				
					Right Touch	26365	1882.5	1	49	19.25	19.00	0.255	0.270	0.152	0.161	
								50	24	19.25	19.00	0.256	0.271	0.153	0.162	
					Right Tilt	26365	1882.5	1	49	19.25	19.00	0.196	0.208	0.102	0.108	
								50	24	19.25	19.00	0.202	0.214	0.105	0.111	
	Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	20.00	19.70	0.837	0.897	0.443	0.475	
								50	24	20.00	19.70	0.859	0.920	0.454	0.486	
						26365	1882.5	1	49	20.00	19.70	0.834	0.894	0.441	0.473	
								50	24	20.00	19.70	0.861	0.923	0.457	0.490	
						26590	1905.0	100	0	20.00	19.70	0.862	0.924	0.457	0.490	
								1	49	20.00	19.70	0.836	0.896	0.443	0.475	
					Front	26590	1905.0	50	24	20.00	19.70	0.865	0.927	0.459	0.492	91
								1	49	20.00	19.70	0.592	0.634	0.332	0.356	
						26365	1882.5	50	24	20.00	19.70	0.484	0.519	0.272	0.291	
								1	49	20.00	19.70	0.350	0.375	0.144	0.154	
	Hotspot	QPSK	Mode B	5	Edge 1	26365	1882.5	50	24	20.00	19.70	0.281	0.301	0.115	0.123	
								1	49	20.00	19.70	0.699	0.749	0.343	0.368	
					26140	1860.0	50	24	20.00	19.70	0.727	0.779	0.356	0.381		
							1	49	20.00	19.70	0.747	0.800	0.370	0.396		
					26365	1882.5	50	24	20.00	19.70	0.760	0.814	0.375	0.402		
							100	0	20.00	19.70	0.749	0.803	0.369	0.395		
					26590	1905.0	1	49	20.00	19.70	0.742	0.795	0.366	0.392		
							50	24	20.00	19.70	0.763	0.818	0.375	0.402		

10.15. LTE Band 26 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	26865	831.5	1	25	25.70	25.20	0.160	0.180	0.124	0.139	92
								25	12	24.70	24.20	0.106	0.119	0.084	0.094	
					Left Tilt	26865	831.5	1	25	25.70	25.20	0.091	0.102	0.071	0.080	
								25	12	24.70	24.20	0.054	0.061	0.043	0.048	
					Right Touch	26865	831.5	1	25	25.70	25.20	0.194	0.218	0.149	0.167	
								25	12	24.70	24.20	0.125	0.140	0.097	0.109	
					Right Tilt	26865	831.5	1	25	25.70	25.20	0.095	0.106	0.075	0.084	
								25	12	24.70	24.20	0.054	0.061	0.044	0.049	
	Body & Hotspot	QPSK	Mode B	5	Rear	26865	831.5	1	25	25.70	25.20	0.387	0.434	0.259	0.291	93
								25	12	24.70	24.20	0.335	0.376	0.227	0.255	
					Front	26865	831.5	1	25	25.70	25.20	0.254	0.285	0.168	0.188	
								25	12	24.70	24.20	0.204	0.229	0.136	0.153	
					Edge 2	26865	831.5	1	25	25.70	25.20	0.382	0.429	0.244	0.274	
								25	12	24.70	24.20	0.291	0.327	0.187	0.210	
	Hotspot	QPSK	Mode B	5	Edge 3	26865	831.5	1	25	25.70	25.20	0.198	0.222	0.103	0.116	
								25	12	24.70	24.20	0.157	0.176	0.082	0.092	
					Edge 4	26865	831.5	1	25	25.70	25.20	0.159	0.178	0.101	0.113	
								25	12	24.70	24.20	0.123	0.138	0.078	0.088	

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	QPSK	Mode A	0	Left Touch	26865	831.5	1	25	23.90	23.60	0.588	0.630	0.420	0.450	94
								25	12	22.90	22.80	0.375	0.384	0.264	0.270	
					Left Tilt	26865	831.5	1	25	23.90	23.60	0.391	0.419	0.230	0.246	
								25	12	22.90	22.80	0.235	0.240	0.147	0.150	
					Right Touch	26865	831.5	1	25	23.90	23.60	0.613	0.657	0.447	0.479	
								25	12	22.90	22.80	0.418	0.428	0.303	0.310	
					Right Tilt	26865	831.5	1	25	23.90	23.60	0.478	0.512	0.261	0.280	
								25	12	22.90	22.80	0.284	0.291	0.164	0.168	
	Body & Hotspot	QPSK	Mode B	5	Rear	26865	831.5	1	25	23.90	23.60	0.440	0.471	0.272	0.291	95
								25	12	22.90	22.80	0.362	0.370	0.224	0.229	
					Front	26865	831.5	1	25	23.90	23.60	0.370	0.396	0.240	0.257	
								25	12	22.90	22.80	0.251	0.257	0.164	0.168	
					Edge 1	26865	831.5	1	25	23.90	23.60	0.123	0.132	0.070	0.075	
								25	12	22.90	22.80	0.117	0.120	0.064	0.065	
	Hotspot	QPSK	Mode B	5	Edge 2	26865	831.5	1	25	23.90	23.60	0.135	0.145	0.087	0.093	
								25	12	22.90	22.80	0.097	0.099	0.062	0.063	
					Edge 4	26865	831.5	1	25	23.90	23.60	0.236	0.253	0.155	0.166	
								25	12	22.90	22.80	0.165	0.169	0.109	0.112	

10.16. LTE Band 30 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	27710	2310.0	1	25	25.70	25.20	0.194	0.218	0.116	0.130	
								25	12	24.70	24.30	0.178	0.195	0.105	0.115	
					Left Tilt	27710	2310.0	1	25	25.70	25.20	0.129	0.145	0.070	0.079	
								25	12	24.70	24.30	0.113	0.124	0.061	0.067	
					Right Touch	27710	2310.0	1	25	25.70	25.20	0.585	0.656	0.298	0.334	96
								25	12	24.70	24.30	0.499	0.547	0.253	0.277	
					Right Tilt	27710	2310.0	1	25	25.70	25.20	0.107	0.120	0.063	0.071	
								25	12	24.70	24.30	0.085	0.093	0.050	0.055	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	25	21.25	21.25	0.637	0.637	0.293	0.293	
								25	12	21.25	21.25	0.664	0.664	0.304	0.304	
					Front	27710	2310.0	1	25	21.25	21.25	0.551	0.551	0.245	0.245	
								25	12	21.25	21.25	0.579	0.579	0.257	0.257	
	Hotspot	QPSK	Mode B	5	Edge 2	27710	2310.0	1	25	21.25	21.25	0.945	0.945	0.404	0.404	
								25	12	21.25	21.25	0.990	0.990	0.420	0.420	
								50	0	21.25	21.25	0.985	0.985	0.418	0.418	
					Edge 3	27710	2310.0	1	25	21.25	21.25	0.306	0.306	0.131	0.131	
								25	12	21.25	21.25	0.322	0.322	0.138	0.138	
								1	25	21.25	21.25	0.057	0.057	0.032	0.032	
					Edge 4	27710	2310.0	1	25	21.25	21.25	0.063	0.063	0.035	0.035	
								25	12	21.25	21.25	0.063	0.063	0.035	0.035	
ANT2	Head	QPSK	Mode A	0	Left Touch	27710	2310.0	1	25	21.00	21.00	0.726	0.726	0.301	0.301	
								25	12	21.00	21.00	0.766	0.766	0.315	0.315	
					Left Tilt	27710	2310.0	1	25	21.00	21.00	0.898	0.898	0.354	0.354	
								25	12	21.00	21.00	0.949	0.949	0.374	0.374	
								50	0	21.00	21.00	0.945	0.945	0.373	0.373	
					Right Touch	27710	2310.0	1	25	21.00	21.00	0.926	0.926	0.416	0.416	
								25	12	21.00	21.00	0.944	0.944	0.424	0.424	
								50	0	21.00	21.00	0.938	0.938	0.421	0.421	
					Right Tilt	27710	2310.0	1	25	21.00	21.00	0.710	0.710	0.289	0.289	
								25	12	21.00	21.00	0.751	0.751	0.306	0.306	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	25	21.00	21.00	0.589	0.589	0.289	0.289	
								25	12	21.00	21.00	0.614	0.614	0.281	0.281	
					Front	27710	2310.0	1	25	21.00	21.00	0.553	0.553	0.238	0.238	
								25	12	21.00	21.00	0.580	0.580	0.247	0.247	
	Hotspot	QPSK	Mode B	5	Edge 1	27710	2310.0	1	25	21.00	21.00	0.835	0.835	0.343	0.343	
								25	12	21.00	21.00	0.868	0.868	0.357	0.357	
								50	0	21.00	21.00	0.876	0.876	0.359	0.359	
					Edge 2	27710	2310.0	1	25	21.00	21.00	0.038	0.038	0.020	0.020	
								25	12	21.00	21.00	0.042	0.042	0.022	0.022	
								1	25	21.00	21.00	0.823	0.823	0.391	0.391	
					Edge 4	27710	2310.0	25	12	21.00	21.00	0.872	0.872	0.413	0.413	
								50	0	21.00	21.00	0.954	0.954	0.429	0.429	

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.			
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled				
ANT3	Head	QPSK	Mode A	0	Left Touch	27710	2310.0	1	25	24.70	24.20	0.602	0.675	0.341	0.383	102			
								25	12	23.70	23.30	0.504	0.553	0.290	0.318				
					Left Tilt	27710	2310.0	1	25	24.70	24.20	0.168	0.188	0.090	0.101				
								25	12	23.70	23.30	0.146	0.160	0.080	0.088				
					Right Touch	27710	2310.0	1	25	24.70	24.20	0.291	0.327	0.168	0.188				
								25	12	23.70	23.30	0.243	0.266	0.141	0.155				
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	25	19.50	19.50	0.845	0.845	0.397	0.397	103			
								25	12	19.50	19.50	0.890	0.890	0.417	0.417				
					Front	27710	2310.0	50	0	19.50	19.50	0.883	0.883	0.415	0.415				
								1	25	19.50	19.50	0.571	0.571	0.284	0.284				
								25	12	19.50	19.50	0.581	0.581	0.291	0.291				
								1	25	19.50	19.50	0.175	0.175	0.093	0.093				
	Hotspot	QPSK	Mode B	5	Edge 3	27710	2310.0	25	12	19.50	19.50	0.185	0.185	0.099	0.099				
								1	25	19.50	19.50	0.619	0.619	0.294	0.294				
					Edge 4	27710	2310.0	25	12	19.50	19.50	0.650	0.650	0.309	0.309				
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.			
ANT4	Head	QPSK	Mode A	0	Left Touch	27710	2310.0	1	25	20.00	19.75	0.848	0.898	0.435	0.461	104			
								25	12	20.00	19.75	0.879	0.931	0.453	0.480				
					Left Tilt	27710	2310.0	50	0	20.00	19.75	0.884	0.936	0.452	0.479				
								1	25	20.00	19.75	0.562	0.595	0.282	0.299				
					Right Touch	27710	2310.0	25	12	20.00	19.75	0.587	0.622	0.293	0.310				
								1	25	20.00	19.75	0.296	0.314	0.166	0.176				
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	27710	2310.0	25	12	20.00	19.75	0.319	0.338	0.180	0.191	105			
								1	25	20.00	19.75	0.307	0.325	0.173	0.183				
					Rear	27710	2310.0	25	12	20.00	19.75	0.319	0.338	0.180	0.191				
								1	25	19.00	19.00	0.757	0.757	0.396	0.396				
					Front	27710	2310.0	25	12	19.00	19.00	0.784	0.784	0.410	0.410				
								1	25	19.00	19.00	0.416	0.416	0.228	0.228				
	Hotspot	QPSK	Mode B	5	Edge 1	27710	2310.0	25	12	19.00	19.00	0.438	0.438	0.238	0.238	106			
								1	25	19.00	19.00	0.129	0.129	0.053	0.053				
					Edge 2	27710	2310.0	25	12	19.00	19.00	0.135	0.135	0.056	0.056				
								1	25	19.00	19.00	0.832	0.832	0.380	0.380				
								25	12	19.00	19.00	0.865	0.865	0.394	0.394				
								50	0	19.00	19.00	0.866	0.866	0.393	0.393				

