



SAR EVALUATION REPORT

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

For
SMARTPHONE

**FCC ID: BCG-E3541A
Model Name: A2399, A2400, A2401**

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1. Attestation of Test Results

Applicant Name		APPLE, INC.			
FCC ID		BCG-E3541A			
Model Name		A2399, A2400, A2401			
Difference in Model Name		Model A2400, A2401 is electrically identical to Model A2399. Three model numbers are allocated for marketing and logistic purposes only			
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		0.994	1.060	1.185	0.827
Body-worn (Dist.= 5 mm)		0.997	1.020	1.190	0.782
Hotspot (Dist.= 5 mm)		0.992	1.160	1.190	0.966
Simultaneous TX	Head	1.397	1.397	1.370	1.370
	Body-worn	1.486	1.393	1.486	1.486
	Hotspot	1.559	1.554	1.559	1.559
Date Tested		8/24/2020 to 9/26/2020			
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

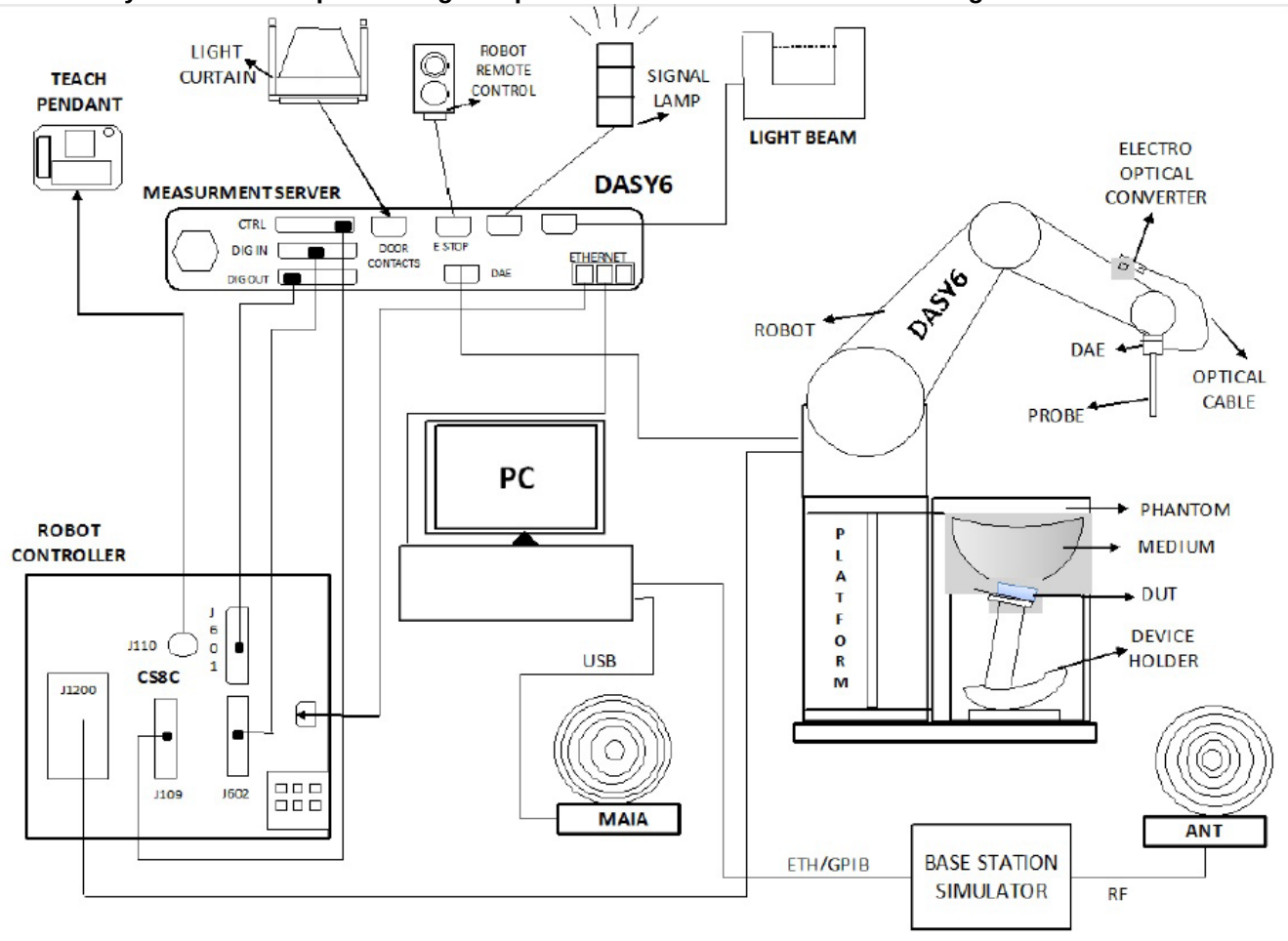
47173 Benicia Street	47266 Benicia Street
SAR Lab A	SAR Lab 1
SAR Lab B	SAR Lab 2
SAR Lab C	SAR Lab 3
SAR Lab D	SAR Lab 4
SAR Lab E	SAR Lab 5
SAR Lab F	SAR Lab 6
SAR Lab G	SAR Lab 8
SAR Lab H	SAR Lab L1
	SAR Lab L2
	SAR Lab L3
	SAR Lab L4
	SAR Lab L6

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 C)	SPEAG	EX3DV4	7569	5/7/2021
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	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	1439	7/16/2021
Data Acquisition Electronics (SAR Lab B)	SPEAG	DAE4	1545	4/15/2021
Data Acquisition Electronics (SAR Lab C)	SPEAG	DAE4	1620	5/7/2021
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	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	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	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	1138	8/17/2021
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): 131.50 mm x 64.21 mm Overall Diagonal: 146.30 mm (5.76 inch) Display Diagonal: 137.67 mm (5.42 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 17 FDD Band 25 FDD Band 26 FDD Band 30 TDD Band 41 ² TDD Band 46 (DL Only) TDD Band 48 FDD Band 66 Carrier Aggregation ³ FDD Band 5B FDD Band 7C TDD Band 41C ² TDD Band 48C	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
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 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) 98.9% (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)		98.9% (802.11a/n/ac 20MHz BW) 97.9% (802.11n/ac 40MHz BW) 95.8% (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 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/ 710	23825/ 710		

				711	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

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	$26336 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$	$13152 \cdot T_s$	$12800 \cdot T_s$	-	-	-
9	$13168 \cdot T_s$			-	-	-
10	$13168 \cdot T_s$			-	-	-

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
	Low	509200 /2546	508200 /2541	507200 /2536	505200 /2526	504200 /2521	503200 /2516			501200 /2506			
	Mid- Low	513900 /2569.5	513400 /2567	512900 /2564.5	511900 /2559.5	511400 /2557	510900 /2554.5			509900 /2549.5			
	Mid	518600 /2593	518600 /2593	518600 /2593	518600 /2593	518600 /2593	518600 /2593			518600 /2593			
	Mid- High	523300 /2616.5	523800 /2619	524300 /2621.5	525300 /2626.5	525800 /2629	526300 /2631.5			527300 /2636.5			
	High	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
	n77	Frequency range: 3700 - 3980 MHz (BW = 280 MHz)											
		Channel Bandwidth (MHz)											
		100	90	80	60	50	40	30	25	20	15	10	5
	Low	650000 /3750	649666 /3744.99	649334 /3740.01	648666 /3729.99	648334 /3725.01	648000 /3720			647334 /3710.01			
	Mid- Low	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) 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
LTE Anchor Bands for NR band n77	LTE Band 41

Notes:

1. 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.
2. 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.
3. 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	36.52	32.50	30.50	26.48	32.52	31.50	26.50	25.48	32.50	26.48
	GSM 1900 2 slots ¹	0.25	35.62	31.00	29.60	24.98	24.14	23.75	18.12	17.73	31.00	24.98
	W-CDMA B2	1	27.96	25.70	27.96	25.70	17.80	17.50	17.80	17.50	25.70	25.70
	W-CDMA B4	1	30.39	25.70	30.39	25.70	18.83	18.50	18.83	18.50	25.70	25.70
	W-CDMA B5	1	30.31	25.70	30.31	25.70	26.41	25.25	26.41	25.25	25.70	25.70
	CDMA BC0	1	31.49	25.70	31.49	25.70	26.27	25.25	26.27	25.25	25.70	25.70
	CDMA BC1	1	29.80	25.70	29.80	25.70	17.77	17.50	17.77	17.50	25.70	25.70
	CDMA BC10	1	31.72	25.70	31.72	25.70	27.33	25.25	27.33	25.25	25.70	25.70
	LTE Band 5	1	30.42	25.70	30.42	25.70	26.48	25.25	26.48	25.25	25.70	25.70
	LTE Band 7	1	25.75	25.25	25.75	25.25	19.01	19.00	19.01	19.00	25.70	25.70
	LTE Band 12/17	1	33.68	25.70	33.68	25.70	27.42	25.70	27.42	25.70	25.70	25.70
	LTE Band 13	1	30.70	25.70	30.70	25.70	26.03	25.70	26.03	25.70	25.70	25.70
	LTE Band 25/2	1	30.68	25.70	30.68	25.70	17.73	17.50	17.73	17.50	25.70	25.70
	LTE Band 26	1	31.00	25.70	31.00	25.70	25.42	25.25	25.42	25.25	25.70	25.70
	LTE Band 30	1	29.55	25.70	29.55	25.70	22.69	22.25	22.69	22.25	25.70	25.70
	LTE Band 41 ¹	0.633	28.91	25.70	26.93	23.71	22.67	22.50	20.68	20.51	25.70	23.71
	LTE Band 66/4	1	29.60	25.70	29.60	25.70	18.70	18.50	18.70	18.50	25.70	25.70
	NR n5	1	32.42	25.70	32.42	25.70	28.06	25.25	28.06	25.25	25.70	25.70
	NR n12	1	35.02	25.70	35.02	25.70	30.32	25.70	30.32	25.70	25.70	25.70
NR n25/2	1	31.08	25.70	31.08	25.70	18.22	17.50	18.22	17.50	25.70	25.70	
NR n41 ¹	1	28.56	25.25	28.56	25.25	22.87	20.50	22.87	20.50	24.00	24.00	
NR n66	1	33.37	25.70	33.37	25.70	19.67	18.50	19.67	18.50	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	
ANT2	GSM 850 2 slots ¹	0.25	32.35	31.00	26.33	24.98	34.71	31.00	28.69	24.98	31.00	24.98
	GSM 1900 2 slots ¹	0.25	28.07	27.75	22.05	21.73	25.68	25.50	19.66	19.48	28.50	22.48
	W-CDMA B2	1	21.55	21.50	21.55	21.50	19.48	19.25	19.48	19.25	23.10	23.10
	W-CDMA B4	1	20.03	20.00	20.03	20.00	18.32	18.25	18.32	18.25	23.10	23.10
	W-CDMA B5	1	26.17	24.50	26.17	24.50	28.90	24.50	28.90	24.50	24.50	24.50
	CDMA BC0	1	25.05	24.50	25.05	24.50	28.14	24.50	28.14	24.50	24.50	24.50
	CDMA BC1	1	21.53	21.50	21.53	21.50	19.37	19.25	19.37	19.25	23.10	23.10
	CDMA BC10	1	24.88	24.50	24.88	24.50	28.92	24.50	28.92	24.50	24.50	24.50
	LTE Band 5	1	26.25	24.50	26.25	24.50	28.36	24.50	28.36	24.50	24.50	24.50
	LTE Band 7	1	19.30	19.00	19.30	19.00	19.44	19.25	19.44	19.25	22.80	22.80
	LTE Band 12/17	1	26.46	24.50	26.46	24.50	28.18	24.50	28.18	24.50	24.50	24.50
	LTE Band 13	1	28.49	24.50	28.49	24.50	28.87	24.50	28.87	24.50	24.50	24.50
	LTE Band 25/2	1	21.68	21.50	21.68	21.50	19.58	19.25	19.58	19.25	23.10	23.10
	LTE Band 26	1	26.39	24.50	26.39	24.50	28.29	24.50	28.29	24.50	24.50	24.50
	LTE Band 30	1	18.72	18.50	18.72	18.50	19.80	19.50	19.80	19.50	22.80	22.80
	LTE Band 41 ¹	0.633	19.84	19.75	17.86	17.76	21.03	21.00	19.04	19.01	23.70	21.71
	LTE Band 66/4	1	20.05	20.00	20.05	20.00	18.56	18.25	18.56	18.25	23.10	23.10
	NR n5	1	26.19	24.50	26.19	24.50	28.84	24.50	28.84	24.50	24.50	24.50
	NR n12	1	28.37	24.50	28.37	24.50	30.47	24.50	30.47	24.50	24.50	24.50
	NR n25/2	1	23.27	21.50	23.27	21.50	20.10	19.25	20.10	19.25	23.10	23.10
	NR n41 ¹	1	19.55	17.75	19.55	17.75	20.56	19.00	20.56	19.00	26.00	26.00
	NR n66	1	22.46	20.00	22.46	20.00	19.89	18.25	19.89	18.25	23.10	23.10

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 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 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	33.16	30.00	27.14	23.98	27.68	27.50	21.65	21.48	30.00	23.98
	W-CDMA B2	1	27.55	24.70	27.55	24.70	21.38	21.00	21.65	21.00	24.70	24.70
	W-CDMA B4	1	27.68	24.70	27.68	24.70	20.92	20.75	20.92	20.75	24.70	24.70
	LTE Band 7	1	28.95	24.50	28.95	24.50	19.13	19.00	19.13	19.00	25.00	25.00
	LTE Band 25/2	1	27.54	24.70	27.54	24.70	21.44	21.25	21.44	21.25	25.00	25.00
	LTE Band 30	1	26.25	24.50	26.25	24.50	20.89	20.75	20.89	20.75	25.00	25.00
	LTE Band 41 ¹	0.633	26.46	24.70	24.47	22.71	22.00	21.75	20.01	19.76	25.00	23.01
	LTE Band 66/4	1	26.87	24.70	26.87	24.70	20.98	20.75	20.98	20.75	25.00	25.00
	NR n25/2	1	28.70	24.70	28.70	24.70	21.97	21.25	21.97	21.25	25.00	25.00
NR n41 ¹	1	26.71	24.50	26.71	24.50	21.44	19.75	21.44	19.75	23.00	23.00	
NR n66	1	31.44	24.70	31.44	24.70	23.26	20.75	23.26	20.75	25.00	25.00	
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 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 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	26.92	26.75	20.90	20.73	28.44	28.00	22.42	21.98	28.00	21.98
	W-CDMA B2	1	20.28	20.25	20.28	20.25	22.66	22.50	22.66	22.50	22.70	22.70
	W-CDMA B4	1	20.21	20.00	20.21	20.00	21.38	21.25	21.38	21.25	22.70	22.70
	LTE Band 7	1	19.63	19.50	19.63	19.50	20.51	20.25	20.51	20.25	22.50	22.50
	LTE Band 25/2	1	20.53	20.50	20.53	20.50	21.97	21.75	21.97	21.75	23.00	23.00
	LTE Band 30	1	20.81	20.75	20.81	20.75	21.47	21.25	21.47	21.25	22.50	22.50
	LTE Band 41 ¹	0.633	21.32	21.25	19.33	19.26	22.42	22.20	20.43	20.21	22.50	20.51
	LTE Band 48 ¹	0.633	20.03	20.00	18.05	18.01	21.59	21.50	19.60	19.51	22.50	20.51
	LTE Band 66/4	1	20.08	20.00	20.08	20.00	21.45	21.25	21.45	21.25	23.00	23.00
	NR n25/2	1	20.63	20.50	20.63	20.50	23.12	21.75	23.12	21.75	23.00	23.00
	NR n41 ¹	1	21.99	19.25	21.99	19.25	23.42	20.25	23.42	20.25	25.00	25.00
NR n66	1	20.79	20.00	20.79	20.00	22.93	21.25	22.93	21.25	23.00	23.00	
NR n77 ¹	1	16.49	16.25	16.49	16.25	17.03	17.00	17.03	17.00	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 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 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	
ANT7	LTE Band 48 ¹	0.633	28.55	25.70	26.56	23.71	21.60	21.50	19.62	19.51	22.00	20.01
	NR n77 ¹	1	26.13	25.70	26.13	25.70	20.05	19.75	20.05	19.75	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 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 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	20.31	20.25	18.33	18.26	21.59	21.50	19.61	19.51	22.80	20.81
	NR n77 ¹	1	18.24	18.00	18.24	18.00	18.85	18.50	18.85	18.50	22.80	22.80
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 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 W/kg (SAR _{design_target})	P _{limit} (dBm) Tune-up power table	P _{design} (dBm) corresponding to 1.0 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	30.50	25.70	28.52	23.71	23.09	23.00	21.10	21.01	24.60	22.61
	NR n77 ¹	1	28.53	25.70	28.53	25.70	20.94	20.75	20.94	20.75	26.00	26.00

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.

4. LTE B48 and 5G NR n41 was SAR tested at P_{limit} . Band 48 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 $P_{\text{max}} < P_{\text{limit}}$. 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 B2/4/5/7/12/13/25/26/30/41/66 5G(FR1) n2/n5/n12/n25/n41/n66	Yes	Yes	No	Yes	Yes	Yes
ANT2	GSM 850/1900 WCDMA B2/4/5 CDMA BC0/1/10 LTE B2/4/5/7/12/13/17/25/26/30/41/66 5G(FR1) n2/n5/n12/n25/n41/n66	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	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	9/9/2020	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
A	9/12/2020	3500	Head	3500	39.16	37.93	3.24	2.82	2.91	-3.15
				3600	39.06	37.82	3.29	2.90	3.01	-3.88
				3700	38.76	37.70	2.81	3.02	3.12	-3.12
A	9/15/2020	1750	Head	1750	38.44	40.08	-4.10	1.34	1.37	-2.12
				1710	38.51	40.15	-4.08	1.31	1.35	-2.48
				1755	38.44	40.08	-4.08	1.34	1.37	-2.32
A	9/19/2020	1750	Head	1750	39.03	40.08	-2.63	1.34	1.37	-2.48
				1710	39.15	40.15	-2.48	1.31	1.35	-2.70
				1755	39.03	40.08	-2.61	1.34	1.37	-2.68
A	9/20/2020	1900	Head	1900	39.12	40.00	-2.20	1.39	1.40	-0.50
				1850	39.13	40.00	-2.17	1.34	1.40	-4.29
				1920	39.09	40.00	-2.27	1.40	1.40	-0.21
A	9/23/2020	1750	Head	1750	39.26	40.08	-2.06	1.35	1.37	-1.17
				1710	39.33	40.15	-2.03	1.32	1.35	-1.74
				1755	39.27	40.08	-2.01	1.36	1.37	-1.15
A	9/24/2020	1900	Head	1900	39.57	40.00	-1.08	1.45	1.40	3.64
				1850	39.67	40.00	-0.82	1.43	1.40	2.07
				1920	39.49	40.00	-1.28	1.46	1.40	4.57

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
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	9/5/2020	3900	Head	3700	37.90	37.70	0.53	3.16	3.12	1.24
				3900	37.43	37.47	-0.12	3.38	3.32	1.72
				4000	37.16	37.36	-0.53	3.50	3.42	2.33
B	9/5/2020	3500	Head	3500	38.32	37.93	1.03	2.96	2.91	1.59
				3600	38.07	37.82	0.67	3.07	3.01	1.79
				3700	37.90	37.70	0.53	3.16	3.12	1.24
B	9/9/2020	3500	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
B	9/12/2020	3500	Head	3500	37.92	37.93	-0.03	2.78	2.91	-4.69
				3600	37.77	37.82	-0.12	2.88	3.01	-4.38
				3700	37.56	37.70	-0.38	2.98	3.12	-4.53
B	9/16/2020	3500	Head	3500	37.77	37.93	-0.42	2.89	2.91	-0.60
				3600	37.58	37.82	-0.62	3.00	3.01	-0.43
				3700	37.34	37.70	-0.96	3.11	3.12	-0.17
B	9/21/2020	3500	Head	3500	36.79	37.93	-3.00	2.94	2.91	0.84
				3600	36.33	37.82	-3.93	3.06	3.01	1.46
				3700	36.16	37.70	-4.09	3.13	3.12	0.31

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
C	8/24/2020	1750	Head	1750	40.60	40.08	1.29	1.36	1.37	-1.02
				1710	40.65	40.15	1.26	1.33	1.35	-1.07
				1755	40.59	40.08	1.28	1.37	1.37	-0.20
C	8/28/2020	1750	Head	1750	39.38	40.08	-1.76	1.34	1.37	-2.48
				1710	39.45	40.15	-1.73	1.31	1.35	-2.56
				1755	39.37	40.08	-1.76	1.34	1.37	-2.46
C	9/1/2020	1750	Head	1750	38.47	40.08	-4.03	1.32	1.37	-3.94
				1710	38.52	40.15	-4.05	1.29	1.35	-4.04
				1755	38.46	40.08	-4.03	1.32	1.37	-3.92
C	9/6/2020	2600	Head	2600	38.12	39.01	-2.28	1.91	1.96	-2.51
				2495	38.26	39.14	-2.26	1.81	1.85	-2.25
				2690	37.93	38.90	-2.49	1.97	2.06	-4.30
C	9/10/2020	2600	Head	2600	38.33	39.01	-1.75	1.95	1.96	-0.57
				2495	38.45	39.14	-1.77	1.86	1.85	0.78
				2690	38.15	38.90	-1.92	2.02	2.06	-1.72
C	9/14/2020	2600	Head	2600	38.86	39.01	-0.39	1.91	1.96	-2.51
				2495	39.02	39.14	-0.31	1.82	1.85	-1.39
				2690	38.66	38.90	-0.61	1.98	2.06	-3.91
C	9/18/2020	2600	Head	2600	37.88	39.01	-2.90	1.95	1.96	-0.47
				2495	38.04	39.14	-2.82	1.87	1.85	0.88
				2690	37.71	38.90	-3.05	2.02	2.06	-2.06
C	9/18/2020	1900	Head	1900	38.67	40.00	-3.33	1.36	1.40	-3.00
				1850	38.65	40.00	-3.38	1.33	1.40	-5.00
				1920	38.62	40.00	-3.45	1.35	1.40	-3.36
C	9/22/2020	2600	Head	2600	40.49	39.01	3.79	1.98	1.96	0.91
				2495	40.43	39.14	3.29	1.92	1.85	3.70
				2690	40.20	38.90	3.35	2.08	2.06	1.19
C	9/22/2020	1900	Head	1900	40.01	40.00	0.02	1.41	1.40	0.57
				1850	40.05	40.00	0.12	1.39	1.40	-1.07
				1920	39.93	40.00	-0.18	1.41	1.40	1.00

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
D	8/26/2020	2600	Head	2600	37.49	39.01	-3.90	1.90	1.96	-2.96
				2495	37.66	39.14	-3.79	1.82	1.85	-1.82
				2690	37.34	38.90	-4.00	1.98	2.06	-3.91
D	8/29/2020	2600	Head	2600	39.46	39.01	1.15	1.99	1.96	1.52
				2495	39.71	39.14	1.45	1.91	1.85	3.43
				2690	39.35	38.90	1.16	2.06	2.06	-0.07
D	9/3/2020	2600	Head	2600	38.19	39.01	-2.10	1.95	1.96	-0.47
				2495	38.48	39.14	-1.69	1.88	1.85	1.70
				2690	38.42	38.90	-1.23	2.02	2.06	-1.87
D	9/7/2020	2600	Head	2600	39.24	39.01	0.59	1.93	1.96	-1.74
				2495	39.35	39.14	0.53	1.84	1.85	-0.63
				2690	39.03	38.90	0.34	2.00	2.06	-2.74
D	9/11/2020	2600	Head	2600	38.04	39.01	-2.49	1.89	1.96	-3.52
				2495	38.18	39.14	-2.46	1.81	1.85	-2.31
				2690	37.85	38.90	-2.69	1.96	2.06	-4.68
D	9/15/2020	1900	Head	1900	41.75	40.00	4.38	1.39	1.40	-0.43
				1850	41.86	40.00	4.65	1.36	1.40	-2.57
				1920	41.72	40.00	4.30	1.40	1.40	0.14
D	9/19/2020	1900	Head	1900	39.34	40.00	-1.65	1.44	1.40	2.50
				1850	39.35	40.00	-1.63	1.40	1.40	0.00
				1920	39.31	40.00	-1.72	1.44	1.40	2.93
D	9/23/2020	1900	Head	1900	39.11	40.00	-2.23	1.41	1.40	0.79
				1850	39.08	40.00	-2.30	1.37	1.40	-2.21
				1920	39.06	40.00	-2.35	1.41	1.40	0.43

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
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	9/3/2020	2300	Head	2300	37.56	39.47	-4.85	1.68	1.66	1.22
				2350	37.45	39.38	-4.91	1.72	1.71	0.78
				2400	37.38	39.30	-4.88	1.76	1.75	0.31
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	9/12/2020	3500	Head	3500	39.82	37.93	4.98	2.90	2.91	-0.50
				3600	39.54	37.82	4.56	3.01	3.01	-0.26
				3700	39.36	37.70	4.40	3.10	3.12	-0.62
E	9/12/2020	3500	Head	3700	39.36	37.70	4.40	3.10	3.12	-0.62
				3900	38.93	37.47	3.89	3.32	3.32	0.06
				4000	38.72	37.36	3.64	3.44	3.42	0.58
E	9/15/2020	3500	Head	3500	36.51	37.93	-3.74	2.84	2.91	-2.42
				3600	36.11	37.82	-4.51	2.95	3.01	-2.15
				3700	36.06	37.70	-4.35	3.01	3.12	-3.34
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	3500	Head	3500	37.34	37.93	-1.55	2.92	2.91	0.15
				3400	37.55	38.04	-1.30	2.82	2.81	0.24
				3600	37.13	37.82	-1.81	3.02	3.01	0.04
E	9/19/2020	3500	Head	3700	36.90	37.70	-2.13	3.12	3.12	0.12
				3900	36.48	37.47	-2.65	3.35	3.32	0.82
				4000	36.29	37.36	-2.86	3.45	3.42	0.78
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	9/23/2020	3500	Head	3500	38.44	37.93	1.35	2.86	2.91	-1.87
				3400	38.68	38.04	1.67	2.75	2.81	-2.22
				3600	38.25	37.82	1.15	2.96	3.01	-1.89
E	9/23/2020	3700	Head	3700	38.04	37.70	0.90	3.06	3.12	-1.71
				3900	37.66	37.47	0.50	3.30	3.32	-0.78
				4000	37.51	37.36	0.40	3.39	3.42	-0.85

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
F	8/29/2020	5600	Head	5600	36.19	35.53	1.85	4.91	5.06	-2.95
				5500	36.39	35.65	2.08	4.77	4.96	-3.73
				5725	35.97	35.39	1.64	5.07	5.19	-2.37
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
F	9/18/2020	5250	Head	5250	34.38	35.93	-4.32	4.79	4.70	1.91
				5150	34.63	36.05	-3.93	4.68	4.60	1.83
				5350	34.32	35.82	-4.19	4.86	4.80	1.05
F	9/18/2020	5600	Head	5600	33.83	35.53	-4.80	5.10	5.06	0.77
				5500	33.94	35.65	-4.79	5.02	4.96	1.27
				5725	33.68	35.39	-4.84	5.25	5.19	1.23
F	9/22/2020	5250	Head	5250	35.19	35.93	-2.07	4.63	4.70	-1.58
				5150	35.46	36.05	-1.63	4.51	4.60	-2.02
				5350	35.04	35.82	-2.18	4.71	4.80	-1.90
F	9/22/2020	5600	Head	5600	34.63	35.53	-2.54	4.97	5.06	-1.78
				5500	34.78	35.65	-2.43	4.88	4.96	-1.67
				5725	34.43	35.39	-2.72	5.12	5.19	-1.31
F	9/23/2020	2450	Head	2450	39.78	39.20	1.48	1.78	1.80	-1.06
				2400	39.79	39.30	1.26	1.75	1.75	-0.21
				2480	39.72	39.16	1.42	1.78	1.83	-2.92

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
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	9/7/2020	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	9/23/2020	2450	Head	2450	39.92	39.20	1.84	1.84	1.80	2.11
				2400	40.11	39.30	2.07	1.80	1.75	2.87
				2480	39.71	39.16	1.40	1.86	1.83	1.67

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
H	8/25/2020	5250	Head	5250	37.45	35.93	4.22	4.51	4.70	-4.02
				5150	37.63	36.05	4.39	4.40	4.60	-4.30
				5350	37.29	35.82	4.11	4.60	4.80	-4.21
H	8/25/2020	5750	Head	5750	36.78	35.36	4.01	5.02	5.21	-3.70
				5700	36.92	35.42	4.24	4.93	5.16	-4.43
				5850	36.69	35.30	3.94	5.09	5.27	-3.36
H	8/29/2020	5250	Head	5250	37.41	35.93	4.11	4.75	4.70	1.00
				5150	37.55	36.05	4.17	4.64	4.60	0.94
				5350	37.24	35.82	3.97	4.87	4.80	1.32
H	8/29/2020	5750	Head	5750	36.66	35.36	3.67	5.30	5.21	1.58
				5700	36.73	35.42	3.70	5.23	5.16	1.36
				5850	36.52	35.30	3.46	5.41	5.27	2.62
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
H	9/22/2020	5250	Head	5250	36.97	35.93	2.89	4.63	4.70	-1.56
				5150	37.16	36.05	3.09	4.53	4.60	-1.58
				5350	36.87	35.82	2.93	4.72	4.80	-1.80
H	9/22/2020	5750	Head	5750	36.27	35.36	2.57	5.13	5.21	-1.61
				5700	36.37	35.42	2.68	5.08	5.16	-1.64
				5850	36.14	35.30	2.38	5.23	5.27	-0.80

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	9/11/2020	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

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
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	9/9/2020	2300	Head	2300	39.50	39.47	0.07	1.71	1.66	2.78
				2350	39.40	39.38	0.04	1.75	1.71	2.36
				2400	39.31	39.30	0.03	1.78	1.75	1.73
2	9/14/2020	2300	Head	2300	38.56	39.47	-2.31	1.72	1.66	3.14
				2350	38.29	39.38	-2.78	1.76	1.71	2.95
				2400	38.21	39.30	-2.77	1.81	1.75	3.22
2	9/14/2020	750	Head	750	42.17	41.96	0.50	0.89	0.89	-0.53
				660	42.39	42.42	-0.08	0.84	0.89	-4.69
				800	41.61	41.71	-0.23	0.91	0.90	1.68
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
2	9/23/2020	750	Head	750	41.13	41.96	-1.98	0.91	0.89	1.72
				660	41.60	42.42	-1.94	0.87	0.89	-1.45
				800	40.93	41.71	-1.86	0.92	0.90	2.97

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
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	9/18/2020	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
3	9/22/2020	2600	Head	2600	38.49	39.01	-1.34	1.93	1.96	-1.54
				2495	38.62	39.14	-1.34	1.85	1.85	-0.14
				2690	38.15	38.90	-1.92	1.99	2.06	-3.18

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
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	9/4/2020	1900	Head	1900	38.54	40.00	-3.65	1.44	1.40	2.57
				1850	38.65	40.00	-3.38	1.41	1.40	0.79
				1920	38.50	40.00	-3.75	1.45	1.40	3.29
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	9/17/2020	1900	Head	1900	38.84	40.00	-2.90	1.45	1.40	3.57
				1850	38.94	40.00	-2.65	1.42	1.40	1.64
				1920	38.79	40.00	-3.03	1.45	1.40	3.86
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	9/2/2020	2300	Head	2300	38.56	39.47	-2.31	1.69	1.66	1.76
				2350	38.50	39.38	-2.25	1.73	1.71	1.54
				2400	38.30	39.30	-2.54	1.76	1.75	0.71
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	8/24/2020	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	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
6	9/5/2020	1900	Head	1900	39.25	40.00	-1.88	1.41	1.40	0.57
				1850	39.50	40.00	-1.25	1.38	1.40	-1.57
				1920	39.23	40.00	-1.93	1.42	1.40	1.71

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
L1	9/13/2020	3500	Head	3500	38.04	37.93	0.29	2.79	2.91	-4.24
				3700	37.66	37.70	-0.11	2.97	3.12	-4.72
				3600	37.89	37.82	0.20	2.87	3.01	-4.64
L1	9/16/2020	3500	Head	3500	36.73	37.93	-3.16	2.86	2.91	-1.94
				3700	36.29	37.70	-3.74	3.04	3.12	-2.32
				3600	36.49	37.82	-3.51	2.96	3.01	-1.95
L1	9/21/2020	3500	Head	3500	36.52	37.93	-3.72	2.83	2.91	-2.94
				3700	36.00	37.70	-4.51	3.00	3.12	-3.60
				3600	36.18	37.82	-4.32	2.94	3.01	-2.42

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
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	9/7/2020	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	9/19/2020	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
L2	9/22/2020	2600	Head	2600	38.21	39.01	-2.05	1.95	1.96	-0.87
				2495	38.33	39.14	-2.08	1.86	1.85	0.83
				2690	38.01	38.90	-2.28	2.02	2.06	-2.16
L2	9/23/2020	2300	Head	2300	38.70	39.47	-1.96	1.70	1.66	2.18
				2350	38.57	39.38	-2.07	1.75	1.71	2.48
				2400	38.52	39.30	-1.98	1.79	1.75	2.13

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
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	9/2/2020	3500	Head	3500	39.27	37.93	3.53	2.85	2.91	-2.15
				3700	38.87	37.70	3.09	3.05	3.12	-2.06
				3600	39.04	37.82	3.24	2.95	3.01	-2.22
L3	9/18/2020	3500	Head	3500	36.35	37.93	-4.16	2.88	2.91	-1.02
				3700	35.89	37.70	-4.79	3.08	3.12	-1.16
				3600	36.06	37.82	-4.64	2.99	3.01	-0.66

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
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	9/7/2020	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	9/13/2020	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
L4	9/21/2020	1900	Head	1900	39.52	40.00	-1.20	1.44	1.40	3.07
				1850	39.62	40.00	-0.95	1.41	1.40	0.71
				1920	39.50	40.00	-1.25	1.45	1.40	3.71

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
L6	8/27/2020	750	Head	750	41.09	41.96	-2.08	0.88	0.89	-1.87
				660	41.44	42.42	-2.32	0.86	0.89	-3.39
				800	41.28	41.71	-1.02	0.90	0.90	0.54
L6	8/31/2020	750	Head	750	40.45	41.96	-3.60	0.91	0.89	2.29
				660	40.52	42.42	-4.49	0.88	0.89	-0.30
				800	40.15	41.71	-3.73	0.93	0.90	3.94
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	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	9/9/2020	Head	D3900V2 SN:1052	8/3/2021	7.190	71.90	70.10	2.57	2.610	26.10	24.30	7.41	1,2
A	9/12/2020	Head	D3500V2 SN:1011	4/17/2021	7.110	71.10	68.87	3.24	2.730	27.30	26.47	3.14	3,4
A	9/12/2020	Head	D3700V2 SN:1039	5/11/2021	6.670	66.70	67.00	-0.45	2.490	24.90	24.10	3.32	5,6
A	9/15/2020	Head	D1750V2 SN:1050	4/21/2021	3.830	38.30	35.51	7.86	2.040	20.40	18.91	7.88	
A	9/19/2020	Head	D1750V2 SN:1050	4/21/2021	3.810	38.10	35.51	7.29	2.000	20.00	18.91	5.76	
A	9/20/2020	Head	D1900V2 SN:5d140	4/21/2021	4.030	40.30	38.77	3.95	2.080	20.80	19.90	4.52	7,8
A	9/23/2020	Head	D1750V2 SN:1050	4/21/2021	3.880	38.80	35.51	9.26	2.040	20.40	18.91	7.88	9,10
A	9/24/2020	Head	D1900V2 SN:5d140	4/21/2021	3.730	37.30	38.77	-3.79	1.930	19.30	19.90	-3.02	

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	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	11,12
B	9/5/2020	Head	D3900V2 SN:1052	8/3/2021	7.060	70.60	70.10	0.71	2.660	26.60	24.30	9.47	
B	9/5/2020	Head	D3500V2 SN:1060	3/12/2021	6.450	64.50	64.89	-0.60	2.620	26.20	24.80	5.65	
B	9/5/2020	Head	D3700V2 SN:1039	5/11/2021	6.540	65.40	67.00	-2.39	2.590	25.90	24.10	7.47	
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	
B	9/12/2020	Head	D3500V2 SN:1011	4/17/2021	6.360	63.60	68.87	-7.65	2.570	25.70	26.47	-2.91	13,14
B	9/12/2020	Head	D3700V2 SN:1039	5/11/2021	6.780	67.80	67.00	1.19	2.650	26.50	24.10	9.96	
B	9/16/2020	Head	D3500V2 SN:1011	4/17/2021	6.590	65.90	68.87	-4.31	2.660	26.60	26.47	0.49	
B	9/16/2020	Head	D3700V2 SN:1039	5/11/2021	6.590	65.90	67.00	-1.64	2.600	26.00	24.10	7.88	
B	9/21/2020	Head	D3500V2 SN:1011	4/17/2021	6.640	66.40	68.87	-3.59	2.710	27.10	26.47	2.38	
B	9/21/2020	Head	D3700V2 SN:1039	5/11/2021	6.470	64.70	67.00	-3.43	2.580	25.80	24.10	7.05	15,16

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 $\pm 10\%$	
C	8/24/2020	Head	D1750V2 SN:1050	4/21/2021	3.310	33.10	35.51	-6.79	1.870	18.70	18.91	-1.11	
C	8/28/2020	Head	D1750V2 SN:1050	4/21/2021	3.820	38.20	35.51	7.58	2.010	20.10	18.91	6.29	17,18
C	9/1/2020	Head	D1750V2 SN:1050	4/21/2021	3.460	34.60	35.51	-2.56	1.820	18.20	18.91	-3.75	
C	9/6/2020	Head	D2600V2 SN:1036	4/17/2021	5.490	54.90	56.53	-2.88	2.460	24.60	25.23	-2.50	
C	9/10/2020	Head	D2600V2 SN:1036	4/17/2021	5.710	57.10	56.53	1.01	2.550	25.50	25.23	1.07	
C	9/14/2020	Head	D2600V2 SN:1036	4/17/2021	5.300	53.00	56.53	-6.24	2.400	24.00	25.23	-4.88	
C	9/18/2020	Head	D2600V2 SN:1036	4/17/2021	5.340	53.40	56.53	-5.54	2.390	23.90	25.23	-5.27	
C	9/18/2020	Head	D1900V2 SN:5d140	4/21/2021	4.000	40.00	38.77	3.17	2.070	20.70	19.90	4.02	19,20
C	9/22/2020	Head	D2600V2 SN:1036	4/17/2021	6.050	60.50	56.53	7.02	2.710	27.10	25.23	7.41	21,22
C	9/22/2020	Head	D1900V2 SN:5d140	4/21/2021	3.930	39.30	38.77	1.37	2.020	20.20	19.90	1.51	

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 %	
D	8/26/2020	Head	D2600V2 SN:1036	4/17/2021	6.040	60.40	56.53	6.85	2.670	26.70	25.23	5.83	
D	8/29/2020	Head	D2600V2 SN:1036	4/17/2021	5.660	56.60	56.53	0.12	2.530	25.30	25.23	0.28	
D	9/3/2020	Head	D2600V2 SN:1036	4/17/2021	5.680	56.80	56.53	0.48	2.610	26.10	25.23	3.45	
D	9/7/2020	Head	D2600V2 SN:1036	4/17/2021	6.170	61.70	56.53	9.15	2.750	27.50	25.23	9.00	23,24
D	9/11/2020	Head	D2600V2 SN:1036	4/17/2021	5.510	55.10	56.53	-2.53	2.450	24.50	25.23	-2.89	
D	9/15/2020	Head	D1900V2 SN:5d140	4/21/2021	3.810	38.10	38.77	-1.73	2.080	20.80	19.90	4.52	
D	9/19/2020	Head	D1900V2 SN:5d140	4/21/2021	3.860	38.60	38.77	-0.44	1.990	19.90	19.90	0.00	
D	9/23/2020	Head	D1900V2 SN:5d140	4/21/2021	3.770	37.70	38.77	-2.76	1.930	19.30	19.90	-3.02	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 %	
E	8/31/2020	Head	D2300V2 SN:1002	4/17/2021	5.040	50.40	51.75	-2.61	2.410	24.10	24.12	-0.08	27,28
E	9/3/2020	Head	D2300V2 SN:1002	4/17/2021	5.050	50.50	49.76	1.49	2.400	24.00	23.64	1.52	
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	
E	9/12/2020	Head	D3500V2 SN:1011	4/17/2021	6.360	63.60	68.87	-7.65	2.470	24.70	26.47	-6.69	
E	9/12/2020	Head	D3700V2 SN:1039	5/11/2021	6.520	65.20	67.00	-2.69	2.450	24.50	24.10	1.66	
E	9/12/2020	Head	D3900V2 SN:1052	8/3/2021	6.740	67.40	70.10	-3.85	2.410	24.10	24.30	-0.82	29,30
E	9/15/2020	Head	D3500V2 SN:1011	4/17/2021	6.230	62.30	68.87	-9.54	2.430	24.30	26.47	-8.20	31,32
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	33,34
E	9/19/2020	Head	D3500V2 SN:1011	4/17/2021	7.100	71.00	68.87	3.09	2.780	27.80	26.47	5.02	
E	9/19/2020	Head	D3700V2 SN:1039	5/11/2021	6.770	67.70	67.00	1.04	2.570	25.70	24.10	6.64	
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	9/23/2020	Head	D3500V2 SN:1011	4/17/2021	7.160	71.60	68.87	3.96	2.800	28.00	26.47	5.78	
E	9/23/2020	Head	D3700V2 SN:1039	5/11/2021	6.910	69.10	67.00	3.13	2.620	26.20	24.10	8.71	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 %	
F	8/29/2020	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/12/2021	7.640	76.40	79.80	-4.26	2.180	21.80	22.50	-3.11	
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	37,38
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	
F	9/18/2020	Head	D5GHzV2 SN:1003 (5.25 GHz)	3/12/2021	7.990	79.90	80.10	-0.25	2.370	23.70	22.90	3.49	
F	9/18/2020	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/12/2021	8.180	81.80	79.80	2.51	2.400	24.00	22.50	6.67	
F	9/22/2020	Head	D5GHzV2 SN:1003 (5.25 GHz)	3/12/2021	8.170	81.70	80.10	2.00	2.430	24.30	22.90	6.11	39,40
F	9/22/2020	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/12/2021	8.370	83.70	79.80	4.89	2.460	24.60	22.50	9.33	
F	9/23/2020	Head	D2450V2 SN:899	4/17/2021	5.380	53.80	51.75	3.96	2.520	25.20	24.12	4.48	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 %	
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	9/7/2020	Head	D2450V2 SN:748	3/12/2021	5.350	53.50	54.14	-1.18	2.430	24.30	25.24	-3.72	
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	
G	9/23/2020	Head	D2450V2 SN:899	4/17/2021	5.550	55.50	51.75	7.25	2.600	26.00	24.12	7.79	43,44

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	8/25/2020	Head	D5GHZV2 SN:1168 (5.2 GHz)	11/23/2020	7.660	76.60	79.20	-3.28	2.210	22.10	22.50	-1.78	
H	8/25/2020	Head	D5GHZV2 SN:1168 (5.8 GHz)	11/23/2020	7.580	75.80	79.60	-4.77	2.170	21.70	22.40	-3.13	
H	8/29/2020	Head	D5GHZV2 SN:1168 (5.2 GHz)	11/23/2020	7.570	75.70	79.20	-4.42	2.190	21.90	22.50	-2.67	
H	8/29/2020	Head	D5GHZV2 SN:1168 (5.8 GHz)	11/23/2020	7.210	72.10	79.60	-9.42	2.070	20.70	22.40	-7.59	45,46
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	47,48
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	
H	9/22/2020	Head	D5GHZV2 SN:1168 (5.2 GHz)	11/23/2020	7.240	72.40	79.20	-8.59	2.100	21.00	22.50	-6.67	
H	9/22/2020	Head	D5GHZV2 SN:1168 (5.8 GHz)	11/23/2020	8.300	83.00	79.60	4.27	2.400	24.00	22.40	7.14	

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	49,50
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	
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	51,52

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	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	
2	9/14/2020	Head	D2300V2 SN:1058	10/14/2020	5.190	51.90	48.70	6.57	2.470	24.70	23.70	4.22	53,54
2	9/14/2020	Head	D750V3 SN:1071	11/20/2020	0.832	8.32	8.52	-2.35	0.543	5.43	5.56	-2.34	
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	55,56
2	9/23/2020	Head	D750V3 SN:1071	11/20/2020	0.828	8.28	8.52	-2.82	0.539	5.39	5.56	-3.06	57,58

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	8/31/2020	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	
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	59,60
3	9/22/2020	Head	D2600V2 SN:1006	10/14/2020	5.100	51.00	55.70	-8.44	2.310	23.10	25.10	-7.97	

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	8/31/2020	Head	D1900V2 SN:5d163	10/14/2020	4.150	41.50	40.30	2.98	2.140	21.40	21.10	1.42	
4	9/4/2020	Head	D1900V2 SN:5d163	10/14/2020	4.370	43.70	40.30	8.44	2.260	22.60	21.10	7.11	61,62
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	9/17/2020	Head	D1900V2 SN:5d163	10/14/2020	4.030	40.30	40.30	0.00	2.090	20.90	21.10	-0.95	
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	9/2/2020	Head	D2300V2 SN:1058	10/14/2020	5.150	51.50	48.70	5.75	2.440	24.40	23.70	2.95	63,64
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	65,66

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	8/24/2020	Head	D750V3 SN:1071	11/20/2020	0.804	8.04	8.52	-5.63	0.526	5.26	5.56	-5.40	67,68
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	
6	9/5/2020	Head	D1900V2 SN:5d043	11/20/2020	4.360	43.60	40.40	7.92	2.260	22.60	21.10	7.11	69,70

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	9/13/2020	Head	D3500V2 SN:1060	3/12/2021	6.980	69.80	64.89	7.57	2.720	27.20	24.80	9.68	
L1	9/13/2020	Head	D3700V2 SN:1039	5/11/2021	6.640	66.40	67.00	-0.90	2.450	24.50	24.10	1.66	71,72
L1	9/16/2020	Head	D3500V2 SN:1060	3/12/2021	6.050	60.50	64.89	-6.77	2.360	23.60	24.80	-4.84	
L1	9/16/2020	Head	D3700V2 SN:1039	5/11/2021	6.990	69.90	67.00	4.33	2.620	26.20	24.10	8.71	
L1	9/21/2020	Head	D3700V2 SN:1039	5/11/2021	6.670	66.70	67.00	-0.45	2.500	25.00	24.10	3.73	
L1	9/21/2020	Head	D3500V2 SN:1060	3/12/2021	5.960	59.60	64.89	-8.15	2.330	23.30	24.80	-6.05	73,74

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	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	75,76
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	9/19/2020	Head	D2600V2 SN:1006	10/14/2020	5.790	57.90	55.70	3.95	2.590	25.90	25.10	3.19	
L2	9/22/2020	Head	D2600V2 SN:1006	10/14/2020	5.380	53.80	55.70	-3.41	2.410	24.10	25.10	-3.98	
L2	9/23/2020	Head	D2300V2 SN:1058	10/14/2020	4.730	47.30	48.70	-2.87	2.260	22.60	23.70	-4.64	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 %	
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	79,80
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	9/18/2020	Head	D3500V2 SN:1060	3/12/2021	6.110	61.10	64.89	-5.84	2.400	24.00	24.80	-3.23	
L3	9/18/2020	Head	D3700V2 SN:1039	5/11/2021	7.110	71.10	67.00	6.12	2.650	26.50	24.10	9.96	81,82

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	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	83,84
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	85,86
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	87,88
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	
L4	9/21/2020	Head	D1900V2 SN:5d163	10/14/2020	4.050	40.50	40.30	0.50	2.090	20.90	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 %	
L6	8/27/2020	Head	D750V3 SN:1071	11/20/2020	0.817	8.17	8.52	-4.11	0.532	5.32	5.56	-4.32	
L6	8/31/2020	Head	D750V3 SN:1071	11/20/2020	0.824	8.24	8.52	-3.29	0.539	5.39	5.56	-3.06	
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	89,90
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	91,92

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	31.50	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	26.75	29.50	28.50	31.00	30.50	29.00	29.00
	GPRS 2 slots	31.00	23.75	27.75	25.50	30.00	27.50	26.75	28.00
	EGPRS 1 slot	27.00	26.75	24.50	24.50	26.00	26.00	24.00	24.00
	EGPRS 2 slots	26.00	23.75	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	32.57	23.54	33.50	24.47	32.57	23.54	33.50	24.47
			190	836.6	33.14	24.11			33.14	24.11		
			251	848.8	32.66	23.63			32.66	23.63		
		2	128	824.2	32.01	25.99	32.50	26.48	31.18	25.16	31.50	25.48
			190	836.6	31.71	25.69			31.25	25.23		
			251	848.8	32.12	26.10			30.73	24.71		
EDGE (8PSK)	MCS5	1	128	824.2	27.51	18.48	28.00	18.97	27.51	18.48	28.00	18.97
			190	836.6	27.34	18.31			27.34	18.31		
			251	848.8	27.04	18.01			27.04	18.01		
		2	128	824.2	26.75	20.73	27.00	20.98	26.75	20.73	27.00	20.98
			190	836.6	26.05	20.03			26.05	20.03		
			251	848.8	26.81	20.79			26.81	20.79		

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	31.83	22.80	32.00	22.97	31.83	22.80	32.00	22.97
			190	836.6	31.23	22.20			31.23	22.20		
			251	848.8	31.33	22.30			31.33	22.30		
		2	128	824.2	30.70	24.68	31.00	24.98	30.70	24.68	31.00	24.98
			190	836.6	30.11	24.09			30.11	24.09		
			251	848.8	30.11	24.09			30.11	24.09		
EDGE (8PSK)	MCS5	1	128	824.2	26.11	17.08	26.50	17.47	26.11	17.08	26.50	17.47
			190	836.6	25.67	16.64			25.67	16.64		
			251	848.8	25.90	16.87			25.90	16.87		
		2	128	824.2	25.12	19.10	25.50	19.48	25.12	19.10	25.50	19.48
			190	836.6	24.62	18.60			24.62	18.60		
			251	848.8	24.57	18.55			24.57	18.55		

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	31.32	22.29	32.00	22.97	26.08	17.05	26.75	17.72
			661	1880.0	31.93	22.90			25.82	16.79		
			810	1909.8	31.35	22.32			26.30	17.27		
		2	512	1850.2	30.31	24.29	31.00	24.98	23.36	17.34	23.75	17.73
			661	1880.0	30.83	24.81			23.36	17.34		
			810	1909.8	30.09	24.07			23.31	17.29		
EDGE (8PSK)	MCS5	1	512	1850.2	26.76	17.73	27.00	17.97	26.03	17.00	26.75	17.72
			661	1880.0	26.45	17.42			26.20	17.17		
			810	1909.8	26.26	17.23			26.18	17.15		
		2	512	1850.2	25.66	19.64	26.00	19.98	23.10	17.08	23.75	17.73
			661	1880.0	25.19	19.17			23.20	17.18		
			810	1909.8	25.56	19.54			23.30	17.28		

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	28.55	19.52	29.50	20.47	27.92	18.89	28.50	19.47
			661	1880.0	29.21	20.18			28.41	19.38		
			810	1909.8	29.43	20.40			28.09	19.06		
		2	512	1850.2	27.25	21.23	27.75	21.73	25.00	18.98	25.50	19.48
			661	1880.0	27.25	21.23			25.00	18.98		
			810	1909.8	27.25	21.23			25.25	19.23		
EDGE (8PSK)	MCS5	1	512	1850.2	23.81	14.78	24.50	15.47	23.81	14.78	24.50	15.47
			661	1880.0	24.28	15.25			24.28	15.25		
			810	1909.8	24.28	15.25			24.28	15.25		
		2	512	1850.2	23.48	17.46	23.50	17.48	23.48	17.46	23.50	17.48
			661	1880.0	23.03	17.01			23.03	17.01		
			810	1909.8	23.10	17.08			23.10	17.08		

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	30.99	21.96	31.00	21.97	29.66	20.63	30.50	21.47
			661	1880.0	30.83	21.80			30.00	20.97		
			810	1909.8	30.34	21.31			29.56	20.53		
		2	512	1850.2	29.33	23.31	30.00	23.98	27.00	20.98	27.50	21.48
			661	1880.0	29.43	23.41			27.00	20.98		
			810	1909.8	29.40	23.38			27.00	20.98		
EDGE (8PSK)	MCS5	1	512	1850.2	25.84	16.81	26.00	16.97	25.84	16.81	26.00	16.97
			661	1880.0	25.37	16.34			25.37	16.34		
			810	1909.8	25.22	16.19			25.22	16.19		
		2	512	1850.2	24.48	18.46	25.00	18.98	24.48	18.46	25.00	18.98
			661	1880.0	24.27	18.25			24.27	18.25		
			810	1909.8	24.74	18.72			24.74	18.72		

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	28.30	19.27	29.00	19.97	28.30	19.27	29.00	19.97
			661	1880.0	28.16	19.13			28.16	19.13		
			810	1909.8	28.38	19.35			28.38	19.35		
		2	512	1850.2	26.50	20.48	26.75	20.73	27.61	21.59	28.00	21.98
			661	1880.0	26.22	20.20			27.60	21.58		
			810	1909.8	26.04	20.02			27.52	21.50		
EDGE (8PSK)	MCS5	1	512	1850.2	23.56	14.53	24.00	14.97	23.56	14.53	24.00	14.97
			661	1880.0	23.78	14.75			23.78	14.75		
			810	1909.8	23.67	14.64			23.67	14.64		
		2	512	1850.2	22.97	16.95	23.00	16.98	22.97	16.95	23.00	16.98
			661	1880.0	22.59	16.57			22.59	16.57		
			810	1909.8	22.73	16.71			22.73	16.71		

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	17.50	21.50	19.25	24.70	21.00	20.25	22.50
	HSDPA	25.70	17.50	21.50	19.25	24.70	21.00	20.25	22.50
	HSUPA	25.70	17.50	21.50	19.25	24.70	21.00	20.25	22.50
	DC-HSDPA	25.70	17.50	21.50	19.25	24.70	21.00	20.25	22.50
	HSPA+	25.70	17.50	21.50	19.25	24.70	21.00	20.25	22.50
W-CDMA Band 4	R99	25.70	18.50	20.00	18.25	24.70	20.75	20.00	21.25
	HSDPA	25.70	18.50	20.00	18.25	24.70	20.75	20.00	21.25
	HSUPA	25.70	18.50	20.00	18.25	24.70	20.75	20.00	21.25
	DC-HSDPA	25.70	18.50	20.00	18.25	24.70	20.75	20.00	21.25
	HSPA+	25.70	18.50	20.00	18.25	24.70	20.75	20.00	21.25
W-CDMA Band 5	R99	25.70	25.25	24.50	24.50				
	HSDPA	25.70	25.25	24.50	24.50				
	HSUPA	25.70	25.25	24.50	24.50				
	DC-HSDPA	25.70	25.25	24.50	24.50				
	HSPA+	25.70	25.25	24.50	24.50				

W-CDMA Band 2 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)	9262	1852.4	25.19	N/A	25.70	16.76	N/A	17.50
		9400	1880.0	25.17			16.85		
		9538	1907.6	25.16			16.77		
HSDPA	Subtest 1	9262	1852.4	24.81	0.00	25.70	16.66	0.00	17.50
		9400	1880.0	25.03			16.65		
		9538	1907.6	24.91			16.69		
	Subtest 2	9262	1852.4	25.07	0.00	25.70	16.77	0.00	17.50
		9400	1880.0	24.94			16.70		
		9538	1907.6	25.02			16.70		
	Subtest 3	9262	1852.4	24.67	0.50	25.20	16.29	0.50	17.00
		9400	1880.0	24.51			16.26		
		9538	1907.6	24.54			16.39		
	Subtest 4	9262	1852.4	24.57	0.50	25.20	16.45	0.50	17.00
		9400	1880.0	24.61			16.29		
		9538	1907.6	24.69			16.29		
HSUPA	Subtest 1	9262	1852.4	24.84	0.00	25.70	16.79	0.00	17.50
		9400	1880.0	24.86			16.77		
		9538	1907.6	25.02			16.86		
	Subtest 2	9262	1852.4	23.07	2.00	23.70	15.07	2.00	15.50
		9400	1880.0	22.99			15.08		
		9538	1907.6	23.02			15.06		
	Subtest 3	9262	1852.4	24.05	1.00	24.70	15.57	1.00	16.50
		9400	1880.0	24.16			15.50		
		9538	1907.6	24.01			15.50		
	Subtest 4	9262	1852.4	23.19	2.00	23.70	15.12	2.00	15.50
		9400	1880.0	23.05			15.11		
		9538	1907.6	22.99			14.92		
	Subtest 5	9262	1852.4	24.87	0.00	25.70	16.75	0.00	17.50
		9400	1880.0	25.00			16.84		
		9538	1907.6	24.93			16.93		
DC-HSDPA	Subtest 1	9262	1852.4	24.99	0.00	25.70	16.50	0.00	17.50
		9400	1880.0	24.80			16.50		
		9538	1907.6	24.80			16.50		
	Subtest 2	9262	1852.4	24.97	0.00	25.70	16.74	0.00	17.50
		9400	1880.0	24.90			16.86		
		9538	1907.6	25.06			16.88		
	Subtest 3	9262	1852.4	24.52	0.50	25.20	16.37	0.50	17.00
		9400	1880.0	24.66			16.39		
		9538	1907.6	24.54			16.27		
	Subtest 4	9262	1852.4	24.20	0.50	25.20	16.45	0.50	17.00
		9400	1880.0	24.20			16.32		
		9538	1907.6	24.20			16.29		
HSPA+	Subtest 1	9262	1852.4	22.74	2.50	23.20	14.56	2.50	15.00
		9400	1880.0	22.73			14.77		
		9538	1907.6	22.83			14.61		

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	21.23	N/A	21.50	18.92	N/A	19.25
		9400	1880.0	21.40			18.81		
		9538	1907.6	21.16			18.82		
HSDPA	Subtest 1	9262	1852.4	21.15	0.00	21.50	18.84	0.00	19.25
		9400	1880.0	21.04			18.77		
		9538	1907.6	21.06			18.77		
	Subtest 2	9262	1852.4	21.10	0.00	21.50	18.80	0.00	19.25
		9400	1880.0	21.02			18.70		
		9538	1907.6	21.03			18.71		
	Subtest 3	9262	1852.4	20.62	0.50	21.00	18.32	0.50	18.75
		9400	1880.0	20.52			18.20		
		9538	1907.6	20.53			18.22		
	Subtest 4	9262	1852.4	20.62	0.50	21.00	18.31	0.50	18.75
		9400	1880.0	20.49			18.20		
		9538	1907.6	20.54			18.23		
HSUPA	Subtest 1	9262	1852.4	21.09	0.00	21.50	18.80	0.00	19.25
		9400	1880.0	20.99			18.70		
		9538	1907.6	21.05			18.72		
	Subtest 2	9262	1852.4	19.13	2.00	19.50	16.84	2.00	17.25
		9400	1880.0	19.02			16.72		
		9538	1907.6	19.01			16.71		
	Subtest 3	9262	1852.4	20.10	1.00	20.50	17.81	1.00	18.25
		9400	1880.0	20.01			17.71		
		9538	1907.6	20.01			17.69		
	Subtest 4	9262	1852.4	19.12	2.00	19.50	16.81	2.00	17.25
		9400	1880.0	19.00			16.72		
		9538	1907.6	19.05			16.73		
	Subtest 5	9262	1852.4	20.69	0.00	21.50	18.39	0.00	19.25
		9400	1880.0	20.60			18.29		
		9538	1907.6	20.59			18.29		
DC-HSDPA	Subtest 1	9262	1852.4	21.18	0.00	21.50	18.47	0.00	19.25
		9400	1880.0	21.08			18.37		
		9538	1907.6	21.06			18.36		
	Subtest 2	9262	1852.4	21.12	0.00	21.50	18.81	0.00	19.25
		9400	1880.0	21.02			18.70		
		9538	1907.6	21.03			18.75		
	Subtest 3	9262	1852.4	20.65	0.50	21.00	18.35	0.50	18.75
		9400	1880.0	20.51			18.22		
		9538	1907.6	20.55			18.25		
	Subtest 4	9262	1852.4	20.64	0.50	21.00	18.33	0.50	18.75
		9400	1880.0	20.53			18.21		
		9538	1907.6	20.56			18.22		
HSPA+	Subtest 1	9262	1852.4	18.50	2.50	19.00	16.40	2.50	16.75
		9400	1880.0	18.26			16.52		
		9538	1907.6	18.65			16.55		

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	24.50	N/A	24.70	20.69	N/A	21.00
		9400	1880.0	24.55			20.85		
		9538	1907.6	24.43			20.67		
HSDPA	Subtest 1	9262	1852.4	24.27	0.00	24.70	20.60	0.00	21.00
		9400	1880.0	24.24			20.49		
		9538	1907.6	24.31			20.60		
	Subtest 2	9262	1852.4	24.34	0.00	24.70	20.73	0.00	21.00
		9400	1880.0	24.35			20.64		
		9538	1907.6	24.10			20.56		
	Subtest 3	9262	1852.4	23.55	0.50	24.20	20.16	0.50	20.50
		9400	1880.0	23.79			20.03		
		9538	1907.6	23.76			20.04		
	Subtest 4	9262	1852.4	23.67	0.50	24.20	20.02	0.50	20.50
		9400	1880.0	23.83			20.17		
		9538	1907.6	23.70			20.01		
HSUPA	Subtest 1	9262	1852.4	24.20	0.00	24.70	20.54	0.00	21.00
		9400	1880.0	24.10			20.51		
		9538	1907.6	24.12			20.64		
	Subtest 2	9262	1852.4	22.27	2.00	22.70	18.65	2.00	19.00
		9400	1880.0	22.41			18.60		
		9538	1907.6	22.40			18.65		
	Subtest 3	9262	1852.4	23.10	1.00	23.70	19.47	1.00	20.00
		9400	1880.0	23.24			19.70		
		9538	1907.6	23.29			19.60		
	Subtest 4	9262	1852.4	22.19	2.00	22.70	18.65	2.00	19.00
		9400	1880.0	22.16			18.73		
		9538	1907.6	22.31			18.56		
	Subtest 5	9262	1852.4	24.11	0.00	24.70	20.48	0.00	21.00
		9400	1880.0	24.28			20.65		
		9538	1907.6	24.26			20.64		
DC-HSDPA	Subtest 1	9262	1852.4	24.36	0.00	24.70	20.56	0.00	21.00
		9400	1880.0	24.38			20.55		
		9538	1907.6	24.40			20.65		
	Subtest 2	9262	1852.4	24.39	0.00	24.70	20.72	0.00	21.00
		9400	1880.0	24.39			20.57		
		9538	1907.6	24.13			20.71		
	Subtest 3	9262	1852.4	23.68	0.50	24.20	19.96	0.50	20.50
		9400	1880.0	23.75			20.23		
		9538	1907.6	23.79			20.07		
	Subtest 4	9262	1852.4	23.82	0.50	24.20	20.00	0.50	20.50
		9400	1880.0	23.64			20.06		
		9538	1907.6	23.72			20.03		
HSPA+	Subtest 1	9262	1852.4	22.18	2.50	22.20	18.21	2.50	18.50
		9400	1880.0	22.09			18.19		
		9538	1907.6	22.12			18.10		

W-CDMA Band 2 Measured Results (ANT4)

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	19.98	N/A	20.25	22.23	N/A	22.50
		9400	1880.0	20.16			22.41		
		9538	1907.6	20.10			22.35		
HSDPA	Subtest 1	9262	1852.4	20.11	0.00	20.25	22.06	0.00	22.50
		9400	1880.0	19.99			21.94		
		9538	1907.6	20.14			22.09		
	Subtest 2	9262	1852.4	20.16	0.00	20.25	22.11	0.00	22.50
		9400	1880.0	20.25			22.20		
		9538	1907.6	20.16			22.11		
	Subtest 3	9262	1852.4	19.53	0.50	19.75	21.48	0.50	22.00
		9400	1880.0	19.60			21.55		
		9538	1907.6	19.65			21.60		
	Subtest 4	9262	1852.4	19.51	0.50	19.75	21.46	0.50	22.00
		9400	1880.0	19.74			21.69		
		9538	1907.6	19.60			21.55		
HSUPA	Subtest 1	9262	1852.4	20.03	0.00	20.25	21.98	0.00	22.50
		9400	1880.0	20.23			22.18		
		9538	1907.6	20.17			22.12		
	Subtest 2	9262	1852.4	18.25	2.00	18.25	20.20	2.00	20.50
		9400	1880.0	18.04			19.99		
		9538	1907.6	18.15			20.10		
	Subtest 3	9262	1852.4	19.17	1.00	19.25	21.12	1.00	21.50
		9400	1880.0	19.10			21.05		
		9538	1907.6	19.00			20.95		
	Subtest 4	9262	1852.4	18.05	2.00	18.25	20.00	2.00	20.50
		9400	1880.0	17.99			19.94		
		9538	1907.6	18.13			20.08		
	Subtest 5	9262	1852.4	20.12	0.00	20.25	22.07	0.00	22.50
		9400	1880.0	20.11			22.06		
		9538	1907.6	20.01			21.96		
DC-HSDPA	Subtest 1	9262	1852.4	20.23	0.00	20.25	22.18	0.00	22.50
		9400	1880.0	20.23			22.18		
		9538	1907.6	20.04			21.99		
	Subtest 2	9262	1852.4	20.10	0.00	20.25	22.05	0.00	22.50
		9400	1880.0	20.07			22.02		
		9538	1907.6	20.16			22.11		
	Subtest 3	9262	1852.4	19.68	0.50	19.75	21.63	0.50	22.00
		9400	1880.0	19.66			21.61		
		9538	1907.6	19.58			21.53		
	Subtest 4	9262	1852.4	19.64	0.50	19.75	21.59	0.50	22.00
		9400	1880.0	19.50			21.45		
		9538	1907.6	19.53			21.48		
HSPA+	Subtest 1	9262	1852.4	17.46	2.50	17.75	19.71	2.50	20.00
		9400	1880.0	17.57			19.82		
		9538	1907.6	17.48			19.73		

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	25.30	N/A	25.70	17.86	N/A	18.50
		1413	1732.6	25.37			17.85		
		1513	1752.6	25.36			17.87		
HSDPA	Subtest 1	1312	1712.4	25.06	0.00	25.70	17.66	0.00	18.50
		1413	1732.6	25.28			17.65		
		1513	1752.6	25.16			17.69		
	Subtest 2	1312	1712.4	25.32	0.00	25.70	17.77	0.00	18.50
		1413	1732.6	25.19			17.70		
		1513	1752.6	25.27			17.70		
	Subtest 3	1312	1712.4	24.92	0.50	25.20	17.29	0.50	18.00
		1413	1732.6	24.76			17.26		
		1513	1752.6	24.79			17.39		
	Subtest 4	1312	1712.4	24.82	0.50	25.20	17.45	0.50	18.00
		1413	1732.6	24.86			17.29		
		1513	1752.6	24.94			17.29		
HSUPA	Subtest 1	1312	1712.4	25.09	0.00	25.70	17.79	0.00	18.50
		1413	1732.6	25.11			17.77		
		1513	1752.6	25.27			17.86		
	Subtest 2	1312	1712.4	23.32	2.00	23.70	16.07	2.00	16.50
		1413	1732.6	23.24			16.08		
		1513	1752.6	23.27			16.06		
	Subtest 3	1312	1712.4	24.30	1.00	24.70	16.57	1.00	17.50
		1413	1732.6	24.41			16.50		
		1513	1752.6	24.26			16.50		
	Subtest 4	1312	1712.4	23.44	2.00	23.70	16.12	2.00	16.50
		1413	1732.6	23.30			16.11		
		1513	1752.6	23.24			15.92		
	Subtest 5	1312	1712.4	25.12	0.00	25.70	17.75	0.00	18.50
		1413	1732.6	25.25			17.84		
		1513	1752.6	25.18			17.93		
DC-HSDPA	Subtest 1	1312	1712.4	25.24	0.00	25.70	17.50	0.00	18.50
		1413	1732.6	25.05			17.50		
		1513	1752.6	25.05			17.50		
	Subtest 2	1312	1712.4	25.22	0.00	25.70	17.74	0.00	18.50
		1413	1732.6	25.15			17.86		
		1513	1752.6	25.31			17.88		
	Subtest 3	1312	1712.4	24.77	0.50	25.20	17.37	0.50	18.00
		1413	1732.6	24.91			17.39		
		1513	1752.6	24.79			17.27		
	Subtest 4	1312	1712.4	24.42	0.50	25.20	17.45	0.50	18.00
		1413	1732.6	24.20			17.32		
		1513	1752.6	24.26			17.29		
HSPA+	Subtest 1	1312	1712.4	22.94	2.50	23.20	15.56	2.50	16.00
		1413	1732.6	22.93			15.77		
		1513	1752.6	23.03			15.61		

W-CDMA Band 4 Measured Results (ANT2)

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)	1312	1712.4	19.70	N/A	20.00	18.05	N/A	18.25
		1413	1732.6	19.47			18.01		
		1513	1752.6	19.50			18.20		
HSDPA	Subtest 1	1312	1712.4	19.41	0.00	20.00	17.88	0.00	18.25
		1413	1732.6	19.36			17.80		
		1513	1752.6	19.39			17.84		
	Subtest 2	1312	1712.4	19.43	0.00	20.00	17.86	0.00	18.25
		1413	1732.6	19.34			17.81		
		1513	1752.6	19.39			17.83		
	Subtest 3	1312	1712.4	18.82	0.50	19.50	17.37	0.50	17.75
		1413	1732.6	18.85			17.29		
		1513	1752.6	18.86			17.33		
	Subtest 4	1312	1712.4	18.92	0.50	19.50	17.38	0.50	17.75
		1413	1732.6	18.86			17.29		
		1513	1752.6	18.86			17.31		
HSUPA	Subtest 1	1312	1712.4	19.42	0.00	20.00	17.88	0.00	18.25
		1413	1732.6	19.38			17.83		
		1513	1752.6	19.41			17.83		
	Subtest 2	1312	1712.4	17.43	2.00	18.00	15.89	2.00	16.25
		1413	1732.6	17.35			15.84		
		1513	1752.6	17.42			15.87		
	Subtest 3	1312	1712.4	18.41	1.00	19.00	16.90	1.00	17.25
		1413	1732.6	18.39			16.83		
		1513	1752.6	18.41			16.84		
	Subtest 4	1312	1712.4	17.43	2.00	18.00	15.89	2.00	16.25
		1413	1732.6	17.33			15.83		
		1513	1752.6	17.39			15.85		
	Subtest 5	1312	1712.4	19.00	0.00	20.00	17.42	0.00	18.25
		1413	1732.6	19.00			17.38		
		1513	1752.6	19.00			17.39		
DC-HSDPA	Subtest 1	1312	1712.4	19.44	0.00	20.00	17.90	0.00	18.25
		1413	1732.6	19.34			17.83		
		1513	1752.6	19.37			17.85		
	Subtest 2	1312	1712.4	19.42	0.00	20.00	17.92	0.00	18.25
		1413	1732.6	19.35			17.80		
		1513	1752.6	19.37			17.86		
	Subtest 3	1312	1712.4	18.95	0.50	19.50	17.38	0.50	17.75
		1413	1732.6	18.83			17.29		
		1513	1752.6	18.86			17.32		
	Subtest 4	1312	1712.4	18.88	0.50	19.50	17.40	0.50	17.75
		1413	1732.6	18.85			17.34		
		1513	1752.6	18.87			17.34		
HSPA+	Subtest 1	1312	1712.4	17.44	2.50	17.50	15.60	2.50	15.75
		1413	1732.6	17.35			15.35		
		1513	1752.6	17.38			15.54		