UL CA 41C

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 1	Head	QPSK	Mode A	0	Right Touch	40521	2583.1	1	99	40719	2602.9	1	0	25.70	25.44	0.138	0.147	0.065	0.069	
ANT 1	Body	QPSK	Mode B	5	Rear	40521	2583.1	1	99	40719	2602.9	1	0	23.25	23.31	0.518	0.510	0.223	0.220	
ANT 1	Hotspot	QPSK	Mode B	5	Edge 2	39750	2506.0	1	99	39948	2525.8	1	0	23.25	23.28	0.827	0.821	0.350	0.348	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	39750	2506.0	1	99	39948	2525.8	1	0	20.00	19.54	0.872	0.969	0.322	0.358	
ANT 2	Body	QPSK	Mode B	5	Rear	40521	2583.1	1	99	40719	2602.9	1	0	22.75	22.18	0.476	0.542	0.199	0.227	
ANT 2	Hotspot	QPSK	Mode B	5	Edge 1	39750	2506.0	1	99	39948	2525.8	1	0	22.75	22.31	0.707	0.782	0.275	0.304	
ANT 3	Head	QPSK	Mode A	0	Left Touch	40521	2583.1	1	99	40719	2602.9	1	0	24.70	24.67	0.132	0.133	0.068	0.068	
ANT 3	Body	QPSK	Mode B	5	Rear	40521	2583.1	1	99	40719	2602.9	1	0	22.50	22.50	0.509	0.509	0.263	0.263	
ANT 3	Hotspot	QPSK	Mode B	5	Edge 4	41292	2660.2	1	99	41490	2680.0	1	0	22.50	22.26	0.516	0.545	0.223	0.236	
ANT 4	Head	QPSK	Mode A	0	Left Touch	41292	2660.2	1	99	41490	2680.0	1	0	21.75	21.36	0.888	0.972	0.790	0.865	
ANT 4	Body	QPSK	Mode B	5	Rear	40521	2583.1	1	99	40719	2602.9	1	0	20.50	20.08	0.308	0.339	0.153	0.169	
ANT 4	Hotspot	QPSK	Mode B	5	Edge 2	39750	2506.0	1	99	39948	2525.8	1	0	20.50	20.33	0.770	0.801	0.342	0.356	

Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.
Additional SAR for UL CA PC2 is not required. Test reduction has been applied base on standalone SAR.

10.18. LTE Band 41 Power Class 2 (20MHz Bandwidth)

According to Section 9.4, SAR evaluation for PC2 is only required when its Maximum output power (Tune-up Limit) is higher from PC3.

From May 2017 TCB Workshop, SAR tested were performed using Power Class 3. SAR test for Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination. According to the highest time averaged power for UL-DL configurations, configuration # 1 with duty cycle 43.3% is used for Power Class 2 SAR test.

Additional SAR testing for Power Class 2 is not required when:

- The reported SAR vs. output power can be linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg

Reported SAR vs. Output Power linearly scaled

Antenna	RF Exposure Conditions	Power Class 2			Power Class 3				PC2 linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)
		Duty Cycle	Tune-up Power (dBm)	Frame Avg. Power (mW)	Duty Cycle	Tune-up Power (dBm)	Frame Avg. Power (mW)	Reported 1-g SAR (W/kg)		
ANT1	Head	43.3%	27.70	254.97	63.3%	25.70	235.18	0.230	0.249	8.41%
ANT3	Head	43.3%	26.70	202.53	63.3%	24.70	186.81	0.178	0.193	8.41%

Conclusion:

SAR test for Power Class 2 is not required base on the reported SAR <1.4 W/kg and reported SAR vs. output power linearly scaled <10%.

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT4	Head	QPSK	Mode A	0	Left Touch	55340	3560.0	1	49	22.20	22.20	0.879	0.879	0.330	0.330	
								50	24	21.20	21.20	0.815	0.815	0.316	0.316	
						55773	3603.3	1	49	22.20	22.20	0.848	0.848	0.324	0.324	
								50	24	21.20	21.20	0.839	0.839	0.319	0.319	
						56207	3646.7	1	49	22.20	22.20	0.856	0.856	0.324	0.324	
								50	24	21.20	21.20	0.913	0.913	0.343	0.343	127
								100	0	21.20	21.20	0.913	0.913	0.341	0.341	
						56640	3690.0	1	49	22.20	22.20	0.795	0.795	0.296	0.296	
								50	24	21.20	21.20	0.876	0.876	0.337	0.337	
					Left Tilt	56207	3646.7	1	49	22.20	22.20	0.611	0.611	0.220	0.220	
								50	24	21.20	21.20	0.537	0.537	0.199	0.199	
					Right Touch	56207	3646.7	1	49	22.20	22.20	0.246	0.246	0.117	0.117	
								50	24	21.20	21.20	0.192	0.192	0.073	0.073	
					Right Tilt	56207	3646.7	1	49	22.20	22.20	0.232	0.232	0.088	0.088	
								50	24	21.20	21.20	0.185	0.185	0.069	0.069	
	Body & Hotspot	QPSK	Mode B	5	Rear	55340	3560.0	1	49	21.00	20.75	0.748	0.792	0.277	0.293	
								1	49	21.00	20.75	0.770	0.816	0.287	0.304	
						56207	3646.7	1	49	21.00	20.75	0.807	0.855	0.299	0.317	
								50	24	21.00	20.75	0.657	0.696	0.233	0.247	
					Front	56640	3690.0	1	49	21.00	20.75	0.826	0.875	0.307	0.325	128
								1	49	21.00	20.75	0.551	0.584	0.210	0.222	
						56207	3646.7	50	24	21.00	20.75	0.451	0.478	0.174	0.184	
								1	49	21.00	20.75	0.107	0.113	0.050	0.053	
	Hotspot	QPSK	Mode B	5	Edge 1	56207	3646.7	1	49	21.00	20.75	0.107	0.113	0.050	0.053	
								50	24	21.00	20.75	0.102	0.108	0.047	0.050	
					Edge 2	55340	3560.0	1	49	21.00	20.75	0.894	0.947	0.338	0.358	
								50	24	21.00	20.75	0.926	0.981	0.346	0.367	129
						55773	3603.3	1	49	21.00	20.75	0.841	0.891	0.318	0.337	
								50	24	21.00	20.75	0.747	0.791	0.282	0.299	
						56207	3646.7	1	49	21.00	20.75	0.912	0.966	0.341	0.361	
								50	24	21.00	20.75	0.880	0.932	0.328	0.347	
								100	0	21.00	20.75	0.792	0.839	0.294	0.311	
						56640	3690.0	1	49	21.00	20.75	0.891	0.944	0.334	0.354	
								50	24	21.00	20.75	0.822	0.871	0.305	0.323	

UL CA 48C

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	PCC UL				SCC UL				Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
						Ch #.	Freq. (MHz)	RB Allocation	RB offset	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT 7	Head	QPSK	Mode A	0	Right Touch	55891	3615.1	1	99	56089	3634.9	1	0	25.70	25.66	0.120	0.121	0.050	0.050	
ANT 7	Body	QPSK	Mode B	5	Front	55891	3615.1	1	99	56089	3634.9	1	0	23.00	22.56	0.431	0.477	0.175	0.194	
ANT 7	Hotspot	QPSK	Mode B	5	Edge 2	55340	3560.0	1	99	55538	3579.8	1	0	23.00	22.65	0.292	0.317	0.116	0.126	
ANT 4	Head	QPSK	Mode A	0	Left Touch	55891	3615.1	1	99	56089	3634.9	1	0	22.20	22.02	0.703	0.733	0.265	0.276	
ANT 4	Body	QPSK	Mode B	5	Rear	56442	3607.2	1	99	56640	3690.0	1	0	22.20	21.92	0.824	0.879	0.317	0.338	
ANT 4	Hotspot	QPSK	Mode B	5	Edge 2	55340	3560.0	1	99	55538	3579.8	1	0	22.20	21.80	0.509	0.558	0.187	0.205	
ANT 9	Head	QPSK	Mode A	0	Left Touch	55891	3615.1	1	99	56089	3634.9	1	0	25.20	24.69	0.080	0.090	0.033	0.037	
ANT 9	Body	QPSK	Mode B	5	Rear	56442	3607.2	1	99	56640	3690.0	1	0	23.25	22.92	0.851	0.919	0.322	0.348	
ANT 8	Head	QPSK	Mode A	0	Right Touch	55891	3615.1	1	99	56089	3634.9	1	0	22.20	22.32	0.561	0.546	0.238	0.232	
ANT 8	Body	QPSK	Mode B	5	Rear	55891	3615.1	1	99	56089	3634.9	1	0	21.00	20.61	0.473	0.518	0.189	0.207	
ANT 8	Hotspot	QPSK	Mode B	5	Edge 4	55891	3615.1	1	99	56089	3634.9	1	0	21.00	20.66	0.704	0.761	0.263	0.284	

Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

10.20. LTE Band 66 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.				
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled					
ANT1	Head	QPSK	Mode A	0	Left Touch	132322	1745.0	1	49	25.70	25.20	0.058	0.065	0.039	0.044	130				
								50	24	24.70	24.30	0.045	0.049	0.032	0.035					
					Left Tilt	132322	1745.0	1	49	25.70	25.20	0.047	0.053	0.031	0.035					
								50	24	24.70	24.30	0.034	0.037	0.023	0.025					
					Right Touch	132322	1745.0	1	49	25.70	25.20	0.115	0.129	0.076	0.085					
								50	24	24.70	24.30	0.093	0.102	0.062	0.068					
					Right Tilt	132322	1745.0	1	49	25.70	25.20	0.058	0.065	0.037	0.042					
								50	24	24.70	24.30	0.049	0.054	0.032	0.035					
					Body & Hotspot	QPSK	Mode B	5	Rear	132322	1745.0	1	49	19.25	19.00		0.551	0.584	0.279	0.296
	50	24	19.25	19.00								0.588	0.623	0.297	0.315					
	Front	132322	1745.0	1					49	19.25	19.00	0.419	0.444	0.206	0.218					
				50					24	19.25	19.00	0.427	0.452	0.213	0.226					
	Hotspot	QPSK	Mode B	5	Edge 2	132322	1745.0	1	49	19.25	19.00	0.143	0.151	0.075	0.079					
								50	24	19.25	19.00	0.146	0.155	0.077	0.082					
					Edge 3	132072	1720.0	1	49	19.25	19.00	0.874	0.926	0.421	0.446	132				
								50	24	19.25	19.00	0.914	0.968	0.438	0.464					
						132322	1745.0	1	49	19.25	19.00	0.847	0.897	0.407	0.431					
								50	24	19.25	19.00	0.874	0.926	0.419	0.444					
						132572	1770.0	1	49	19.25	19.00	0.761	0.806	0.366	0.388					
								50	24	19.25	19.00	0.777	0.823	0.373	0.395					
					Edge 4	132322	1745.0	1	49	19.25	19.00	0.023	0.024	0.012	0.013					
								50	24	19.25	19.00	0.023	0.024	0.012	0.013					
					Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)	
														Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2					Head	QPSK	Mode A	0	Left Touch	132322	1745.0	1	49	21.50	21.00	0.211	0.237	0.136	0.153	133
												50	24	21.50	21.00	0.185	0.208	0.119	0.134	
	Left Tilt	132322	1745.0	1					49	21.50	21.00	0.222	0.249	0.126	0.141					
				50					24	21.50	21.00	0.196	0.220	0.111	0.125					
	Right Touch	132322	1745.0	1					49	21.50	21.00	0.642	0.720	0.364	0.408					
				50					24	21.50	21.00	0.566	0.635	0.327	0.367					
	Right Tilt	132072	1720.0	1					49	21.50	21.00	0.794	0.891	0.385	0.432	133				
				50					24	21.50	21.00	0.684	0.767	0.329	0.369					
		132322	1745.0	1					49	21.50	21.00	0.791	0.888	0.388	0.435					
				50					24	21.50	21.00	0.718	0.806	0.350	0.393					
		132572	1770.0	1					49	21.50	21.00	0.792	0.889	0.388	0.435					
				50					24	21.50	21.00	0.702	0.788	0.343	0.385					
	Body & Hotspot	QPSK	Mode B	5	Rear	132072	1720.0	1	49	21.00	20.75	0.784	0.830	0.385	0.408	134				
								50	24	21.00	20.75	0.820	0.869	0.402	0.426					
					132322	1745.0	1	49	21.00	20.75	0.763	0.808	0.376	0.398						
							50	24	21.00	20.75	0.773	0.819	0.381	0.404						
					132572	1770.0	1	49	21.00	20.75	0.776	0.822	0.382	0.405						
							50	24	21.00	20.75	0.789	0.836	0.387	0.410						
					Front	132322	1745.0	1	49	21.00	20.75	0.420	0.445	0.216	0.229					
								50	24	21.00	20.75	0.434	0.460	0.223	0.236					
	Hotspot	QPSK	Mode B	5	Edge 1	132322	1745.0	1	49	21.00	20.75	0.409	0.433	0.183	0.194					
								50	24	21.00	20.75	0.418	0.443	0.187	0.198					
					Edge 2	132322	1745.0	1	49	21.00	20.75	0.015	0.016	0.008	0.008					
50								24	21.00	20.75	0.013	0.014	0.006	0.007						
Edge 4					132322	1745.0	1	49	21.00	20.75	0.518	0.549	0.272	0.288						
							50	24	21.00	20.75	0.530	0.561	0.277	0.293						