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	24.50	N/A	24.70	20.48	N/A	20.75
		1413	1732.6	24.50			20.33		
		1513	1752.6	24.38			20.46		
HSDPA	Subtest 1	1312	1712.4	24.22	0.00	24.70	20.39	0.00	20.75
		1413	1732.6	24.19			20.28		
		1513	1752.6	24.26			20.39		
	Subtest 2	1312	1712.4	24.29	0.00	24.70	20.42	0.00	20.75
		1413	1732.6	24.30			20.43		
		1513	1752.6	24.05			20.35		
	Subtest 3	1312	1712.4	23.50	0.50	24.20	19.95	0.50	20.25
		1413	1732.6	23.74			19.82		
		1513	1752.6	23.71			19.83		
	Subtest 4	1312	1712.4	23.62	0.50	24.20	19.81	0.50	20.25
		1413	1732.6	23.78			19.96		
		1513	1752.6	23.65			19.80		
HSUPA	Subtest 1	1312	1712.4	24.15	0.00	24.70	20.33	0.00	20.75
		1413	1732.6	24.05			20.30		
		1513	1752.6	24.07			20.43		
	Subtest 2	1312	1712.4	22.22	2.00	22.70	18.44	2.00	18.75
		1413	1732.6	22.36			18.39		
		1513	1752.6	22.35			18.44		
	Subtest 3	1312	1712.4	23.05	1.00	23.70	19.26	1.00	19.75
		1413	1732.6	23.19			19.49		
		1513	1752.6	23.24			19.39		
	Subtest 4	1312	1712.4	22.14	2.00	22.70	18.44	2.00	18.75
		1413	1732.6	22.11			18.42		
		1513	1752.6	22.26			18.35		
	Subtest 5	1312	1712.4	24.06	0.00	24.70	20.27	0.00	20.75
		1413	1732.6	24.23			20.44		
		1513	1752.6	24.21			20.43		
DC-HSDPA	Subtest 1	1312	1712.4	24.31	0.00	24.70	20.35	0.00	20.75
		1413	1732.6	24.33			20.34		
		1513	1752.6	24.35			20.44		
	Subtest 2	1312	1712.4	24.34	0.00	24.70	20.41	0.00	20.75
		1413	1732.6	24.34			20.36		
		1513	1752.6	24.08			20.40		
	Subtest 3	1312	1712.4	23.63	0.50	24.20	19.75	0.50	20.25
		1413	1732.6	23.70			19.92		
		1513	1752.6	23.74			19.86		
	Subtest 4	1312	1712.4	23.77	0.50	24.20	19.79	0.50	20.25
		1413	1732.6	23.59			19.85		
		1513	1752.6	23.67			19.82		
HSPA+	Subtest 1	1312	1712.4	22.13	2.50	22.20	18.25	2.50	18.25
		1413	1732.6	22.04			18.23		
		1513	1752.6	22.07			18.14		

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	19.77	N/A	20.00	21.02	N/A	21.25
		1413	1732.6	19.58			20.83		
		1513	1752.6	19.59			20.84		
HSDPA	Subtest 1	1312	1712.4	19.46	0.00	20.00	20.71	0.00	21.25
		1413	1732.6	19.46			20.71		
		1513	1752.6	19.67			20.92		
	Subtest 2	1312	1712.4	19.49	0.00	20.00	20.74	0.00	21.25
		1413	1732.6	19.46			20.71		
		1513	1752.6	19.43			20.68		
	Subtest 3	1312	1712.4	18.99	0.50	19.50	20.24	0.50	20.75
		1413	1732.6	19.13			20.38		
		1513	1752.6	18.93			20.18		
	Subtest 4	1312	1712.4	18.92	0.50	19.50	20.17	0.50	20.75
		1413	1732.6	19.19			20.44		
		1513	1752.6	18.93			20.18		
HSUPA	Subtest 1	1312	1712.4	19.66	0.00	20.00	20.91	0.00	21.25
		1413	1732.6	19.69			20.94		
		1513	1752.6	19.66			20.91		
	Subtest 2	1312	1712.4	17.46	2.00	18.00	18.71	2.00	19.25
		1413	1732.6	17.42			18.67		
		1513	1752.6	17.56			18.81		
	Subtest 3	1312	1712.4	18.46	1.00	19.00	19.71	1.00	20.25
		1413	1732.6	18.40			19.65		
		1513	1752.6	18.54			19.79		
	Subtest 4	1312	1712.4	17.55	2.00	18.00	18.80	2.00	19.25
		1413	1732.6	17.58			18.83		
		1513	1752.6	17.61			18.86		
	Subtest 5	1312	1712.4	19.67	0.00	20.00	20.92	0.00	21.25
		1413	1732.6	19.51			20.76		
		1513	1752.6	19.49			20.74		
DC-HSDPA	Subtest 1	1312	1712.4	19.54	0.00	20.00	20.79	0.00	21.25
		1413	1732.6	19.49			20.74		
		1513	1752.6	19.64			20.89		
	Subtest 2	1312	1712.4	19.58	0.00	20.00	20.83	0.00	21.25
		1413	1732.6	19.67			20.92		
		1513	1752.6	19.56			20.81		
	Subtest 3	1312	1712.4	19.16	0.50	19.50	20.41	0.50	20.75
		1413	1732.6	19.02			20.27		
		1513	1752.6	19.03			20.28		
	Subtest 4	1312	1712.4	19.20	0.50	19.50	20.45	0.50	20.75
		1413	1732.6	19.01			20.26		
		1513	1752.6	19.06			20.31		
HSPA+	Subtest 1	1312	1712.4	17.49	2.50	17.50	18.74	2.50	18.75
		1413	1732.6	17.48			18.73		
		1513	1752.6	17.34			18.59		

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	25.32	N/A	25.70	24.92	N/A	25.25
		4183	836.6	25.40			25.00		
		4233	846.6	25.28			24.88		
HSDPA	Subtest 1	4132	826.4	25.22	0.00	25.70	24.82	0.00	25.25
		4183	836.6	25.28			24.88		
		4233	846.6	25.17			24.77		
	Subtest 2	4132	826.4	25.23	0.00	25.70	24.83	0.00	25.25
		4183	836.6	25.30			24.90		
		4233	846.6	25.19			24.79		
	Subtest 3	4132	826.4	24.70	0.50	25.20	24.50	0.50	24.75
		4183	836.6	24.73			24.53		
		4233	846.6	24.67			24.47		
	Subtest 4	4132	826.4	24.70	0.50	25.20	24.50	0.50	24.75
		4183	836.6	24.74			24.54		
		4233	846.6	24.66			24.46		
HSUPA	Subtest 1	4132	826.4	25.21	0.00	25.70	24.81	0.00	25.25
		4183	836.6	25.27			24.87		
		4233	846.6	25.14			24.94		
	Subtest 2	4132	826.4	23.24	2.00	23.70	22.54	2.00	23.25
		4183	836.6	23.31			22.61		
		4233	846.6	23.18			22.48		
	Subtest 3	4132	826.4	24.12	1.00	24.70	23.42	1.00	24.25
		4183	836.6	24.27			24.07		
		4233	846.6	24.14			23.44		
	Subtest 4	4132	826.4	23.21	2.00	23.70	22.51	2.00	23.25
		4183	836.6	23.29			22.59		
		4233	846.6	23.16			22.46		
	Subtest 5	4132	826.4	24.78	0.00	25.70	24.58	0.00	25.25
		4183	836.6	24.83			24.63		
		4233	846.6	24.75			24.55		
DC-HSDPA	Subtest 1	4132	826.4	25.23	0.00	25.70	24.83	0.00	25.25
		4183	836.6	25.30			24.90		
		4233	846.6	25.18			24.78		
	Subtest 2	4132	826.4	25.25	0.00	25.70	24.85	0.00	25.25
		4183	836.6	25.29			24.89		
		4233	846.6	25.20			24.80		
	Subtest 3	4132	826.4	24.71	0.50	25.20	24.51	0.50	24.75
		4183	836.6	24.79			24.59		
		4233	846.6	24.67			24.47		
	Subtest 4	4132	826.4	24.71	0.50	25.20	24.51	0.50	24.75
		4183	836.6	24.79			24.59		
		4233	846.6	24.67			24.47		
HSPA+	Subtest 1	4132	826.4	25.03	2.50	25.70	24.93	2.50	25.25
		4183	836.6	25.10			25.00		
		4233	846.6	24.98			24.88		

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	24.42	N/A	24.50	24.42	N/A	24.50
		4183	836.6	24.32			24.32		
		4233	846.6	24.36			24.36		
HSDPA	Subtest 1	4132	826.4	24.16	0.00	24.50	24.16	0.00	24.50
		4183	836.6	24.06			24.06		
		4233	846.6	24.12			24.12		
	Subtest 2	4132	826.4	24.16	0.00	24.50	24.16	0.00	24.50
		4183	836.6	24.05			24.05		
		4233	846.6	24.09			24.09		
	Subtest 3	4132	826.4	23.66	0.50	24.00	23.66	0.50	24.00
		4183	836.6	23.56			23.56		
		4233	846.6	23.59			23.59		
	Subtest 4	4132	826.4	23.65	0.50	24.00	23.65	0.50	24.00
		4183	836.6	23.55			23.55		
		4233	846.6	23.58			23.58		
HSUPA	Subtest 1	4132	826.4	24.14	0.00	24.50	24.14	0.00	24.50
		4183	836.6	24.07			24.07		
		4233	846.6	24.10			24.10		
	Subtest 2	4132	826.4	22.17	2.00	22.50	22.17	2.00	22.50
		4183	836.6	22.07			22.07		
		4233	846.6	22.11			22.11		
	Subtest 3	4132	826.4	23.20	1.00	23.50	23.20	1.00	23.50
		4183	836.6	23.10			23.10		
		4233	846.6	23.09			23.09		
	Subtest 4	4132	826.4	22.18	2.00	22.50	22.18	2.00	22.50
		4183	836.6	22.09			22.09		
		4233	846.6	22.13			22.13		
	Subtest 5	4132	826.4	23.70	0.00	24.50	23.70	0.00	24.50
		4183	836.6	23.64			23.64		
		4233	846.6	23.68			23.68		
DC-HSDPA	Subtest 1	4132	826.4	24.16	0.00	24.50	24.16	0.00	24.50
		4183	836.6	24.07			24.07		
		4233	846.6	24.11			24.11		
	Subtest 2	4132	826.4	24.14	0.00	24.50	24.14	0.00	24.50
		4183	836.6	24.01			24.01		
		4233	846.6	24.09			24.09		
	Subtest 3	4132	826.4	23.65	0.50	24.00	23.65	0.50	24.00
		4183	836.6	23.57			23.57		
		4233	846.6	23.61			23.61		
	Subtest 4	4132	826.4	23.66	0.50	24.00	23.66	0.50	24.00
		4183	836.6	23.56			23.56		
		4233	846.6	23.60			23.60		
HSPA+	Subtest 1	4132	826.4	22.00	2.50	22.00	22.00	2.50	22.00
		4183	836.6	22.00			22.00		
		4233	846.6	22.00			22.00		

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	25.25	24.50	24.50				
	1xAdvanced	25.70	25.25	24.50	24.50				
	1xEVDO Rel. 0	25.70	25.25	24.50	24.50				
	1xEVDO Rev. A	25.70	25.25	24.50	24.50				
CDMA BC1	1xRTT	25.70	17.50	21.50	19.25				
	1xAdvanced	25.70	17.50	21.50	19.25				
	1xEVDO Rel. 0	25.70	17.50	21.50	19.25				
	1xEVDO Rev. A	25.70	17.50	21.50	19.25				
CDMA BC10	1xRTT	25.70	25.25	24.50	24.50				
	1xAdvanced	25.70	25.25	24.50	24.50				
	1xEVDO Rel. 0	25.70	25.25	24.50	24.50				
	1xEVDO Rev. A	25.70	25.25	24.50	24.50				

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	25.59	25.70	25.10	25.25
		384	836.52	25.50		25.20	
		777	848.31	25.41		25.05	
	RC3, SO55 (Loopback)	1013	824.70	25.60		25.10	
		384	836.52	25.63		25.21	
		777	848.31	25.56		25.10	
	RC3, SO32 (+F-SCH)	1013	824.70	25.57		25.14	
		384	836.52	25.54		25.21	
		777	848.31	25.53		25.20	
1xAdvanced	Fw d11/Rvs8 SO75 (Loopback)	1013	824.70	25.40	25.70	25.05	25.25
		384	836.52	25.43		25.00	
		777	848.31	25.40		25.04	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	1013	824.70	25.50	25.70	25.18	25.25
		384	836.52	25.54		25.21	
		777	848.31	25.50		25.20	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	1013	824.70	25.40	25.70	25.03	25.25
		384	836.52	25.30		25.06	
		777	848.31	25.30		25.06	

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	24.22	24.50	24.22	24.50
		384	836.52	24.48		24.48	
		777	848.31	24.31		24.31	
	RC3, SO55 (Loopback)	1013	824.70	24.39		24.39	
		384	836.52	24.29		24.29	
		777	848.31	24.26		24.26	
	RC3, SO32 (+F-SCH)	1013	824.70	24.32		24.32	
		384	836.52	24.31		24.31	
		777	848.31	24.33		24.33	
1xAdvanced	Fw d11/Rvs8 SO75 (Loopback)	1013	824.70	24.31	24.50	24.31	24.50
		384	836.52	24.39		24.39	
		777	848.31	24.26		24.26	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	1013	824.70	24.50	24.50	24.50	24.50
		384	836.52	24.37		24.37	
		777	848.31	24.31		24.31	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	1013	824.70	24.22	24.50	24.22	24.50
		384	836.52	24.27		24.27	
		777	848.31	24.46		24.46	

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	25.20	25.70	16.74	17.50
		600	1880.00	25.20		16.74	
		1175	1908.75	25.30		16.89	
	RC3, SO55 (Loopback)	25	1851.25	25.40		16.78	
		600	1880.00	25.40		16.91	
		1175	1908.75	25.40		16.79	
	RC3, SO32 (+F-SCH)	25	1851.25	25.40		16.95	
		600	1880.00	25.40		16.91	
		1175	1908.75	25.30		16.95	
1xAdvanced	Fw d11/Rvs8 SO75 (Loopback)	25	1851.25	25.20	25.70	16.70	17.50
		600	1880	25.20		16.67	
		1175	1908.75	25.10		16.60	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	25	1851.25	25.50	25.70	16.92	17.50
		600	1880.00	25.56		16.90	
		1175	1908.75	25.51		16.93	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	25	1851.25	25.42	25.70	16.72	17.50
		600	1880	25.30		16.65	
		1175	1908.75	25.30		16.72	

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	21.10	21.50	18.60	19.25
		600	1880.00	21.00		18.60	
		1175	1908.75	21.10		18.50	
	RC3, SO55 (Loopback)	25	1851.25	21.26		18.72	
		600	1880.00	21.23		18.70	
		1175	1908.75	21.37		18.70	
	RC3, SO32 (+F-SCH)	25	1851.25	21.21		18.73	
		600	1880.00	21.21		18.85	
		1175	1908.75	21.00		18.76	
1xAdvanced	Fw d11/Rvs8 SO75 (Loopback)	25	1851.25	21.00	21.50	18.60	19.25
		600	1880	21.00		18.60	
		1175	1908.75	21.10		18.70	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	25	1851.25	21.37	21.50	18.68	19.25
		600	1880.00	21.50		18.71	
		1175	1908.75	21.50		18.65	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	25	1851.25	21.46	21.50	18.50	19.25
		600	1880	21.34		18.50	
		1175	1908.75	21.26		18.60	

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	25.57	25.70	25.00	25.25
	RC3, SO55 (Loopback)	560	820.00	25.69		25.02	
	RC3, SO32 (+F-SCH)	560	820.00	25.59		25.15	
1xAdvanced	Fw d11/Rvs8 SO75 (Loopback)	560	820.00	25.30	25.70	25.00	25.25
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	560	820.00	25.46	25.70	25.15	25.25
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	560	820.00	25.45	25.70	25.11	25.25

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	24.48	24.50	24.48	24.50
	RC3, SO55 (Loopback)	560	820.00	24.21		24.21	
	RC3, SO32 (+F-SCH)	560	820.00	24.40		24.40	
1xAdvanced	Fw d11/Rvs8 SO75 (Loopback)	560	820.00	24.27	24.50	24.27	24.50
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	560	820.00	24.20	24.50	24.20	24.50
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	560	820.00	24.39	24.50	24.39	24.50

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	17.50	21.50	19.25	24.70	21.25	20.50	21.75
LTE Band 4	QPSK	25.70	18.50	20.00	18.25	24.70	20.75	20.00	21.25
LTE Band 5	QPSK	25.70	25.25	24.50	24.50				
LTE Band 7	QPSK	25.25	19.00	19.00	19.25	24.50	19.00	19.50	20.25
LTE Band 12	QPSK	25.70	25.70	24.50	24.50				
LTE Band 13	QPSK	25.70	25.70	24.50	24.50				
LTE Band 17	QPSK	25.70	25.70	24.50	24.50				
LTE Band 25	QPSK	25.70	17.50	21.50	19.25	24.70	21.25	20.50	21.75
LTE Band 26	QPSK	25.70	25.25	24.50	24.50				
LTE Band 30	QPSK	25.70	22.25	18.50	19.50	24.50	20.75	20.75	21.25
LTE Band 41 (PC3)	QPSK	25.70	22.50	19.75	21.00	24.70	21.75	21.25	22.20
LTE Band 41 (PC 2)	QPSK	27.25	N/A	N/A	N/A	25.70	N/A	N/A	22.25
LTE Band 66	QPSK	25.70	18.50	20.00	18.25	24.70	20.75	20.00	21.25
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	21.50	20.25	21.50	25.70	23.00	20.00	21.50

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		24.89		0	25.70		24.81		0.00	25.25
		1	25		25.22		0	25.70		25.06		0.00	25.25
		1	49		24.82		0	25.70		24.56		0.00	25.25
		25	0		24.03		1	24.70		24.16		0.55	24.70
		25	12		24.29		1	24.70		24.41		0.55	24.70
		25	25		24.01		1	24.70		24.10		0.55	24.70
	16QAM	50	0		24.03		1	24.70		24.25		0.55	24.70
		1	0		24.02		1	24.70		24.22		0.55	24.70
		1	25		23.78		1	24.70		24.15		0.55	24.70
		1	49		23.88		1	24.70		24.23		0.55	24.70
		25	0		22.92		2	23.70		23.02		1.55	23.70
		25	12		22.81		2	23.70		23.08		1.55	23.70
	64QAM	25	25		22.97		2	23.70		23.18		1.55	23.70
		50	0		22.91		2	23.70		23.29		1.55	23.70
		1	0		22.96		2	23.70		23.23		1.55	23.70
		1	25		22.84		2	23.70		23.05		1.55	23.70
		1	49		22.83		2	23.70		23.00		1.55	23.70
		25	0		22.01		3	22.70		22.21		2.55	22.70
	256QAM	25	12		21.82		3	22.70		22.28		2.55	22.70
		25	25		22.04		3	22.70		22.09		2.55	22.70
		50	0		21.76		3	22.70		22.22		2.55	22.70
		1	0		19.99		5	20.70		20.07		4.55	20.70
		1	25		19.98		5	20.70		20.04		4.55	20.70
		1	49		19.88		5	20.70		20.29		4.55	20.70
5 MHz	QPSK	25	0		20.04		5	20.70		20.14		4.55	20.70
		25	12		19.82		5	20.70		20.27		4.55	20.70
		25	25		19.85		5	20.70		20.25		4.55	20.70
		50	0		19.93		5	20.70		20.29		4.55	20.70
	16QAM	1	0		25.08		0	25.70		24.71		0.00	25.25
		1	12		24.94		0	25.70		24.77		0.00	25.25
		1	24		24.94		0	25.70		24.83		0.00	25.25
		12	0		24.19		1	24.70		24.28		0.55	24.70
		12	7		24.17		1	24.70		24.07		0.55	24.70
		12	13		24.00		1	24.70		24.02		0.55	24.70
	64QAM	25	0		24.01		1	24.70		24.13		0.55	24.70
		1	0		23.93		1	24.70		24.09		0.55	24.70
		1	12		23.86		1	24.70		24.19		0.55	24.70
		1	24		23.87		1	24.70		24.05		0.55	24.70
		12	0		23.00		2	23.70		23.18		1.55	23.70
		12	7		23.02		2	23.70		23.15		1.55	23.70
	256QAM	12	13		22.96		2	23.70		23.00		1.55	23.70
		25	0		22.90		2	23.70		23.25		1.55	23.70
		1	0		22.77		2	23.70		23.16		1.55	23.70
		1	12		22.86		2	23.70		23.17		1.55	23.70
		1	24		22.82		2	23.70		23.30		1.55	23.70
		12	0		21.83		3	22.70		22.09		2.55	22.70
	16QAM	12	7		22.05		3	22.70		22.25		2.55	22.70
		12	13		21.92		3	22.70		22.15		2.55	22.70
		25	0		21.76		3	22.70		22.25		2.55	22.70
		1	0		20.03		5	20.70		20.15		4.55	20.70
		1	12		20.02		5	20.70		20.20		4.55	20.70
		1	24		19.83		5	20.70		20.15		4.55	20.70
	256QAM	12	0		19.84		5	20.70		20.13		4.55	20.70
		12	7		19.83		5	20.70		20.22		4.55	20.70
		12	13		19.95		5	20.70		20.10		4.55	20.70
		25	0		20.05		5	20.70		20.02		4.55	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	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	24.97	24.97	24.81	0	25.70	24.57	24.77	24.84	0.00	25.25
		1	8	24.85	24.97	24.72	0	25.70	24.73	24.56	24.83	0.00	25.25
		1	14	24.83	24.87	24.70	0	25.70	24.65	24.83	24.63	0.00	25.25
		8	0	24.10	23.98	24.04	1	24.70	24.30	24.22	24.19	0.55	24.70
		8	4	24.14	24.24	24.20	1	24.70	24.19	24.03	24.17	0.55	24.70
		8	7	24.14	24.05	24.18	1	24.70	24.07	24.12	24.00	0.55	24.70
	16QAM	15	0	24.01	24.09	24.14	1	24.70	24.02	24.19	24.16	0.55	24.70
		1	0	24.00	24.01	24.01	1	24.70	24.18	24.18	24.20	0.55	24.70
		1	8	23.89	23.92	23.94	1	24.70	24.26	24.04	24.22	0.55	24.70
		1	14	23.90	24.04	23.85	1	24.70	24.01	24.11	24.15	0.55	24.70
		8	0	22.87	23.05	23.00	2	23.70	23.08	23.10	23.20	1.55	23.70
		8	4	22.94	22.76	23.05	2	23.70	23.27	23.18	23.28	1.55	23.70
	64QAM	8	7	23.01	22.77	22.80	2	23.70	23.04	23.18	23.19	1.55	23.70
		15	0	23.00	22.82	22.94	2	23.70	23.02	23.20	23.05	1.55	23.70
		1	0	23.03	23.01	22.83	2	23.70	23.02	23.17	23.02	1.55	23.70
		1	8	23.02	22.91	23.01	2	23.70	23.24	23.22	23.00	1.55	23.70
		1	14	23.02	23.00	22.81	2	23.70	23.21	23.24	23.00	1.55	23.70
		8	0	22.03	21.78	21.77	3	22.70	22.08	22.16	22.25	2.55	22.70
	256QAM	8	4	21.77	21.99	22.01	3	22.70	22.20	22.01	22.19	2.55	22.70
		8	7	21.91	21.98	22.03	3	22.70	22.28	22.18	22.27	2.55	22.70
		15	0	21.80	21.93	22.03	3	22.70	22.16	22.04	22.25	2.55	22.70
		1	0	19.93	19.99	20.05	5	20.70	20.06	20.01	20.18	4.55	20.70
		1	8	19.77	19.92	20.01	5	20.70	20.22	20.24	20.01	4.55	20.70
		1	14	19.93	19.99	19.79	5	20.70	20.24	20.08	20.16	4.55	20.70
1.4 MHz	QPSK	8	0	20.02	19.77	19.92	5	20.70	20.21	20.28	20.22	4.55	20.70
		8	4	19.81	19.91	19.81	5	20.70	20.20	20.11	20.29	4.55	20.70
		8	7	20.01	20.01	19.79	5	20.70	20.18	20.12	20.22	4.55	20.70
		15	0	19.99	19.97	19.75	5	20.70	20.29	20.07	20.08	4.55	20.70
		1	0	24.07	24.07	24.07	0	25.70	24.07	24.07	24.07	0.00	25.25
		1	3	24.88	24.99	24.72	0	25.70	24.57	24.82	24.61	0.00	25.25
	16QAM	1	5	24.81	24.90	24.70	0	25.70	24.60	24.81	24.66	0.00	25.25
		3	0	23.95	24.23	23.97	0	24.70	24.16	24.17	24.25	0.00	25.25
		3	1	24.19	24.02	24.16	0	24.70	24.14	24.04	24.25	0.00	25.25
		3	3	24.07	24.14	24.01	0	24.70	24.03	24.02	24.25	0.00	25.25
		6	0	24.05	24.23	24.02	1	24.70	24.28	24.05	24.01	0.55	24.70
		1	0	24.02	23.80	23.89	1	24.70	24.14	24.10	24.08	0.55	24.70
	64QAM	1	3	24.00	23.95	23.81	1	24.70	24.14	24.30	24.19	0.55	24.70
		1	5	24.02	23.91	23.82	1	24.70	24.26	24.11	24.03	0.55	24.70
		3	0	22.81	23.01	22.85	1	23.70	23.19	23.12	23.70	0.55	24.70
		3	1	22.90	22.92	22.83	1	23.70	23.02	23.22	23.70	0.55	24.70
		3	3	22.91	23.02	22.87	1	23.70	23.06	23.27	23.70	0.55	24.70
		6	0	22.99	22.91	22.91	2	23.70	23.23	23.25	23.20	1.55	23.70
	256QAM	1	0	23.01	22.86	22.87	2	23.70	23.27	23.01	23.25	1.55	23.70
		1	3	22.82	22.99	22.98	2	23.70	23.10	23.08	23.01	1.55	23.70
		1	5	22.85	22.95	22.81	2	23.70	23.07	23.16	23.02	1.55	23.70
		3	0	21.92	22.02	21.82	2	22.70	22.05	22.15	23.45	1.55	23.70
		3	1	21.77	22.05	21.97	2	22.70	22.08	22.25	23.45	1.55	23.70
		3	3	21.79	22.00	21.77	2	22.70	22.09	22.29	23.45	1.55	23.70
	QPSK	6	0	21.97	21.90	21.99	3	22.70	22.26	22.06	22.25	2.55	22.70
		1	0	19.87	19.85	19.79	5	20.70	20.12	20.18	20.08	4.55	20.70
		1	3	19.82	19.76	19.95	5	20.70	20.02	20.20	20.15	4.55	20.70
		1	5	19.99	19.79	20.01	5	20.70	20.15	20.27	20.01	4.55	20.70
		3	0	19.89	19.89	20.01	5	20.70	20.04	20.02	20.15	4.55	20.70
		3	1	20.02	19.76	19.91	5	20.70	20.13	20.05	20.11	4.55	20.70
	16QAM	3	3	20.04	19.98	19.83	5	20.70	20.29	20.30	20.09	4.55	20.70
		6	0	19.95	19.82	19.79	5	20.70	20.10	20.22	20.18	4.55	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		24.41		0.00	24.50		24.41		0.00	24.50	
		1	25		24.41		0.00	24.50		24.41		0.00	24.50	
		1	49		24.34		0.00	24.50		24.34		0.00	24.50	
		25	0		23.44		1.00	23.50		23.44		1.00	23.50	
		25	12		23.44		1.00	23.50		23.44		1.00	23.50	
		25	25		23.29		1.00	23.50		23.29		1.00	23.50	
	16QAM	50	0		23.26		1.00	23.50		23.26		1.00	23.50	
		1	0		23.41		1.00	23.50		23.41		1.00	23.50	
		1	25		23.25		1.00	23.50		23.25		1.00	23.50	
		1	49		23.26		1.00	23.50		23.26		1.00	23.50	
		25	0		22.39		2.00	22.50		22.39		2.00	22.50	
		25	12		22.29		2.00	22.50		22.29		2.00	22.50	
	64QAM	25	25		22.32		2.00	22.50		22.32		2.00	22.50	
		50	0		22.39		2.00	22.50		22.39		2.00	22.50	
		1	0		22.50		2.00	22.50		22.50		2.00	22.50	
		1	25		22.26		2.00	22.50		22.26		2.00	22.50	
		1	49		22.49		2.00	22.50		22.49		2.00	22.50	
		25	0		21.47		3.00	21.50		21.47		3.00	21.50	
	256QAM	25	12		21.38		3.00	21.50		21.38		3.00	21.50	
		25	25		21.35		3.00	21.50		21.35		3.00	21.50	
		50	0		21.47		3.00	21.50		21.47		3.00	21.50	
		1	0		19.48		5.00	19.50		19.48		5.00	19.50	
		1	25		19.49		5.00	19.50		19.49		5.00	19.50	
		1	49		19.33		5.00	19.50		19.33		5.00	19.50	
5 MHz	QPSK	25	0		19.38		5.00	19.50		19.38		5.00	19.50	
		25	12		19.45		5.00	19.50		19.45		5.00	19.50	
		25	25		19.29		5.00	19.50		19.29		5.00	19.50	
		50	0		19.27		5.00	19.50		19.27		5.00	19.50	
		1	0		24.08	24.24	24.21	0.00	24.50	24.08	24.24	24.21	0.00	24.50
		1	12		24.17	24.12	23.98	0.00	24.50	24.17	24.12	23.98	0.00	24.50
	16QAM	1	24		24.20	24.22	24.10	0.00	24.50	24.20	24.22	24.10	0.00	24.50
		12	0		23.25	23.00	23.19	1.00	23.50	23.25	23.00	23.19	1.00	23.50
		12	7		23.17	23.07	23.24	1.00	23.50	23.17	23.07	23.24	1.00	23.50
		12	13		23.06	23.09	23.01	1.00	23.50	23.06	23.09	23.01	1.00	23.50
		25	0		23.06	23.22	22.99	1.00	23.50	23.06	23.22	22.99	1.00	23.50
		1	0		23.04	23.22	23.03	1.00	23.50	23.04	23.22	23.03	1.00	23.50
	64QAM	1	12		22.96	22.98	23.09	1.00	23.50	22.96	22.98	23.09	1.00	23.50
		1	24		23.20	23.17	23.05	1.00	23.50	23.20	23.17	23.05	1.00	23.50
		12	0		22.19	22.00	22.20	2.00	22.50	22.19	22.00	22.20	2.00	22.50
		12	7		22.13	22.06	22.12	2.00	22.50	22.13	22.06	22.12	2.00	22.50
		12	13		22.19	22.18	22.12	2.00	22.50	22.19	22.18	22.12	2.00	22.50
		25	0		22.24	22.02	22.00	2.00	22.50	22.24	22.02	22.00	2.00	22.50
	256QAM	1	0		22.15	22.23	21.96	2.00	22.50	22.15	22.23	21.96	2.00	22.50
		1	12		22.23	22.05	22.14	2.00	22.50	22.23	22.05	22.14	2.00	22.50
		1	24		22.15	22.25	21.98	2.00	22.50	22.15	22.25	21.98	2.00	22.50
		12	0		21.06	21.16	20.99	3.00	21.50	21.06	21.16	20.99	3.00	21.50
12		7		21.11	21.02	21.12	3.00	21.50	21.11	21.02	21.12	3.00	21.50	
12		13		20.99	21.14	21.03	3.00	21.50	20.99	21.14	21.03	3.00	21.50	
QPSK	25	0		21.15	21.02	21.21	3.00	21.50	21.15	21.02	21.21	3.00	21.50	
	1	0		19.11	19.15	19.03	5.00	19.50	19.11	19.15	19.03	5.00	19.50	
	1	12		19.03	19.20	19.24	5.00	19.50	19.03	19.20	19.24	5.00	19.50	
	1	24		19.07	19.09	18.97	5.00	19.50	19.07	19.09	18.97	5.00	19.50	
	12	0		19.19	19.10	19.08	5.00	19.50	19.19	19.10	19.08	5.00	19.50	
	12	7		19.13	19.12	19.09	5.00	19.50	19.13	19.12	19.09	5.00	19.50	
16QAM	12	13		19.00	19.14	19.23	5.00	19.50	19.00	19.14	19.23	5.00	19.50	
	25	0		19.13	19.09	19.07	5.00	19.50	19.13	19.09	19.07	5.00	19.50	