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3	Head	QPSK	Mode A	0	Left Touch	132322	1745.0	1	49	24.70	24.20	0.328	0.368	0.210	0.236	135
								50	24	23.70	23.20	0.267	0.300	0.175	0.196	
					Left Tilt	132322	1745.0	1	49	24.70	24.20	0.186	0.209	0.114	0.128	
								50	24	23.70	23.20	0.133	0.149	0.085	0.095	
					Right Touch	132322	1745.0	1	49	24.70	24.20	0.189	0.212	0.121	0.136	
								50	24	23.70	23.20	0.128	0.144	0.086	0.096	
					Right Tilt	132322	1745.0	1	49	24.70	24.20	0.161	0.181	0.095	0.107	
								50	24	23.70	23.20	0.126	0.141	0.076	0.085	
	Body & Hotspot	QPSK	Mode B	5	Rear	132072	1720.0	1	49	21.25	20.90	0.783	0.849	0.450	0.488	
								50	24	21.25	20.90	0.814	0.882	0.458	0.496	
						132322	1745.0	1	49	21.25	20.90	0.797	0.864	0.457	0.495	
								50	24	21.25	20.90	0.815	0.883	0.468	0.507	
					Front	132572	1770.0	100	0	21.25	20.90	0.810	0.878	0.466	0.505	
								1	49	21.25	20.90	0.829	0.899	0.474	0.514	
						132072	1720.0	50	24	21.25	20.90	0.832	0.902	0.476	0.516	136
								1	49	21.25	20.90	0.556	0.603	0.279	0.302	
					Edge 3	132322	1745.0	50	24	21.25	20.90	0.530	0.574	0.311	0.337	
								1	49	21.25	20.90	0.232	0.251	0.115	0.125	
	Hotspot	QPSK	Mode B	5	Edge 4	132072	1720.0	50	24	21.25	20.90	0.232	0.251	0.117	0.127	
								1	49	21.25	20.90	0.748	0.811	0.397	0.430	
						132322	1745.0	50	24	21.25	20.90	0.762	0.826	0.404	0.438	
								1	49	21.25	20.90	0.754	0.817	0.404	0.438	
					Edge 4	132322	1745.0	50	24	21.25	20.90	0.774	0.839	0.409	0.443	
								100	0	21.25	20.90	0.787	0.853	0.418	0.453	
						132572	1770.0	1	49	21.25	20.90	0.783	0.849	0.414	0.449	
								50	24	21.25	20.90	0.784	0.850	0.415	0.450	
ANT4	Head	QPSK	Mode A	0	Left Touch	132072	1720.0	1	49	21.00	20.75	0.838	0.888	0.450	0.477	
								50	24	21.00	20.75	0.861	0.912	0.461	0.488	137
						132322	1745.0	1	49	21.00	20.75	0.803	0.851	0.438	0.464	
								50	24	21.00	20.75	0.821	0.870	0.453	0.480	
					Left Tilt	132572	1770.0	100	0	21.00	20.75	0.819	0.868	0.449	0.476	
								1	49	21.00	20.75	0.843	0.893	0.457	0.484	
						132072	1720.0	50	24	21.00	20.75	0.849	0.899	0.461	0.488	
								1	49	21.00	20.75	0.550	0.583	0.272	0.288	
					Right Touch	132322	1745.0	50	24	21.00	20.75	0.568	0.602	0.279	0.296	
								1	49	21.00	20.75	0.235	0.249	0.150	0.159	
						132072	1720.0	50	24	21.00	20.75	0.241	0.255	0.153	0.162	
								1	49	21.00	20.75	0.126	0.133	0.070	0.074	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	132322	1745.0	50	24	21.00	20.75	0.130	0.138	0.072	0.077	
								1	49	21.00	20.75	0.126	0.133	0.070	0.074	
					Rear	132072	1720.0	50	24	21.50	21.00	0.815	0.914	0.431	0.484	
								1	49	21.50	21.00	0.721	0.809	0.394	0.442	
						132322	1745.0	50	24	21.50	21.00	0.661	0.742	0.352	0.395	
								1	49	21.50	21.00	0.815	0.914	0.440	0.494	138
					Front	132572	1770.0	100	0	21.50	21.00	0.815	0.914	0.440	0.494	
								1	49	21.50	21.00	0.377	0.423	0.210	0.236	
						132322	1745.0	50	24	21.50	21.00	0.344	0.386	0.190	0.213	
								1	49	21.50	21.00	0.196	0.220	0.088	0.099	
	Hotspot	QPSK	Mode B	5	Edge 1	132322	1745.0	50	24	21.50	21.00	0.185	0.208	0.081	0.091	
								1	49	21.50	21.00	0.797	0.894	0.404	0.453	
					Edge 2	132072	1720.0	1	49	21.50	21.00	0.766	0.859	0.387	0.434	
								50	24	21.50	21.00	0.671	0.753	0.335	0.376	
						132322	1745.0	1	49	21.50	21.00	0.671	0.753	0.335	0.376	
								50	24	21.50	21.00	0.823	0.923	0.409	0.459	139

10.21. LTE Band 71 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	133297	680.5	1	49	25.70	25.40	0.107	0.115	0.085	0.091	140
								50	24	24.70	24.40	0.088	0.094	0.070	0.075	
					Left Tilt	133297	680.5	1	49	25.70	25.40	0.065	0.070	0.054	0.058	
								50	24	24.70	24.40	0.056	0.060	0.047	0.050	
					Right Touch	133297	680.5	1	49	25.70	25.40	0.104	0.111	0.083	0.089	
								50	24	24.70	24.40	0.090	0.096	0.073	0.078	
					Right Tilt	133297	680.5	1	49	25.70	25.40	0.064	0.069	0.053	0.057	
								50	24	24.70	24.40	0.054	0.058	0.046	0.049	
	Body & Hotspot	QPSK	Mode B	5	Rear	133297	680.5	1	49	25.70	25.40	0.338	0.362	0.224	0.240	141
								50	24	24.70	24.40	0.335	0.359	0.215	0.230	
					Front	133297	680.5	1	49	25.70	25.40	0.216	0.231	0.145	0.155	
								50	24	24.70	24.40	0.176	0.189	0.119	0.128	
	Hotspot	QPSK	Mode B	5	Edge 2	133297	680.5	1	49	25.70	25.40	0.620	0.664	0.403	0.432	142
								50	24	24.70	24.40	0.484	0.519	0.315	0.338	
					Edge 3	133297	680.5	1	49	25.70	25.40	0.180	0.193	0.087	0.093	
								50	24	24.70	24.40	0.137	0.147	0.069	0.074	
					Edge 4	133297	680.5	1	49	25.70	25.40	0.276	0.296	0.181	0.194	
								50	24	24.70	24.40	0.223	0.239	0.149	0.160	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	QPSK	Mode A	0	Left Touch	133297	680.5	1	49	23.90	23.60	0.274	0.294	0.194	0.208	
								50	24	22.90	22.80	0.227	0.232	0.166	0.170	
					Left Tilt	133297	680.5	1	49	23.90	23.60	0.289	0.310	0.163	0.175	
								50	24	22.90	22.80	0.243	0.249	0.137	0.140	
					Right Touch	133297	680.5	1	49	23.90	23.60	0.387	0.415	0.255	0.273	
								50	24	22.90	22.80	0.325	0.333	0.217	0.222	
					Right Tilt	133297	680.5	1	49	23.90	23.60	0.406	0.435	0.213	0.228	143
								50	24	22.90	22.80	0.382	0.391	0.200	0.205	
	Body & Hotspot	QPSK	Mode B	5	Rear	133297	680.5	1	49	23.90	23.60	0.225	0.241	0.133	0.143	144
								50	24	22.90	22.80	0.185	0.189	0.107	0.109	
					Front	133297	680.5	1	49	23.90	23.60	0.155	0.166	0.110	0.118	
								50	24	22.90	22.80	0.129	0.132	0.088	0.090	
	Hotspot	QPSK	Mode B	5	Edge 1	133297	680.5	1	49	23.90	23.60	0.077	0.083	0.045	0.048	
								50	24	22.90	22.80	0.075	0.077	0.042	0.043	
					Edge 2	133297	680.5	1	49	23.90	23.60	0.140	0.150	0.094	0.101	
								50	24	22.90	22.80	0.105	0.107	0.071	0.073	
					Edge 4	133297	680.5	1	49	23.90	23.60	0.304	0.326	0.200	0.214	145
								50	24	22.90	22.80	0.199	0.204	0.135	0.138	

SAR Testing for 5G Bands was performed in one of two ways:

1.) If the 5G Band has a LTE equivalent Band, such as LTE Band 5 for 5G Band n5; then spot-checks were performed on the worst-case position per Exposure Condition per Antenna. If the Reported SAR Result for the 5G spot-check is $\leq$ the Reported SAR result of the LTE equivalent Band, then no further testing is required. If the value is more than 10% greater than the LTE equivalent Band, full testing is required.

2.) If there is no LTE equivalent Band supported on this device, then full testing is required for that band.

10.22. 5G NR Band n5 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	DFT-s-OFDM QPSK	Mode A	0	Right Touch	167300	836.5	1	53	25.70	25.70	0.083	0.083	0.062	0.062	189
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	167300	836.5	1	53	25.70	25.70	0.249	0.249	0.166	0.166	190
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 2	167300	836.5	1	53	25.70	25.70	0.149	0.149	0.098	0.098	191
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	DFT-s-OFDM QPSK	Mode A	0	Right Touch	167300	836.5	1	53	23.90	23.90	0.367	0.367	0.252	0.252	192
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	167300	836.5	1	53	23.90	23.90	0.253	0.253	0.150	0.150	193

Note(s):

Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. 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.

10.23. 5G NR Band n12 (15MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	DFT-s-OFDM QPSK	Mode A	0	Right Touch	141500	707.5	1	40	25.70	25.70	0.082	0.082	0.067	0.067	194
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	141500	707.5	1	40	25.70	25.70	0.213	0.213	0.142	0.142	195
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 2	141500	707.5	1	40	25.70	25.70	0.280	0.280	0.184	0.184	196
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	DFT-s-OFDM QPSK	Mode A	0	Right Tilt	141500	707.5	1	40	23.90	23.90	0.275	0.275	0.151	0.151	197
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	141500	707.5	1	40	23.90	23.90	0.154	0.154	0.097	0.097	198
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 4	141500	707.5	1	40	23.90	23.90	0.144	0.144	0.097	0.097	199

Note(s):

Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. 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.

10.24. 5G NR Band n25 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	DFT-s-OFDM QPSK	Mode A	0	Right Touch	376500	1882.5	1	53	25.70	25.70	0.287	0.287	0.176	0.176	200
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	376500	1882.5	50	28	21.00	21.00	0.759	0.759	0.328	0.328	201
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT2	Head	DFT-s-OFDM QPSK	Mode A	0	Right Touch	381000	1905.0	50	28	20.50	20.50	0.721	0.721	0.391	0.391	202
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	381000	1905.0	50	28	20.50	20.50	0.742	0.742	0.361	0.361	203
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT3	Head	DFT-s-OFDM QPSK	Mode A	0	Left Touch	376500	1882.5	1	53	24.70	24.70	0.212	0.212	0.132	0.132	204
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	376500	1882.5	50	28	21.00	21.00	0.630	0.630	0.341	0.341	205
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 4	376500	1882.5	1	53	21.00	21.00	0.764	0.764	0.409	0.409	206
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT4	Head	DFT-s-OFDM QPSK	Mode A	0	Left Touch	381000	1905.0	50	28	19.25	19.25	0.728	0.728	0.417	0.417	207
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	381000	1905.0	50	28	20.00	20.00	0.511	0.511	0.277	0.277	208

10.25. 5G NR Band n41 (100MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	DFT-s-OFDM QPSK	Mode A	0	Right Touch	518600	2593.0	1	137	25.70	25.70	0.172	0.172	0.083	0.083	211
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	518600	2593.0	135	69	21.25	21.13	0.472	0.485	0.191	0.196	212
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 2	518600	2593.0	1	137	21.25	21.13	0.799	0.821	0.323	0.332	213
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT2	Head	DFT-s-OFDM QPSK	Mode A	0	Left Touch	518600	2593.0	135	69	18.00	17.95	0.852	0.862	0.304	0.308	214
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	518600	2593.0	1	137	20.75	20.70	0.539	0.545	0.212	0.214	215
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 1	518600	2593.0	1	137	20.75	20.70	0.618	0.625	0.224	0.227	216
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT3	Head	DFT-s-OFDM QPSK	Mode A	0	Left Touch	518600	2593.0	1	137	25.20	25.20	0.165	0.165	0.089	0.089	217
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	518600	2593.0	135	69	20.50	20.40	0.477	0.488	0.238	0.244	218
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 4	518600	2593.0	1	137	20.50	20.42	0.870	0.886	0.378	0.385	219
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT4	Head	DFT-s-OFDM QPSK	Mode A	0	Left Touch	518600	2593.0	1	137	19.75	19.75	0.855	0.855	0.317	0.317	220
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	518600	2593.0	1	137	18.50	18.50	0.404	0.404	0.172	0.172	221
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 2	518600	2593.0	1	137	18.50	18.50	0.782	0.782	0.321	0.321	222

Note(s):

Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. 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.

10.26. 5G NR Band n41 Power Class 2 (100MHz Bandwidth)

According to Section 9.4, SAR evaluation for PC2 is only required when its Maximum output power (Tune-up Limit) is higher from PC3.

From May 2017 TCB Workshop, SAR tested were performed using Power Class 3. SAR test for Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination.

Additional SAR testing for Power Class 2 is not required when:

- The reported SAR vs. output power can be linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg

Reported SAR vs. Output Power linearly scaled

Antenna	RF Exposure Conditions	Power Class 2			Power Class 3				PC2 linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)
		Duty Cycle	Tune-up Power (dBm)	Frame Avg. Power (mW)	Duty Cycle	Tune-up Power (dBm)	Frame Avg. Power (mW)	Reported 1-g SAR (W/kg)		
ANT1	Head	43.3%	26.70	202.53	63.3%	25.70	235.18	0.172	0.148	-13.88%

Conclusion:

SAR test for Power Class 2 is not required base on the reported SAR <1.4 W/kg and reported SAR vs. output power linearly scaled <10%.

10.27. 5G NR Band n66 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	DFT-s-OFDM QPSK	Mode A	0	Left Touch	349000	1745.0	1	53	25.70	25.70	0.064	0.064	0.043	0.043	221
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	349000	1745.0	50	28	19.25	19.25	0.472	0.472	0.240	0.240	222
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 3	349000	1745.0	50	28	19.25	19.25	0.729	0.729	0.356	0.356	223
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	DFT-s-OFDM QPSK	Mode A	0	Right Tilt	349000	1745.0	1	53	21.50	21.50	0.512	0.512	0.251	0.251	224
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	349000	1745.0	50	28	21.00	21.00	0.694	0.694	0.340	0.340	225
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3	Head	DFT-s-OFDM QPSK	Mode A	0	Left Touch	349000	1745.0	1	53	24.70	24.70	0.069	0.069	0.047	0.047	226
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	349000	1745.0	50	28	21.25	21.25	0.874	0.874	0.440	0.440	227
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT4	Head	DFT-s-OFDM QPSK	Mode A	0	Left Touch	349000	1745.0	50	28	21.00	21.00	0.715	0.715	0.419	0.419	228
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	349000	1745.0	1	53	21.50	21.50	0.682	0.682	0.367	0.367	229
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 2	349000	1745.0	1	53	21.50	21.50	0.651	0.651	0.332	0.332	230

10.28. 5G NR Band n71 (20MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	DFT-s-OFDM QPSK	Mode A	0	Left Touch	136100	680.5	1	53	25.70	25.70	0.063	0.063	0.051	0.051	231
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	136100	680.5	1	53	25.70	25.70	0.217	0.217	0.141	0.141	232
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 2	136100	680.5	1	53	25.70	25.70	0.230	0.230	0.152	0.152	233
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	DFT-s-OFDM QPSK	Mode A	0	Right Tilt	136100	680.5	1	53	23.90	23.90	0.188	0.188	0.110	0.110	234
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	136100	680.5	1	53	23.90	23.90	0.149	0.149	0.088	0.088	235
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 4	136100	680.5	1	53	23.90	23.90	0.138	0.138	0.092	0.092	236

10.29. 5G NR Band n77 (100MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT7	Head	DFT-s-OFDM QPSK	Mode A	0	Left Touch	650000	3750.0	1	137	25.70	25.70	0.193	0.193	0.067	0.067	
								135	69	25.70	25.70	0.173	0.173	0.060	0.060	
					Left Tilt	650000	3750.0	1	137	25.70	25.70	0.169	0.169	0.065	0.065	
								135	69	25.70	25.70	0.158	0.158	0.060	0.060	
					Right Touch	650000	3750.0	1	137	25.70	25.70	0.375	0.375	0.126	0.126	237
								135	69	25.70	25.70	0.355	0.355	0.119	0.119	
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Right Tilt	650000	3750.0	1	137	25.70	25.70	0.102	0.102	0.040	0.040	
								135	69	25.70	25.70	0.092	0.092	0.036	0.036	
					Rear	650000	3750.0	1	137	19.25	19.25	0.646	0.646	0.238	0.238	238
								135	69	19.25	19.25	0.540	0.540	0.197	0.197	
					Front	650000	3750.0	1	137	19.25	19.25	0.429	0.429	0.148	0.148	
								135	69	19.25	19.25	0.407	0.407	0.139	0.139	
ANT8	Head	DFT-s-OFDM QPSK	Mode A	0	Edge 2	650000	3750.0	1	137	19.25	19.25	0.944	0.944	0.323	0.323	239
								135	69	19.25	19.25	0.882	0.882	0.298	0.298	
					Edge 3	650000	3750.0	270	0	19.25	19.25	0.904	0.904	0.305	0.305	
								1	137	19.25	19.25	0.133	0.133	0.053	0.053	
								135	69	19.25	19.25	0.114	0.114	0.047	0.047	
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Left Touch	650000	3750.0	1	137	22.00	22.00	0.201	0.201	0.081	0.081	
								135	69	22.00	22.00	0.202	0.202	0.079	0.079	
					Left Tilt	650000	3750.0	1	137	22.00	22.00	0.122	0.122	0.041	0.041	
								135	69	22.00	22.00	0.123	0.123	0.041	0.041	
					Right Touch	650000	3750.0	1	137	22.00	22.00	0.908	0.908	0.376	0.376	240
								135	69	22.00	22.00	0.813	0.813	0.340	0.340	
ANT9	Head	DFT-s-OFDM QPSK	Mode A	0	Right Tilt	650000	3750.0	270	0	22.00	22.00	0.603	0.603	0.252	0.252	
								1	137	22.00	22.00	0.318	0.318	0.133	0.133	
								135	69	22.00	22.00	0.303	0.303	0.121	0.121	
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	650000	3750.0	1	137	21.25	21.25	0.933	0.933	0.333	0.333	241
								135	69	21.25	21.25	0.898	0.898	0.315	0.315	
					Front	650000	3750.0	270	0	21.25	21.25	0.678	0.678	0.247	0.247	
								1	137	21.25	21.25	0.313	0.313	0.116	0.116	
					Edge 1	650000	3750.0	135	69	21.25	21.25	0.429	0.429	0.157	0.157	
								1	137	21.25	21.25	0.106	0.106	0.054	0.054	
ANT9	Head	DFT-s-OFDM QPSK	Mode A	0	Edge 4	650000	3750.0	135	69	21.25	21.25	0.104	0.104	0.052	0.052	
								1	137	21.25	21.25	0.838	0.838	0.315	0.315	
								135	69	21.25	21.25	0.849	0.849	0.316	0.316	
								270	0	21.25	21.25	0.799	0.799	0.287	0.287	
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Left Touch	650000	3750.0	1	137	25.20	25.20	0.085	0.085	0.029	0.029	242
								135	69	25.20	25.20	0.079	0.079	0.027	0.027	
					Left Tilt	650000	3750.0	1	137	25.20	25.20	0.030	0.030	0.010	0.010	
								135	69	25.20	25.20	0.032	0.032	0.011	0.011	
					Right Touch	650000	3750.0	1	137	25.20	25.20	0.029	0.029	0.011	0.011	
								135	69	25.20	25.20	0.027	0.027	0.011	0.011	
ANT9	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Right Tilt	650000	3750.0	1	137	25.20	25.20	0.044	0.044	0.016	0.016	
								135	69	25.20	25.20	0.043	0.043	0.014	0.014	
					Rear	650000	3750.0	1	137	18.75	18.75	0.983	0.983	0.384	0.384	243
								135	69	18.75	18.75	0.964	0.964	0.372	0.372	
					Front	650000	3750.0	270	0	18.75	18.75	0.898	0.898	0.334	0.334	
								1	137	18.75	18.75	0.343	0.343	0.122	0.122	
ANT9	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 3	650000	3750.0	135	69	18.75	18.75	0.292	0.292	0.102	0.102	
								1	137	18.75	18.75	0.554	0.554	0.186	0.186	
					Edge 4	650000	3750.0	135	69	18.75	18.75	0.479	0.479	0.162	0.162	
								1	137	18.75	18.75	0.297	0.297	0.112	0.112	
								135	69	18.75	18.75	0.251	0.251	0.098	0.098	