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	24.09	23.96	24.04	0.00	24.50	24.09	23.96	24.04	0.00	24.50
		1	8	24.13	23.98	24.19	0.00	24.50	24.13	23.98	24.19	0.00	24.50
		1	14	24.06	24.10	24.04	0.00	24.50	24.06	24.10	24.04	0.00	24.50
		8	0	23.13	22.97	23.23	1.00	23.50	23.13	22.97	23.23	1.00	23.50
		8	4	23.00	22.99	23.04	1.00	23.50	23.00	22.99	23.04	1.00	23.50
		8	7	23.13	23.13	23.19	1.00	23.50	23.13	23.13	23.19	1.00	23.50
	16QAM	15	0	23.19	23.04	23.24	1.00	23.50	23.19	23.04	23.24	1.00	23.50
		1	0	22.98	23.06	23.12	1.00	23.50	22.98	23.06	23.12	1.00	23.50
		1	8	23.07	23.07	22.95	1.00	23.50	23.07	23.07	22.95	1.00	23.50
		1	14	23.10	23.08	23.02	1.00	23.50	23.10	23.08	23.02	1.00	23.50
		8	0	22.07	21.97	22.22	2.00	22.50	22.07	21.97	22.22	2.00	22.50
		8	4	22.10	21.97	22.04	2.00	22.50	22.10	21.97	22.04	2.00	22.50
	64QAM	8	7	22.00	22.17	22.11	2.00	22.50	22.00	22.17	22.11	2.00	22.50
		15	0	21.97	22.11	22.24	2.00	22.50	21.97	22.11	22.24	2.00	22.50
		1	0	22.15	22.20	21.98	2.00	22.50	22.15	22.20	21.98	2.00	22.50
		1	8	22.01	22.06	22.00	2.00	22.50	22.01	22.06	22.00	2.00	22.50
		1	14	22.06	22.18	22.12	2.00	22.50	22.06	22.18	22.12	2.00	22.50
		8	0	21.03	20.99	21.00	3.00	21.50	21.03	20.99	21.00	3.00	21.50
	256QAM	8	4	21.10	21.02	21.01	3.00	21.50	21.10	21.02	21.01	3.00	21.50
		8	7	21.14	21.01	21.13	3.00	21.50	21.14	21.01	21.13	3.00	21.50
		15	0	20.97	21.01	21.03	3.00	21.50	20.97	21.01	21.03	3.00	21.50
		1	0	19.07	19.17	19.04	5.00	19.50	19.07	19.17	19.04	5.00	19.50
		1	8	19.08	19.02	19.02	5.00	19.50	19.08	19.02	19.02	5.00	19.50
		1	14	19.22	18.97	19.13	5.00	19.50	19.22	18.97	19.13	5.00	19.50
		8	0	19.24	19.17	19.18	5.00	19.50	19.24	19.17	19.18	5.00	19.50
		8	4	18.96	19.20	18.96	5.00	19.50	18.96	19.20	18.96	5.00	19.50
		8	7	19.03	19.09	19.06	5.00	19.50	19.03	19.09	19.06	5.00	19.50
		15	0	19.10	19.19	19.10	5.00	19.50	19.10	19.19	19.10	5.00	19.50
1.4 MHz	QPSK	1	0	24.22	23.97	24.05	0.00	24.50	24.22	23.97	24.05	0.00	24.50
		1	3	24.23	24.04	23.99	0.00	24.50	24.23	24.04	23.99	0.00	24.50
		1	5	24.03	23.97	24.23	0.00	24.50	24.03	23.97	24.23	0.00	24.50
		3	0	23.08	23.05	23.19	0.00	23.50	23.08	23.05	23.19	0.00	23.50
		3	1	23.23	23.20	23.14	0.00	23.50	23.23	23.20	23.14	0.00	23.50
		3	3	22.95	23.20	23.09	0.00	23.50	22.95	23.20	23.09	0.00	23.50
	16QAM	6	0	23.07	22.98	23.14	1.00	23.50	23.07	22.98	23.14	1.00	23.50
		1	0	23.07	23.19	23.07	1.00	23.50	23.07	23.19	23.07	1.00	23.50
		1	3	23.19	23.21	23.18	1.00	23.50	23.19	23.21	23.18	1.00	23.50
		1	5	22.99	22.95	23.23	1.00	23.50	22.99	22.95	23.23	1.00	23.50
		3	0	22.09	22.22	22.10	1.00	22.50	22.09	22.22	22.10	1.00	22.50
		3	1	22.09	21.98	22.18	1.00	22.50	22.09	21.98	22.18	1.00	22.50
	64QAM	3	3	22.13	21.99	22.11	1.00	22.50	22.13	21.99	22.11	1.00	22.50
		6	0	22.00	22.07	22.23	2.00	22.50	22.00	22.07	22.23	2.00	22.50
		1	0	22.04	22.11	22.15	2.00	22.50	22.04	22.11	22.15	2.00	22.50
		1	3	22.05	22.20	22.17	2.00	22.50	22.05	22.20	22.17	2.00	22.50
		1	5	22.05	22.15	22.10	2.00	22.50	22.05	22.15	22.10	2.00	22.50
		3	0	21.10	21.17	21.00	2.00	21.50	21.10	21.17	21.00	2.00	21.50
	256QAM	3	1	21.00	21.17	21.19	2.00	21.50	21.00	21.17	21.19	2.00	21.50
		3	3	21.25	21.23	21.20	2.00	21.50	21.25	21.23	21.20	2.00	21.50
		6	0	21.18	21.02	21.11	3.00	21.50	21.18	21.02	21.11	3.00	21.50
		1	0	19.07	19.06	19.02	5.00	19.50	19.07	19.06	19.02	5.00	19.50
		1	3	19.15	19.12	19.09	5.00	19.50	19.15	19.12	19.09	5.00	19.50
		1	5	19.22	19.11	19.22	5.00	19.50	19.22	19.11	19.22	5.00	19.50
		3	0	19.25	19.12	19.09	5.00	19.50	19.25	19.12	19.09	5.00	19.50
		3	1	19.22	19.21	18.96	5.00	19.50	19.22	19.21	18.96	5.00	19.50
		3	3	18.97	19.05	18.99	5.00	19.50	18.97	19.05	18.99	5.00	19.50
		6	0	19.22	19.01	19.04	5.00	19.50	19.22	19.01	19.04	5.00	19.50

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	25.03	24.92	25.01	0.00	25.25	18.79	18.54	18.64	0.00	19.00
		1	49	25.03	24.92	25.01	0.00	25.25	18.79	18.77	18.70	0.00	19.00
		1	99	24.92	24.92	24.94	0.00	25.25	18.59	18.66	18.50	0.00	19.00
		50	0	23.89	24.06	23.88	0.55	24.70	18.69	18.75	18.55	0.00	19.00
		50	24	23.89	24.10	24.09	0.55	24.70	18.77	18.75	18.73	0.00	19.00
		50	50	23.81	24.05	23.94	0.55	24.70	18.77	18.71	18.73	0.00	19.00
	16QAM	100	0	23.82	23.82	24.05	0.55	24.70	18.60	18.60	18.60	0.00	19.00
		1	0	24.03	23.95	24.00	0.55	24.70	18.43	18.51	18.41	0.00	19.00
		1	49	23.89	24.04	23.87	0.55	24.70	18.55	18.50	18.55	0.00	19.00
		1	99	23.92	23.85	24.08	0.55	24.70	18.58	18.51	18.53	0.00	19.00
		50	0	22.85	23.05	23.09	1.55	23.70	18.53	18.40	18.42	0.00	19.00
		50	24	22.82	23.01	22.85	1.55	23.70	18.59	18.58	18.53	0.00	19.00
	64QAM	50	50	23.03	22.99	23.03	1.55	23.70	18.37	18.50	18.45	0.00	19.00
		100	0	23.05	22.84	22.95	1.55	23.70	18.37	18.56	18.50	0.00	19.00
		1	0	23.02	23.03	22.85	1.55	23.70	18.54	18.60	18.54	0.00	19.00
		1	49	22.96	22.98	22.99	1.55	23.70	18.62	18.49	18.63	0.00	19.00
		1	99	22.86	22.96	22.95	1.60	23.65	18.64	18.46	18.37	0.00	19.00
		50	0	21.83	21.82	22.09	2.55	22.70	18.51	18.50	18.57	0.00	19.00
	256QAM	50	24	21.82	22.06	21.94	2.55	22.70	18.52	18.58	18.49	0.00	19.00
		50	50	22.05	22.05	21.98	2.55	22.70	18.61	18.49	18.48	0.00	19.00
		100	0	22.01	21.90	21.88	2.55	22.70	18.57	18.39	18.62	0.00	19.00
		1	0	20.09	20.03	19.97	4.55	20.70	18.45	18.37	18.45	0.00	19.00
		1	49	19.84	20.08	20.04	4.55	20.70	18.45	18.46	18.50	0.00	19.00
		1	99	19.85	19.82	19.98	4.55	20.70	18.55	18.53	18.52	0.00	19.00
15 MHz	QPSK	50	0	19.94	19.89	19.92	4.55	20.70	18.45	18.36	18.58	0.00	19.00
		50	24	20.02	20.04	20.07	4.55	20.70	18.35	18.45	18.43	0.00	19.00
		50	50	19.97	20.10	19.85	4.55	20.70	18.41	18.37	18.60	0.00	19.00
		100	0	20.03	19.92	20.05	4.55	20.70	18.45	18.36	18.52	0.00	19.00
	16QAM												
		1	0	24.94	24.76	24.88	0.00	25.25	18.47	18.61	18.39	0.00	19.00
		1	37	24.97	24.74	24.76	0.00	25.25	18.39	18.43	18.50	0.00	19.00
		1	74	24.89	24.78	24.86	0.00	25.25	18.44	18.51	18.61	0.00	19.00
		36	0	23.74	23.84	23.97	0.55	24.70	18.55	18.47	18.46	0.00	19.00
		36	20	24.00	23.77	23.72	0.55	24.70	18.38	18.47	18.39	0.00	19.00
		36	39	23.87	23.81	23.98	0.55	24.70	18.46	18.60	18.54	0.00	19.00
		75	0	23.98	23.78	23.86	0.55	24.70	18.53	18.43	18.57	0.00	19.00
		1	0	23.75	23.93	23.86	0.55	24.70	18.53	18.50	18.59	0.00	19.00
		1	37	23.80	23.81	23.96	0.55	24.70	18.43	18.51	18.59	0.00	19.00
		1	74	23.97	23.77	23.84	0.55	24.70	18.36	18.46	18.47	0.00	19.00
		36	0	22.82	22.90	22.71	1.55	23.70	18.48	18.38	18.56	0.00	19.00
	64QAM	36	20	22.86	22.83	22.77	1.55	23.70	18.64	18.49	18.51	0.00	19.00
		36	39	22.75	22.71	22.82	1.55	23.70	18.47	18.51	18.65	0.00	19.00
		75	0	22.72	22.87	22.84	1.55	23.70	18.59	18.45	18.61	0.00	19.00
		1	0	22.99	22.76	22.84	1.55	23.70	18.41	18.38	18.64	0.00	19.00
		1	37	22.88	22.75	22.94	1.55	23.70	18.37	18.53	18.36	0.00	19.00
		1	74	22.82	22.73	22.92	1.60	23.65	18.59	18.52	18.61	0.00	19.00
	256QAM	36	0	21.77	21.80	21.89	2.55	22.70	18.47	18.48	18.50	0.00	19.00
		36	20	21.77	21.83	21.83	2.55	22.70	18.46	18.60	18.42	0.00	19.00
		36	39	21.74	21.70	21.78	2.55	22.70	18.56	18.59	18.40	0.00	19.00
		75	0	21.77	21.87	21.72	2.55	22.70	18.45	18.39	18.61	0.00	19.00
		1	0	19.72	19.86	19.95	4.55	20.70	18.53	18.56	18.50	0.00	19.00
		1	37	19.89	19.80	19.75	4.55	20.70	18.65	18.36	18.36	0.00	19.00
	256QAM	1	74	19.89	19.79	20.00	4.55	20.70	18.35	18.62	18.56	0.00	19.00
		36	0	19.76	19.70	19.93	4.55	20.70	18.38	18.57	18.43	0.00	19.00
		36	20	19.74	19.99	19.84	4.55	20.70	18.60	18.62	18.44	0.00	19.00
		36	39	19.87	19.74	19.71	4.55	20.70	18.43	18.42	18.42	0.00	19.00
		75	0	19.85	19.76	19.95	4.55	20.70	18.47	18.51	18.51	0.00	19.00

LTE Band 7 Measured Results (ANT1) (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	24.83	24.90	24.78	0.00	25.25	18.58	18.59	18.40	0.00	19.00
		1	25	24.85	24.97	24.94	0.00	25.25	18.62	18.56	18.48	0.00	19.00
		1	49	24.83	24.80	24.96	0.00	25.25	18.40	18.44	18.62	0.00	19.00
		25	0	23.74	23.94	23.78	0.55	24.70	18.65	18.41	18.64	0.00	19.00
		25	12	23.81	23.90	23.75	0.55	24.70	18.52	18.63	18.42	0.00	19.00
		25	25	23.80	23.90	23.71	0.55	24.70	18.44	18.42	18.44	0.00	19.00
	16QAM	50	0	23.86	23.81	23.73	0.55	24.70	18.41	18.41	18.46	0.00	19.00
		1	0	23.91	23.86	23.71	0.55	24.70	18.35	18.38	18.57	0.00	19.00
		1	25	23.82	23.87	23.76	0.55	24.70	18.64	18.42	18.62	0.00	19.00
		1	49	23.79	23.72	23.82	0.55	24.70	18.60	18.62	18.55	0.00	19.00
		25	0	22.88	22.86	22.97	1.55	23.70	18.63	18.48	18.47	0.00	19.00
		25	12	22.86	22.76	22.96	1.55	23.70	18.64	18.57	18.51	0.00	19.00
	64QAM	25	25	22.97	22.89	22.98	1.55	23.70	18.37	18.56	18.35	0.00	19.00
		50	0	22.89	22.82	22.70	1.55	23.70	18.55	18.49	18.42	0.00	19.00
		1	0	22.78	22.73	22.92	1.55	23.70	18.51	18.37	18.59	0.00	19.00
		1	25	22.85	22.80	22.94	1.55	23.70	18.59	18.54	18.43	0.00	19.00
		1	49	22.85	22.96	22.71	1.60	23.65	18.49	18.47	18.45	0.00	19.00
		25	0	21.91	21.86	21.87	2.55	22.70	18.48	18.62	18.61	0.00	19.00
	256QAM	25	12	21.81	21.97	21.76	2.55	22.70	18.49	18.56	18.45	0.00	19.00
		25	25	21.89	21.81	21.84	2.55	22.70	18.58	18.60	18.43	0.00	19.00
		50	0	21.89	21.85	21.79	2.55	22.70	18.58	18.55	18.61	0.00	19.00
		1	0	19.83	19.77	19.79	4.55	20.70	18.39	18.61	18.59	0.00	19.00
		1	25	19.71	19.98	19.74	4.55	20.70	18.64	18.38	18.41	0.00	19.00
		1	49	19.91	19.75	19.81	4.55	20.70	18.36	18.36	18.58	0.00	19.00
		25	0	19.81	19.72	19.91	4.55	20.70	18.57	18.44	18.39	0.00	19.00
		25	12	19.83	19.78	19.73	4.55	20.70	18.63	18.63	18.42	0.00	19.00
5 MHz	QPSK	25	25	19.76	19.70	19.84	4.55	20.70	18.62	18.61	18.40	0.00	19.00
		50	0	19.87	19.92	19.87	4.55	20.70	18.44	18.52	18.40	0.00	19.00
	16QAM	1	0	24.79	24.74	24.93	0.00	25.25	18.46	18.57	18.55	0.00	19.00
		1	12	24.77	24.85	24.86	0.00	25.25	18.50	18.51	18.44	0.00	19.00
		1	24	24.88	24.80	24.93	0.00	25.25	18.53	18.55	18.56	0.00	19.00
		12	0	23.76	23.77	23.72	0.55	24.70	18.40	18.39	18.54	0.00	19.00
		12	7	23.95	23.85	23.98	0.55	24.70	18.42	18.52	18.37	0.00	19.00
		12	13	23.78	23.94	23.75	0.55	24.70	18.44	18.40	18.52	0.00	19.00
	64QAM	25	0	23.82	23.82	23.72	0.55	24.70	18.39	18.58	18.57	0.00	19.00
		1	0	23.80	23.95	23.71	0.55	24.70	18.59	18.38	18.39	0.00	19.00
		1	12	23.87	23.82	23.97	0.55	24.70	18.65	18.48	18.58	0.00	19.00
		1	24	23.80	23.74	23.89	0.55	24.70	18.52	18.52	18.54	0.00	19.00
		12	0	22.76	22.73	22.97	1.55	23.70	18.37	18.65	18.56	0.00	19.00
		12	7	22.94	22.87	22.75	1.55	23.70	18.37	18.64	18.45	0.00	19.00
		12	13	22.87	22.87	22.70	1.55	23.70	18.48	18.54	18.54	0.00	19.00
		25	0	22.70	22.93	22.88	1.55	23.70	18.52	18.64	18.45	0.00	19.00
	256QAM	1	0	22.99	22.88	22.83	1.55	23.70	18.46	18.40	18.53	0.00	19.00
		1	12	22.92	22.93	22.94	1.55	23.70	18.47	18.56	18.46	0.00	19.00
		1	24	22.96	22.82	22.82	1.60	23.65	18.40	18.46	18.57	0.00	19.00
		12	0	21.72	21.85	21.94	2.55	22.70	18.58	18.50	18.38	0.00	19.00
		12	7	21.82	21.92	21.77	2.55	22.70	18.61	18.41	18.61	0.00	19.00
		12	13	21.86	21.88	21.85	2.55	22.70	18.51	18.59	18.60	0.00	19.00
		25	0	21.99	21.95	21.74	2.55	22.70	18.47	18.57	18.50	0.00	19.00
		1	0	19.96	19.73	19.88	4.55	20.70	18.59	18.55	18.58	0.00	19.00
		1	12	19.85	19.96	19.86	4.55	20.70	18.50	18.63	18.39	0.00	19.00
		1	24	19.94	19.82	19.78	4.55	20.70	18.50	18.54	18.51	0.00	19.00
		12	0	19.91	19.76	19.97	4.55	20.70	18.40	18.63	18.39	0.00	19.00
		12	7	19.81	19.86	19.85	4.55	20.70	18.63	18.51	18.65	0.00	19.00
		12	13	19.98	19.88	19.97	4.55	20.70	18.55	18.47	18.46	0.00	19.00
		25	0	19.71	19.73	19.72	4.55	20.70	18.58	18.35	18.37	0.00	19.00

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	18.74	18.40	18.81	0.00	19.00	18.79	18.68	18.80	0.00	19.25
		1	49	18.75	18.46	18.82	0.00	19.00	18.85	18.70	19.05	0.00	19.25
		1	99	18.60	18.33	18.56	0.00	19.00	18.72	18.62	18.99	0.00	19.25
		50	0	18.65	18.68	18.76	0.00	19.00	18.86	18.67	18.79	0.00	19.25
		50	24	18.80	18.83	18.79	0.00	19.00	19.00	18.55	18.92	0.00	19.25
		50	50	18.77	18.62	18.62	0.00	19.00	18.99	18.49	18.78	0.00	19.25
	16QAM	100	0	18.74	18.85	18.80	0.00	19.00	18.77	18.61	18.86	0.00	19.25
		1	0	18.53	18.33	18.47	0.00	19.00	18.61	18.46	18.40	0.00	19.25
		1	49	18.52	18.48	18.44	0.00	19.00	18.56	18.65	18.63	0.00	19.25
		1	99	18.43	18.52	18.41	0.00	19.00	18.65	18.51	18.64	0.00	19.25
		50	0	18.47	18.45	18.32	0.00	19.00	18.57	18.51	18.63	0.00	19.25
		50	24	18.30	18.37	18.39	0.00	19.00	18.64	18.48	18.47	0.00	19.25
	64QAM	50	50	18.46	18.28	18.31	0.00	19.00	18.46	18.51	18.60	0.00	19.25
		100	0	18.42	18.48	18.40	0.00	19.00	18.68	18.49	18.64	0.00	19.25
		1	0	18.35	18.44	18.55	0.00	19.00	18.47	18.64	18.49	0.00	19.25
		1	49	18.41	18.45	18.33	0.00	19.00	18.69	18.62	18.52	0.00	19.25
		1	99	18.29	18.53	18.39	0.00	19.00	18.52	18.62	18.56	0.00	19.25
		50	0	18.47	18.29	18.53	0.00	19.00	18.59	18.47	18.67	0.00	19.25
	256QAM	50	24	18.29	18.49	18.53	0.00	19.00	18.56	18.65	18.70	0.00	19.25
		50	50	18.49	18.27	18.43	0.00	19.00	18.68	18.65	18.47	0.00	19.25
		100	0	18.30	18.32	18.54	0.00	19.00	18.68	18.65	18.65	0.00	19.25
		1	0	17.24	17.32	17.32	1.20	17.80	17.39	17.34	17.24	1.45	17.80
		1	49	17.48	17.33	17.31	1.20	17.80	17.33	17.10	17.15	1.45	17.80
		1	99	17.47	17.36	17.37	1.20	17.80	17.12	17.17	17.39	1.45	17.80
15 MHz	QPSK	50	0	17.25	17.23	17.50	1.20	17.80	17.21	17.32	17.21	1.45	17.80
		50	24	17.32	17.49	17.30	1.20	17.80	17.30	17.27	17.21	1.45	17.80
		50	50	17.29	17.33	17.29	1.20	17.80	17.25	17.33	17.12	1.45	17.80
		100	0	17.35	17.50	17.33	1.20	17.80	17.31	17.32	17.37	1.45	17.80
	16QAM	1	0	18.30	18.35	18.44	0.00	19.00	18.63	18.55	18.61	0.00	19.25
		1	37	18.34	18.41	18.49	0.00	19.00	18.41	18.65	18.68	0.00	19.25
		1	74	18.35	18.28	18.26	0.00	19.00	18.54	18.57	18.58	0.00	19.25
		36	0	18.43	18.42	18.36	0.00	19.00	18.55	18.58	18.64	0.00	19.25
		36	20	18.27	18.36	18.47	0.00	19.00	18.63	18.47	18.69	0.00	19.25
		36	39	18.53	18.38	18.35	0.00	19.00	18.56	18.58	18.42	0.00	19.25
	64QAM	75	0	18.39	18.25	18.40	0.00	19.00	18.67	18.52	18.64	0.00	19.25
		1	0	18.45	18.35	18.38	0.00	19.00	18.58	18.45	18.68	0.00	19.25
		1	37	18.42	18.42	18.54	0.00	19.00	18.61	18.50	18.63	0.00	19.25
		1	74	18.45	18.48	18.40	0.00	19.00	18.45	18.55	18.69	0.00	19.25
		36	0	18.33	18.54	18.53	0.00	19.00	18.49	18.60	18.57	0.00	19.25
		36	20	18.38	18.39	18.47	0.00	19.00	18.55	18.45	18.50	0.00	19.25
	256QAM	36	39	18.27	18.26	18.35	0.00	19.00	18.66	18.51	18.43	0.00	19.25
		75	0	18.37	18.44	18.51	0.00	19.00	18.68	18.64	18.50	0.00	19.25
		1	0	18.53	18.53	18.46	0.00	19.00	18.45	18.66	18.65	0.00	19.25
		1	37	18.36	18.53	18.43	0.00	19.00	18.64	18.67	18.58	0.00	19.25
		1	74	18.37	18.33	18.34	0.00	19.00	18.49	18.59	18.44	0.00	19.25
		36	0	18.50	18.31	18.47	0.00	19.00	18.65	18.48	18.63	0.00	19.25
	64QAM	36	20	18.27	18.44	18.45	0.00	19.00	18.40	18.45	18.45	0.00	19.25
		36	39	18.46	18.31	18.35	0.00	19.00	18.64	18.62	18.45	0.00	19.25
		75	0	18.36	18.51	18.51	0.00	19.00	18.46	18.55	18.62	0.00	19.25
	256QAM	1	0	17.21	17.39	17.47	1.20	17.80	17.15	17.25	17.38	1.45	17.80
		1	37	17.34	17.48	17.27	1.20	17.80	17.12	17.18	17.27	1.45	17.80
		1	74	17.25	17.35	17.50	1.20	17.80	17.18	17.24	17.10	1.45	17.80
		36	0	17.45	17.26	17.39	1.20	17.80	17.11	17.21	17.36	1.45	17.80
	256QAM	36	20	17.38	17.38	17.26	1.20	17.80	17.11	17.20	17.28	1.45	17.80
		36	39	17.40	17.26	17.41	1.20	17.80	17.33	17.23	17.16	1.45	17.80
		75	0	17.35	17.48	17.36	1.20	17.80	17.30	17.37	17.29	1.45	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	18.33	18.34	18.43	0.00	19.00	18.57	18.63	18.68	0.00	19.25
		1	25	18.35	18.28	18.35	0.00	19.00	18.57	18.69	18.48	0.00	19.25
		1	49	18.44	18.54	18.48	0.00	19.00	18.55	18.63	18.64	0.00	19.25
		25	0	18.31	18.45	18.55	0.00	19.00	18.40	18.50	18.65	0.00	19.25
		25	12	18.37	18.49	18.53	0.00	19.00	18.47	18.64	18.51	0.00	19.25
		25	25	18.43	18.33	18.38	0.00	19.00	18.50	18.61	18.52	0.00	19.25
	16QAM	50	0	18.35	18.48	18.38	0.00	19.00	18.46	18.44	18.49	0.00	19.25
		1	0	18.46	18.40	18.49	0.00	19.00	18.58	18.52	18.67	0.00	19.25
		1	25	18.32	18.46	18.41	0.00	19.00	18.41	18.48	18.57	0.00	19.25
		1	49	18.40	18.33	18.28	0.00	19.00	18.59	18.61	18.43	0.00	19.25
		25	0	18.54	18.52	18.42	0.00	19.00	18.49	18.62	18.58	0.00	19.25
		25	12	18.42	18.39	18.44	0.00	19.00	18.56	18.59	18.42	0.00	19.25
	64QAM	25	25	18.44	18.48	18.43	0.00	19.00	18.69	18.57	18.56	0.00	19.25
		50	0	18.32	18.43	18.35	0.00	19.00	18.43	18.41	18.60	0.00	19.25
		1	0	18.31	18.29	18.42	0.00	19.00	18.68	18.60	18.44	0.00	19.25
		1	25	18.49	18.43	18.34	0.00	19.00	18.41	18.49	18.42	0.00	19.25
		1	49	18.35	18.26	18.45	0.00	19.00	18.65	18.69	18.50	0.00	19.25
		25	0	18.49	18.36	18.52	0.00	19.00	18.50	18.69	18.52	0.00	19.25
	256QAM	25	12	18.26	18.33	18.29	0.00	19.00	18.55	18.59	18.56	0.00	19.25
		25	25	18.39	18.40	18.54	0.00	19.00	18.59	18.62	18.46	0.00	19.25
		50	0	18.50	18.27	18.53	0.00	19.00	18.40	18.56	18.60	0.00	19.25
		1	0	17.20	17.27	17.42	1.20	17.80	17.14	17.40	17.30	1.45	17.80
		1	25	17.32	17.35	17.35	1.20	17.80	17.39	17.37	17.20	1.45	17.80
		1	49	17.31	17.44	17.44	1.20	17.80	17.26	17.23	17.29	1.45	17.80
5 MHz	QPSK	25	0	17.30	17.26	17.28	1.20	17.80	17.12	17.29	17.17	1.45	17.80
		25	12	17.20	17.38	17.28	1.20	17.80	17.23	17.26	17.29	1.45	17.80
		25	25	17.21	17.30	17.50	1.20	17.80	17.33	17.12	17.30	1.45	17.80
		50	0	17.49	17.31	17.38	1.20	17.80	17.40	17.16	17.30	1.45	17.80
	16QAM	1	0	18.43	18.33	18.44	0.00	19.00	18.49	18.47	18.59	0.00	19.25
		1	12	18.54	18.47	18.55	0.00	19.00	18.61	18.46	18.61	0.00	19.25
		1	24	18.43	18.35	18.46	0.00	19.00	18.47	18.51	18.58	0.00	19.25
		12	0	18.49	18.41	18.26	0.00	19.00	18.51	18.64	18.58	0.00	19.25
		12	7	18.42	18.31	18.33	0.00	19.00	18.66	18.46	18.63	0.00	19.25
		12	13	18.39	18.33	18.36	0.00	19.00	18.70	18.63	18.46	0.00	19.25
	64QAM	25	0	18.40	18.37	18.30	0.00	19.00	18.47	18.60	18.49	0.00	19.25
		1	0	18.35	18.32	18.41	0.00	19.00	18.58	18.41	18.42	0.00	19.25
		1	12	18.31	18.43	18.30	0.00	19.00	18.41	18.68	18.43	0.00	19.25
		1	24	18.30	18.55	18.30	0.00	19.00	18.65	18.51	18.54	0.00	19.25
		12	0	18.31	18.48	18.41	0.00	19.00	18.57	18.67	18.56	0.00	19.25
		12	7	18.31	18.38	18.26	0.00	19.00	18.68	18.64	18.52	0.00	19.25
	256QAM	12	13	18.51	18.51	18.33	0.00	19.00	18.57	18.49	18.52	0.00	19.25
		25	0	18.32	18.32	18.44	0.00	19.00	18.53	18.66	18.44	0.00	19.25
		1	0	18.52	18.43	18.37	0.00	19.00	18.53	18.61	18.69	0.00	19.25
		1	12	18.38	18.54	18.45	0.00	19.00	18.65	18.61	18.65	0.00	19.25
		1	24	18.40	18.53	18.30	0.00	19.00	18.43	18.61	18.63	0.00	19.25
		12	0	18.43	18.33	18.43	0.00	19.00	18.53	18.50	18.65	0.00	19.25
	64QAM	12	7	18.52	18.41	18.34	0.00	19.00	18.48	18.68	18.45	0.00	19.25
		12	13	18.49	18.30	18.36	0.00	19.00	18.56	18.45	18.46	0.00	19.25
		25	0	18.43	18.35	18.49	0.00	19.00	18.67	18.64	18.51	0.00	19.25
	256QAM	1	0	17.38	17.46	17.44	1.20	17.80	17.20	17.35	17.35	1.45	17.80
		1	12	17.25	17.44	17.29	1.20	17.80	17.25	17.30	17.19	1.45	17.80
		1	24	17.35	17.28	17.34	1.20	17.80	17.34	17.35	17.18	1.45	17.80
		12	0	17.46	17.49	17.38	1.20	17.80	17.22	17.21	17.26	1.45	17.80
	256QAM	12	7	17.31	17.36	17.22	1.20	17.80	17.20	17.38	17.31	1.45	17.80
		12	13	17.34	17.41	17.28	1.20	17.80	17.26	17.22	17.16	1.45	17.80
		25	0	17.29	17.46	17.33	1.20	17.80	17.35	17.39	17.10	1.45	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	23.90	23.93	23.81	0.00	24.50	18.61	18.60	18.66	0.00	19.00
		1	49	24.10	24.25	24.09	0.00	24.50	18.91	18.96	19.00	0.00	19.00
		1	99	24.06	23.89	24.07	0.00	24.50	18.65	18.63	18.73	0.00	19.00
		50	0	23.01	23.26	23.26	0.80	23.70	18.49	18.71	18.57	0.00	19.00
		50	24	23.18	23.60	23.28	0.80	23.70	18.82	18.97	18.97	0.00	19.00
		50	50	23.17	23.28	23.10	0.80	23.70	18.52	18.67	18.69	0.00	19.00
	16QAM	100	0	23.11	23.25	23.27	0.80	23.70	18.52	18.95	18.69	0.00	19.00
		1	0	23.10	23.16	23.21	0.80	23.70	18.50	18.58	18.55	0.00	19.00
		1	49	23.02	23.09	23.06	0.80	23.70	18.75	18.72	18.61	0.00	19.00
		1	99	23.19	23.17	23.19	0.80	23.70	18.64	18.46	18.63	0.00	19.00
		50	0	22.20	22.20	22.21	1.80	22.70	18.47	18.73	18.60	0.00	19.00
		50	24	22.15	22.29	22.02	1.80	22.70	18.63	18.72	18.74	0.00	19.00
	64QAM	50	50	22.05	22.12	22.15	1.80	22.70	18.65	18.47	18.63	0.00	19.00
		100	0	22.17	22.29	22.05	1.80	22.70	18.56	18.61	18.71	0.00	19.00
		1	0	22.17	22.28	22.10	1.80	22.70	18.69	18.72	18.63	0.00	19.00
		1	49	22.14	22.24	22.18	1.80	22.70	18.69	18.49	18.59	0.00	19.00
		1	99	22.03	22.01	22.15	1.80	22.70	18.54	18.73	18.61	0.00	19.00
		50	0	21.17	21.03	21.15	2.80	21.70	18.45	18.66	18.51	0.00	19.00
	256QAM	50	24	21.24	21.12	21.29	2.80	21.70	18.64	18.59	18.73	0.00	19.00
		50	50	21.11	21.26	21.21	2.80	21.70	18.65	18.49	18.67	0.00	19.00
		100	0	21.09	21.29	21.27	2.80	21.70	18.74	18.46	18.72	0.00	19.00
		1	0	19.10	19.06	19.05	4.80	19.70	18.69	18.71	18.74	0.00	19.00
		1	49	19.16	19.14	19.08	4.80	19.70	18.60	18.71	18.72	0.00	19.00
		1	99	19.12	19.05	19.30	4.80	19.70	18.67	18.56	18.65	0.00	19.00
15 MHz	QPSK	50	0	19.13	19.21	19.09	4.80	19.70	18.47	18.66	18.72	0.00	19.00
		50	24	19.16	19.18	19.10	4.80	19.70	18.62	18.60	18.46	0.00	19.00
		50	50	19.08	19.03	19.23	4.80	19.70	18.60	18.69	18.60	0.00	19.00
		100	0	19.00	19.20	19.21	4.80	19.70	18.64	18.52	18.53	0.00	19.00
		1	0	23.89	23.81	23.93	0.00	24.50	18.74	18.55	18.60	0.00	19.00
		1	37	23.85	23.91	24.00	0.00	24.50	18.47	18.48	18.63	0.00	19.00
	16QAM	1	74	23.83	24.06	24.09	0.00	24.50	18.72	18.47	18.74	0.00	19.00
		36	0	23.05	23.19	23.09	0.80	23.70	18.50	18.71	18.49	0.00	19.00
		36	20	23.23	23.15	23.01	0.80	23.70	18.72	18.51	18.48	0.00	19.00
		36	39	23.03	23.10	23.23	0.80	23.70	18.64	18.56	18.45	0.00	19.00
		75	0	23.24	23.09	23.29	0.80	23.70	18.48	18.57	18.68	0.00	19.00
		1	0	23.27	23.10	23.17	0.80	23.70	18.47	18.55	18.57	0.00	19.00
	64QAM	1	37	23.23	23.18	23.27	0.80	23.70	18.75	18.54	18.74	0.00	19.00
		1	74	23.16	23.12	23.18	0.80	23.70	18.74	18.48	18.46	0.00	19.00
		36	0	22.29	22.27	22.16	1.80	22.70	18.46	18.60	18.73	0.00	19.00
		36	20	22.18	22.17	22.01	1.80	22.70	18.57	18.56	18.68	0.00	19.00
		36	39	22.25	22.23	22.22	1.80	22.70	18.58	18.63	18.47	0.00	19.00
		75	0	22.17	22.21	22.23	1.80	22.70	18.53	18.67	18.74	0.00	19.00
	256QAM	1	0	22.01	22.24	22.23	1.80	22.70	18.57	18.75	18.46	0.00	19.00
		1	37	22.22	22.06	22.00	1.80	22.70	18.52	18.52	18.72	0.00	19.00
		1	74	22.17	22.04	22.20	1.80	22.70	18.65	18.75	18.64	0.00	19.00
		36	0	21.16	21.03	21.20	2.80	21.70	18.60	18.68	18.57	0.00	19.00
		36	20	21.29	21.07	21.15	2.80	21.70	18.72	18.53	18.50	0.00	19.00
		36	39	21.01	21.23	21.09	2.80	21.70	18.51	18.72	18.71	0.00	19.00
	256QAM	75	0	21.14	21.05	21.14	2.80	21.70	18.54	18.55	18.56	0.00	19.00
		1	0	19.15	19.11	19.20	4.80	19.70	18.56	18.61	18.71	0.00	19.00
		1	37	19.26	19.14	19.00	4.80	19.70	18.55	18.68	18.58	0.00	19.00
		1	74	19.28	19.27	19.03	4.80	19.70	18.67	18.64	18.49	0.00	19.00
		36	0	19.03	19.24	19.05	4.80	19.70	18.58	18.58	18.48	0.00	19.00
		36	20	19.12	19.24	19.17	4.80	19.70	18.61	18.57	18.50	0.00	19.00
	256QAM	36	39	19.02	19.01	19.22	4.80	19.70	18.73	18.45	18.60	0.00	19.00
		75	0	19.08	19.19	19.18	4.80	19.70	18.49	18.55	18.63	0.00	19.00