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT4	Head	DFT-s-OFDM QPSK	Mode A	0	Left Touch	650000	3750.0	1	137	19.50	19.50	0.937	0.937	0.378	0.378	244
								135	69	19.50	19.50	0.898	0.898	0.358	0.358	
								270	0	19.50	19.50	0.806	0.806	0.323	0.323	
					Left Tilt	650000	3750.0	1	137	19.50	19.50	0.494	0.494	0.190	0.190	
								135	69	19.50	19.50	0.450	0.450	0.174	0.174	
								1	137	19.50	19.50	0.144	0.144	0.055	0.055	
					Right Touch	650000	3750.0	1	137	19.50	19.50	0.170	0.170	0.069	0.069	
								135	69	19.50	19.50	0.170	0.170	0.069	0.069	
								1	137	19.50	19.50	0.133	0.133	0.049	0.049	
					Right Tilt	650000	3750.0	1	137	19.50	19.50	0.138	0.138	0.053	0.053	
								135	69	19.50	19.50	0.138	0.138	0.053	0.053	
								1	137	19.50	19.50	0.825	0.825	0.302	0.302	245
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	650000	3750.0	1	137	19.50	19.50	0.820	0.820	0.306	0.306	
								135	69	19.50	19.50	0.820	0.820	0.306	0.306	
								270	0	19.50	19.50	0.739	0.739	0.274	0.274	
					Front	650000	3750.0	1	137	19.50	19.50	0.525	0.525	0.221	0.221	
								135	69	19.50	19.50	0.549	0.549	0.219	0.219	
								1	137	19.50	19.50	0.112	0.112	0.046	0.046	
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 1	650000	3750.0	1	137	19.50	19.50	0.109	0.109	0.042	0.042	
								135	69	19.50	19.50	0.109	0.109	0.042	0.042	
								1	137	19.50	19.50	0.968	0.968	0.375	0.375	246
					Edge 2	650000	3750.0	1	137	19.50	19.50	0.903	0.903	0.345	0.345	
								135	69	19.50	19.50	0.903	0.903	0.345	0.345	
								270	0	19.50	19.50	0.882	0.882	0.349	0.349	

Note(s):

Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. 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.

10.30. Wi-Fi (DTS Band)

When the 802.11b reported SAR of the highest measured maximum output power channel is ≤ 0.8 W/kg, no further SAR testing is required. If SAR is > 0.8 W/kg and ≤ 1.2 W/kg, SAR is required for the next highest measured output power channel. Finally, if SAR is > 1.2 W/kg, SAR is required for the third channel.

SAR testing is not required for OFDM mode(s) when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

ANT3 Power Mode A the $P_{\text{Cell_ON}}$ is same as $P_{\text{Cell_OFF}}$

Antenna	WWAN Power	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
											Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3	Cell OFF	Head	802.11b	Mode A	0	Left Touch	6	2437	0.039	100.0%	21.50	21.50	0.026	0.026	0.010	0.010	146
						Left Tilt	6	2437	0.007	100.0%	21.50	21.50					
						Right Touch	6	2437	0.036	100.0%	21.50	21.50	0.019	0.019	0.009	0.009	
						Right Tilt	6	2437	0.032	100.0%	21.50	21.50					
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	1.340	100.0%	21.50	21.50	1.020	1.020	0.402	0.402	
							11	2462	1.100	100.0%	21.50	21.50	1.050	1.050	0.411	0.411	147
						Front	6	2437	0.780	100.0%	21.50	21.50	0.546	0.546	0.242	0.242	
						Edge 3	6	2437	0.615	100.0%	21.50	21.50					
		Hotspot	802.11b	Mode B		Edge 4	6	2437	0.312	100.0%	21.50	21.50	0.183	0.183	0.081	0.081	
Antenna	WWAN Power	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
											Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT4	Cell OFF	Head	802.11b	Mode A	0	Left Touch	1	2412	1.310	100.0%	20.50	20.50	0.891	0.891	0.427	0.427	
							6	2437	1.940	100.0%	20.50	20.50	1.130	1.130	0.517	0.517	148
							11	2462	1.820	100.0%	20.50	20.50	1.030	1.030	0.477	0.477	
						Left Tilt	6	2437	1.340	100.0%	20.50	20.50	0.814	0.814	0.366	0.366	
							6	2437	0.286	100.0%	20.50	20.50	0.201	0.201	0.102	0.102	
							6	2437	0.420	100.0%	20.50	20.50					
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	1.580	100.0%	20.50	20.50	0.912	0.912	0.428	0.428	149
							11	2462	1.470	100.0%	20.50	20.50	0.882	0.882	0.434	0.434	
						Front	6	2437	0.666	100.0%	20.50	20.50	0.409	0.409	0.202	0.202	
							6	2437	0.571	100.0%	20.50	20.50					
		Hotspot	802.11b	Mode B	5	Edge 1	1	2412	1.290	100.0%	20.50	20.50	0.951	0.951	0.408	0.408	
							6	2437	1.650	100.0%	20.50	20.50	1.120	1.120	0.475	0.475	150
							11	2462	1.327	100.0%	20.50	20.50	0.978	0.978	0.417	0.417	
						Edge 2	6	2437	1.650	100.0%	20.50	20.50	1.120	1.120	0.475	0.475	
							11	2462	1.327	100.0%	20.50	20.50	0.978	0.978	0.417	0.417	
Antenna	WWAN Power	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
											Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3	Cell ON	Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.751	100.0%	18.50	18.50	0.498	0.498	0.194	0.194	151
						Front	6	2437	0.401	100.0%	18.50	18.50	0.242	0.242	0.110	0.110	
		Hotspot	802.11b	Mode B	5	Edge 3	6	2437	0.073	100.0%	18.50	18.50					
						Edge 4	6	2437	0.117	100.0%	18.50	18.50	0.074	0.074	0.031	0.031	
Antenna	WWAN Power	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
											Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT4	Cell ON	Head	802.11b	Mode A	0	Left Touch	6	2437	0.522	100.0%	16.50	16.50	0.297	0.297	0.136	0.136	152
						Left Tilt	6	2437	0.454	100.0%	16.50	16.50					
						Right Touch	6	2437	0.153	100.0%	16.50	16.50	0.099	0.099	0.051	0.051	
						Right Tilt	6	2437	0.109	100.0%	16.50	16.50					
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.852	100.0%	18.00	18.00	0.436	0.436	0.205	0.205	153
						Front	6	2437	0.375	100.0%	18.00	18.00					
						Edge 1	6	2437	0.238	100.0%	18.00	18.00					
						Edge 2	6	2437	0.711	100.0%	18.00	18.00	0.492	0.492	0.210	0.210	154
		Hotspot	802.11b	Mode B	5												

10.31. Wi-Fi (U-NII Band)

Antenna	WWAN Power	Band	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
												Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT5	Cell OFF	U-NII-2A	Head	802.11n (HT40)	Mode A	0	Left Touch	54	5270	0.0409	97.7%	21.50	21.50	0.008	0.009	0.040	0.041	155
							Left Tilt	54	5270	0.01	97.7%	21.50	21.50					
							Right Touch	54	5270	0.0314	97.7%	21.50	21.50					
							Right Tilt	54	5270	0.028	97.7%	21.50	21.50					
		U-NII-1	Body & Airplay	802.11n (HT40)	Mode B	5	Rear	38	5190	1.271	97.7%	16.50	16.50	0.657	0.672	0.198	0.203	
								46	5230	2.370	97.7%	19.00	19.00	1.130	1.156	0.355	0.363	156
							Front	46	5230	0.150	97.7%	19.00	19.00					
							Edge 3	46	5230	0.173	97.7%	19.00	19.00					
ANT5	Cell OFF	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	122	5610	0.026	95.6%	21.50	21.50					
							Left Tilt	122	5610	0.035	95.6%	21.50	21.50					
							Right Touch	122	5610	0.046	95.6%	21.50	21.50	0.013	0.014	0.003	0.003	157
							Right Tilt	122	5610	0.065	95.6%	21.50	21.50					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	106	5530	2.388	95.6%	16.00	16.00	0.996	1.042	0.314	0.329	
								122	5610	2.621	95.6%	16.50	16.50	1.140	1.193	0.351	0.367	158
							Front	122	5610	0.135	95.6%	16.50	16.50					
							Edge 3	122	5610	0.319	95.6%	16.50	16.50					
ANT5	Cell OFF	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.092	95.6%	21.50	21.50					
							Left Tilt	155	5775	0.074	95.6%	21.50	21.50					
							Right Touch	155	5775	0.056	95.6%	21.50	21.50	0.012	0.013	0.029	0.030	159
							Right Tilt	155	5775	0.097	95.6%	21.50	21.50					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	2.690	95.6%	18.00	18.00	1.080	1.130	0.342	0.358	160
							Front	155	5775	0.200	95.6%	18.00	18.00					
							Edge 3	155	5775	0.300	95.6%	18.00	18.00					
							Edge 4	155	5775	0.561	95.6%	18.00	18.00	0.232	0.243	0.075	0.078	
ANT6	Cell OFF	U-NII-1	Head	802.11n (HT40)	Mode A	0	Left Touch	54	5270	1.010	97.7%	20.50	20.50					
							Left Tilt	54	5270	0.847	97.7%	20.50	20.50					
							Right Touch	54	5270	2.610	97.7%	20.50	20.50	1.140	1.167	0.319	0.326	161
							Right Tilt	62	5310	1.560	97.7%	17.00	17.00	0.619	0.634	0.177	0.181	
			Body & Airplay	802.11n (HT40)	Mode B	5	Rear	38	5190	1.520	97.7%	16.50	16.50	0.649	0.664	0.180	0.184	
								46	5230	1.570	97.7%	18.25	18.25	0.977	1.000	0.270	0.276	162
							Front	46	5230	0.994	97.7%	18.25	18.25	0.497	0.509	0.134	0.137	
							Edge 1	46	5230	0.448	97.7%	18.25	18.25					
ANT6	Cell OFF	U-NII-2A	Head	802.11ac (VHT80)	Mode A	0	Left Touch	122	5610	1.290	95.6%	20.50	20.50	0.548	0.573	0.144	0.151	
							Left Tilt	122	5610	1.030	95.6%	20.50	20.50					
							Right Touch	122	5610	1.942	95.6%	20.50	20.50	0.929	0.972	0.259	0.271	
							Right Tilt	138	5690	2.330	95.6%	20.50	20.50	1.040	1.088	0.292	0.306	163
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	106	5530	0.572	95.6%	16.00	16.00	0.303	0.317	0.085	0.089	
								122	5610	2.090	95.6%	20.50	20.50	1.040	1.088	0.281	0.294	
							Front	138	5690	1.520	95.6%	20.50	20.50	0.911	0.953	0.247	0.258	
							Edge 1	106	5530	2.960	95.6%	16.00	16.00	0.935	0.978	0.265	0.277	
ANT6	Cell OFF	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	122	5610	1.290	95.6%	20.50	20.50	0.548	0.573	0.144	0.151	
							Left Tilt	122	5610	1.030	95.6%	20.50	20.50					
							Right Touch	122	5610	1.942	95.6%	20.50	20.50	0.929	0.972	0.259	0.271	
							Right Tilt	138	5690	2.330	95.6%	20.50	20.50	1.040	1.088	0.292	0.306	163
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	106	5530	0.572	95.6%	16.00	16.00	0.303	0.317	0.085	0.089	
								122	5610	2.090	95.6%	20.50	20.50	1.040	1.088	0.281	0.294	
							Front	138	5690	1.520	95.6%	20.50	20.50	0.911	0.953	0.247	0.258	
							Edge 1	106	5530	2.960	95.6%	16.00	16.00	0.935	0.978	0.265	0.277	
ANT6	Cell OFF	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.489	95.6%	21.25	21.25					
							Left Tilt	155	5775	0.443	95.6%	21.25	21.25					
							Right Touch	155	5775	1.380	95.6%	21.25	21.25	0.593	0.621	0.160	0.167	165
							Right Tilt	155	5775	1.260	95.6%	21.25	21.25	0.551	0.577	0.151	0.158	
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	3.280	95.6%	17.75	17.75	1.110	1.162	0.306	0.320	166
							Front	155	5775	0.236	95.6%	17.75	17.75					
							Edge 1	155	5775	0.191	95.6%	17.75	17.75					
							Edge 4	155	5775	0.465	95.6%	17.75	17.75	0.238	0.249	0.077	0.081	