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	23.94	23.82	23.87	0.00	24.50	18.53	18.66	18.67	0.00	19.00
		1	25	24.02	23.99	23.96	0.00	24.50	18.75	18.59	18.68	0.00	19.00
		1	49	23.91	23.88	24.03	0.00	24.50	18.50	18.53	18.57	0.00	19.00
		25	0	23.17	23.08	23.12	0.80	23.70	18.61	18.71	18.72	0.00	19.00
		25	12	23.29	23.28	23.15	0.80	23.70	18.50	18.46	18.55	0.00	19.00
		25	25	23.29	23.01	23.22	0.80	23.70	18.51	18.74	18.70	0.00	19.00
	16QAM	50	0	23.07	23.10	23.03	0.80	23.70	18.68	18.50	18.51	0.00	19.00
		1	0	23.29	23.23	23.21	0.80	23.70	18.60	18.66	18.70	0.00	19.00
		1	25	23.29	23.06	23.10	0.80	23.70	18.74	18.61	18.53	0.00	19.00
		1	49	23.03	23.02	23.11	0.80	23.70	18.52	18.51	18.53	0.00	19.00
		25	0	22.15	22.29	22.28	1.80	22.70	18.63	18.61	18.72	0.00	19.00
		25	12	22.20	22.23	22.29	1.80	22.70	18.53	18.72	18.69	0.00	19.00
	64QAM	25	25	22.13	22.27	22.23	1.80	22.70	18.59	18.46	18.55	0.00	19.00
		50	0	22.19	22.29	22.04	1.80	22.70	18.48	18.54	18.74	0.00	19.00
		1	0	22.05	22.18	22.14	1.80	22.70	18.65	18.48	18.63	0.00	19.00
		1	25	22.27	22.23	22.24	1.80	22.70	18.71	18.53	18.61	0.00	19.00
		1	49	22.03	22.04	22.23	1.80	22.70	18.53	18.66	18.60	0.00	19.00
		25	0	21.21	21.18	21.22	2.80	21.70	18.62	18.51	18.75	0.00	19.00
	256QAM	25	12	21.18	21.07	21.20	2.80	21.70	18.70	18.51	18.70	0.00	19.00
		25	25	21.18	21.20	21.12	2.80	21.70	18.62	18.74	18.60	0.00	19.00
		50	0	21.04	21.14	21.30	2.80	21.70	18.69	18.52	18.65	0.00	19.00
		1	0	19.08	19.24	19.05	4.80	19.70	18.65	18.74	18.71	0.00	19.00
		1	25	19.07	19.16	19.21	4.80	19.70	18.61	18.47	18.68	0.00	19.00
		1	49	19.26	19.14	19.23	4.80	19.70	18.46	18.55	18.63	0.00	19.00
5 MHz	QPSK	25	0	19.30	19.20	19.09	4.80	19.70	18.53	18.52	18.73	0.00	19.00
		25	12	19.15	19.19	19.04	4.80	19.70	18.55	18.49	18.71	0.00	19.00
		25	25	19.01	19.08	19.22	4.80	19.70	18.62	18.62	18.48	0.00	19.00
		50	0	19.02	19.08	19.28	4.80	19.70	18.61	18.46	18.74	0.00	19.00
	16QAM	1	0	23.97	23.88	23.85	0.00	24.50	18.57	18.72	18.58	0.00	19.00
		1	12	24.03	24.09	23.81	0.00	24.50	18.75	18.57	18.62	0.00	19.00
		1	24	23.99	24.02	24.00	0.00	24.50	18.58	18.54	18.45	0.00	19.00
		12	0	23.18	23.16	23.16	0.80	23.70	18.72	18.51	18.74	0.00	19.00
		12	7	23.14	23.26	23.25	0.80	23.70	18.51	18.47	18.49	0.00	19.00
		12	13	23.00	23.11	23.28	0.80	23.70	18.67	18.65	18.46	0.00	19.00
	64QAM	25	0	23.22	23.20	23.06	0.80	23.70	18.62	18.65	18.49	0.00	19.00
		1	0	23.06	23.27	23.23	0.80	23.70	18.57	18.74	18.71	0.00	19.00
		1	12	23.21	23.25	23.15	0.80	23.70	18.66	18.53	18.68	0.00	19.00
		1	24	23.10	23.03	23.20	0.80	23.70	18.59	18.46	18.69	0.00	19.00
		12	0	22.05	22.17	22.21	1.80	22.70	18.70	18.61	18.47	0.00	19.00
		12	7	22.22	22.22	22.05	1.80	22.70	18.56	18.58	18.47	0.00	19.00
	256QAM	12	13	22.13	22.25	22.10	1.80	22.70	18.51	18.72	18.54	0.00	19.00
		25	0	22.02	22.08	22.18	1.80	22.70	18.49	18.47	18.69	0.00	19.00
		1	0	22.01	22.16	22.02	1.80	22.70	18.57	18.64	18.73	0.00	19.00
		1	12	22.11	22.11	22.03	1.80	22.70	18.47	18.65	18.53	0.00	19.00
		1	24	22.03	22.27	22.05	1.80	22.70	18.56	18.56	18.60	0.00	19.00
		12	0	21.09	21.30	21.04	2.80	21.70	18.71	18.50	18.65	0.00	19.00
5 MHz	64QAM	12	7	21.17	21.06	21.24	2.80	21.70	18.64	18.67	18.49	0.00	19.00
		12	13	21.28	21.24	21.21	2.80	21.70	18.74	18.55	18.72	0.00	19.00
		25	0	21.06	21.14	21.08	2.80	21.70	18.74	18.57	18.49	0.00	19.00
	256QAM	1	0	19.14	19.06	19.10	4.80	19.70	18.59	18.47	18.71	0.00	19.00
		1	12	19.29	19.25	19.06	4.80	19.70	18.73	18.54	18.49	0.00	19.00
		1	24	19.00	19.18	19.01	4.80	19.70	18.68	18.52	18.73	0.00	19.00
	256QAM	12	0	19.28	19.17	19.25	4.80	19.70	18.69	18.55	18.73	0.00	19.00
		12	7	19.14	19.02	19.09	4.80	19.70	18.48	18.51	18.74	0.00	19.00
		12	13	19.29	19.18	19.10	4.80	19.70	18.46	18.60	18.67	0.00	19.00
		25	0	19.28	19.28	19.10	4.80	19.70	18.51	18.64	18.53	0.00	19.00

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	19.19	18.98	19.17	0.00	19.50	19.46	19.25	19.49	0.00	20.25
		1	49	19.49	19.40	19.48	0.00	19.50	19.93	19.55	19.90	0.00	20.25
		1	99	19.19	19.09	18.91	0.00	19.50	19.41	19.25	19.57	0.00	20.25
		50	0	18.91	19.13	18.99	0.00	19.50	19.36	19.25	19.36	0.00	20.25
		50	24	19.42	19.44	19.43	0.00	19.50	19.89	19.55	19.80	0.00	20.25
		50	50	19.03	19.13	19.12	0.00	19.50	19.58	19.25	19.49	0.00	20.25
	16QAM	100	0	18.92	19.32	18.93	0.00	19.50	19.54	19.45	19.41	0.00	20.25
		1	0	18.90	19.18	18.98	0.00	19.50	19.70	19.75	19.71	0.00	20.25
		1	49	19.16	19.18	18.98	0.00	19.50	19.71	19.87	19.81	0.00	20.25
		1	99	19.11	18.98	18.96	0.00	19.50	19.82	19.83	19.72	0.00	20.25
		50	0	19.11	19.17	19.16	0.00	19.50	19.78	19.87	19.62	0.05	20.20
		50	24	18.93	19.03	19.06	0.00	19.50	19.89	19.60	19.66	0.05	20.20
	64QAM	50	50	19.03	18.94	19.19	0.00	19.50	19.82	19.76	19.68	0.05	20.20
		100	0	19.12	19.12	19.17	0.00	19.50	19.68	19.77	19.79	0.05	20.20
		1	0	19.00	19.19	19.07	0.00	19.50	19.84	19.63	19.79	0.05	20.20
		1	49	19.02	18.94	19.12	0.00	19.50	19.84	19.88	19.81	0.05	20.20
		1	99	19.19	19.19	19.10	0.00	19.50	19.63	19.67	19.85	0.05	20.20
		50	0	18.66	18.78	18.85	0.30	19.20	18.72	18.85	18.88	1.05	19.20
	256QAM	50	24	18.78	18.88	18.70	0.30	19.20	18.73	18.69	18.67	1.05	19.20
		50	50	18.70	18.71	18.85	0.30	19.20	18.72	18.78	18.83	1.05	19.20
		100	0	18.88	18.87	18.76	0.30	19.20	18.79	18.88	18.71	1.05	19.20
		1	0	16.79	16.84	16.76	2.30	17.20	16.84	16.63	16.79	3.05	17.20
		1	49	16.86	16.63	16.73	2.30	17.20	16.84	16.88	16.81	3.05	17.20
		1	99	16.89	16.69	16.89	2.30	17.20	16.82	16.83	16.72	3.05	17.20
15 MHz	QPSK	50	0	16.82	16.64	16.62	2.30	17.20	16.78	16.87	16.62	3.05	17.20
		50	24	16.66	16.61	16.78	2.30	17.20	16.89	16.60	16.66	3.05	17.20
		50	50	16.64	16.71	16.86	2.30	17.20	16.82	16.76	16.68	3.05	17.20
		100	0	16.70	16.90	16.65	2.30	17.20	16.68	16.77	16.79	3.05	17.20
	16QAM	1	0	18.97	19.09	19.12	0.00	19.50	19.80	19.93	19.70	0.00	20.25
		1	37	18.97	19.10	18.90	0.00	19.50	19.81	19.87	19.83	0.00	20.25
		1	74	19.03	19.12	19.19	0.00	19.50	19.88	19.83	19.91	0.00	20.25
		36	0	19.13	19.08	19.14	0.00	19.50	19.92	19.78	19.70	0.00	20.25
		36	20	19.01	19.17	19.10	0.00	19.50	19.85	19.93	19.91	0.00	20.25
		36	39	19.05	19.09	19.13	0.00	19.50	19.73	19.76	19.69	0.00	20.25
	64QAM	75	0	19.01	19.12	19.14	0.00	19.50	19.90	19.73	19.91	0.00	20.25
		1	0	19.11	19.09	19.01	0.00	19.50	19.69	19.78	19.77	0.00	20.25
		1	37	18.94	19.19	19.10	0.00	19.50	19.76	19.76	19.74	0.00	20.25
		1	74	19.09	18.95	18.95	0.00	19.50	19.82	19.93	19.72	0.00	20.25
		36	0	18.94	18.92	19.06	0.00	19.50	19.65	19.89	19.77	0.05	20.20
		36	20	19.20	18.91	19.04	0.00	19.50	19.87	19.64	19.64	0.05	20.20
	256QAM	36	39	19.02	18.95	18.95	0.00	19.50	19.75	19.68	19.82	0.05	20.20
		75	0	18.97	19.13	18.96	0.00	19.50	19.73	19.90	19.63	0.05	20.20
		1	0	19.07	18.95	19.19	0.00	19.50	19.71	19.67	19.77	0.05	20.20
		1	37	18.90	19.04	18.97	0.00	19.50	19.64	19.79	19.62	0.05	20.20
		1	74	18.95	19.02	19.17	0.00	19.50	19.78	19.71	19.85	0.05	20.20
		36	0	18.89	18.72	18.65	0.30	19.20	18.78	18.76	18.71	1.05	19.20
	64QAM	36	20	18.88	18.62	18.83	0.30	19.20	18.65	18.67	18.61	1.05	19.20
		36	39	18.72	18.75	18.90	0.30	19.20	18.60	18.61	18.63	1.05	19.20
		75	0	18.85	18.76	18.74	0.30	19.20	18.76	18.78	18.72	1.05	19.20
	256QAM	1	0	16.65	16.88	16.68	2.30	17.20	16.74	16.63	16.79	3.05	17.20
		1	37	16.81	16.70	16.65	2.30	17.20	16.84	16.88	16.81	3.05	17.20
		1	74	16.70	16.72	16.85	2.30	17.20	16.82	16.83	16.72	3.05	17.20
	16QAM	36	0	16.72	16.70	16.72	2.30	17.20	16.78	16.87	16.62	3.05	17.20
		36	20	16.67	16.80	16.73	2.30	17.20	16.89	16.60	16.66	3.05	17.20
		36	39	16.75	16.72	16.88	2.30	17.20	16.82	16.76	16.68	3.05	17.20
		75	0	16.82	16.79	16.79	2.30	17.20	16.68	16.77	16.79	3.05	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	18.96	19.05	18.91	0.00	19.50	19.91	19.88	19.65	0.00	20.25
		1	25	19.00	18.99	19.00	0.00	19.50	19.83	19.85	19.73	0.00	20.25
		1	49	18.96	18.91	19.05	0.00	19.50	19.86	19.70	19.87	0.00	20.25
		25	0	18.94	18.95	18.92	0.00	19.50	19.88	19.90	19.77	0.00	20.25
		25	12	18.96	19.13	19.13	0.00	19.50	19.78	19.92	19.78	0.00	20.25
		25	25	19.13	19.08	19.11	0.00	19.50	19.74	19.94	19.84	0.00	20.25
		50	0	19.18	19.14	19.01	0.00	19.50	19.84	19.92	19.74	0.00	20.25
	16QAM	1	0	19.03	18.90	18.95	0.00	19.50	19.66	19.74	19.67	0.00	20.25
		1	25	19.15	19.01	19.10	0.00	19.50	19.83	19.66	19.94	0.00	20.25
		1	49	18.90	18.97	19.02	0.00	19.50	19.75	19.75	19.81	0.00	20.25
		25	0	18.96	19.06	19.19	0.00	19.50	19.62	19.63	19.82	0.05	20.20
		25	12	19.17	18.91	18.99	0.00	19.50	19.89	19.76	19.63	0.05	20.20
		25	25	18.91	18.98	18.92	0.00	19.50	19.84	19.69	19.80	0.05	20.20
		50	0	19.07	19.09	18.98	0.00	19.50	19.82	19.75	19.85	0.05	20.20
	64QAM	1	0	19.13	18.97	19.12	0.00	19.50	19.67	19.63	19.87	0.05	20.20
		1	25	19.17	19.14	19.16	0.00	19.50	19.67	19.67	19.86	0.05	20.20
		1	49	19.18	18.99	19.16	0.00	19.50	19.68	19.69	19.67	0.05	20.20
		25	0	18.69	18.88	18.89	0.30	19.20	18.79	18.74	18.77	1.05	19.20
		25	12	18.70	18.70	18.85	0.30	19.20	18.62	18.89	18.85	1.05	19.20
		25	25	18.71	18.88	18.81	0.30	19.20	18.62	18.84	18.74	1.05	19.20
		50	0	18.76	18.65	18.72	0.30	19.20	18.83	18.77	18.73	1.05	19.20
	256QAM	1	0	16.62	16.88	16.85	2.30	17.20	16.89	16.73	16.89	3.05	17.20
		1	25	16.78	16.82	16.83	2.30	17.20	16.90	16.79	16.90	3.05	17.20
		1	49	16.71	16.76	16.80	2.30	17.20	16.88	16.75	16.82	3.05	17.20
		25	0	16.86	16.69	16.84	2.30	17.20	16.88	16.68	16.72	3.05	17.20
		25	12	16.62	16.81	16.90	2.30	17.20	16.78	16.70	16.76	3.05	17.20
		25	25	16.87	16.85	16.65	2.30	17.20	16.79	16.86	16.78	3.05	17.20
		50	0	16.62	16.69	16.76	2.30	17.20	16.78	16.87	16.89	3.05	17.20
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	18.93	19.00	19.06	0.00	19.50	19.89	19.90	19.76	0.00	20.25
		1	12	19.08	19.00	19.04	0.00	19.50	19.71	19.95	19.94	0.00	20.25
		1	24	19.06	19.01	19.05	0.00	19.50	19.76	19.90	19.88	0.00	20.25
		12	0	19.15	19.07	19.01	0.00	19.50	19.93	19.75	19.86	0.00	20.25
		12	7	19.02	19.19	18.97	0.00	19.50	19.87	19.81	19.84	0.00	20.25
		12	13	18.93	18.92	19.04	0.00	19.50	19.83	19.89	19.72	0.00	20.25
		25	0	19.11	19.04	19.20	0.00	19.50	19.69	19.78	19.68	0.00	20.25
	16QAM	1	0	18.94	19.06	18.91	0.00	19.50	19.87	19.95	19.77	0.00	20.25
		1	12	19.10	18.93	19.01	0.00	19.50	19.67	19.66	19.86	0.00	20.25
		1	24	19.00	19.15	18.98	0.00	19.50	19.87	19.86	19.89	0.00	20.25
		12	0	19.00	19.02	18.91	0.00	19.50	19.71	19.61	19.84	0.05	20.20
		12	7	18.97	19.04	19.09	0.00	19.50	19.75	19.64	19.77	0.05	20.20
		12	13	19.14	19.00	18.97	0.00	19.50	19.63	19.83	19.71	0.05	20.20
		25	0	19.16	18.91	19.16	0.00	19.50	19.77	19.77	19.63	0.05	20.20
	64QAM	1	0	18.91	18.96	19.10	0.00	19.50	19.89	19.65	19.70	0.05	20.20
		1	12	19.01	19.05	19.17	0.00	19.50	19.64	19.87	19.73	0.05	20.20
		1	24	19.14	19.13	19.00	0.00	19.50	19.65	19.63	19.68	0.05	20.20
		12	0	18.68	18.89	18.89	0.30	19.20	18.69	18.80	18.71	1.05	19.20
		12	7	18.87	18.89	18.89	0.30	19.20	18.70	18.68	18.85	1.05	19.20
		12	13	18.78	18.67	18.73	0.30	19.20	18.75	18.68	18.70	1.05	19.20
		25	0	18.73	18.84	18.66	0.30	19.20	18.62	18.63	18.61	1.05	19.20
	256QAM	1	0	16.75	16.71	16.83	2.30	17.20	16.59	16.43	16.59	3.05	17.20
		1	12	16.83	16.80	16.82	2.30	17.20	16.60	16.49	16.61	3.05	17.20
		1	24	16.81	16.72	16.60	2.30	17.20	16.58	16.45	16.52	3.05	17.20
		12	0	16.77	16.84	16.84	2.30	17.20	16.58	16.38	16.42	3.05	17.20
		12	7	16.60	16.64	16.77	2.30	17.20	16.48	16.40	16.46	3.05	17.20
		12	13	16.70	16.67	16.71	2.30	17.20	16.49	16.56	16.48	3.05	17.20
		25	0	16.67	16.89	16.78	2.30	17.20	16.48	16.57	16.59	3.05	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		24.91		0.00	25.70		24.91		0.00	25.70		
		1	25		24.92		0.00	25.70		24.92		0.00	25.70		
		1	49		24.73		0.00	25.70		24.73		0.00	25.70		
		25	0		23.93		1.00	24.70		23.93		1.00	24.70		
		25	12		24.18		1.00	24.70		24.18		1.00	24.70		
		25	25		24.17		1.00	24.70		24.17		1.00	24.70		
	16QAM	50	0		24.16		1.00	24.70		24.16		1.00	24.70		
		1	0		24.00		1.00	24.70		24.00		1.00	24.70		
		1	25		23.97		1.00	24.70		23.97		1.00	24.70		
		1	49		24.19		1.00	24.70		24.19		1.00	24.70		
		25	0		22.99		2.00	23.70		22.99		2.00	23.70		
		25	12		22.91		2.00	23.70		22.91		2.00	23.70		
	64QAM	25	25		22.99		2.00	23.70		22.99		2.00	23.70		
		50	0		23.19		2.00	23.70		23.19		2.00	23.70		
		1	0		22.98		2.00	23.70		22.98		2.00	23.70		
		1	25		23.13		2.00	23.70		23.13		2.00	23.70		
		1	49		23.10		2.00	23.70		23.10		2.00	23.70		
		25	0		21.95		3.00	22.70		21.95		3.00	22.70		
	256QAM	25	12		22.15		3.00	22.70		22.15		3.00	22.70		
		25	25		22.16		3.00	22.70		22.16		3.00	22.70		
		50	0		21.99		3.00	22.70		21.99		3.00	22.70		
		1	0		19.91		5.00	20.70		19.91		5.00	20.70		
		1	25		19.96		5.00	20.70		19.96		5.00	20.70		
		1	49		20.01		5.00	20.70		20.01		5.00	20.70		
5 MHz	QPSK	25	0		20.10		5.00	20.70		20.10		5.00	20.70		
		25	12		20.08		5.00	20.70		20.08		5.00	20.70		
		25	25		20.19		5.00	20.70		20.19		5.00	20.70		
		50	0		20.01		5.00	20.70		20.01		5.00	20.70		
		16QAM	1	0		24.85	24.81	24.78	0.00	25.70	24.85	24.81	24.78	0.00	25.70
			1	12		24.89	24.76	24.79	0.00	25.70	24.89	24.76	24.79	0.00	25.70
	1		24		24.97	24.80	24.94	0.00	25.70	24.97	24.80	24.94	0.00	25.70	
	12		0		23.71	23.83	23.79	1.00	24.70	23.71	23.83	23.79	1.00	24.70	
	12		7		23.94	23.81	23.78	1.00	24.70	23.94	23.81	23.78	1.00	24.70	
	12		13		23.72	23.80	23.81	1.00	24.70	23.72	23.80	23.81	1.00	24.70	
	64QAM	25	0		23.76	23.77	23.99	1.00	24.70	23.76	23.77	23.99	1.00	24.70	
		1	0		23.79	23.91	23.78	1.00	24.70	23.79	23.91	23.78	1.00	24.70	
		1	12		23.76	23.98	23.75	1.00	24.70	23.76	23.98	23.75	1.00	24.70	
		1	24		23.85	23.88	23.99	1.00	24.70	23.85	23.88	23.99	1.00	24.70	
		12	0		22.80	22.84	22.79	2.00	23.70	22.80	22.84	22.79	2.00	23.70	
		12	7		22.86	22.73	22.80	2.00	23.70	22.86	22.73	22.80	2.00	23.70	
	256QAM	12	13		22.99	22.76	22.83	2.00	23.70	22.99	22.76	22.83	2.00	23.70	
		25	0		22.95	22.86	22.99	2.00	23.70	22.95	22.86	22.99	2.00	23.70	
		1	0		22.75	22.90	22.83	2.00	23.70	22.75	22.90	22.83	2.00	23.70	
		1	12		22.74	22.83	22.77	2.00	23.70	22.74	22.83	22.77	2.00	23.70	
		1	24		22.72	22.73	22.77	2.00	23.70	22.72	22.73	22.77	2.00	23.70	
		12	0		21.84	21.78	21.76	3.00	22.70	21.84	21.78	21.76	3.00	22.70	
	64QAM	12	7		21.89	21.96	21.71	3.00	22.70	21.89	21.96	21.71	3.00	22.70	
		12	13		21.79	22.00	21.94	3.00	22.70	21.79	22.00	21.94	3.00	22.70	
		25	0		21.82	21.76	21.84	3.00	22.70	21.82	21.76	21.84	3.00	22.70	
	256QAM	1	0		19.95	19.72	19.80	5.00	20.70	19.95	19.72	19.80	5.00	20.70	
		1	12		19.71	19.76	19.92	5.00	20.70	19.71	19.76	19.92	5.00	20.70	
		1	24		19.92	19.95	19.93	5.00	20.70	19.92	19.95	19.93	5.00	20.70	
		12	0		19.76	19.92	19.71	5.00	20.70	19.76	19.92	19.71	5.00	20.70	
		12	7		19.78	19.95	19.97	5.00	20.70	19.78	19.95	19.97	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	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	24.77	24.94	24.73	0.00	25.70	24.77	24.94	24.73	0.00	25.70
		1	8	24.75	24.76	24.95	0.00	25.70	24.75	24.76	24.95	0.00	25.70
		1	14	24.73	24.99	24.92	0.00	25.70	24.73	24.99	24.92	0.00	25.70
		8	0	23.78	23.78	23.96	1.00	24.70	23.78	23.78	23.96	1.00	24.70
		8	4	23.80	23.94	23.77	1.00	24.70	23.80	23.94	23.77	1.00	24.70
		8	7	23.82	23.73	23.83	1.00	24.70	23.82	23.73	23.83	1.00	24.70
		15	0	23.95	23.76	23.84	1.00	24.70	23.95	23.76	23.84	1.00	24.70
	16QAM	1	0	23.90	23.92	23.81	1.00	24.70	23.90	23.92	23.81	1.00	24.70
		1	8	23.84	23.87	23.98	1.00	24.70	23.84	23.87	23.98	1.00	24.70
		1	14	23.91	23.98	23.98	1.00	24.70	23.91	23.98	23.98	1.00	24.70
		8	0	22.83	22.83	22.72	2.00	23.70	22.83	22.83	22.72	2.00	23.70
		8	4	22.91	22.99	22.75	2.00	23.70	22.91	22.99	22.75	2.00	23.70
		8	7	22.86	22.71	22.75	2.00	23.70	22.86	22.71	22.75	2.00	23.70
		15	0	22.86	22.80	22.80	2.00	23.70	22.86	22.80	22.80	2.00	23.70
	64QAM	1	0	22.79	22.93	22.72	2.00	23.70	22.79	22.93	22.72	2.00	23.70
		1	8	22.74	22.80	22.88	2.00	23.70	22.74	22.80	22.88	2.00	23.70
		1	14	22.95	22.71	22.88	2.00	23.70	22.95	22.71	22.88	2.00	23.70
		8	0	21.72	21.93	21.87	3.00	22.70	21.72	21.93	21.87	3.00	22.70
		8	4	21.76	21.72	21.78	3.00	22.70	21.76	21.72	21.78	3.00	22.70
		8	7	21.71	21.85	21.91	3.00	22.70	21.71	21.85	21.91	3.00	22.70
		15	0	21.88	21.75	21.93	3.00	22.70	21.88	21.75	21.93	3.00	22.70
	256QAM	1	0	19.92	19.80	19.78	5.00	20.70	19.92	19.80	19.78	5.00	20.70
		1	8	19.77	19.98	19.98	5.00	20.70	19.77	19.98	19.98	5.00	20.70
		1	14	19.87	19.74	19.85	5.00	20.70	19.87	19.74	19.85	5.00	20.70
		8	0	19.84	19.86	19.79	5.00	20.70	19.84	19.86	19.79	5.00	20.70
		8	4	19.82	19.86	19.90	5.00	20.70	19.82	19.86	19.90	5.00	20.70
		8	7	19.94	19.81	19.76	5.00	20.70	19.94	19.81	19.76	5.00	20.70
		15	0	19.97	19.71	19.98	5.00	20.70	19.97	19.71	19.98	5.00	20.70
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				23017	23095	23173	MPR	Tune-up Limit	23017	23095	23173	MPR	Tune-up Limit
				699.7 MHz	707.5 MHz	715.3 MHz			699.7 MHz	707.5 MHz	715.3 MHz		
1.4 MHz	QPSK	1	0	24.82	24.91	24.94	0.00	25.70	24.82	24.91	24.94	0.00	25.70
		1	3	24.83	24.73	24.90	0.00	25.70	24.83	24.73	24.90	0.00	25.70
		1	5	24.96	24.75	24.89	0.00	25.70	24.96	24.75	24.89	0.00	25.70
		3	0	23.76	23.90	23.85	0.00	24.70	23.76	23.90	23.85	0.00	24.70
		3	1	23.87	23.89	23.99	0.00	24.70	23.87	23.89	23.99	0.00	24.70
		3	3	23.89	23.87	23.96	0.00	24.70	23.89	23.87	23.96	0.00	24.70
		6	0	23.76	23.70	23.71	1.00	24.70	23.76	23.70	23.71	1.00	24.70
	16QAM	1	0	23.77	23.81	23.96	1.00	24.70	23.77	23.81	23.96	1.00	24.70
		1	3	23.87	23.94	23.73	1.00	24.70	23.87	23.94	23.73	1.00	24.70
		1	5	23.91	23.85	23.71	1.00	24.70	23.91	23.85	23.71	1.00	24.70
		3	0	22.95	22.86	22.74	1.00	23.70	22.95	22.86	22.74	1.00	23.70
		3	1	22.90	22.97	22.73	1.00	23.70	22.90	22.97	22.73	1.00	23.70
		3	3	22.89	22.89	22.95	1.00	23.70	22.89	22.89	22.95	1.00	23.70
		6	0	22.89	22.98	22.95	2.00	23.70	22.89	22.98	22.95	2.00	23.70
	64QAM	1	0	22.73	22.83	22.71	2.00	23.70	22.73	22.83	22.71	2.00	23.70
		1	3	23.00	22.80	22.72	2.00	23.70	23.00	22.80	22.72	2.00	23.70
		1	5	22.81	22.93	22.99	2.00	23.70	22.81	22.93	22.99	2.00	23.70
		3	0	21.92	21.96	21.73	2.00	22.70	21.92	21.96	21.73	2.00	22.70
		3	1	21.93	21.87	21.84	2.00	22.70	21.93	21.87	21.84	2.00	22.70
		3	3	21.98	21.89	21.98	2.00	22.70	21.98	21.89	21.98	2.00	22.70
		6	0	21.94	21.73	21.75	3.00	22.70	21.94	21.73	21.75	3.00	22.70
	256QAM	1	0	19.86	19.94	19.96	5.00	20.70	19.86	19.94	19.96	5.00	20.70
		1	3	19.72	19.93	19.79	5.00	20.70	19.72	19.93	19.79	5.00	20.70
		1	5	19.74	19.89	19.73	5.00	20.70	19.74	19.89	19.73	5.00	20.70
		3	0	19.98	19.91	19.90	5.00	20.70	19.98	19.91	19.90	5.00	20.70
		3	1	19.81	19.84	19.96	5.00	20.70	19.81	19.84	19.96	5.00	20.70
		3	3	19.94	19.73	19.88	5.00	20.70	19.94	19.73	19.88	5.00	20.70
		6	0	19.90	19.83	19.91	5.00	20.70	19.90	19.83	19.91	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		24.33		0.00	24.50		24.33		0.00	24.50
		1	25		24.45		0.00	24.50		24.45		0.00	24.50
		1	49		24.41		0.00	24.50		24.41		0.00	24.50
		25	0		23.28		1.00	23.50		23.28		1.00	23.50
		25	12		23.45		1.00	23.50		23.45		1.00	23.50
		25	25		23.43		1.00	23.50		23.43		1.00	23.50
	16QAM	50	0		23.32		1.00	23.50		23.32		1.00	23.50
		1	0		23.37		1.00	23.50		23.37		1.00	23.50
		1	25		23.33		1.00	23.50		23.33		1.00	23.50
		1	49		23.40		1.00	23.50		23.40		1.00	23.50
		25	0		22.49		2.00	22.50		22.49		2.00	22.50
		25	12		22.29		2.00	22.50		22.29		2.00	22.50
	64QAM	25	25		22.39		2.00	22.50		22.39		2.00	22.50
		50	0		22.25		2.00	22.50		22.25		2.00	22.50
		1	0		22.21		2.00	22.50		22.21		2.00	22.50
		1	25		22.36		2.00	22.50		22.36		2.00	22.50
		1	49		22.35		2.00	22.50		22.35		2.00	22.50
		25	0		21.50		3.00	21.50		21.50		3.00	21.50
	256QAM	25	12		21.44		3.00	21.50		21.44		3.00	21.50
		25	25		21.30		3.00	21.50		21.30		3.00	21.50
		50	0		21.36		3.00	21.50		21.36		3.00	21.50
		1	0		19.25		5.00	19.50		19.25		5.00	19.50
		1	25		19.43		5.00	19.50		19.43		5.00	19.50
		1	49		19.28		5.00	19.50		19.28		5.00	19.50
5 MHz	QPSK	25	0		19.23		5.00	19.50		19.23		5.00	19.50
		25	12		19.42		5.00	19.50		19.42		5.00	19.50
		25	25		19.39		5.00	19.50		19.39		5.00	19.50
		50	0		19.35		5.00	19.50		19.35		5.00	19.50
		1	0	24.08	24.28	24.28	0.00	24.50	24.08	24.28	24.28	0.00	24.50
		1	12	24.07	24.24	24.11	0.00	24.50	24.07	24.24	24.11	0.00	24.50
	16QAM	1	24	24.29	24.09	24.12	0.00	24.50	24.29	24.09	24.12	0.00	24.50
		12	0	23.19	23.13	23.01	1.00	23.50	23.19	23.13	23.01	1.00	23.50
		12	7	23.21	23.11	23.22	1.00	23.50	23.21	23.11	23.22	1.00	23.50
		12	13	23.04	23.08	23.23	1.00	23.50	23.04	23.08	23.23	1.00	23.50
		25	0	23.01	23.29	23.17	1.00	23.50	23.01	23.29	23.17	1.00	23.50
		1	0	23.15	23.10	23.12	1.00	23.50	23.15	23.10	23.12	1.00	23.50
	64QAM	1	12	23.20	23.16	23.07	1.00	23.50	23.20	23.16	23.07	1.00	23.50
		1	24	23.26	23.14	23.11	1.00	23.50	23.26	23.14	23.11	1.00	23.50
		12	0	22.25	22.28	22.07	2.00	22.50	22.25	22.28	22.07	2.00	22.50
		12	7	22.12	22.26	22.21	2.00	22.50	22.12	22.26	22.21	2.00	22.50
		12	13	22.11	22.07	22.30	2.00	22.50	22.11	22.07	22.30	2.00	22.50
		25	0	22.12	22.27	22.19	2.00	22.50	22.12	22.27	22.19	2.00	22.50
	256QAM	1	0	22.30	22.09	22.07	2.00	22.50	22.30	22.09	22.07	2.00	22.50
		1	12	22.27	22.12	22.11	2.00	22.50	22.27	22.12	22.11	2.00	22.50
		1	24	22.14	22.08	22.06	2.00	22.50	22.14	22.08	22.06	2.00	22.50
		12	0	21.13	21.17	21.04	3.00	21.50	21.13	21.17	21.04	3.00	21.50
		12	7	21.03	21.28	21.08	3.00	21.50	21.03	21.28	21.08	3.00	21.50
		12	13	21.16	21.02	21.03	3.00	21.50	21.16	21.02	21.03	3.00	21.50
	25	0	21.21	21.21	21.22	3.00	21.50	21.21	21.21	21.22	3.00	21.50	
	1	0	19.28	19.08	19.14	5.00	19.50	19.28	19.08	19.14	5.00	19.50	
	1	12	19.10	19.05	19.09	5.00	19.50	19.10	19.05	19.09	5.00	19.50	
	1	24	19.26	19.19	19.25	5.00	19.50	19.26	19.19	19.25	5.00	19.50	
	12	0	19.05	19.26	19.18	5.00	19.50	19.05	19.26	19.18	5.00	19.50	
	12	7	19.04	19.08	19.04	5.00	19.50	19.04	19.08	19.04	5.00	19.50	
	12	13	19.29	19.03	19.19	5.00	19.50	19.29	19.03	19.19	5.00	19.50	
	25	0	19.22	19.23	19.08	5.00	19.50	19.22	19.23	19.08	5.00	19.50	