ANT5 Power Mode A the P_{Cell_ON} is same as P_{Cell_OFF}

Antenna	WWAN Power	Band	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
												Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT5	Cell ON	U-NI-2A	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	42	5210	0.939	95.6%	15.50	15.50	0.396	0.414	0.121	0.127	167
							Front	42	5210	0.044	95.6%	15.50	15.50					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	42	5210	0.064	95.6%	15.50	15.50					
							Edge 4	42	5210	0.119	95.6%	15.50	15.50	0.070	0.073	0.023	0.024	
Antenna	WWAN Power	Band	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
												Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT5	Cell ON	U-NI-2C	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	0.975	95.6%	12.50	12.50	0.388	0.406	0.119	0.125	168
							Front	122	5610	0.029	95.6%	12.50	12.50					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	122	5610	0.104	95.6%	12.50	12.50					
							Edge 4	122	5610	0.212	95.6%	12.50	12.50	0.088	0.092	0.030	0.031	
Antenna	WWAN Power	Band	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
												Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT5	Cell ON	U-NI-3	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	0.956	95.6%	14.50	14.50	0.394	0.412	0.122	0.128	169
							Front	155	5775	0.072	95.6%	14.50	14.50					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	155	5775	0.092	95.6%	14.50	14.50					
							Edge 4	155	5775	0.349	95.6%	14.50	14.50	0.077	0.081	0.025	0.026	
Antenna	WWAN Power	Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
												Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT6	Cell ON	U-NI-1	Head	802.11ac (VHT80)	Mode A	0	Left Touch	42	5210	0.249	95.6%	14.50	14.50					
							Left Tilt	42	5210	0.248	95.6%	14.50	14.50					
							Right Touch	42	5210	0.758	95.6%	14.50	14.50	0.289	0.302	0.070	0.073	170
							Right Tilt	42	5210	0.409	95.6%	14.50	14.50					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	42	5210	0.577	95.6%	15.00	15.00	0.340	0.356	0.094	0.098	171
							Front	42	5210	0.255	95.6%	15.00	15.00					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	42	5210	0.083	95.6%	15.00	15.00					
							Edge 4	42	5210	0.276	95.6%	15.00	15.00	0.101	0.106	0.033	0.035	
Antenna	WWAN Power	Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
												Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT6	Cell ON	U-NI-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	122	5610	0.288	95.6%	15.75	15.75					
							Left Tilt	122	5610	0.376	95.6%	15.75	15.75					
							Right Touch	122	5610	0.605	95.6%	15.75	15.75	0.286	0.299	0.063	0.066	172
							Right Tilt	122	5610	0.715	95.6%	15.75	15.75					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	0.787	95.6%	12.25	12.25	0.311	0.325	0.081	0.085	173
							Front	122	5610	0.072	95.6%	12.25	12.25					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	122	5610	0.077	95.6%	12.25	12.25					
							Edge 4	122	5610	0.205	95.6%	12.25	12.25	0.088	0.092	0.028	0.029	
Antenna	WWAN Power	Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
												Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT6	Cell ON	U-NI-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.360	95.6%	20.00	20.00					
							Left Tilt	155	5775	0.289	95.6%	20.00	20.00					
							Right Touch	155	5775	1.330	95.6%	20.00	20.00	0.279	0.292	0.077	0.081	174
							Right Tilt	155	5775	0.904	95.6%	20.00	20.00					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	1.084	95.6%	14.00	14.00	0.384	0.402	0.100	0.105	175
							Front	155	5775	0.087	95.6%	14.00	14.00					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	155	5775	0.080	95.6%	14.00	14.00					
							Edge 4	155	5775	0.188	95.6%	14.00	14.00	0.085	0.089	0.028	0.029	

10.32. Bluetooth

- ANT3 Power Mode A the P_{high} and $P_{\text{standalone}}$ are same as P_{Low}

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
									Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT3 Flow	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	20.00	20.00	0.052	0.052	0.027	0.027	176
					Left Tilt	39	2441	100.0%	20.00	20.00	0.012	0.012	0.003	0.003	
					Right Touch	39	2441	100.0%	20.00	20.00	0.027	0.027	0.013	0.013	
					Right Tilt	39	2441	100.0%	20.00	20.00	0.029	0.029	0.010	0.010	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	10.50	10.50	0.078	0.078	0.027	0.027	177
					Front	39	2441	100.0%	10.50	10.50	0.030	0.030	0.013	0.013	
	Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	10.50	10.50	<0.01	<0.01	<0.01	<0.01	
				Edge 4	39	2441	100.0%	10.50	10.50	<0.01	<0.01	<0.01	<0.01		
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT3 Phigh	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	14.50	14.50	0.381	0.381	0.144	0.144	178
					Front	39	2441	100.0%	14.50	14.50	0.129	0.129	0.059	0.059	
	Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	14.50	14.50	0.019	0.019	0.008	0.008	
					Edge 4	39	2441	100.0%	14.50	14.50	0.024	0.024	0.009	0.009	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT3 Pstandalone	Body & Hotspot	GFSK	Mode B	5	Rear	0	2402	100.0%	20.00	20.00	0.854	0.854	0.336	0.336	
						39	2441	100.0%	20.00	20.00	0.920	0.920	0.441	0.441	
						78	2480	100.0%	20.00	20.00	0.968	0.968	0.378	0.378	179
					Front	39	2441	100.0%	20.00	20.00	0.414	0.414	0.188	0.188	
	Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	20.00	20.00	0.072	0.072	0.032	0.032	
					Edge 4	39	2441	100.0%	20.00	20.00	0.130	0.130	0.060	0.060	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT4 Flow	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	10.00	10.00	0.089	0.089	0.039	0.039	180
					Left Tilt	39	2441	100.0%	10.00	10.00	0.055	0.055	0.023	0.023	
					Right Touch	39	2441	100.0%	10.00	10.00	0.016	0.016	0.007	0.007	
					Right Tilt	39	2441	100.0%	10.00	10.00	0.002	0.002	0.006	0.006	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	10.00	10.00	0.054	0.054	0.024	0.024	181
					Front	39	2441	100.0%	10.00	10.00	0.049	0.049	0.018	0.018	
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	10.00	10.00	0.017	0.017	0.004	0.004	
					Edge 2	39	2441	100.0%	10.00	10.00	0.097	0.097	0.039	0.039	182
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT4 Phigh	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	14.00	14.00	0.368	0.368	0.171	0.171	183
					Left Tilt	39	2441	100.0%	14.00	14.00	0.271	0.271	0.122	0.122	
					Right Touch	39	2441	100.0%	14.00	14.00	0.071	0.071	0.035	0.035	
					Right Tilt	39	2441	100.0%	14.00	14.00	0.075	0.075	0.036	0.036	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	14.00	14.00	0.254	0.254	0.123	0.123	184
					Front	39	2441	100.0%	14.00	14.00	0.141	0.141	0.007	0.007	
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	14.00	14.00	0.091	0.091	0.035	0.035	
					Edge 2	39	2441	100.0%	14.00	14.00	0.385	0.385	0.163	0.163	185
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
ANT4 Pstandalone	Head	GFSK	Mode A	0	Left Touch	0	2402	100.0%	20.00	20.00	0.858	0.858	0.372	0.372	
						39	2441	100.0%	20.00	20.00	1.070	1.070	0.500	0.500	186
						78	2480	100.0%	20.00	20.00	1.010	1.010	0.478	0.478	
					Left Tilt	39	2441	100.0%	20.00	20.00	0.689	0.689	0.031	0.031	
					Right Touch	39	2441	100.0%	20.00	20.00	0.172	0.172	0.009	0.009	
					Right Tilt	39	2441	100.0%	20.00	20.00	0.190	0.190	0.091	0.091	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	20.00	20.00	0.651	0.651	0.326	0.326	187
					Front	39	2441	100.0%	20.00	20.00	0.474	0.474	0.235	0.235	
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	20.00	20.00	0.352	0.352	0.139	0.139	
					Edge 2	0	2402	100.0%	20.00	20.00	0.963	0.963	0.397	0.397	188
						39	2441	100.0%	20.00	20.00	0.865	0.865	0.386	0.386	
						78	2480	100.0%	20.00	20.00	0.887	0.887	0.391	0.391	

11. SAR Measurement Variability

In accordance with published RF Exposure KDB 865664 D01 SAR measurement 100 MHz to 6 GHz. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.8 or 2 W/kg (1-g or 10-g respectively); steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.8 or 2 W/kg (1-g or 10-g respectively), repeat that measurement once.
- 3) Perform a second repeated measurement only if the **ratio of largest to smallest SAR** for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 or 3.6 W/kg (~ 10% from the 1-g or 10-g respective SAR limit).
- 4) Perform a third repeated measurement only if the original, first, or second repeated measurement is ≥ 1.5 or 3.75 W/kg (1-g or 10-g respectively) and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

Frequency Band (MHz)	Air Interface	RF Exposure Conditions	Test Position	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	First Repeated	
						Measured SAR (W/kg)	Largest to Smallest SAR Ratio
1700	LTE Band 66	Hotspot	Edge 3	Yes	0.914	0.849	1.08
1900	CDMA BC1	Head	Right Touch	Yes	0.991	0.908	1.09
2300	LTE Band 30	Hotspot	Edge 2	Yes	0.990	0.867	1.14
2400	Wi-Fi 802.11b/g/n	Head	Left Touch	Yes	1.130	1.020	1.11
2500	LTE Band 7	Hotspot	Edge 4	Yes	0.988	0.889	1.11
2600	LTE Band 41	Head	Left Touch	Yes	0.999	0.959	1.04
3600	LTE Band 48	Hotspot	Edge 2	Yes	0.926	0.875	1.06
5200	Wi-Fi 802.11a/n/ac	Head	Right Touch	Yes	1.140	1.080	1.06
5300	Wi-Fi 802.11a/n/ac	Body & Airplay	Rear	Yes	0.977	0.907	1.08
5500	Wi-Fi 802.11a/n/ac	Head	Right Tilt	Yes	1.150	1.040	1.11
5800	Wi-Fi 802.11a/n/ac	Body & Airplay	Rear	Yes	1.110	1.11	1.00

Note(s):

Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is < 1.20 .

12. Simultaneous Transmission Conditions

KDB 447498 D01 General RF Exposure Guidance provides two procedures for determining simultaneous transmission SAR test exclusion: Sum of SAR and SAR to Peak Location Ratio (SPLSR)

Sum of SAR

To qualify for simultaneous transmission SAR test exclusion based upon Sum of SAR the sum of the reported standalone SARs for all simultaneously transmitting antennas shall be below the applicable standalone SAR limit. If the sum of the SARs is above the applicable limit then simultaneous transmission SAR test exclusion may still apply if the requirements of the SAR to Peak Location Ratio (SPLSR) evaluation are met.

SAR to Peak Location Ratio (SPLSR)

KDB 447498 D01 General RF Exposure Guidance explains how to calculate the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR = (SAR_1 + SAR_2)^{1.5} / Ri$$

Where:

SAR₁ is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR₂ is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

Ri is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$

In order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR_1 + SAR_2)^{1.5} / Ri \leq 0.04$$

When an individual antenna transmits at on two bands simultaneously, the sum of the highest reported SAR for the frequency bands should be used to determine **SAR₁** or **SAR₂**. When SPLSR is necessary, the smallest distance between the peak SAR locations for the antenna pair with respect to the peaks from each antenna should be used.

The antennas in all antenna pairs that do not qualify for simultaneous transmission SAR test exclusion must be tested for SAR compliance, according to the enlarged zoom scan and volume scan post-processing procedures in KDB Publication 865664 D01

Simultaneous transmission SAR measurement

When simultaneous transmission SAR measurements are required in different frequency bands not covered by a single probe calibration point then separate tests for each frequency band are performed. The tests are performed using enlarged zoom scans which are processed, by means of superposition, using the DASY volume scan post-processing procedures to determine the 1-g SAR for the aggregate SAR distribution.