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	24.17	24.14	24.30	0.00	24.50	24.17	24.14	24.30	0.00	24.50
		1	8	24.11	24.04	24.16	0.00	24.50	24.11	24.04	24.16	0.00	24.50
		1	14	24.28	24.08	24.02	0.00	24.50	24.28	24.08	24.02	0.00	24.50
		8	0	23.03	23.04	23.23	1.00	23.50	23.03	23.04	23.23	1.00	23.50
		8	4	23.20	23.20	23.11	1.00	23.50	23.20	23.20	23.11	1.00	23.50
		8	7	23.17	23.12	23.03	1.00	23.50	23.17	23.12	23.03	1.00	23.50
	16QAM	15	0	23.14	23.16	23.18	1.00	23.50	23.14	23.16	23.18	1.00	23.50
		1	0	23.01	23.25	23.13	1.00	23.50	23.01	23.25	23.13	1.00	23.50
		1	8	23.16	23.23	23.16	1.00	23.50	23.16	23.23	23.16	1.00	23.50
		1	14	23.11	23.19	23.26	1.00	23.50	23.11	23.19	23.26	1.00	23.50
		8	0	22.22	22.16	22.22	2.00	22.50	22.22	22.16	22.22	2.00	22.50
		8	4	22.00	22.28	22.05	2.00	22.50	22.00	22.28	22.05	2.00	22.50
	64QAM	8	7	22.03	22.14	22.19	2.00	22.50	22.03	22.14	22.19	2.00	22.50
		15	0	22.18	22.03	22.01	2.00	22.50	22.18	22.03	22.01	2.00	22.50
		1	0	22.16	22.19	22.26	2.00	22.50	22.16	22.19	22.26	2.00	22.50
		1	8	22.07	22.30	22.25	2.00	22.50	22.07	22.30	22.25	2.00	22.50
		1	14	22.14	22.15	22.05	2.00	22.50	22.14	22.15	22.05	2.00	22.50
		8	0	21.07	21.16	21.18	3.00	21.50	21.07	21.16	21.18	3.00	21.50
	256QAM	8	4	21.03	21.02	21.03	3.00	21.50	21.03	21.02	21.03	3.00	21.50
		8	7	21.14	21.03	21.01	3.00	21.50	21.14	21.03	21.01	3.00	21.50
		15	0	21.08	21.25	21.18	3.00	21.50	21.08	21.25	21.18	3.00	21.50
		1	0	19.23	19.17	19.10	5.00	19.50	19.23	19.17	19.10	5.00	19.50
		1	8	19.15	19.13	19.05	5.00	19.50	19.15	19.13	19.05	5.00	19.50
		1	14	19.20	19.23	19.00	5.00	19.50	19.20	19.23	19.00	5.00	19.50
		8	0	19.19	19.17	19.28	5.00	19.50	19.19	19.17	19.28	5.00	19.50
		8	4	19.07	19.27	19.19	5.00	19.50	19.07	19.27	19.19	5.00	19.50
		8	7	19.26	19.28	19.18	5.00	19.50	19.26	19.28	19.18	5.00	19.50
		15	0	19.11	19.24	19.29	5.00	19.50	19.11	19.24	19.29	5.00	19.50
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				23017	23095	23173	MPR	Tune-up Limit	23017	23095	23173	MPR	Tune-up Limit
				699.7 MHz	707.5 MHz	715.3 MHz			699.7 MHz	707.5 MHz	715.3 MHz		
1.4 MHz	QPSK	1	0	24.01	24.25	24.05	0.00	24.50	24.01	24.25	24.05	0.00	24.50
		1	3	24.19	24.15	24.23	0.00	24.50	24.19	24.15	24.23	0.00	24.50
		1	5	24.11	24.08	24.24	0.00	24.50	24.11	24.08	24.24	0.00	24.50
		3	0	23.06	23.28	23.27	0.00	23.50	23.06	23.28	23.27	0.00	23.50
		3	1	23.15	23.04	23.15	0.00	23.50	23.15	23.04	23.15	0.00	23.50
		3	3	23.18	23.01	23.28	0.00	23.50	23.18	23.01	23.28	0.00	23.50
	16QAM	6	0	23.23	23.10	23.04	1.00	23.50	23.23	23.10	23.04	1.00	23.50
		1	0	23.24	23.29	23.05	1.00	23.50	23.24	23.29	23.05	1.00	23.50
		1	3	23.26	23.12	23.13	1.00	23.50	23.26	23.12	23.13	1.00	23.50
		1	5	23.16	23.25	23.08	1.00	23.50	23.16	23.25	23.08	1.00	23.50
		3	0	22.10	22.10	22.07	1.00	22.50	22.10	22.10	22.07	1.00	22.50
		3	1	22.08	22.28	22.28	1.00	22.50	22.08	22.28	22.28	1.00	22.50
	64QAM	3	3	22.25	22.28	22.07	1.00	22.50	22.25	22.28	22.07	1.00	22.50
		6	0	22.28	22.20	22.01	2.00	22.50	22.28	22.20	22.01	2.00	22.50
		1	0	22.10	22.02	22.09	2.00	22.50	22.10	22.02	22.09	2.00	22.50
		1	3	22.23	22.01	22.18	2.00	22.50	22.23	22.01	22.18	2.00	22.50
		1	5	22.18	22.08	22.25	2.00	22.50	22.18	22.08	22.25	2.00	22.50
		3	0	21.28	21.04	21.09	2.00	21.50	21.28	21.04	21.09	2.00	21.50
	256QAM	3	1	21.27	21.01	21.12	2.00	21.50	21.27	21.01	21.12	2.00	21.50
		3	3	21.01	21.18	21.25	2.00	21.50	21.01	21.18	21.25	2.00	21.50
		6	0	21.11	21.20	21.17	3.00	21.50	21.11	21.20	21.17	3.00	21.50
		1	0	19.02	19.15	19.04	5.00	19.50	19.02	19.15	19.04	5.00	19.50
		1	3	19.02	19.07	19.13	5.00	19.50	19.02	19.07	19.13	5.00	19.50
		1	5	19.01	19.08	19.24	5.00	19.50	19.01	19.08	19.24	5.00	19.50
		3	0	19.17	19.03	19.04	5.00	19.50	19.17	19.03	19.04	5.00	19.50
		3	1	19.09	19.19	19.03	5.00	19.50	19.09	19.19	19.03	5.00	19.50
		3	3	19.10	19.01	19.20	5.00	19.50	19.10	19.01	19.20	5.00	19.50
		6	0	19.13	19.18	19.17	5.00	19.50	19.13	19.18	19.17	5.00	19.50

LTE Band 13 Measured Results (ANT1)

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		25.00		0.00	25.70		25.00		0.00	25.70
		1	25		25.40		0.00	25.70		25.40		0.00	25.70
		1	49		25.08		0.00	25.70		25.08		0.00	25.70
		25	0		24.08		1.00	24.70		24.08		1.00	24.70
		25	12		24.20		1.00	24.70		24.20		1.00	24.70
		25	25		23.95		1.00	24.70		23.95		1.00	24.70
	16QAM	50	0		23.98		1.00	24.70		23.98		1.00	24.70
		1	0		24.07		1.00	24.70		24.07		1.00	24.70
		1	25		23.98		1.00	24.70		23.98		1.00	24.70
		1	49		24.11		1.00	24.70		24.11		1.00	24.70
		25	0		23.05		2.00	23.70		23.05		2.00	23.70
		25	12		22.99		2.00	23.70		22.99		2.00	23.70
	64QAM	25	25		23.17		2.00	23.70		23.17		2.00	23.70
		50	0		23.14		2.00	23.70		23.14		2.00	23.70
		1	0		23.13		2.00	23.70		23.13		2.00	23.70
		1	25		22.99		2.00	23.70		22.99		2.00	23.70
		1	49		23.16		2.00	23.70		23.16		2.00	23.70
		25	0		21.95		3.00	22.70		21.95		3.00	22.70
	256QAM	25	12		22.01		3.00	22.70		22.01		3.00	22.70
		25	25		22.09		3.00	22.70		22.09		3.00	22.70
		50	0		21.99		3.00	22.70		21.99		3.00	22.70
		1	0		19.96		5.00	20.70		19.96		5.00	20.70
		1	25		20.08		5.00	20.70		20.08		5.00	20.70
		1	49		19.96		5.00	20.70		19.96		5.00	20.70
5 MHz	QPSK	25	0		20.03		5.00	20.70		20.03		5.00	20.70
		25	12		19.98		5.00	20.70		19.98		5.00	20.70
		25	25		19.93		5.00	20.70		19.93		5.00	20.70
		50	0		20.08		5.00	20.70		20.08		5.00	20.70
		1	0		25.01		0.00	25.70		25.01		0.00	25.70
		1	12		25.02		0.00	25.70		25.02		0.00	25.70
	16QAM	1	24		25.15		0.00	25.70		25.15		0.00	25.70
		12	0		24.07		1.00	24.70		24.07		1.00	24.70
		12	7		23.98		1.00	24.70		23.98		1.00	24.70
		12	13		23.94		1.00	24.70		23.94		1.00	24.70
		25	0		24.06		1.00	24.70		24.06		1.00	24.70
		1	0		24.15		1.00	24.70		24.15		1.00	24.70
	64QAM	1	12		24.07		1.00	24.70		24.07		1.00	24.70
		1	24		23.92		1.00	24.70		23.92		1.00	24.70
		12	0		22.94		2.00	23.70		22.94		2.00	23.70
		12	7		22.94		2.00	23.70		22.94		2.00	23.70
		12	13		23.01		2.00	23.70		23.01		2.00	23.70
		25	0		23.00		2.00	23.70		23.00		2.00	23.70
	256QAM	1	0		23.14		2.00	23.70		23.14		2.00	23.70
		1	12		22.98		2.00	23.70		22.98		2.00	23.70
		1	24		23.19		2.00	23.70		23.19		2.00	23.70
		12	0		22.01		3.00	22.70		22.01		3.00	22.70
		12	7		22.02		3.00	22.70		22.02		3.00	22.70
		12	13		22.10		3.00	22.70		22.10		3.00	22.70
25		0		21.92		3.00	22.70		21.92		3.00	22.70	
1		0		19.91		5.00	20.70		19.91		5.00	20.70	
1		12		19.92		5.00	20.70		19.92		5.00	20.70	
1		24		19.91		5.00	20.70		19.91		5.00	20.70	
12		0		19.99		5.00	20.70		19.99		5.00	20.70	
12		7		20.18		5.00	20.70		20.18		5.00	20.70	
12	13		19.92		5.00	20.70		19.92		5.00	20.70		
25	0		19.90		5.00	20.70		19.90		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	24.22	0.00	24.50		24.22	0.00	24.50	
		1	25	24.50	0.00	24.50		24.50	0.00	24.50	
		1	49	24.46	0.00	24.50		24.46	0.00	24.50	
		25	0	23.48	1.00	23.50		23.48	1.00	23.50	
		25	12	23.50	1.00	23.50		23.50	1.00	23.50	
		25	25	23.27	1.00	23.50		23.27	1.00	23.50	
	16QAM	50	0	23.36	1.00	23.50		23.36	1.00	23.50	
		1	0	23.44	1.00	23.50		23.44	1.00	23.50	
		1	25	23.48	1.00	23.50		23.48	1.00	23.50	
		1	49	23.40	1.00	23.50		23.40	1.00	23.50	
		25	0	22.50	2.00	22.50		22.50	2.00	22.50	
		25	12	22.38	2.00	22.50		22.38	2.00	22.50	
	64QAM	25	25	22.29	2.00	22.50		22.29	2.00	22.50	
		50	0	22.37	2.00	22.50		22.37	2.00	22.50	
		1	0	22.22	2.00	22.50		22.22	2.00	22.50	
		1	25	22.27	2.00	22.50		22.27	2.00	22.50	
		1	49	22.39	2.00	22.50		22.39	2.00	22.50	
		25	0	21.20	3.00	21.50		21.20	3.00	21.50	
	256QAM	25	12	21.49	3.00	21.50		21.49	3.00	21.50	
		25	25	21.48	3.00	21.50		21.48	3.00	21.50	
		50	0	21.22	3.00	21.50		21.22	3.00	21.50	
		1	0	19.32	5.00	19.50		19.32	5.00	19.50	
		1	25	19.20	5.00	19.50		19.20	5.00	19.50	
		1	49	19.32	5.00	19.50		19.32	5.00	19.50	
5 MHz	QPSK	25	0	19.46	5.00	19.50		19.46	5.00	19.50	
		25	12	19.31	5.00	19.50		19.31	5.00	19.50	
		25	25	19.25	5.00	19.50		19.25	5.00	19.50	
		50	0	19.21	5.00	19.50		19.21	5.00	19.50	
	16QAM	1	0	24.42	0.00	24.50		24.42	0.00	24.50	
		1	12	24.33	0.00	24.50		24.33	0.00	24.50	
		1	24	24.41	0.00	24.50		24.41	0.00	24.50	
		12	0	23.44	1.00	23.50		23.44	1.00	23.50	
		12	7	23.46	1.00	23.50		23.46	1.00	23.50	
		12	13	23.34	1.00	23.50		23.34	1.00	23.50	
	64QAM	25	0	23.47	1.00	23.50		23.47	1.00	23.50	
		1	0	23.40	1.00	23.50		23.40	1.00	23.50	
		1	12	23.37	1.00	23.50		23.37	1.00	23.50	
		1	24	23.42	1.00	23.50		23.42	1.00	23.50	
		12	0	22.27	2.00	22.50		22.27	2.00	22.50	
		12	7	22.47	2.00	22.50		22.47	2.00	22.50	
	256QAM	12	13	22.45	2.00	22.50		22.45	2.00	22.50	
		25	0	22.39	2.00	22.50		22.39	2.00	22.50	
		1	0	22.31	2.00	22.50		22.31	2.00	22.50	
		1	12	22.24	2.00	22.50		22.24	2.00	22.50	
		1	24	22.38	2.00	22.50		22.38	2.00	22.50	
		12	0	21.36	3.00	21.50		21.36	3.00	21.50	
	256QAM	12	7	21.47	3.00	21.50		21.47	3.00	21.50	
		12	13	21.27	3.00	21.50		21.27	3.00	21.50	
		25	0	21.33	3.00	21.50		21.33	3.00	21.50	
		1	0	19.36	5.00	19.50		19.36	5.00	19.50	
		1	12	19.48	5.00	19.50		19.48	5.00	19.50	
		1	24	19.46	5.00	19.50		19.46	5.00	19.50	
	256QAM	12	0	19.38	5.00	19.50		19.38	5.00	19.50	
		12	7	19.41	5.00	19.50		19.41	5.00	19.50	
		12	13	19.31	5.00	19.50		19.31	5.00	19.50	
		25	0	19.48	5.00	19.50		19.48	5.00	19.50	

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	25.25	25.28	25.45	0.00	25.70	16.76	16.97	16.82	0.00	17.50
		1	49	25.30	25.54	25.50	0.00	25.70	17.10	17.10	17.10	0.00	17.50
		1	99	25.29	25.50	25.45	0.00	25.70	16.95	16.77	17.00	0.00	17.50
		50	0	24.38	24.36	24.38	1.00	24.70	16.83	16.80	17.02	0.00	17.50
		50	24	24.46	24.46	24.43	1.00	24.70	17.10	17.10	17.10	0.00	17.50
		50	50	24.36	24.42	24.39	1.00	24.70	16.91	16.84	16.76	0.00	17.50
	16QAM	100	0	24.27	24.29	24.28	1.00	24.70	16.96	17.10	16.92	0.00	17.50
		1	0	24.46	24.23	24.38	1.00	24.70	16.91	16.79	16.98	0.00	17.50
		1	49	24.42	24.21	24.21	1.00	24.70	16.84	16.90	16.85	0.00	17.50
		1	99	24.47	24.23	24.28	1.00	24.70	16.99	16.89	16.89	0.00	17.50
		50	0	23.41	23.40	23.33	2.00	23.70	16.93	16.90	16.96	0.00	17.50
		50	24	23.38	23.40	23.38	2.00	23.70	16.79	16.91	16.84	0.00	17.50
	64QAM	50	50	23.49	23.33	23.28	2.00	23.70	17.04	16.92	16.95	0.00	17.50
		100	0	23.45	23.29	23.24	2.00	23.70	17.01	16.88	16.76	0.00	17.50
		1	0	23.27	23.43	23.44	2.00	23.70	16.79	16.81	16.77	0.00	17.50
		1	49	23.49	23.25	23.24	2.00	23.70	17.00	16.78	16.84	0.00	17.50
		1	99	23.34	23.44	23.33	2.00	23.70	17.01	16.80	16.92	0.00	17.50
		50	0	22.44	22.39	22.25	3.00	22.70	16.88	16.79	16.79	0.00	17.50
	256QAM	50	24	22.20	22.23	22.26	3.00	22.70	16.90	16.91	16.94	0.00	17.50
		50	50	22.44	22.43	22.46	3.00	22.70	16.82	17.04	16.81	0.00	17.50
		100	0	22.42	22.30	22.44	3.00	22.70	16.98	16.98	17.03	0.00	17.50
		1	0	20.38	20.34	20.39	5.00	20.70	16.83	16.81	16.83	0.00	17.50
		1	49	20.38	20.47	20.38	5.00	20.70	17.04	16.77	17.01	0.00	17.50
		1	99	20.27	20.48	20.28	5.00	20.70	16.79	16.83	16.89	0.00	17.50
		50	0	20.46	20.33	20.36	5.00	20.70	16.75	17.05	16.89	0.00	17.50
		50	24	20.21	20.47	20.27	5.00	20.70	16.96	16.80	17.04	0.00	17.50
		50	50	20.49	20.28	20.45	5.00	20.70	16.91	16.77	17.01	0.00	17.50
		100	0	20.29	20.34	20.26	5.00	20.70	16.91	16.75	16.82	0.00	17.50
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26115	26365	26615	MPR	Tune-up Limit	26115	26365	26615	MPR	Tune-up Limit
				1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz		
15 MHz	QPSK	1	0	25.21	25.06	25.07	0.00	25.70	16.81	16.89	16.97	0.00	17.50
		1	37	25.14	25.06	25.05	0.00	25.70	16.88	16.97	16.77	0.00	17.50
		1	74	25.27	25.09	25.20	0.00	25.70	16.92	16.81	16.92	0.00	17.50
		36	0	24.29	24.08	24.29	1.00	24.70	16.85	17.04	16.75	0.00	17.50
		36	20	24.06	24.01	24.17	1.00	24.70	16.89	17.00	16.93	0.00	17.50
		36	39	24.30	24.18	24.26	1.00	24.70	16.95	16.77	16.97	0.00	17.50
		75	0	24.23	24.20	24.21	1.00	24.70	16.78	16.80	16.78	0.00	17.50
	16QAM	1	0	24.25	24.22	24.12	1.00	24.70	16.98	16.93	16.81	0.00	17.50
		1	37	24.08	24.09	24.08	1.00	24.70	16.79	17.03	17.00	0.00	17.50
		1	74	24.20	24.15	24.15	1.00	24.70	16.93	17.04	16.87	0.00	17.50
		36	0	23.23	23.20	23.11	2.00	23.70	16.89	16.92	16.93	0.00	17.50
		36	20	23.22	23.24	23.02	2.00	23.70	16.89	16.95	17.05	0.00	17.50
		36	39	23.15	23.18	23.11	2.00	23.70	17.03	16.77	16.82	0.00	17.50
		75	0	23.02	23.16	23.25	2.00	23.70	16.92	16.85	16.88	0.00	17.50
	64QAM	1	0	23.07	23.01	23.02	2.00	23.70	17.03	16.87	17.04	0.00	17.50
		1	37	23.25	23.12	23.22	2.00	23.70	17.01	17.01	16.89	0.00	17.50
		1	74	23.27	23.28	23.06	2.00	23.70	17.02	16.88	16.98	0.00	17.50
		36	0	22.09	22.15	22.11	3.00	22.70	17.03	16.86	16.97	0.00	17.50
		36	20	22.05	22.21	22.29	3.00	22.70	16.84	16.98	16.76	0.00	17.50
		36	39	22.30	22.17	22.16	3.00	22.70	16.91	17.02	16.83	0.00	17.50
		75	0	22.11	22.06	22.20	3.00	22.70	16.82	16.97	16.99	0.00	17.50
	256QAM	1	0	20.10	20.08	20.20	5.00	20.70	16.84	16.98	16.94	0.00	17.50
		1	37	20.11	20.14	20.10	5.00	20.70	16.85	17.02	16.93	0.00	17.50
		1	74	20.07	20.01	20.03	5.00	20.70	16.83	16.91	16.85	0.00	17.50
		36	0	20.29	20.14	20.27	5.00	20.70	16.78	16.98	16.97	0.00	17.50
		36	20	20.15	20.03	20.10	5.00	20.70	16.99	17.03	16.85	0.00	17.50
		36	39	20.02	20.16	20.10	5.00	20.70	17.03	16.80	16.84	0.00	17.50
		75	0	20.09	20.02	20.06	5.00	20.70	16.96	16.97	16.91	0.00	17.50

LTE Band 25 Measured Results (ANT1) (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	25.10	25.12	25.30	0.00	25.70	17.04	16.75	16.96	0.00	17.50
		1	25	25.18	25.27	25.06	0.00	25.70	16.87	16.92	16.91	0.00	17.50
		1	49	25.08	25.12	25.19	0.00	25.70	17.03	16.81	16.83	0.00	17.50
		25	0	24.23	24.09	24.23	1.00	24.70	16.76	16.76	16.92	0.00	17.50
		25	12	24.12	24.07	24.04	1.00	24.70	16.96	17.03	16.80	0.00	17.50
		25	25	24.14	24.10	24.25	1.00	24.70	16.89	17.03	16.78	0.00	17.50
	16QAM	1	0	24.02	24.05	24.17	1.00	24.70	16.78	16.88	16.94	0.00	17.50
		1	25	24.16	24.24	24.14	1.00	24.70	16.83	16.97	16.80	0.00	17.50
		1	49	24.19	24.05	24.28	1.00	24.70	16.75	16.91	16.85	0.00	17.50
		25	0	23.06	23.22	23.06	2.00	23.70	17.02	17.03	16.75	0.00	17.50
		25	12	23.02	23.17	23.26	2.00	23.70	17.05	16.81	16.90	0.00	17.50
		25	25	23.22	23.08	23.10	2.00	23.70	16.96	16.89	16.93	0.00	17.50
	64QAM	1	0	23.22	23.17	23.29	2.00	23.70	16.94	17.01	17.04	0.00	17.50
		1	25	23.10	23.29	23.04	2.00	23.70	16.96	16.84	16.93	0.00	17.50
		1	49	23.02	23.23	23.09	2.00	23.70	16.84	16.76	16.97	0.00	17.50
		25	0	22.20	22.06	22.01	3.00	22.70	17.05	16.98	16.95	0.00	17.50
		25	12	22.25	22.20	22.06	3.00	22.70	16.83	17.01	17.00	0.00	17.50
		25	25	22.16	22.27	22.18	3.00	22.70	16.90	16.95	16.91	0.00	17.50
	256QAM	1	0	22.16	22.07	22.05	3.00	22.70	16.88	16.80	16.89	0.00	17.50
		1	25	20.02	20.27	20.09	5.00	20.70	16.95	16.98	17.03	0.00	17.50
		1	49	20.22	20.06	20.21	5.00	20.70	17.04	16.93	16.91	0.00	17.50
		25	0	20.05	20.17	20.29	5.00	20.70	16.98	16.83	16.77	0.00	17.50
		25	12	20.04	20.15	20.30	5.00	20.70	16.87	16.88	16.79	0.00	17.50
		25	25	20.07	20.20	20.16	5.00	20.70	16.89	16.95	16.84	0.00	17.50
5 MHz	QPSK	1	0	20.23	20.21	20.13	5.00	20.70	16.80	16.81	17.05	0.00	17.50
		1	25	20.25	20.15	20.24	5.00	20.70	17.03	16.96	17.02	0.00	17.50
	16QAM	1	0	25.15	25.22	25.08	0.00	25.70	16.88	16.97	16.83	0.00	17.50
		1	12	25.16	25.25	25.00	0.00	25.70	16.77	16.89	16.96	0.00	17.50
		1	24	25.04	25.24	25.27	0.00	25.70	16.85	17.03	16.86	0.00	17.50
		12	0	24.25	24.06	24.08	1.00	24.70	16.85	16.77	16.92	0.00	17.50
	64QAM	12	7	24.19	24.28	24.03	1.00	24.70	16.83	16.94	16.97	0.00	17.50
		12	13	24.19	24.06	24.18	1.00	24.70	16.98	16.94	16.84	0.00	17.50
		25	0	24.21	24.09	24.18	1.00	24.70	17.02	17.02	17.03	0.00	17.50
		1	0	24.19	24.26	24.04	1.00	24.70	17.03	16.99	17.00	0.00	17.50
		1	12	24.26	24.12	24.15	1.00	24.70	16.90	17.03	16.90	0.00	17.50
		1	24	24.28	24.01	24.07	1.00	24.70	17.02	16.83	16.93	0.00	17.50
	256QAM	12	0	23.09	23.27	23.17	2.00	23.70	17.01	16.94	16.89	0.00	17.50
		12	7	23.29	23.25	23.11	2.00	23.70	17.00	16.96	16.96	0.00	17.50
		12	13	23.07	23.07	23.06	2.00	23.70	16.95	17.00	16.81	0.00	17.50
		25	0	23.04	23.07	23.22	2.00	23.70	17.03	16.87	17.01	0.00	17.50
		1	0	23.02	23.28	23.27	2.00	23.70	17.05	16.91	16.90	0.00	17.50
		1	12	23.19	23.01	23.28	2.00	23.70	16.84	16.91	16.83	0.00	17.50
5 MHz	QPSK	1	24	23.06	23.18	23.13	2.00	23.70	16.77	16.83	16.88	0.00	17.50
		12	0	22.25	22.19	22.13	3.00	22.70	16.92	16.82	16.89	0.00	17.50
		12	7	22.04	22.11	22.18	3.00	22.70	16.98	17.03	16.91	0.00	17.50
		12	13	22.08	22.01	22.02	3.00	22.70	16.79	16.97	17.04	0.00	17.50
		25	0	22.01	22.26	22.00	3.00	22.70	17.00	16.86	16.93	0.00	17.50
		1	0	20.30	20.02	20.02	5.00	20.70	16.94	16.84	16.84	0.00	17.50
	16QAM	1	12	20.12	20.01	20.29	5.00	20.70	16.81	16.87	17.01	0.00	17.50
		1	24	20.02	20.08	20.26	5.00	20.70	16.85	16.76	16.90	0.00	17.50
		12	0	20.30	20.30	20.24	5.00	20.70	16.94	16.87	16.97	0.00	17.50
		12	7	20.00	20.02	20.05	5.00	20.70	16.95	16.83	16.98	0.00	17.50
		12	13	20.21	20.28	20.04	5.00	20.70	16.97	16.80	17.01	0.00	17.50
		25	0	20.19	20.15	20.12	5.00	20.70	16.78	16.94	16.78	0.00	17.50

LTE Band 25 Measured Results (ANT1) (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	25.29	25.20	25.22	0.00	25.70	17.03	16.81	16.93	0.00	17.50
		1	8	25.30	25.02	25.23	0.00	25.70	16.79	17.03	16.81	0.00	17.50
		1	14	25.15	25.07	25.30	0.00	25.70	16.79	16.88	16.82	0.00	17.50
		8	0	24.03	24.08	24.07	1.00	24.70	16.98	17.03	16.82	0.00	17.50
		8	4	24.13	24.22	24.11	1.00	24.70	16.89	17.00	17.03	0.00	17.50
		8	7	24.22	24.29	24.21	1.00	24.70	16.91	16.75	16.89	0.00	17.50
	16QAM	15	0	24.08	24.02	24.23	1.00	24.70	17.05	17.04	16.90	0.00	17.50
		1	0	24.06	24.04	24.09	1.00	24.70	17.02	16.78	16.81	0.00	17.50
		1	8	24.02	24.08	24.13	1.00	24.70	17.00	16.96	16.88	0.00	17.50
		1	14	24.22	24.08	24.18	1.00	24.70	16.98	16.80	16.81	0.00	17.50
		8	0	23.06	23.17	23.17	2.00	23.70	16.96	16.83	16.77	0.00	17.50
		8	4	23.13	23.21	23.20	2.00	23.70	16.87	16.94	16.82	0.00	17.50
	64QAM	8	7	23.08	23.27	23.02	2.00	23.70	16.93	16.80	16.75	0.00	17.50
		15	0	23.03	23.20	23.28	2.00	23.70	16.90	16.87	16.81	0.00	17.50
		1	0	23.07	23.22	23.07	2.00	23.70	16.91	16.95	16.80	0.00	17.50
		1	8	23.27	23.00	23.24	2.00	23.70	16.76	16.88	16.90	0.00	17.50
		1	14	23.24	23.21	23.23	2.00	23.70	16.89	16.89	16.82	0.00	17.50
		8	0	22.23	22.02	22.25	3.00	22.70	16.82	16.93	16.93	0.00	17.50
	256QAM	8	4	22.13	22.16	22.17	3.00	22.70	17.05	16.81	17.05	0.00	17.50
		8	7	22.18	22.24	22.15	3.00	22.70	17.03	16.94	16.79	0.00	17.50
		15	0	22.04	22.26	22.21	3.00	22.70	16.80	16.75	16.81	0.00	17.50
		1	0	20.04	20.00	20.11	5.00	20.70	17.02	17.04	16.76	0.00	17.50
		1	8	20.07	20.17	20.24	5.00	20.70	16.76	16.95	16.92	0.00	17.50
		1	14	20.18	20.30	20.12	5.00	20.70	16.85	16.75	16.96	0.00	17.50
1.4 MHz	QPSK	8	0	20.05	20.08	20.06	5.00	20.70	16.99	16.93	16.81	0.00	17.50
		8	4	20.29	20.16	20.03	5.00	20.70	16.92	17.01	16.82	0.00	17.50
		8	7	20.05	20.17	20.03	5.00	20.70	16.82	16.81	16.80	0.00	17.50
		15	0	20.04	20.17	20.24	5.00	20.70	16.82	16.86	16.91	0.00	17.50
		1	0	25.27	25.29	25.19	0.00	25.70	16.84	16.76	16.80	0.00	17.50
		1	3	25.15	25.16	25.18	0.00	25.70	16.98	16.97	16.88	0.00	17.50
	16QAM	1	5	25.01	25.21	25.11	0.00	25.70	16.79	17.02	16.95	0.00	17.50
		3	0	24.14	24.18	24.28	0.00	24.70	16.95	17.04	16.84	0.00	17.50
		3	1	24.21	24.15	24.24	0.00	24.70	16.95	16.76	16.98	0.00	17.50
		3	3	24.21	24.00	24.25	0.00	24.70	17.03	16.82	16.87	0.00	17.50
		6	0	24.09	24.19	24.11	1.00	24.70	16.97	16.89	16.87	0.00	17.50
		1	0	24.17	24.18	24.27	1.00	24.70	16.98	16.90	16.92	0.00	17.50
	64QAM	1	3	24.28	24.19	24.07	1.00	24.70	16.86	16.89	16.76	0.00	17.50
		1	5	24.21	24.02	24.06	1.00	24.70	16.97	16.96	16.96	0.00	17.50
		3	0	23.18	23.26	23.12	1.00	23.70	16.82	16.90	16.88	0.00	17.50
		3	1	23.21	23.16	23.10	1.00	23.70	17.03	16.80	16.75	0.00	17.50
		3	3	23.22	23.09	23.02	1.00	23.70	16.78	17.04	16.78	0.00	17.50
		6	0	23.19	23.14	23.01	2.00	23.70	16.85	17.01	17.01	0.00	17.50
	256QAM	1	0	23.24	23.13	23.04	2.00	23.70	16.79	17.04	16.87	0.00	17.50
		1	3	23.02	23.20	23.22	2.00	23.70	16.84	16.96	16.95	0.00	17.50
		1	5	23.15	23.21	23.25	2.00	23.70	16.95	17.02	16.94	0.00	17.50
		3	0	22.15	22.17	22.12	2.00	22.70	16.98	16.77	16.98	0.00	17.50
		3	1	22.01	22.13	22.00	2.00	22.70	16.89	17.00	16.96	0.00	17.50
		3	3	22.19	22.14	22.12	2.00	22.70	16.90	16.91	16.98	0.00	17.50
	256QAM	6	0	22.21	22.07	22.17	3.00	22.70	16.93	16.98	16.86	0.00	17.50
		1	0	20.07	20.09	20.03	5.00	20.70	16.92	16.98	16.85	0.00	17.50
		1	3	20.00	20.22	20.04	5.00	20.70	16.78	16.96	16.97	0.00	17.50
		1	5	20.24	20.09	20.05	5.00	20.70	16.93	16.82	17.00	0.00	17.50
		3	0	20.28	20.07	20.12	5.00	20.70	16.92	17.00	16.91	0.00	17.50
		3	1	20.12	20.25	20.12	5.00	20.70	16.80	16.90	16.92	0.00	17.50
	256QAM	3	3	20.23	20.25	20.19	5.00	20.70	16.89	16.78	16.76	0.00	17.50
		6	0	20.23	20.07	20.13	5.00	20.70	16.79	16.99	17.05	0.00	17.50