The spatial resolution used for all enlarged zoom scans is the same as used for the most stringent zoom scans. I.E. the scan parameters required for the highest frequency assessed are used for all enlarged zoom scans. The scans cover the complete area of the device to ensure all transmitting antennas and radiating structures are assessed.

DASY provides the ability to perform Multiband Evaluations according to the latest standards using the Volume Scan job as well as appropriate routines for the Post-processing.

In order to extract and process measurements within different frequency bands, the SEMCAD X Post-processor performs the combination and subsequent superposition of these measurement data via DASY = Combined MultiBand Averaged SAR.

Combined Multi Band Averaged SAR allows - in addition to the data extraction - an evaluation of the 1 g, 10 g and/or arbitrary averaged mass SAR.

Power Scaling Factor is used to allow the volume scans to be scaled by a value other than "1", this is important when the results need to be scaled to different maximum power levels. The Power Scaling Factor is applied to each individual point of the scan. When power scaling is used in multi-band combinations the scaling factor is applied to each individual point of the first scan, the second factor is then applied to each individual point of the second scan and so on. The scans are then combined.

Simultaneous transmission SAR Exclusion

According to KDB 248227 D01, simultaneous SAR provisions in KDB 447498 D01 apply to determine simultaneous transmission SAR test exclusion for Wi-Fi MIMO. If the sum of 1-g single transmission chain SAR measurements is <1.6W/kg and/or the MIMO output power is equal or less than a single chain, then no additional SAR measurements for simultaneously at the specified maximum output power of MIMO operation.

When antennas are spatially separated to the extent that SAR distributions do not overlap and can be treated independently, SAR compliance for simultaneous transmission is determined separately for each individual antenna.

In Airplay mode, the device uses same power and power control mechanism as Wi-Fi. Airplay is not supported in hotspot mode. Airplay utilize the same 802.11 modes, modulation, MIMO, Channel Bandwidth, etc. as Wi-Fi does. Therefore Airplay usage is categorized by the Wi-Fi SAR testing contained in Section 10.

The simultaneous transmission possibilities for this device are listed as below.

RF Exposure Condition	Item	Capable Transmit Configurations	
Head Body Worn Accessory Hotspot	1	WWAN & 5G OFF (CELLULAR ANTENNAS OFF)	+ (ANT5) Wi-Fi 5 GHz SISO + (ANT3) Bluetooth (P _{High})
	2		+ (ANT6) Wi-Fi 5 GHz SISO + (ANT3) Bluetooth (P _{High})
	3		+ Wi-Fi 5 GHz MIMO + (ANT3) Bluetooth (P _{High})
	4		+ (ANT5) Wi-Fi 5 GHz SISO + (ANT4) Bluetooth (P _{High})
	5		+ (ANT6) Wi-Fi 5 GHz SISO + (ANT4) Bluetooth (P _{High})
	6		+ Wi-Fi 5 GHz MIMO + (ANT4) Bluetooth (P _{High})
	7	WWAN & 5G ON (CELLULAR ANTENNAS ON)	+ (ANT3) Wi-Fi 2.4 GHz SISO
	8		+ (ANT4) Wi-Fi 2.4 GHz SISO
	9		+ Wi-Fi 2.4 GHz MIMO
	10		+ (ANT3) Bluetooth (P _{High})
	11		+ (ANT4) Bluetooth (P _{High})
	12		+ (ANT5) Wi-Fi 5 GHz SISO
	13		+ (ANT6) Wi-Fi 5 GHz SISO
	14		+ Wi-Fi 5 GHz MIMO
	15		+ (ANT5) Wi-Fi 5 GHz SISO + (ANT3) Bluetooth (P _{Low})
	16		+ (ANT6) Wi-Fi 5 GHz SISO + (ANT3) Bluetooth (P _{Low})
	17		+ Wi-Fi 5 GHz MIMO + (ANT3) Bluetooth (P _{Low})
	18		+ (ANT5) Wi-Fi 5 GHz SISO + (ANT4) Bluetooth (P _{Low})
	19		+ (ANT6) Wi-Fi 5 GHz SISO + (ANT4) Bluetooth (P _{Low})
	20		+ Wi-Fi 5 GHz MIMO + (ANT4) Bluetooth (P _{Low})

Note(s):

- Wi-Fi 2.4GHz & Bluetooth cannot transmit simultaneously.
- Wi-Fi 2.4GHz & Wi-Fi 5GHz cannot transmit simultaneously.
- WWAN cannot transmit simultaneously.
- Bluetooth P_{Low} is used with Wi-Fi and WWAN antennas are active.
- Bluetooth P_{High} is used when Wi-Fi antenna is active and WWAN antenna is inactive or with Wi-Fi inactive and WWAN antenna is active.
- Bluetooth P_{standalone} is used with Wi-Fi and WWAN antennas are inactive.
- Wi-Fi SISO mode SAR result can also represent for MIMO mode SAR and is used for MIMO mode simultaneous transmission analysis because antennas are not overlapping and the MIMO mode maximum power is equal or less than SISO mode.
- 5G NR only supported NSA mode.
- For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In Part 1 Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR.

12.1. Sum of the SAR for WWAN Cell-off & Wi-Fi & BT results

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		1	2	3	4	1+3	1+4	2+3	2+4
		Wi-Fi 5G ANT5	Wi-Fi 5G ANT6	BT(P _{high}) ANT3	BT(P _{high}) ANT4				
Head	Left Touch	0.009	0.572	0.052	0.368	0.061	0.377	0.624	0.940
	Left Tilt	0.009	0.572	0.012	0.271	0.021	0.280	0.584	0.843
	Right Touch	0.014	1.167	0.027	0.071	0.041	0.084	1.194	1.237
	Right Tilt	0.009	1.088	0.029	0.075	0.038	0.084	1.117	1.163
Body-worn & Hotspot	Rear	1.193	1.162	0.381	0.254	1.574	1.447	1.543	1.416
	Front	0.269	0.509	0.129	0.141	0.398	0.410	0.638	0.650
Hotspot	Edge 1		0.496		0.091		0.091	0.496	0.587
	Edge 2				0.385		0.385		0.385
	Edge 3	0.269		0.019		0.288	0.269	0.019	
	Edge 4	0.269	0.496	0.024		0.292	0.269	0.520	0.496

12.2. Sum of the SAR for WWAN Cell-on(ANT1) & Wi-Fi & BT results

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT1	Wi-Fi 2.4G ANT3	Wi-Fi 2.4G ANT4	BT(P _{high}) ANT3	BT(P _{high}) ANT4				
Head	Left Touch	0.218	0.026	0.297	0.052	0.368	0.244	0.515	0.270	0.586
	Left Tilt	0.145	0.019	0.099	0.012	0.271	0.164	0.244	0.157	0.416
	Right Touch	0.656	0.019	0.099	0.027	0.071	0.675	0.756	0.683	0.727
	Right Tilt	0.120	0.019	0.099	0.029	0.075	0.139	0.219	0.149	0.195
Body-worn & Hptspot	Rear	0.969	0.498	0.436	0.381	0.254	1.467	1.405	1.350	1.223
	Front	0.579	0.242	0.436	0.129	0.141	0.821	1.015	0.708	0.720
Hotspot	Edge 1			0.436		0.091		0.436		0.091
	Edge 2	0.990		0.492		0.385	0.990	1.482	0.990	1.375
	Edge 3	0.968	0.074		0.019		1.042	0.968	0.987	0.968
	Edge 4	0.564	0.074		0.024		0.638	0.564	0.588	0.564
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT1	Wi-Fi 5G ANT5	Wi-Fi 5G ANT6	BT(P _{Low}) ANT3	BT(P _{Low}) ANT4				
Head	Left Touch	0.218	0.009	0.302	0.052	0.089	0.278	0.315	0.572	0.609
	Left Tilt	0.145	0.009	0.302	0.012	0.055	0.166	0.209	0.459	0.502
	Right Touch	0.656	0.014	0.302	0.027	0.016	0.697	0.686	0.986	0.975
	Right Tilt	0.120	0.009	0.302	0.029	0.002	0.158	0.131	0.451	0.424
Body-worn & Hptspot	Rear	0.969	0.414	0.402	0.078	0.054	1.462	1.438	1.449	1.425
	Front	0.579	0.092	0.106	0.030	0.049	0.701	0.720	0.715	0.734
Hotspot	Edge 1			0.106		0.017		0.017	0.106	0.123
	Edge 2	0.990				0.097	0.990	1.087	0.990	1.087
	Edge 3	0.968	0.092		0.001		1.062	1.061	0.969	0.968
	Edge 4	0.564	0.092	0.106	0.001		0.658	0.657	0.671	0.670

12.3. Sum of the SAR for WWAN Cell-on(ANT2) & Wi-Fi & BT results

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT2	Wi-Fi 2.4G ANT3	Wi-Fi 2.4G ANT4	BT(P _{high}) ANT3	BT(P _{high}) ANT4				
Head	Left Touch	0.915	0.026	0.297	0.052	0.368	0.941	1.212	0.967	1.283
	Left Tilt	0.999	0.019	0.099	0.012	0.271	1.018	1.098	1.011	1.270
	Right Touch	0.991	0.019	0.099	0.027	0.071	1.010	1.090	1.018	1.062
	Right Tilt	0.898	0.019	0.099	0.029	0.075	0.917	0.997	0.927	0.973
Body-worn & Hptspot	Rear	0.991	0.498	0.436	0.381	0.254	1.489	1.427	1.372	1.245
	Front	0.640	0.242	0.436	0.129	0.141	0.882	1.076	0.769	0.781
Hotspot	Edge 1	0.975		0.436		0.091	0.975	1.411	0.975	1.066
	Edge 2	0.165		0.492		0.385	0.165	0.657	0.165	0.550
	Edge 3		0.074		0.019		0.074		0.019	
	Edge 4	0.954	0.074		0.024		1.028	0.954	0.978	0.954
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT2	Wi-Fi 5G ANT5	Wi-Fi 5G ANT6	BT(P _{Low}) ANT3	BT(P _{Low}) ANT4				
Head	Left Touch	0.915	0.009	0.302	0.052	0.089	0.976	1.012	1.270	1.306
	Left Tilt	0.999	0.009	0.302	0.012	0.055	1.020	1.063	1.313	1.356
	Right Touch	0.991	0.014	0.302	0.027	0.016	1.032	1.020	1.320	1.309
	Right Tilt	0.898	0.009	0.302	0.029	0.002	0.936	0.909	1.229	1.202
Body-worn & Hptspot	Rear	0.991	0.414	0.402	0.078	0.054	1.483	1.459	1.470	1.446
	Front	0.640	0.092	0.106	0.030	0.049	0.762	0.781	0.775	0.794
Hotspot	Edge 1	0.975		0.106		0.017	0.975	0.992	1.081	1.098
	Edge 2	0.165				0.097	0.165	0.262	0.165	0.262
	Edge 3		0.092		0.001		0.093	0.092	0.001	
	Edge 4	0.954	0.092	0.106	0.001		1.047	1.046	1.061	1.060