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	20.94	20.99	20.88	0.00	21.50	19.19	19.07	18.95	0.00	19.25
		1	49	20.98	21.05	20.99	0.00	21.50	19.20	19.15	19.12	0.00	19.25
		1	99	20.77	21.03	20.97	0.00	21.50	19.02	18.99	19.04	0.00	19.25
		50	0	21.05	20.99	20.81	0.00	21.50	19.08	18.99	18.94	0.00	19.25
		50	24	21.08	21.02	20.95	0.00	21.50	19.15	19.22	19.22	0.00	19.25
		50	50	20.80	20.87	20.93	0.00	21.50	19.12	18.99	19.20	0.00	19.25
	16QAM	100	0	20.93	20.99	20.97	0.00	21.50	19.19	19.21	19.07	0.00	19.25
		1	0	20.88	20.98	20.92	0.00	21.50	18.80	18.75	18.72	0.00	19.25
		1	49	20.90	20.94	20.90	0.00	21.50	18.75	18.92	18.85	0.00	19.25
		1	99	20.90	20.90	20.87	0.00	21.50	18.71	18.71	18.79	0.00	19.25
		50	0	20.67	20.50	20.56	0.40	21.10	18.73	18.80	18.83	0.00	19.25
		50	24	20.57	20.70	20.73	0.40	21.10	18.76	18.83	18.81	0.00	19.25
	64QAM	50	50	20.53	20.46	20.46	0.40	21.10	18.80	18.72	18.73	0.00	19.25
		100	0	20.51	20.63	20.74	0.40	21.10	18.67	18.72	18.92	0.00	19.25
		1	0	20.48	20.64	20.66	0.40	21.10	18.87	18.90	18.90	0.00	19.25
		1	49	20.74	20.71	20.70	0.40	21.10	18.73	18.80	18.66	0.00	19.25
		1	99	20.73	20.51	20.72	0.40	21.10	18.78	18.87	18.80	0.00	19.25
		50	0	19.74	19.62	19.71	1.40	20.10	18.78	18.85	18.67	0.00	19.25
	256QAM	50	24	19.56	19.59	19.47	1.40	20.10	18.86	18.64	18.71	0.00	19.25
		50	50	19.74	19.59	19.59	1.40	20.10	18.79	18.85	18.68	0.00	19.25
		100	0	19.54	19.63	19.73	1.40	20.10	18.69	18.85	18.84	0.00	19.25
		1	0	17.73	17.62	17.61	3.40	18.10	17.77	17.56	17.59	1.15	18.10
		1	49	17.65	17.54	17.59	3.40	18.10	17.52	17.60	17.74	1.15	18.10
		1	99	17.70	17.58	17.49	3.40	18.10	17.53	17.55	17.56	1.15	18.10
15 MHz	QPSK	50	0	17.65	17.50	17.49	3.40	18.10	17.53	17.70	17.55	1.15	18.10
		50	24	17.52	17.67	17.72	3.40	18.10	17.73	17.78	17.55	1.15	18.10
		50	50	17.67	17.73	17.72	3.40	18.10	17.52	17.75	17.74	1.15	18.10
		100	0	17.52	17.63	17.50	3.40	18.10	17.63	17.66	17.59	1.15	18.10
	16QAM	1	0	20.81	20.85	20.69	0.00	21.50	18.72	18.78	18.76	0.00	19.25
		1	37	20.64	20.70	20.73	0.00	21.50	18.82	18.69	18.86	0.00	19.25
		1	74	20.64	20.70	20.56	0.00	21.50	18.67	18.86	18.81	0.00	19.25
		36	0	20.59	20.75	20.82	0.00	21.50	18.66	18.77	18.64	0.00	19.25
		36	20	20.59	20.65	20.56	0.00	21.50	18.81	18.66	18.66	0.00	19.25
		36	39	20.70	20.61	20.72	0.00	21.50	18.83	18.92	18.88	0.00	19.25
	64QAM	75	0	20.56	20.66	20.56	0.00	21.50	18.92	18.85	18.90	0.00	19.25
		1	0	20.67	20.81	20.61	0.00	21.50	18.63	18.75	18.86	0.00	19.25
		1	37	20.76	20.80	20.62	0.00	21.50	18.80	18.73	18.73	0.00	19.25
		1	74	20.61	20.56	20.58	0.00	21.50	18.70	18.71	18.66	0.00	19.25
		36	0	20.44	20.31	20.27	0.40	21.10	18.92	18.81	18.75	0.00	19.25
		36	20	20.19	20.32	20.17	0.40	21.10	18.75	18.64	18.77	0.00	19.25
	256QAM	36	39	20.34	20.42	20.41	0.40	21.10	18.82	18.66	18.82	0.00	19.25
		75	0	20.16	20.35	20.33	0.40	21.10	18.85	18.90	18.69	0.00	19.25
		1	0	20.32	20.44	20.34	0.40	21.10	18.76	18.79	18.75	0.00	19.25
		1	37	20.20	20.38	20.36	0.40	21.10	18.90	18.78	18.90	0.00	19.25
		1	74	20.36	20.43	20.24	0.40	21.10	18.87	18.86	18.75	0.00	19.25
		36	0	19.31	19.27	19.32	1.40	20.10	18.83	18.74	18.65	0.00	19.25
	QPSK	36	20	19.28	19.33	19.42	1.40	20.10	18.63	18.77	18.90	0.00	19.25
		36	39	19.42	19.42	19.40	1.40	20.10	18.85	18.91	18.87	0.00	19.25
		75	0	19.32	19.28	19.45	1.40	20.10	18.77	18.69	18.91	0.00	19.25
	16QAM	1	0	17.20	17.26	17.41	3.40	18.10	17.55	17.56	17.71	1.15	18.10
		1	37	17.29	17.20	17.42	3.40	18.10	17.61	17.72	17.70	1.15	18.10
		1	74	17.32	17.16	17.18	3.40	18.10	17.57	17.66	17.69	1.15	18.10
	64QAM	36	0	17.27	17.32	17.28	3.40	18.10	17.55	17.54	17.59	1.15	18.10
		36	20	17.17	17.18	17.41	3.40	18.10	17.61	17.55	17.71	1.15	18.10
		36	39	17.38	17.38	17.40	3.40	18.10	17.53	17.66	17.60	1.15	18.10
		75	0	17.44	17.18	17.31	3.40	18.10	17.73	17.56	17.53	1.15	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	20.69	20.73	20.60	0.00	21.50	18.65	18.76	18.86	0.00	19.25
		1	25	20.73	20.56	20.71	0.00	21.50	18.92	18.73	18.86	0.00	19.25
		1	49	20.77	20.64	20.70	0.00	21.50	18.73	18.88	18.71	0.00	19.25
		25	0	20.83	20.83	20.55	0.00	21.50	18.78	18.69	18.86	0.00	19.25
		25	12	20.71	20.57	20.73	0.00	21.50	18.74	18.76	18.80	0.00	19.25
		25	25	20.63	20.77	20.80	0.00	21.50	18.65	18.76	18.84	0.00	19.25
		50	0	20.64	20.55	20.71	0.00	21.50	18.64	18.79	18.76	0.00	19.25
	16QAM	1	0	20.81	20.58	20.85	0.00	21.50	18.69	18.77	18.72	0.00	19.25
		1	25	20.67	20.62	20.61	0.00	21.50	18.86	18.86	18.93	0.00	19.25
		1	49	20.81	20.76	20.62	0.00	21.50	18.88	18.66	18.67	0.00	19.25
		25	0	20.28	20.39	20.27	0.40	21.10	18.68	18.69	18.83	0.00	19.25
		25	12	20.28	20.39	20.26	0.40	21.10	18.75	18.71	18.85	0.00	19.25
		25	25	20.18	20.35	20.42	0.40	21.10	18.88	18.82	18.79	0.00	19.25
		50	0	20.17	20.26	20.31	0.40	21.10	18.85	18.67	18.67	0.00	19.25
	64QAM	1	0	20.40	20.18	20.28	0.40	21.10	18.64	18.90	18.90	0.00	19.25
		1	25	20.39	20.17	20.21	0.40	21.10	18.78	18.63	18.88	0.00	19.25
		1	49	20.34	20.25	20.42	0.40	21.10	18.73	18.69	18.68	0.00	19.25
		25	0	19.40	19.34	19.42	1.40	20.10	18.82	18.69	18.90	0.00	19.25
		25	12	19.38	19.37	19.35	1.40	20.10	18.69	18.87	18.65	0.00	19.25
		25	25	19.44	19.30	19.43	1.40	20.10	18.79	18.64	18.90	0.00	19.25
		50	0	19.20	19.21	19.38	1.40	20.10	18.72	18.82	18.90	0.00	19.25
	256QAM	1	0	17.20	17.19	17.31	3.40	18.10	17.65	17.67	17.68	1.15	18.10
		1	25	17.28	17.31	17.32	3.40	18.10	17.64	17.73	17.75	1.15	18.10
		1	49	17.35	17.19	17.16	3.40	18.10	17.51	17.53	17.75	1.15	18.10
		25	0	17.23	17.42	17.41	3.40	18.10	17.70	17.55	17.57	1.15	18.10
		25	12	17.23	17.28	17.35	3.40	18.10	17.66	17.70	17.69	1.15	18.10
		25	25	17.25	17.36	17.30	3.40	18.10	17.64	17.49	17.68	1.15	18.10
		50	0	17.15	17.31	17.30	3.40	18.10	17.72	17.58	17.50	1.15	18.10
5 MHz	QPSK	1	0	20.62	20.56	20.75	0.00	21.50	18.92	18.92	18.67	0.00	19.25
		1	12	20.78	20.64	20.70	0.00	21.50	18.77	18.88	18.79	0.00	19.25
		1	24	20.76	20.73	20.69	0.00	21.50	18.74	18.86	18.83	0.00	19.25
		12	0	20.56	20.60	20.77	0.00	21.50	18.67	18.81	18.85	0.00	19.25
		12	7	20.79	20.64	20.77	0.00	21.50	18.88	18.78	18.73	0.00	19.25
		12	13	20.81	20.78	20.57	0.00	21.50	18.78	18.70	18.64	0.00	19.25
		25	0	20.72	20.72	20.71	0.00	21.50	18.86	18.88	18.91	0.00	19.25
	16QAM	1	0	20.62	20.72	20.84	0.00	21.50	18.65	18.82	18.63	0.00	19.25
		1	12	20.67	20.73	20.55	0.00	21.50	18.90	18.91	18.72	0.00	19.25
		1	24	20.83	20.75	20.57	0.00	21.50	18.91	18.85	18.90	0.00	19.25
		12	0	20.18	20.38	20.23	0.40	21.10	18.79	18.92	18.68	0.00	19.25
		12	7	20.36	20.29	20.33	0.40	21.10	18.92	18.93	18.78	0.00	19.25
		12	13	20.34	20.41	20.33	0.40	21.10	18.68	18.91	18.87	0.00	19.25
		25	0	20.40	20.15	20.32	0.40	21.10	18.70	18.75	18.76	0.00	19.25
	64QAM	1	0	20.37	20.16	20.38	0.40	21.10	18.91	18.76	18.90	0.00	19.25
		1	12	20.22	20.32	20.18	0.40	21.10	18.91	18.90	18.74	0.00	19.25
		1	24	20.26	20.34	20.32	0.40	21.10	18.80	18.88	18.72	0.00	19.25
		12	0	19.27	19.30	19.16	1.40	20.10	18.67	18.64	18.84	0.00	19.25
		12	7	19.26	19.34	19.18	1.40	20.10	18.65	18.66	18.79	0.00	19.25
		12	13	19.43	19.40	19.23	1.40	20.10	18.78	18.76	18.89	0.00	19.25
		25	0	19.26	19.27	19.22	1.40	20.10	18.68	18.75	18.66	0.00	19.25
	256QAM	1	0	17.26	17.20	17.22	3.40	18.10	17.70	17.60	17.57	1.15	18.10
		1	12	17.34	17.16	17.26	3.40	18.10	17.50	17.60	17.67	1.15	18.10
		1	24	17.16	17.43	17.36	3.40	18.10	17.48	17.52	17.54	1.15	18.10
		12	0	17.36	17.29	17.34	3.40	18.10	17.58	17.76	17.60	1.15	18.10
		12	7	17.38	17.40	17.37	3.40	18.10	17.69	17.59	17.74	1.15	18.10
		12	13	17.35	17.27	17.36	3.40	18.10	17.71	17.70	17.50	1.15	18.10
		25	0	17.38	17.27	17.30	3.40	18.10	17.71	17.50	17.65	1.15	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	20.64	20.73	20.66	0.00	21.50	18.70	18.89	18.69	0.00	19.25
		1	8	20.70	20.73	20.80	0.00	21.50	18.87	18.90	18.68	0.00	19.25
		1	14	20.63	20.70	20.84	0.00	21.50	18.79	18.81	18.68	0.00	19.25
		8	0	20.80	20.59	20.77	0.00	21.50	18.69	18.83	18.77	0.00	19.25
		8	4	20.71	20.57	20.71	0.00	21.50	18.75	18.86	18.73	0.00	19.25
		8	7	20.63	20.70	20.68	0.00	21.50	18.79	18.65	18.79	0.00	19.25
		15	0	20.58	20.85	20.56	0.00	21.50	18.74	18.87	18.75	0.00	19.25
	16QAM	1	0	20.84	20.84	20.60	0.00	21.50	18.80	18.77	18.71	0.00	19.25
		1	8	20.74	20.72	20.59	0.00	21.50	18.85	18.79	18.72	0.00	19.25
		1	14	20.70	20.84	20.63	0.00	21.50	18.81	18.78	18.86	0.00	19.25
		8	0	20.33	20.15	20.27	0.40	21.10	18.73	18.73	18.83	0.00	19.25
		8	4	20.39	20.38	20.40	0.40	21.10	18.76	18.75	18.69	0.00	19.25
		8	7	20.32	20.41	20.21	0.40	21.10	18.70	18.80	18.71	0.00	19.25
		15	0	20.20	20.34	20.34	0.40	21.10	18.72	18.76	18.69	0.00	19.25
	64QAM	1	0	20.28	20.22	20.17	0.40	21.10	18.63	18.90	18.70	0.00	19.25
		1	8	20.41	20.23	20.32	0.40	21.10	18.67	18.91	18.65	0.00	19.25
		1	14	20.22	20.37	20.41	0.40	21.10	18.74	18.72	18.68	0.00	19.25
		8	0	19.22	19.44	19.34	1.40	20.10	18.75	18.83	18.75	0.00	19.25
		8	4	19.28	19.37	19.20	1.40	20.10	18.75	18.64	18.91	0.00	19.25
		8	7	19.40	19.23	19.34	1.40	20.10	18.79	18.81	18.75	0.00	19.25
		15	0	19.21	19.42	19.25	1.40	20.10	18.68	18.68	18.73	0.00	19.25
	256QAM	1	0	17.36	17.19	17.28	3.40	18.10	17.55	17.77	17.67	1.15	18.10
		1	8	17.16	17.27	17.37	3.40	18.10	17.60	17.78	17.55	1.15	18.10
		1	14	17.20	17.39	17.26	3.40	18.10	17.70	17.48	17.76	1.15	18.10
		8	0	17.36	17.22	17.22	3.40	18.10	17.78	17.64	17.51	1.15	18.10
		8	4	17.31	17.25	17.43	3.40	18.10	17.75	17.55	17.72	1.15	18.10
		8	7	17.38	17.20	17.17	3.40	18.10	17.56	17.77	17.71	1.15	18.10
		15	0	17.24	17.27	17.34	3.40	18.10	17.59	17.65	17.70	1.15	18.10
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		
1.4 MHz	QPSK	1	0	20.79	20.67	20.55	0.00	21.50	18.90	18.84	18.91	0.00	19.25
		1	3	20.84	20.77	20.75	0.00	21.50	18.73	18.76	18.87	0.00	19.25
		1	5	20.84	20.73	20.73	0.00	21.50	18.66	18.68	18.80	0.00	19.25
		3	0	20.79	20.56	20.56	0.00	21.50	18.84	18.82	18.75	0.00	19.25
		3	1	20.65	20.80	20.60	0.00	21.50	18.70	18.79	18.86	0.00	19.25
		3	3	20.78	20.85	20.65	0.00	21.50	18.64	18.85	18.88	0.00	19.25
		6	0	20.81	20.55	20.69	0.00	21.50	18.77	18.75	18.82	0.00	19.25
	16QAM	1	0	20.77	20.60	20.75	0.00	21.50	18.90	18.88	18.70	0.00	19.25
		1	3	20.62	20.56	20.57	0.00	21.50	18.91	18.74	18.86	0.00	19.25
		1	5	20.59	20.67	20.73	0.00	21.50	18.74	18.77	18.64	0.00	19.25
		3	0	20.41	20.18	20.33	0.00	21.10	18.87	18.74	18.70	0.00	19.25
		3	1	20.27	20.28	20.22	0.00	21.10	18.83	18.70	18.63	0.00	19.25
		3	3	20.40	20.22	20.34	0.00	21.10	18.81	18.81	18.85	0.00	19.25
		6	0	20.21	20.34	20.43	0.40	21.10	18.90	18.68	18.83	0.00	19.25
	64QAM	1	0	20.18	20.25	20.39	0.40	21.10	18.65	18.89	18.81	0.00	19.25
		1	3	20.36	20.38	20.17	0.40	21.10	18.86	18.88	18.87	0.00	19.25
		1	5	20.42	20.20	20.41	0.40	21.10	18.87	18.88	18.74	0.00	19.25
		3	0	19.21	19.34	19.44	0.40	20.10	18.67	18.76	18.87	0.00	19.25
		3	1	19.34	19.31	19.39	0.40	20.10	18.74	18.77	18.82	0.00	19.25
		3	3	19.34	19.21	19.42	0.40	20.10	18.66	18.84	18.77	0.00	19.25
		6	0	19.18	19.18	19.40	1.40	20.10	18.71	18.73	18.90	0.00	19.25
	256QAM	1	0	17.37	17.19	17.41	3.40	18.10	17.50	17.63	17.60	1.15	18.10
		1	3	17.19	17.36	17.26	3.40	18.10	17.67	17.76	17.55	1.15	18.10
		1	5	17.27	17.15	17.23	3.40	18.10	17.66	17.62	17.53	1.15	18.10
		3	0	17.43	17.41	17.44	3.40	18.10	17.69	17.64	17.48	1.15	18.10
		3	1	17.37	17.38	17.39	3.40	18.10	17.67	17.58	17.73	1.15	18.10
		3	3	17.30	17.23	17.38	3.40	18.10	17.57	17.65	17.71	1.15	18.10
		6	0	17.16	17.42	17.39	3.40	18.10	17.51	17.54	17.62	1.15	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	24.49	24.65	24.63	0.00	24.70	20.65	20.74	20.73	0.00	21.25
		1	49	24.65	24.67	24.68	0.00	24.70	20.85	20.78	20.91	0.00	21.25
		1	99	24.61	24.45	24.52	0.00	24.70	20.82	20.75	20.87	0.00	21.25
		50	0	23.57	23.65	23.57	1.00	23.70	20.85	20.85	20.84	0.00	21.25
		50	24	23.70	23.69	23.65	1.00	23.70	20.88	20.86	20.87	0.00	21.25
		50	50	23.69	23.61	23.64	1.00	23.70	20.85	20.73	20.64	0.00	21.25
	16QAM	100	0	23.47	23.59	23.57	1.00	23.70	20.77	20.84	20.66	0.00	21.25
		1	0	23.39	23.39	23.42	1.00	23.70	20.32	20.32	20.52	0.00	21.25
		1	49	23.54	23.54	23.28	1.00	23.70	20.33	20.55	20.50	0.00	21.25
		1	99	23.52	23.33	23.47	1.00	23.70	20.40	20.44	20.33	0.00	21.25
		50	0	22.33	22.27	22.33	2.00	22.70	20.43	20.46	20.33	0.00	21.25
		50	24	22.47	22.54	22.50	2.00	22.70	20.52	20.50	20.50	0.00	21.25
	64QAM	50	50	22.46	22.44	22.46	2.00	22.70	20.53	20.35	20.44	0.00	21.25
		100	0	22.49	22.36	22.29	2.00	22.70	20.45	20.44	20.47	0.00	21.25
		1	0	22.34	22.42	22.30	2.00	22.70	20.43	20.35	20.53	0.00	21.25
		1	49	22.41	22.51	22.35	2.00	22.70	20.49	20.37	20.51	0.00	21.25
		1	99	22.54	22.32	22.33	2.00	22.70	20.45	20.48	20.46	0.00	21.25
		50	0	21.44	21.32	21.39	3.00	21.70	20.52	20.46	20.32	0.00	21.25
	256QAM	50	24	21.52	21.27	21.50	3.00	21.70	20.39	20.37	20.48	0.00	21.25
		50	50	21.37	21.37	21.53	3.00	21.70	20.37	20.34	20.35	0.00	21.25
		100	0	21.36	21.28	21.33	3.00	21.70	20.48	20.47	20.39	0.00	21.25
		1	0	19.50	19.36	19.26	5.00	19.70	19.29	19.05	19.01	1.55	19.70
		1	49	19.51	19.55	19.46	5.00	19.70	19.02	19.01	19.10	1.55	19.70
		1	99	19.36	19.53	19.35	5.00	19.70	19.15	19.27	19.01	1.55	19.70
15 MHz	QPSK	50	0	19.36	19.44	19.31	5.00	19.70	19.14	19.20	19.02	1.55	19.70
		50	24	19.40	19.27	19.47	5.00	19.70	19.23	19.27	19.19	1.55	19.70
		50	50	19.48	19.53	19.50	5.00	19.70	19.08	19.01	19.13	1.55	19.70
		100	0	19.26	19.53	19.48	5.00	19.70	19.28	19.22	19.18	1.55	19.70
	16QAM	Power Mode A (dBm)					Power Mode B (dBm)						
		26115	26365	26615	MPR	Tune-up Limit	26115	26365	26615	MPR	Tune-up Limit		
		1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz				
		1	0	24.48	24.54	24.31	0.00	24.70	20.60	20.41	20.57	0.00	21.25
		1	37	24.31	24.48	24.52	0.00	24.70	20.31	20.47	20.39	0.00	21.25
		1	74	24.39	24.33	24.46	0.00	24.70	20.44	20.41	20.34	0.00	21.25
		36	0	23.39	23.31	23.41	1.00	23.70	20.48	20.58	20.42	0.00	21.25
		36	20	23.37	23.36	23.43	1.00	23.70	20.44	20.55	20.39	0.00	21.25
		36	39	23.46	23.43	23.54	1.00	23.70	20.42	20.49	20.33	0.00	21.25
		75	0	23.47	23.26	23.42	1.00	23.70	20.55	20.40	20.58	0.00	21.25
		1	0	23.30	23.33	23.39	1.00	23.70	20.33	20.34	20.59	0.00	21.25
		1	37	23.37	23.44	23.29	1.00	23.70	20.52	20.45	20.51	0.00	21.25
	64QAM	1	74	23.44	23.48	23.34	1.00	23.70	20.56	20.47	20.42	0.00	21.25
		36	0	22.51	22.26	22.30	2.00	22.70	20.35	20.53	20.56	0.00	21.25
		36	20	22.35	22.39	22.39	2.00	22.70	20.45	20.41	20.47	0.00	21.25
		36	39	22.37	22.28	22.25	2.00	22.70	20.40	20.47	20.32	0.00	21.25
		75	0	22.40	22.52	22.36	2.00	22.70	20.52	20.46	20.44	0.00	21.25
		1	0	22.34	22.46	22.47	2.00	22.70	20.52	20.49	20.59	0.00	21.25
	256QAM	1	37	22.27	22.45	22.38	2.00	22.70	20.52	20.40	20.56	0.00	21.25
		1	74	22.42	22.54	22.49	2.00	22.70	20.44	20.60	20.51	0.00	21.25
		36	0	21.34	21.39	21.44	3.00	21.70	20.58	20.35	20.42	0.00	21.25
		36	20	21.53	21.37	21.49	3.00	21.70	20.43	20.56	20.35	0.00	21.25
		36	39	21.33	21.45	21.49	3.00	21.70	20.42	20.32	20.57	0.00	21.25
		75	0	21.35	21.43	21.32	3.00	21.70	20.40	20.56	20.54	0.00	21.25
	256QAM	1	0	19.37	19.43	19.31	5.00	19.70	19.05	19.02	19.16	1.55	19.70
		1	37	19.48	19.36	19.29	5.00	19.70	19.21	19.01	19.17	1.55	19.70
		1	74	19.35	19.48	19.36	5.00	19.70	19.17	19.01	19.08	1.55	19.70
		36	0	19.32	19.52	19.41	5.00	19.70	19.21	19.07	19.19	1.55	19.70
		36	20	19.45	19.52	19.40	5.00	19.70	19.23	19.02	19.22	1.55	19.70
		36	39	19.30	19.54	19.27	5.00	19.70	19.10	19.02	19.22	1.55	19.70
		75	0	19.48	19.52	19.35	5.00	19.70	19.08	19.18	19.01	1.55	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	24.46	24.27	24.43	0.00	24.70	20.39	20.36	20.45	0.00	21.25
		1	25	24.29	24.35	24.31	0.00	24.70	20.42	20.45	20.48	0.00	21.25
		1	49	24.42	24.29	24.35	0.00	24.70	20.33	20.40	20.37	0.00	21.25
		25	0	23.38	23.36	23.48	1.00	23.70	20.44	20.48	20.34	0.00	21.25
		25	12	23.27	23.49	23.52	1.00	23.70	20.55	20.53	20.48	0.00	21.25
		25	25	23.44	23.49	23.52	1.00	23.70	20.57	20.37	20.35	0.00	21.25
	16QAM	50	0	23.45	23.48	23.45	1.00	23.70	20.32	20.30	20.38	0.00	21.25
		1	0	23.33	23.26	23.50	1.00	23.70	20.55	20.58	20.43	0.00	21.25
		1	25	23.31	23.31	23.35	1.00	23.70	20.36	20.32	20.58	0.00	21.25
		1	49	23.51	23.37	23.53	1.00	23.70	20.48	20.44	20.33	0.00	21.25
		25	0	22.25	22.33	22.28	2.00	22.70	20.40	20.46	20.45	0.00	21.25
		25	12	22.48	22.45	22.45	2.00	22.70	20.47	20.52	20.50	0.00	21.25
	64QAM	25	25	22.51	22.52	22.37	2.00	22.70	20.45	20.60	20.52	0.00	21.25
		50	0	22.44	22.40	22.53	2.00	22.70	20.56	20.40	20.41	0.00	21.25
		1	0	22.30	22.37	22.39	2.00	22.70	20.33	20.55	20.58	0.00	21.25
		1	25	22.49	22.51	22.32	2.00	22.70	20.59	20.54	20.40	0.00	21.25
		1	49	22.52	22.28	22.51	2.00	22.70	20.57	20.60	20.54	0.00	21.25
		25	0	21.47	21.49	21.36	3.00	21.70	20.51	20.45	20.40	0.00	21.25
	256QAM	25	12	21.43	21.49	21.49	3.00	21.70	20.42	20.38	20.60	0.00	21.25
		25	25	21.30	21.30	21.44	3.00	21.70	20.54	20.55	20.47	0.00	21.25
		50	0	21.27	21.39	21.30	3.00	21.70	20.45	20.48	20.49	0.00	21.25
		1	0	19.54	19.36	19.38	5.00	19.70	19.10	19.07	19.06	1.55	19.70
		1	25	19.46	19.39	19.35	5.00	19.70	19.23	19.02	19.06	1.55	19.70
		1	49	19.49	19.41	19.51	5.00	19.70	19.02	19.26	19.03	1.55	19.70
5 MHz	QPSK	25	0	19.33	19.31	19.42	5.00	19.70	19.05	19.05	19.18	1.55	19.70
		25	12	19.50	19.26	19.50	5.00	19.70	19.03	19.15	19.01	1.55	19.70
		25	25	19.45	19.41	19.39	5.00	19.70	19.12	19.04	19.23	1.55	19.70
		50	0	19.26	19.38	19.35	5.00	19.70	19.19	19.15	19.19	1.55	19.70
	16QAM	1	0	24.44	24.36	24.39	0.00	24.70	20.49	20.35	20.31	0.00	21.25
		1	12	24.40	24.48	24.40	0.00	24.70	20.35	20.34	20.35	0.00	21.25
		1	24	24.27	24.50	24.48	0.00	24.70	20.59	20.57	20.32	0.00	21.25
		12	0	23.26	23.54	23.28	1.00	23.70	20.37	20.36	20.37	0.00	21.25
		12	7	23.43	23.34	23.31	1.00	23.70	20.38	20.51	20.34	0.00	21.25
		12	13	23.52	23.41	23.33	1.00	23.70	20.50	20.35	20.49	0.00	21.25
	64QAM	25	0	23.32	23.54	23.44	1.00	23.70	20.31	20.38	20.50	0.00	21.25
		1	0	23.47	23.26	23.37	1.00	23.70	20.32	20.36	20.35	0.00	21.25
		1	12	23.27	23.40	23.26	1.00	23.70	20.55	20.48	20.43	0.00	21.25
		1	24	23.27	23.40	23.36	1.00	23.70	20.56	20.34	20.52	0.00	21.25
		12	0	22.42	22.30	22.36	2.00	22.70	20.48	20.33	20.59	0.00	21.25
		12	7	22.30	22.27	22.50	2.00	22.70	20.57	20.33	20.41	0.00	21.25
	256QAM	12	13	22.27	22.33	22.38	2.00	22.70	20.57	20.37	20.51	0.00	21.25
		25	0	22.48	22.43	22.48	2.00	22.70	20.31	20.53	20.47	0.00	21.25
		1	0	22.28	22.27	22.28	2.00	22.70	20.37	20.48	20.31	0.00	21.25
		1	12	22.41	22.38	22.36	2.00	22.70	20.57	20.41	20.44	0.00	21.25
		1	24	22.49	22.34	22.28	2.00	22.70	20.49	20.33	20.59	0.00	21.25
		12	0	21.45	21.38	21.42	3.00	21.70	20.43	20.43	20.47	0.00	21.25
	16QAM	12	7	21.54	21.54	21.26	3.00	21.70	20.43	20.52	20.46	0.00	21.25
		12	13	21.25	21.34	21.36	3.00	21.70	20.40	20.57	20.58	0.00	21.25
		25	0	21.46	21.35	21.41	3.00	21.70	20.58	20.55	20.38	0.00	21.25
	256QAM	1	0	19.43	19.52	19.41	5.00	19.70	19.23	19.24	19.24	1.55	19.70
		1	12	19.52	19.54	19.26	5.00	19.70	19.29	19.18	19.21	1.55	19.70
		1	24	19.45	19.49	19.53	5.00	19.70	19.25	19.25	19.22	1.55	19.70
		12	0	19.33	19.25	19.41	5.00	19.70	19.00	19.23	19.10	1.55	19.70
	64QAM	12	7	19.33	19.32	19.37	5.00	19.70	19.02	19.28	19.03	1.55	19.70
		12	13	19.37	19.29	19.53	5.00	19.70	19.19	19.06	19.29	1.55	19.70
		25	0	19.46	19.55	19.26	5.00	19.70	19.22	19.14	19.06	1.55	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	24.36	24.46	24.28	0.00	24.70	20.35	20.45	20.47	0.00	21.25
		1	8	24.28	24.48	24.45	0.00	24.70	20.55	20.36	20.32	0.00	21.25
		1	14	24.51	24.35	24.43	0.00	24.70	20.36	20.41	20.32	0.00	21.25
		8	0	23.30	23.32	23.26	1.00	23.70	20.37	20.50	20.33	0.00	21.25
		8	4	23.29	23.50	23.47	1.00	23.70	20.51	20.45	20.37	0.00	21.25
		8	7	23.39	23.45	23.27	1.00	23.70	20.58	20.44	20.48	0.00	21.25
	16QAM	15	0	23.42	23.37	23.48	1.00	23.70	20.44	20.40	20.40	0.00	21.25
		1	0	23.31	23.41	23.49	1.00	23.70	20.47	20.39	20.55	0.00	21.25
		1	8	23.43	23.48	23.44	1.00	23.70	20.53	20.40	20.35	0.00	21.25
		1	14	23.29	23.30	23.46	1.00	23.70	20.34	20.51	20.33	0.00	21.25
		8	0	22.45	22.47	22.26	2.00	22.70	20.40	20.40	20.51	0.00	21.25
		8	4	22.35	22.40	22.37	2.00	22.70	20.40	20.36	20.40	0.00	21.25
	64QAM	8	7	22.55	22.49	22.40	2.00	22.70	20.36	20.43	20.33	0.00	21.25
		15	0	22.28	22.43	22.26	2.00	22.70	20.59	20.47	20.32	0.00	21.25
		1	0	22.45	22.46	22.25	2.00	22.70	20.60	20.32	20.44	0.00	21.25
		1	8	22.26	22.49	22.35	2.00	22.70	20.47	20.50	20.51	0.00	21.25
		1	14	22.34	22.55	22.38	2.00	22.70	20.44	20.41	20.55	0.00	21.25
		8	0	21.43	21.34	21.47	3.00	21.70	20.45	20.52	20.43	0.00	21.25
	256QAM	8	4	21.49	21.36	21.30	3.00	21.70	20.50	20.48	20.51	0.00	21.25
		8	7	21.53	21.28	21.36	3.00	21.70	20.38	20.59	20.57	0.00	21.25
		15	0	21.40	21.48	21.27	3.00	21.70	20.33	20.31	20.30	0.00	21.25
		1	0	19.43	19.39	19.47	5.00	19.70	19.18	19.21	19.09	1.55	19.70
		1	8	19.40	19.45	19.39	5.00	19.70	19.18	19.07	19.12	1.55	19.70
		1	14	19.44	19.35	19.33	5.00	19.70	19.19	19.25	19.01	1.55	19.70
1.4 MHz	QPSK	8	0	19.39	19.42	19.39	5.00	19.70	19.16	19.20	19.06	1.55	19.70
		8	4	19.36	19.45	19.55	5.00	19.70	19.03	19.05	19.23	1.55	19.70
		8	7	19.40	19.49	19.49	5.00	19.70	19.10	19.09	19.04	1.55	19.70
		15	0	19.53	19.51	19.41	5.00	19.70	19.17	19.15	19.02	1.55	19.70
	16QAM	1	0	24.49	24.55	24.27	0.00	24.70	20.37	20.51	20.41	0.00	21.25
		1	3	24.38	24.46	24.30	0.00	24.70	20.35	20.52	20.45	0.00	21.25
		1	5	24.41	24.32	24.51	0.00	24.70	20.39	20.34	20.37	0.00	21.25
		3	0	23.53	23.36	23.37	0.00	23.70	20.57	20.34	20.56	0.00	21.25
		3	1	23.28	23.47	23.35	0.00	23.70	20.47	20.33	20.57	0.00	21.25
		3	3	23.46	23.33	23.38	0.00	23.70	20.45	20.40	20.41	0.00	21.25
	64QAM	6	0	23.30	23.35	23.37	1.00	23.70	20.32	20.31	20.46	0.00	21.25
		1	0	23.35	23.48	23.37	1.00	23.70	20.55	20.54	20.44	0.00	21.25
		1	3	23.36	23.48	23.27	1.00	23.70	20.45	20.32	20.60	0.00	21.25
		1	5	23.32	23.40	23.46	1.00	23.70	20.34	20.41	20.39	0.00	21.25
		3	0	22.54	22.35	22.27	1.00	22.70	20.36	20.44	20.37	0.00	21.25
		3	1	22.45	22.38	22.51	1.00	22.70	20.40	20.47	20.33	0.00	21.25
	256QAM	3	3	22.54	22.33	22.32	1.00	22.70	20.54	20.33	20.59	0.00	21.25
		6	0	22.25	22.51	22.46	2.00	22.70	20.59	20.32	20.38	0.00	21.25
		1	0	22.50	22.36	22.39	2.00	22.70	20.51	20.39	20.56	0.00	21.25
		1	3	22.37	22.50	22.28	2.00	22.70	20.54	20.31	20.47	0.00	21.25
		1	5	22.33	22.46	22.34	2.00	22.70	20.57	20.47	20.47	0.00	21.25
		3	0	21.47	21.25	21.52	2.00	21.70	20.48	20.47	20.42	0.00	21.25
	16QAM	3	1	21.44	21.33	21.29	2.00	21.70	20.47	20.52	20.35	0.00	21.25
		3	3	21.31	21.46	21.33	2.00	21.70	20.44	20.37	20.37	0.00	21.25
		6	0	21.55	21.40	21.44	3.00	21.70	20.39	20.42	20.60	0.00	21.25
	256QAM	1	0	19.35	19.45	19.31	5.00	19.70	19.07	19.13	19.09	1.55	19.70
		1	3	19.33	19.49	19.53	5.00	19.70	19.29	19.21	19.01	1.55	19.70
		1	5	19.43	19.48	19.35	5.00	19.70	19.18	19.06	19.10	1.55	19.70
		3	0	19.31	19.47	19.54	5.00	19.70	19.28	19.02	19.01	1.55	19.70
	64QAM	3	1	19.26	19.50	19.28	5.00	19.70	19.15	19.12	19.21	1.55	19.70
		3	3	19.35	19.26	19.52	5.00	19.70	19.07	19.30	19.14	1.55	19.70
		6	0	19.49	19.44	19.32	5.00	19.70	19.04	19.14	19.24	1.55	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	20.27	20.30	20.46	0.00	20.50	21.21	21.05	21.07	0.00	21.75
		1	49	20.46	20.31	20.47	0.00	20.50	21.22	21.25	21.34	0.00	21.75
		1	99	20.44	20.21	20.24	0.00	20.50	21.13	21.24	21.22	0.00	21.75
		50	0	20.38	20.43	20.38	0.00	20.50	21.25	21.10	21.17	0.05	21.70
		50	24	20.39	20.45	20.48	0.00	20.50	21.30	21.20	21.26	0.05	21.70
		50	50	20.24	20.37	20.35	0.00	20.50	21.10	21.20	21.18	0.05	21.70
	16QAM	100	0	20.41	20.43	20.41	0.00	20.50	21.27	21.30	21.10	0.05	21.70
		1	0	19.92	19.92	19.95	0.00	20.50	21.00	20.90	20.90	0.05	21.70
		1	49	20.04	20.15	19.91	0.00	20.50	20.96	21.05	20.83	0.05	21.70
		1	99	20.18	19.96	20.16	0.00	20.50	21.04	21.08	20.85	0.05	21.70
		50	0	19.99	19.95	20.06	0.00	20.50	20.17	20.10	19.91	1.05	20.70
		50	24	20.03	20.12	20.07	0.00	20.50	20.05	19.94	20.14	1.05	20.70
	64QAM	50	50	20.07	19.93	20.12	0.00	20.50	20.02	20.01	19.96	1.05	20.70
		100	0	20.05	20.10	20.16	0.00	20.50	20.09	20.00	19.99	1.05	20.70
		1	0	20.11	20.04	20.09	0.00	20.50	20.19	20.05	19.93	1.05	20.70
		1	49	20.10	19.94	20.08	0.00	20.50	20.07	19.98	20.03	1.05	20.70
		1	99	19.92	20.16	20.11	0.00	20.50	20.04	20.05	20.00	1.05	20.70
		50	0	19.24	19.21	19.31	0.80	19.70	19.04	19.06	19.08	2.05	19.70
	256QAM	50	24	19.22	19.24	19.25	0.80	19.70	19.18	19.10	19.10	2.05	19.70
		50	50	19.28	19.23	19.25	0.80	19.70	18.93	18.90	18.98	2.05	19.70
		100	0	19.16	19.21	19.13	0.80	19.70	19.19	19.17	18.96	2.05	19.70
		1	0	17.25	17.22	17.18	2.80	17.70	17.02	17.19	17.15	4.05	17.70
		1	49	17.24	17.20	17.29	2.80	17.70	17.09	17.01	17.01	4.05	17.70
		1	99	17.40	17.35	17.18	2.80	17.70	17.13	16.94	17.15	4.05	17.70
15 MHz	QPSK	50	0	17.25	17.33	17.29	2.80	17.70	16.93	17.10	16.98	4.05	17.70
		50	24	17.14	17.37	17.33	2.80	17.70	17.01	16.94	17.11	4.05	17.70
		50	50	17.31	17.21	17.25	2.80	17.70	17.03	16.95	16.98	4.05	17.70
		100	0	17.27	17.30	17.14	2.80	17.70	17.11	17.12	17.09	4.05	17.70
	16QAM	Power Mode A (dBm)					Power Mode B (dBm)						
		RB Allocation	RB offset	26115	26365	26615	MPR	Tune-up Limit	26115	26365	26615	MPR	Tune-up Limit
				1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz		
		1	0	20.03	19.97	20.15	0.00	20.50	21.15	21.08	21.18	0.00	21.75
		1	37	20.08	20.07	20.03	0.00	20.50	21.22	21.20	21.10	0.00	21.75
		1	74	19.90	19.93	19.97	0.00	20.50	21.19	21.07	21.03	0.00	21.75
		36	0	19.97	20.08	19.98	0.00	20.50	21.07	21.03	21.11	0.05	21.70
		36	20	20.01	19.94	20.09	0.00	20.50	20.95	21.07	21.15	0.05	21.70
		36	39	20.04	20.03	19.99	0.00	20.50	21.14	20.90	21.02	0.05	21.70
		75	0	19.95	19.90	20.16	0.00	20.50	20.91	21.07	21.11	0.05	21.70
		1	0	20.19	19.96	20.08	0.00	20.50	21.19	21.11	21.08	0.05	21.70
		1	37	20.06	19.98	19.93	0.00	20.50	21.09	21.16	21.02	0.05	21.70
	64QAM	1	74	20.12	20.13	20.02	0.00	20.50	21.02	21.10	21.15	0.05	21.70
		36	0	19.98	20.02	19.93	0.00	20.50	20.10	20.15	19.99	1.05	20.70
		36	20	20.16	20.02	20.12	0.00	20.50	20.20	20.14	19.94	1.05	20.70
		36	39	20.11	20.19	20.04	0.00	20.50	20.11	20.14	19.93	1.05	20.70
		75	0	20.07	20.00	20.20	0.00	20.50	19.97	19.91	19.99	1.05	20.70
		1	0	20.07	19.91	20.11	0.00	20.50	19.92	20.05	19.97	1.05	20.70
	256QAM	1	37	20.14	20.16	20.02	0.00	20.50	20.07	19.92	20.01	1.05	20.70
		1	74	20.05	19.96	20.11	0.00	20.50	20.12	20.16	20.15	1.05	20.70
		36	0	19.21	19.23	19.15	0.80	19.70	19.14	18.93	18.91	2.05	19.70
		36	20	19.23	19.25	19.40	0.80	19.70	18.95	18.92	19.02	2.05	19.70
		36	39	19.40	19.21	19.33	0.80	19.70	18.94	19.05	19.01	2.05	19.70
		75	0	19.32	19.24	19.19	0.80	19.70	19.01	19.20	19.20	2.05	19.70
	256QAM	1	0	17.40	17.10	17.25	2.80	17.70	17.15	17.03	16.96	4.05	17.70
		1	37	17.23	17.35	17.21	2.80	17.70	16.98	17.12	16.96	4.05	17.70
		1	74	17.11	17.35	17.11	2.80	17.70	16.91	17.14	17.04	4.05	17.70
		36	0	17.18	17.37	17.15	2.80	17.70	17.09	17.04	16.98	4.05	17.70
		36	20	17.23	17.34	17.28	2.80	17.70	16.97	16.92	17.18	4.05	17.70
		36	39	17.15	17.28	17.31	2.80	17.70	17.08	17.09	17.06	4.05	17.70
		75	0	17.17	17.15	17.10	2.80	17.70	16.96	17.04	17.14	4.05	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	19.99	20.03	20.05	0.00	20.50	21.03	21.08	21.10	0.00	21.75
		1	25	20.20	20.19	20.18	0.00	20.50	21.18	21.15	21.24	0.00	21.75
		1	49	20.18	20.02	19.92	0.00	20.50	21.21	21.12	21.06	0.00	21.75
		25	0	20.15	20.12	20.13	0.00	20.50	21.08	21.05	20.97	0.05	21.70
		25	12	20.13	19.90	20.15	0.00	20.50	20.99	20.99	20.91	0.05	21.70
		25	25	20.17	20.14	20.19	0.00	20.50	20.93	21.02	21.09	0.05	21.70
		50	0	19.92	20.16	20.17	0.00	20.50	21.15	21.03	20.98	0.05	21.70
	16QAM	1	0	19.96	20.14	20.01	0.00	20.50	21.19	20.94	21.16	0.05	21.70
		1	25	20.09	20.19	20.03	0.00	20.50	20.92	21.05	20.99	0.05	21.70
		1	49	20.06	19.97	20.11	0.00	20.50	21.00	21.02	21.07	0.05	21.70
		25	0	20.14	20.02	19.96	0.00	20.50	20.13	20.06	20.18	1.05	20.70
		25	12	20.00	19.98	20.19	0.00	20.50	20.10	20.16	20.13	1.05	20.70
		25	25	19.96	19.94	20.10	0.00	20.50	20.05	20.03	20.10	1.05	20.70
		50	0	20.13	20.04	20.08	0.00	20.50	20.11	19.95	19.92	1.05	20.70
	64QAM	1	0	20.05	20.07	20.03	0.00	20.50	20.09	20.09	20.12	1.05	20.70
		1	25	19.97	19.91	20.19	0.00	20.50	20.15	19.93	20.05	1.05	20.70
		1	49	20.19	20.12	20.01	0.00	20.50	19.92	20.00	20.11	1.05	20.70
		25	0	19.33	19.19	19.39	0.80	19.70	19.07	19.02	19.18	2.05	19.70
		25	12	19.16	19.19	19.36	0.80	19.70	19.11	19.18	18.99	2.05	19.70
		25	25	19.30	19.19	19.12	0.80	19.70	19.18	19.12	19.08	2.05	19.70
		50	0	19.25	19.21	19.25	0.80	19.70	19.18	19.05	19.04	2.05	19.70
	256QAM	1	0	17.39	17.24	17.33	2.80	17.70	17.09	17.05	17.04	4.05	17.70
		1	25	17.15	17.25	17.11	2.80	17.70	17.06	17.20	16.93	4.05	17.70
		1	49	17.35	17.36	17.20	2.80	17.70	17.09	16.92	16.93	4.05	17.70
		25	0	17.35	17.25	17.22	2.80	17.70	17.03	17.15	17.01	4.05	17.70
		25	12	17.15	17.10	17.13	2.80	17.70	17.14	16.94	16.91	4.05	17.70
		25	25	17.33	17.18	17.25	2.80	17.70	17.12	17.17	17.06	4.05	17.70
		50	0	17.36	17.22	17.25	2.80	17.70	17.03	17.00	17.11	4.05	17.70
5 MHz	QPSK	1	0	20.13	20.00	20.17	0.00	20.50	21.04	21.04	21.01	0.00	21.75
		1	12	20.19	20.02	19.91	0.00	20.50	21.10	21.13	21.10	0.00	21.75
		1	24	20.14	19.93	20.18	0.00	20.50	20.95	21.10	21.25	0.00	21.75
		12	0	20.19	20.17	20.07	0.00	20.50	20.99	20.91	20.97	0.05	21.70
		12	7	20.16	19.91	19.97	0.00	20.50	21.11	21.15	20.98	0.05	21.70
		12	13	19.92	19.99	20.06	0.00	20.50	21.16	21.17	20.93	0.05	21.70
		25	0	19.92	20.07	20.08	0.00	20.50	21.11	20.92	21.04	0.05	21.70
	16QAM	1	0	19.96	20.20	19.92	0.00	20.50	21.18	21.06	21.14	0.05	21.70
		1	12	20.09	20.15	20.13	0.00	20.50	21.07	20.94	20.99	0.05	21.70
		1	24	20.19	19.96	20.20	0.00	20.50	21.17	20.93	21.11	0.05	21.70
		12	0	20.17	20.01	19.96	0.00	20.50	20.17	20.16	20.00	1.05	20.70
		12	7	20.18	20.11	20.07	0.00	20.50	19.97	20.10	19.92	1.05	20.70
		12	13	19.96	19.96	20.20	0.00	20.50	20.08	19.92	20.15	1.05	20.70
		25	0	20.05	20.04	20.02	0.00	20.50	19.95	19.95	20.05	1.05	20.70
	64QAM	1	0	20.00	20.01	19.91	0.00	20.50	20.03	20.09	20.15	1.05	20.70
		1	12	19.94	20.12	20.08	0.00	20.50	20.03	20.01	20.17	1.05	20.70
		1	24	20.01	20.00	20.00	0.00	20.50	20.02	19.91	20.02	1.05	20.70
		12	0	19.35	19.17	19.16	0.80	19.70	18.96	19.00	18.93	2.05	19.70
		12	7	19.32	19.31	19.12	0.80	19.70	19.05	18.95	18.93	2.05	19.70
		12	13	19.16	19.29	19.27	0.80	19.70	18.97	19.16	19.03	2.05	19.70
		25	0	19.33	19.33	19.32	0.80	19.70	19.19	19.01	19.01	2.05	19.70
	256QAM	1	0	17.11	17.37	17.29	2.80	17.70	17.15	17.06	17.02	4.05	17.70
		1	12	17.28	17.28	17.33	2.80	17.70	17.13	17.01	17.09	4.05	17.70
		1	24	17.36	17.27	17.11	2.80	17.70	17.16	16.91	17.00	4.05	17.70
		12	0	17.16	17.19	17.20	2.80	17.70	17.12	16.95	17.00	4.05	17.70
		12	7	17.10	17.36	17.39	2.80	17.70	17.19	17.13	17.12	4.05	17.70
		12	13	17.28	17.29	17.17	2.80	17.70	16.99	17.06	17.17	4.05	17.70
		25	0	17.17	17.30	17.32	2.80	17.70	17.16	17.01	17.01	4.05	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	20.03	19.95	19.97	0.00	20.50	21.07	20.99	21.06	0.00	21.75
		1	8	20.15	20.03	19.90	0.00	20.50	21.12	21.03	21.04	0.00	21.75
		1	14	20.15	20.06	20.18	0.00	20.50	21.00	21.05	20.96	0.00	21.75
		8	0	20.09	20.06	20.16	0.00	20.50	21.12	21.00	20.99	0.05	21.70
		8	4	20.13	20.09	20.00	0.00	20.50	21.15	21.16	21.17	0.05	21.70
		8	7	20.12	20.14	20.12	0.00	20.50	21.15	21.20	21.02	0.05	21.70
	16QAM	15	0	19.99	20.04	20.16	0.00	20.50	20.90	21.07	21.06	0.05	21.70
		1	0	20.01	20.15	20.18	0.00	20.50	21.08	21.02	21.04	0.05	21.70
		1	8	19.93	20.15	20.05	0.00	20.50	21.15	21.05	21.01	0.05	21.70
		1	14	20.06	20.01	19.93	0.00	20.50	21.08	21.12	21.11	0.05	21.70
		8	0	20.14	20.16	20.06	0.00	20.50	20.13	19.94	19.91	1.05	20.70
		8	4	20.10	19.99	20.04	0.00	20.50	20.12	19.91	20.00	1.05	20.70
	64QAM	8	7	20.14	19.93	19.92	0.00	20.50	20.02	20.10	19.98	1.05	20.70
		15	0	20.03	20.12	20.12	0.00	20.50	19.96	20.17	20.04	1.05	20.70
		1	0	19.96	20.17	20.13	0.00	20.50	20.11	20.16	19.92	1.05	20.70
		1	8	19.91	20.05	20.08	0.00	20.50	19.96	20.04	19.95	1.05	20.70
		1	14	19.95	19.97	20.06	0.00	20.50	20.02	20.13	20.01	1.05	20.70
		8	0	19.36	19.26	19.16	0.80	19.70	19.01	18.97	19.20	2.05	19.70
	256QAM	8	4	19.20	19.28	19.40	0.80	19.70	19.14	19.15	18.92	2.05	19.70
		8	7	19.19	19.18	19.31	0.80	19.70	19.16	18.94	18.99	2.05	19.70
		15	0	19.31	19.12	19.33	0.80	19.70	19.20	19.13	19.17	2.05	19.70
		1	0	17.36	17.27	17.31	2.80	17.70	17.12	17.16	16.97	4.05	17.70
		1	8	17.39	17.38	17.18	2.80	17.70	17.13	17.11	17.07	4.05	17.70
		1	14	17.17	17.23	17.13	2.80	17.70	16.92	17.07	17.03	4.05	17.70
1.4 MHz	QPSK	8	0	17.21	17.38	17.35	2.80	17.70	17.03	17.07	16.97	4.05	17.70
		8	4	17.14	17.21	17.18	2.80	17.70	17.08	17.13	17.07	4.05	17.70
		8	7	17.26	17.32	17.10	2.80	17.70	17.17	17.07	17.03	4.05	17.70
		15	0	17.21	17.12	17.36	2.80	17.70	17.10	17.06	16.97	4.05	17.70
	16QAM	1	0	20.13	19.93	20.10	0.00	20.50	21.23	20.96	21.12	0.00	21.75
		1	3	20.14	20.00	20.12	0.00	20.50	21.21	20.99	21.24	0.00	21.75
		1	5	20.19	20.17	20.15	0.00	20.50	20.98	21.19	20.97	0.00	21.75
		3	0	20.06	20.09	20.09	0.00	20.50	21.17	20.95	21.08	0.00	21.75
		3	1	20.12	20.12	19.97	0.00	20.50	20.95	21.00	20.98	0.00	21.75
		3	3	19.96	20.16	19.94	0.00	20.50	21.13	21.13	21.06	0.00	21.75
	64QAM	6	0	19.91	20.15	19.93	0.00	20.50	21.09	21.00	21.20	0.05	21.70
		1	0	20.09	20.12	20.19	0.00	20.50	21.18	21.03	21.15	0.05	21.70
		1	3	20.19	20.04	19.96	0.00	20.50	21.15	21.03	21.11	0.05	21.70
		1	5	20.16	20.12	20.20	0.00	20.50	20.92	20.95	21.18	0.05	21.70
		3	0	19.94	20.11	20.04	0.00	20.50	21.13	20.99	21.06	0.05	21.70
		3	1	20.03	20.05	20.18	0.00	20.50	20.93	21.07	20.98	0.05	21.70
	256QAM	3	3	20.06	20.15	20.04	0.00	20.50	21.03	21.08	20.98	0.05	21.70
		6	0	19.96	19.98	20.08	0.00	20.50	20.13	20.19	20.20	1.05	20.70
		1	0	20.01	20.01	20.03	0.00	20.50	20.06	20.10	19.96	1.05	20.70
		1	3	20.10	20.20	19.92	0.00	20.50	19.95	20.12	20.16	1.05	20.70
		1	5	20.07	20.01	20.02	0.00	20.50	19.99	20.16	19.94	1.05	20.70
		3	0	19.85	19.93	19.93	0.00	20.50	20.04	19.91	20.11	1.05	20.70
	64QAM	3	1	19.86	19.79	19.76	0.00	20.50	20.07	20.03	19.96	1.05	20.70
		3	3	19.99	19.72	19.76	0.00	20.50	19.98	19.92	19.91	1.05	20.70
		6	0	19.27	19.36	19.36	0.80	19.70	18.96	18.94	19.06	2.05	19.70
	256QAM	1	0	17.14	17.32	17.30	2.80	17.70	16.94	17.12	16.98	4.05	17.70
		1	3	17.30	17.37	17.34	2.80	17.70	17.04	16.97	17.09	4.05	17.70
		1	5	17.17	17.37	17.35	2.80	17.70	16.97	16.99	17.13	4.05	17.70
	64QAM	3	0	17.23	17.19	17.35	2.80	17.70	16.97	16.90	17.03	4.05	17.70
		3	1	17.29	17.16	17.14	2.80	17.70	17.03	17.05	17.09	4.05	17.70
		3	3	17.28	17.26	17.17	2.80	17.70	16.99	16.96	17.03	4.05	17.70
		6	0	17.34	17.29	17.19	2.80	17.70	16.91	17.02	17.04	4.05	17.70