12.4. Sum of the SAR for WWAN Cell-on(ANT3) & Wi-Fi & BT results

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT3	Wi-Fi 2.4G ANT3	Wi-Fi 2.4G ANT4	BT(P _{high}) ANT3	BT(P _{high}) ANT4				
Head	Left Touch	0.675	0.026	0.297	0.052	0.368	0.702	0.972	0.727	1.043
	Left Tilt	0.209	0.019	0.099	0.012	0.271	0.228	0.308	0.221	0.480
	Right Touch	0.327	0.019	0.099	0.027	0.071	0.346	0.426	0.354	0.397
	Right Tilt	0.272	0.019	0.099	0.029	0.075	0.291	0.371	0.301	0.346
Body-worn & Hptspot	Rear	0.971	0.498	0.436	0.381	0.254	1.469	1.407	1.352	1.225
	Front	0.603	0.242	0.436	0.129	0.141	0.845	1.039	0.732	0.744
Hotspot	Edge 1			0.436		0.091		0.436		0.091
	Edge 2			0.492		0.385		0.492		0.385
	Edge 3	0.256	0.074		0.019		0.330	0.256	0.275	0.256
	Edge 4	0.988	0.074		0.024		1.062	0.988	1.012	0.988
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT3	Wi-Fi 5G ANT5	Wi-Fi 5G ANT6	BT(P _{Low}) ANT3	BT(P _{Low}) ANT4				
Head	Left Touch	0.675	0.009	0.302	0.052	0.089	0.736	0.773	1.030	1.066
	Left Tilt	0.209	0.009	0.302	0.012	0.055	0.230	0.273	0.523	0.566
	Right Touch	0.327	0.014	0.302	0.027	0.016	0.367	0.356	0.656	0.645
	Right Tilt	0.272	0.009	0.302	0.029	0.002	0.310	0.282	0.603	0.576
Body-worn & Hptspot	Rear	0.971	0.414	0.402	0.078	0.054	1.463	1.439	1.450	1.426
	Front	0.603	0.092	0.106	0.030	0.049	0.725	0.744	0.738	0.757
Hotspot	Edge 1			0.106		0.017		0.017	0.106	0.123
	Edge 2					0.097		0.097		0.097
	Edge 3	0.256	0.092		0.001		0.349	0.348	0.257	0.256
	Edge 4	0.988	0.092	0.106	0.001		1.081	1.080	1.095	1.094

12.5. Sum of the SAR for WWAN Cell-on(ANT4) & Wi-Fi & BT results

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT4	Wi-Fi 2.4G ANT3	Wi-Fi 2.4G ANT4	BT(P _{high}) ANT3	BT(P _{high}) ANT4				
Head	Left Touch	0.999	0.026	0.297	0.052	0.368	1.025	1.296	1.051	1.367
	Left Tilt	0.818	0.019	0.099	0.012	0.271	0.837	0.917	0.830	1.089
	Right Touch	0.770	0.019	0.099	0.027	0.071	0.789	0.869	0.797	0.841
	Right Tilt	0.595	0.019	0.099	0.029	0.075	0.614	0.694	0.624	0.670
Body-worn & Hptspot	Rear	0.927	0.498	0.436	0.381	0.254	1.425	1.363	1.308	1.181
	Front	0.634	0.242	0.436	0.129	0.141	0.876	1.070	0.763	0.775
Hotspot	Edge 1	0.375		0.436		0.091	0.375	0.811	0.375	0.466
	Edge 2	0.981		0.492		0.385	0.981	1.473	0.981	1.366
	Edge 3		0.074		0.019		0.074		0.019	
	Edge 4		0.074		0.024		0.074		0.024	
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT4	Wi-Fi 5G ANT5	Wi-Fi 5G ANT6	BT(P _{Low}) ANT3	BT(P _{Low}) ANT4				
Head	Left Touch	0.999	0.009	0.302	0.052	0.089	1.060	1.096	1.353	1.390
	Left Tilt	0.818	0.009	0.302	0.012	0.055	0.839	0.882	1.132	1.175
	Right Touch	0.770	0.014	0.302	0.027	0.016	0.811	0.799	1.099	1.088
	Right Tilt	0.595	0.009	0.302	0.029	0.002	0.633	0.606	0.926	0.899
Body-worn & Hptspot	Rear	0.927	0.414	0.402	0.078	0.054	1.419	1.395	1.407	1.383
	Front	0.634	0.092	0.106	0.030	0.049	0.757	0.776	0.770	0.789
Hotspot	Edge 1	0.375		0.106		0.017	0.375	0.392	0.481	0.498
	Edge 2	0.981				0.097	0.981	1.078	0.981	1.078
	Edge 3		0.092		0.001		0.093	0.092	0.001	
	Edge 4		0.092	0.106	0.001		0.093	0.092	0.107	0.106

12.6. Sum of the SAR for WWAN Cell-on(ANT7) & Wi-Fi & BT results

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT7	Wi-Fi 2.4G ANT3	Wi-Fi 2.4G ANT4	BT(P _{high}) ANT3	BT(P _{high}) ANT4				
Head	Left Touch	0.193	0.026	0.297	0.052	0.368	0.219	0.490	0.245	0.561
	Left Tilt	0.169	0.019	0.099	0.012	0.271	0.188	0.268	0.181	0.440
	Right Touch	0.375	0.019	0.099	0.027	0.071	0.394	0.474	0.402	0.446
	Right Tilt	0.102	0.019	0.099	0.029	0.075	0.121	0.201	0.131	0.177
Body-worn & Hptspot	Rear	0.646	0.498	0.436	0.381	0.254	1.144	1.082	1.027	0.900
	Front	0.568	0.242	0.436	0.129	0.141	0.810	1.004	0.697	0.709
Hotspot	Edge 1			0.436		0.091		0.436		0.091
	Edge 2	0.944		0.492		0.385	0.944	1.436	0.944	1.329
	Edge 3	0.255	0.074		0.019		0.329	0.255	0.274	0.255
	Edge 4		0.074		0.024		0.074		0.024	
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT7	Wi-Fi 5G ANT5	Wi-Fi 5G ANT6	BT(P _{Low}) ANT3	BT(P _{Low}) ANT4				
Head	Left Touch	0.193	0.009	0.302	0.052	0.089	0.254	0.290	0.547	0.584
	Left Tilt	0.169	0.009	0.302	0.012	0.055	0.190	0.233	0.483	0.526
	Right Touch	0.375	0.014	0.302	0.027	0.016	0.416	0.404	0.704	0.693
	Right Tilt	0.102	0.009	0.302	0.029	0.002	0.140	0.113	0.433	0.406
Body-worn & Hptspot	Rear	0.646	0.414	0.402	0.078	0.054	1.138	1.114	1.126	1.102
	Front	0.568	0.092	0.106	0.030	0.049	0.690	0.709	0.703	0.722
Hotspot	Edge 1			0.106		0.017		0.017	0.106	0.123
	Edge 2	0.944				0.097	0.944	1.041	0.944	1.041
	Edge 3	0.255	0.092		0.001		0.348	0.347	0.256	0.255
	Edge 4		0.092	0.106	0.001		0.093	0.092	0.107	0.106

12.7. Sum of the SAR for WWAN Cell-on(ANT8) & Wi-Fi & BT results

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT8	Wi-Fi 2.4G ANT3	Wi-Fi 2.4G ANT4	BT(P _{high}) ANT3	BT(P _{high}) ANT4				
Head	Left Touch	0.202	0.026	0.297	0.052	0.368	0.228	0.499	0.254	0.570
	Left Tilt	0.145	0.019	0.099	0.012	0.271	0.164	0.244	0.157	0.416
	Right Touch	0.908	0.019	0.099	0.027	0.071	0.927	1.007	0.935	0.979
	Right Tilt	0.355	0.019	0.099	0.029	0.075	0.374	0.454	0.384	0.429
Body-worn & Hptspot	Rear	0.933	0.498	0.436	0.381	0.254	1.431	1.369	1.314	1.187
	Front	0.429	0.242	0.436	0.129	0.141	0.671	0.865	0.558	0.570
Hotspot	Edge 1	0.106		0.436		0.091	0.106	0.542	0.106	0.197
	Edge 2			0.492		0.385		0.492		0.385
	Edge 3		0.074		0.019		0.074		0.019	
	Edge 4	0.849	0.074		0.024		0.923	0.849	0.873	0.849
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT8	Wi-Fi 5G ANT5	Wi-Fi 5G ANT6	BT(P _{Low}) ANT3	BT(P _{Low}) ANT4				
Head	Left Touch	0.202	0.009	0.302	0.052	0.089	0.263	0.299	0.556	0.593
	Left Tilt	0.145	0.009	0.302	0.012	0.055	0.166	0.208	0.459	0.502
	Right Touch	0.908	0.014	0.302	0.027	0.016	0.949	0.937	1.237	1.226
	Right Tilt	0.355	0.009	0.302	0.029	0.002	0.393	0.366	0.686	0.659
Body-worn & Hptspot	Rear	0.933	0.414	0.402	0.078	0.054	1.425	1.401	1.413	1.389
	Front	0.429	0.092	0.106	0.030	0.049	0.551	0.570	0.565	0.584
Hotspot	Edge 1	0.106		0.106		0.017	0.106	0.123	0.212	0.229
	Edge 2					0.097		0.097		0.097
	Edge 3		0.092		0.001		0.093	0.092	0.001	
	Edge 4	0.849	0.092	0.106	0.001		0.942	0.941	0.956	0.955

12.8. Sum of the SAR for WWAN Cell-on(ANT9) & Wi-Fi & BT results

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	6	7	1+2	1+3	1+6	1+7
		WWAN Cell-on ANT9	Wi-Fi 2.4G ANT3	Wi-Fi 2.4G ANT4	BT(P _{high}) ANT3	BT(P _{high}) ANT4				
Head	Left Touch	0.135	0.026	0.297	0.052	0.368	0.161	0.432	0.187	0.503
	Left Tilt	0.032	0.019	0.099	0.012	0.271	0.051	0.131	0.044	0.303
	Right Touch	0.059	0.019	0.099	0.027	0.071	0.078	0.158	0.086	0.129
	Right Tilt	0.050	0.019	0.099	0.029	0.075	0.069	0.149	0.079	0.125
Body-worn & Hptspot	Rear	0.983	0.498	0.436	0.381	0.254	1.481	1.419	1.364	1.237
	Front	0.652	0.242	0.436	0.129	0.141	0.894	1.088	0.781	0.793
Hotspot	Edge 1			0.436		0.091		0.436		0.091
	Edge 2			0.492		0.385		0.492		0.385
	Edge 3	0.554	0.074		0.019		0.628	0.554	0.573	0.554
	Edge 4	0.699	0.074		0.024		0.773	0.699	0.723	0.699
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	4	5	8	9	1+4+8	1+4+9	1+5+8	1+5+9
		WWAN Cell-on ANT9	Wi-Fi 5G ANT5	Wi-Fi 5G ANT6	BT(P _{Low}) ANT3	BT(P _{Low}) ANT4				
Head	Left Touch	0.135	0.009	0.302	0.052	0.089	0.195	0.232	0.489	0.526
	Left Tilt	0.032	0.009	0.302	0.012	0.055	0.053	0.096	0.346	0.389
	Right Touch	0.059	0.014	0.302	0.027	0.016	0.099	0.088	0.388	0.377
	Right Tilt	0.050	0.009	0.302	0.029	0.002	0.088	0.061	0.382	0.355
Body-worn & Hptspot	Rear	0.983	0.414	0.402	0.078	0.054	1.475	1.451	1.463	1.439
	Front	0.652	0.092	0.106	0.030	0.049	0.774	0.793	0.788	0.806
Hotspot	Edge 1			0.106		0.017		0.017	0.106	0.123
	Edge 2					0.097		0.097		0.097
	Edge 3	0.554	0.092		0.001		0.647	0.646	0.555	0.554
	Edge 4	0.699	0.092	0.106	0.001		0.792	0.791	0.806	0.805

Appendixes

Refer to separated files for the following appendixes.

Appendix A: SAR Setup Photos

Appendix B: SAR System Check Plots

Appendix C: SAR Highest Test Plots

Appendix D: SAR Tissue Ingredients

Appendix E: SAR Probe Certificates

Appendix F: SAR Dipole Certificates

Appendix G: LTE Down-Link Carrier Aggregation

Appendix H: Body Detect Validation

Appendix I: Wi-Fi Time-Averaged SAR(TAS)

END OF REPORT