LTE Band 26 Measured Results (ANT1)

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	24.83	24.70	24.70	0.00	25.70	24.73	24.61	24.58	0.00	25.25
		1	25	24.90	25.50	24.80	0.00	25.70	25.09	24.96	24.92	0.00	25.25
		1	49	24.70	24.80	24.70	0.00	25.70	24.79	24.73	24.51	0.00	25.25
		25	0	23.89	23.79	23.81	1.00	24.70	24.18	24.09	24.15	0.55	24.70
		25	12	23.98	24.30	23.87	1.00	24.70	24.49	24.28	24.33	0.55	24.70
		25	25	23.90	23.78	23.81	1.00	24.70	23.97	24.04	24.01	0.55	24.70
	16QAM	50	0	24.01	24.10	23.87	1.00	24.70	24.16	24.40	24.12	0.55	24.70
		1	0	23.90	23.98	24.06	1.00	24.70	24.02	24.23	23.98	0.55	24.70
		1	25	24.10	23.82	23.86	1.00	24.70	23.97	24.19	24.20	0.55	24.70
		1	49	24.06	23.88	23.90	1.00	24.70	23.96	24.08	24.19	0.55	24.70
		25	0	22.93	23.00	22.92	2.00	23.70	22.99	22.99	22.96	1.55	23.70
		25	12	22.82	23.07	22.93	2.00	23.70	23.20	23.11	23.19	1.55	23.70
	64QAM	25	25	22.96	23.02	22.98	2.00	23.70	22.96	23.23	23.23	1.55	23.70
		50	0	22.81	22.97	22.99	2.00	23.70	23.23	23.12	23.16	1.55	23.70
		1	0	22.80	22.96	22.96	2.00	23.70	23.11	22.98	23.14	1.55	23.70
		1	25	23.05	23.05	23.09	2.00	23.70	23.00	23.09	22.96	1.55	23.70
		1	49	23.09	22.97	22.86	2.00	23.70	23.06	22.98	23.02	1.55	23.70
		25	0	21.96	22.08	21.82	3.00	22.70	22.02	22.01	22.22	2.55	22.70
	256QAM	25	12	21.86	21.85	22.02	3.00	22.70	22.20	22.07	22.14	2.55	22.70
		25	25	22.03	21.83	22.00	3.00	22.70	22.16	22.01	22.18	2.55	22.70
		50	0	21.83	21.82	22.03	3.00	22.70	22.01	22.12	22.12	2.55	22.70
		1	0	20.00	19.94	20.08	5.00	20.70	20.00	20.06	20.23	4.50	20.75
		1	25	20.10	19.80	20.00	5.00	20.70	20.03	20.10	20.10	4.50	20.75
		1	49	19.85	19.87	19.99	5.00	20.70	20.19	20.03	20.12	4.50	20.75
5 MHz	QPSK	25	0	20.06	19.80	19.94	5.00	20.70	20.20	19.98	20.13	4.50	20.75
		25	12	19.89	19.85	19.84	5.00	20.70	20.20	20.12	20.09	4.50	20.75
		25	25	19.86	19.97	19.99	5.00	20.70	20.16	20.02	20.23	4.50	20.75
		50	0	20.00	19.94	20.08	5.00	20.70	20.12	19.98	19.98	4.50	20.75
	16QAM	1	0	24.97	24.70	24.73	0.00	25.70	24.54	24.76	24.58	0.00	25.25
		1	12	24.89	24.70	24.70	0.00	25.70	24.56	24.66	24.72	0.00	25.25
		1	24	24.86	24.70	24.70	0.00	25.70	24.68	24.78	24.63	0.00	25.25
		12	0	23.93	24.07	24.08	1.00	24.70	24.13	24.08	24.16	0.55	24.70
		12	7	24.04	23.89	24.00	1.00	24.70	24.17	24.14	24.01	0.55	24.70
		12	13	24.01	23.97	23.82	1.00	24.70	24.18	24.21	24.22	0.55	24.70
	64QAM	25	0	23.98	23.89	24.03	1.00	24.70	24.03	24.01	24.11	0.55	24.70
		1	0	23.99	24.05	24.01	1.00	24.70	24.22	24.05	24.20	0.55	24.70
		1	12	23.91	23.88	23.94	1.00	24.70	24.11	24.02	24.24	0.55	24.70
		1	24	23.98	24.09	24.01	1.00	24.70	24.12	24.04	24.23	0.55	24.70
		12	0	22.93	22.90	23.02	2.00	23.70	22.96	23.13	23.25	1.55	23.70
		12	7	22.96	22.90	22.84	2.00	23.70	22.96	23.10	23.16	1.55	23.70
	256QAM	12	13	22.96	22.89	22.81	2.00	23.70	23.20	23.01	23.02	1.55	23.70
		25	0	22.95	22.80	22.85	2.00	23.70	23.09	23.17	23.24	1.55	23.70
		1	0	22.90	22.89	22.81	2.00	23.70	22.99	23.08	22.99	1.55	23.70
		1	12	22.98	22.92	22.91	2.00	23.70	23.23	23.18	22.95	1.55	23.70
		1	24	22.94	22.85	23.01	2.00	23.70	23.08	23.06	23.06	1.55	23.70
		12	0	22.00	22.06	21.99	3.00	22.70	22.15	22.08	22.00	2.55	22.70
5 MHz	64QAM	12	7	21.86	21.91	21.94	3.00	22.70	21.97	22.00	22.22	2.55	22.70
		12	13	21.91	21.97	21.83	3.00	22.70	22.07	22.05	22.10	2.55	22.70
		25	0	22.04	21.84	21.86	3.00	22.70	21.95	22.16	22.08	2.55	22.70
		1	0	20.03	20.08	19.84	5.00	20.70	20.24	20.11	20.20	4.50	20.75
		1	12	19.92	20.09	20.05	5.00	20.70	20.24	19.95	20.20	4.50	20.75
		1	24	19.88	19.84	19.96	5.00	20.70	20.24	20.20	20.04	4.50	20.75
	256QAM	12	0	20.09	19.85	19.85	5.00	20.70	20.13	19.97	20.05	4.50	20.75
		12	7	19.87	19.99	19.92	5.00	20.70	20.10	20.17	20.11	4.50	20.75
		12	13	19.85	19.81	20.05	5.00	20.70	20.00	20.17	20.00	4.50	20.75
		25	0	20.01	19.90	19.83	5.00	20.70	20.21	20.05	20.25	4.50	20.75

LTE Band 26 Measured Results (ANT1) (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	24.91	24.70	24.70	0.00	25.70	24.57	24.77	24.59	0.00	25.25
		1	8	24.82	24.70	24.70	0.00	25.70	24.57	24.74	24.73	0.00	25.25
		1	14	24.77	24.70	24.70	0.00	25.70	24.52	24.51	24.67	0.00	25.25
		8	0	24.00	24.01	24.08	1.00	24.70	24.17	24.24	24.06	0.55	24.70
		8	4	24.08	23.85	23.99	1.00	24.70	24.21	24.10	24.06	0.55	24.70
		8	7	23.95	24.03	24.08	1.00	24.70	24.12	24.10	24.05	0.55	24.70
	16QAM	15	0	23.89	24.02	23.83	1.00	24.70	23.95	24.19	23.96	0.55	24.70
		1	0	23.87	23.95	24.09	1.00	24.70	24.09	24.13	24.11	0.55	24.70
		1	8	24.01	23.87	23.94	1.00	24.70	24.03	24.20	24.22	0.55	24.70
		1	14	23.84	23.86	24.06	1.00	24.70	24.05	24.13	24.06	0.55	24.70
		8	0	22.89	22.82	23.03	2.00	23.70	23.17	23.10	23.20	1.55	23.70
		8	4	23.03	22.94	22.82	2.00	23.70	23.11	23.04	23.11	1.55	23.70
	64QAM	8	7	22.83	22.96	22.96	2.00	23.70	23.07	22.96	23.13	1.55	23.70
		15	0	23.09	22.94	22.82	2.00	23.70	23.22	23.18	23.03	1.55	23.70
		1	0	22.93	22.99	23.02	2.00	23.70	23.05	23.07	23.23	1.55	23.70
		1	8	22.86	22.99	22.95	2.00	23.70	23.19	22.96	23.19	1.55	23.70
		1	14	22.89	22.89	22.87	2.00	23.70	23.03	22.97	22.96	1.55	23.70
		8	0	21.93	22.02	22.09	3.00	22.70	22.05	21.99	22.14	2.55	22.70
	256QAM	8	4	21.93	21.93	22.07	3.00	22.70	22.18	22.10	22.10	2.55	22.70
		8	7	22.07	21.95	21.94	3.00	22.70	21.96	22.10	22.00	2.55	22.70
		15	0	21.90	21.94	21.92	3.00	22.70	22.11	22.18	22.03	2.55	22.70
		1	0	19.81	19.90	19.89	5.00	20.70	20.24	20.22	20.17	4.50	20.75
		1	8	19.88	20.02	20.10	5.00	20.70	20.16	20.20	20.17	4.50	20.75
		1	14	20.06	19.97	19.85	5.00	20.70	20.16	19.96	20.22	4.50	20.75
1.4 MHz	QPSK	8	0	19.89	19.91	19.84	5.00	20.70	20.23	20.03	20.12	4.50	20.75
		8	4	19.99	19.97	19.95	5.00	20.70	20.07	20.02	19.99	4.50	20.75
		8	7	19.85	19.97	19.99	5.00	20.70	20.22	20.13	20.23	4.50	20.75
		15	0	19.98	20.09	19.94	5.00	20.70	20.21	20.10	20.20	4.50	20.75
	16QAM	1	0	24.85	24.70	24.70	0.00	25.70	24.72	24.62	24.65	0.00	25.25
		1	3	24.86	24.70	24.70	0.00	25.70	24.74	24.58	24.54	0.00	25.25
		1	5	24.76	24.70	24.70	0.00	25.70	24.58	24.52	24.57	0.00	25.25
		3	0	24.05	23.88	24.04	0.00	24.70	24.25	24.25	24.25	0.00	25.25
		3	1	23.88	23.92	24.08	0.00	24.70	24.25	24.25	24.25	0.00	25.25
		3	3	24.04	23.96	23.91	0.00	24.70	24.25	24.25	24.25	0.00	25.25
	64QAM	6	0	23.82	23.83	23.82	1.00	24.70	24.18	24.18	24.18	0.55	24.70
		1	0	24.06	24.01	23.84	1.00	24.70	24.10	24.13	24.18	0.55	24.70
		1	3	23.99	23.82	23.83	1.00	24.70	24.01	24.09	23.98	0.55	24.70
		1	5	23.90	24.04	23.98	1.00	24.70	24.12	24.00	24.17	0.55	24.70
		3	0	22.82	22.97	22.91	1.00	23.70	23.70	23.70	23.70	0.55	24.70
		3	1	23.03	23.04	22.85	1.00	23.70	23.70	23.70	23.70	0.55	24.70
	256QAM	3	3	22.87	22.96	23.00	1.00	23.70	23.70	23.70	23.70	0.55	24.70
		6	0	22.90	22.94	22.98	2.00	23.70	23.10	22.95	23.01	1.55	23.70
		1	0	22.95	22.80	23.03	2.00	23.70	23.17	23.06	23.25	1.55	23.70
		1	3	22.98	22.92	22.81	2.00	23.70	23.08	23.20	23.00	1.55	23.70
		1	5	22.99	23.08	22.87	2.00	23.70	23.17	23.13	23.19	1.55	23.70
		3	0	21.81	22.04	21.84	2.00	22.70	22.70	22.70	22.70	1.55	23.70
	64QAM	3	1	21.98	22.01	22.04	2.00	22.70	22.70	22.70	22.70	1.55	23.70
		3	3	21.89	21.84	21.95	2.00	22.70	22.70	22.70	22.70	1.55	23.70
		6	0	21.84	21.83	21.87	3.00	22.70	22.06	22.23	22.17	2.55	22.70
	256QAM	1	0	19.99	19.87	19.95	5.00	20.70	20.16	20.23	20.02	4.50	20.75
		1	3	19.98	20.09	20.05	5.00	20.70	20.06	20.23	20.06	4.50	20.75
		1	5	19.88	19.95	20.00	5.00	20.70	19.97	20.06	20.09	4.50	20.75
		3	0	19.99	20.05	19.93	5.00	20.70	20.22	20.09	20.02	4.50	20.75
	256QAM	3	1	19.93	20.00	19.99	5.00	20.70	19.99	20.12	20.13	4.50	20.75
		3	3	20.02	20.04	19.82	5.00	20.70	20.09	20.13	19.95	4.50	20.75
		6	0	20.06	20.02	19.96	5.00	20.70	20.19	20.03	20.12	4.50	20.75

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	23.98	24.06	24.15	0.00	24.50	23.98	24.06	24.15	0.00	24.50
		1	25	24.07	24.40	24.19	0.00	24.50	24.07	24.40	24.19	0.00	24.50
		1	49	23.95	24.13	24.02	0.00	24.50	23.95	24.13	24.02	0.00	24.50
		25	0	23.16	23.08	23.06	1.00	23.50	23.16	23.08	23.06	1.00	23.50
		25	12	23.17	23.38	23.10	1.00	23.50	23.17	23.38	23.10	1.00	23.50
		25	25	22.94	23.12	23.07	1.00	23.50	22.94	23.12	23.07	1.00	23.50
	16QAM	50	0	23.19	23.20	23.17	1.00	23.50	23.19	23.20	23.17	1.00	23.50
		1	0	23.15	22.93	23.03	1.00	23.50	23.15	22.93	23.03	1.00	23.50
		1	25	23.14	23.00	23.07	1.00	23.50	23.14	23.00	23.07	1.00	23.50
		1	49	23.12	22.91	23.11	1.00	23.50	23.12	22.91	23.11	1.00	23.50
		25	0	21.96	22.06	21.93	2.00	22.50	21.96	22.06	21.93	2.00	22.50
		25	12	22.01	22.05	21.92	2.00	22.50	22.01	22.05	21.92	2.00	22.50
	64QAM	25	25	21.99	22.17	22.00	2.00	22.50	21.99	22.17	22.00	2.00	22.50
		50	0	21.94	22.11	21.99	2.00	22.50	21.94	22.11	21.99	2.00	22.50
		1	0	22.10	22.08	22.05	2.00	22.50	22.10	22.08	22.05	2.00	22.50
		1	25	22.09	22.18	22.02	2.00	22.50	22.09	22.18	22.02	2.00	22.50
		1	49	22.04	22.01	22.09	2.00	22.50	22.04	22.01	22.09	2.00	22.50
		25	0	21.06	21.08	20.98	3.00	21.50	21.06	21.08	20.98	3.00	21.50
	256QAM	25	12	21.07	21.17	21.00	3.00	21.50	21.07	21.17	21.00	3.00	21.50
		25	25	21.04	21.07	21.11	3.00	21.50	21.04	21.07	21.11	3.00	21.50
		50	0	21.07	21.15	20.99	3.00	21.50	21.07	21.15	20.99	3.00	21.50
		1	0	19.08	19.03	19.19	5.00	19.50	19.08	19.03	19.19	5.00	19.50
		1	25	19.20	19.19	19.10	5.00	19.50	19.20	19.19	19.10	5.00	19.50
		1	49	19.16	19.13	19.02	5.00	19.50	19.16	19.13	19.02	5.00	19.50
		25	0	19.20	18.96	18.95	5.00	19.50	19.20	18.96	18.95	5.00	19.50
		25	12	18.94	19.05	19.05	5.00	19.50	18.94	19.05	19.05	5.00	19.50
		25	25	19.11	19.15	19.11	5.00	19.50	19.11	19.15	19.11	5.00	19.50
		50	0	19.02	19.11	19.10	5.00	19.50	19.02	19.11	19.10	5.00	19.50
5 MHz	QPSK	1	0	24.03	24.14	23.98	0.00	24.50	24.03	24.14	23.98	0.00	24.50
		1	12	24.04	23.91	23.92	0.00	24.50	24.04	23.91	23.92	0.00	24.50
		1	24	23.99	23.94	23.98	0.00	24.50	23.99	23.94	23.98	0.00	24.50
		12	0	22.99	23.02	22.97	1.00	23.50	22.99	23.02	22.97	1.00	23.50
		12	7	22.94	22.96	23.17	1.00	23.50	22.94	22.96	23.17	1.00	23.50
		12	13	23.02	23.18	22.96	1.00	23.50	23.02	23.18	22.96	1.00	23.50
	16QAM	25	0	22.96	23.13	22.96	1.00	23.50	22.96	23.13	22.96	1.00	23.50
		1	0	23.02	23.15	22.95	1.00	23.50	23.02	23.15	22.95	1.00	23.50
		1	12	23.16	22.96	23.07	1.00	23.50	23.16	22.96	23.07	1.00	23.50
		1	24	23.16	22.92	22.99	1.00	23.50	23.16	22.92	22.99	1.00	23.50
		12	0	22.00	22.20	22.01	2.00	22.50	22.00	22.20	22.01	2.00	22.50
		12	7	21.98	22.11	22.11	2.00	22.50	21.98	22.11	22.11	2.00	22.50
	64QAM	12	13	22.07	21.91	21.98	2.00	22.50	22.07	21.91	21.98	2.00	22.50
		25	0	22.01	22.19	22.01	2.00	22.50	22.01	22.19	22.01	2.00	22.50
		1	0	22.17	22.11	22.05	2.00	22.50	22.17	22.11	22.05	2.00	22.50
		1	12	22.20	22.06	22.17	2.00	22.50	22.20	22.06	22.17	2.00	22.50
		1	24	22.03	22.07	22.01	2.00	22.50	22.03	22.07	22.01	2.00	22.50
		12	0	21.06	21.12	20.95	3.00	21.50	21.06	21.12	20.95	3.00	21.50
	256QAM	12	7	21.03	21.07	21.01	3.00	21.50	21.03	21.07	21.01	3.00	21.50
		12	13	21.09	21.04	20.99	3.00	21.50	21.09	21.04	20.99	3.00	21.50
		25	0	21.16	21.16	21.00	3.00	21.50	21.16	21.16	21.00	3.00	21.50
		1	0	19.18	18.95	19.00	5.00	19.50	19.18	18.95	19.00	5.00	19.50
		1	12	19.16	19.12	19.10	5.00	19.50	19.16	19.12	19.10	5.00	19.50
		1	24	18.91	19.05	19.17	5.00	19.50	18.91	19.05	19.17	5.00	19.50
		12	0	19.17	19.02	18.91	5.00	19.50	19.17	19.02	18.91	5.00	19.50
		12	7	18.97	19.00	19.14	5.00	19.50	18.97	19.00	19.14	5.00	19.50
		12	13	19.08	19.13	19.06	5.00	19.50	19.08	19.13	19.06	5.00	19.50
		25	0	19.14	19.03	18.96	5.00	19.50	19.14	19.03	18.96	5.00	19.50

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	24.01	23.97	23.91	0.00	24.50	24.01	23.97	23.91	0.00	24.50
		1	8	24.18	24.02	24.17	0.00	24.50	24.18	24.02	24.17	0.00	24.50
		1	14	23.99	23.90	24.08	0.00	24.50	23.99	23.90	24.08	0.00	24.50
		8	0	23.12	22.96	23.08	1.00	23.50	23.12	22.96	23.08	1.00	23.50
		8	4	23.19	22.93	22.92	1.00	23.50	23.19	22.93	22.92	1.00	23.50
		8	7	23.02	22.99	23.17	1.00	23.50	23.02	22.99	23.17	1.00	23.50
	16QAM	15	0	23.08	22.98	23.05	1.00	23.50	23.08	22.98	23.05	1.00	23.50
		1	0	23.08	22.97	23.04	1.00	23.50	23.08	22.97	23.04	1.00	23.50
		1	8	22.99	23.13	23.19	1.00	23.50	22.99	23.13	23.19	1.00	23.50
		1	14	23.04	23.05	23.19	1.00	23.50	23.04	23.05	23.19	1.00	23.50
		8	0	21.99	21.90	21.90	2.00	22.50	21.99	21.90	21.90	2.00	22.50
		8	4	22.13	22.19	22.10	2.00	22.50	22.13	22.19	22.10	2.00	22.50
	64QAM	8	7	22.11	22.11	22.12	2.00	22.50	22.11	22.11	22.12	2.00	22.50
		15	0	22.03	22.04	21.91	2.00	22.50	22.03	22.04	21.91	2.00	22.50
		1	0	22.05	22.05	22.12	2.00	22.50	22.05	22.05	22.12	2.00	22.50
		1	8	22.17	22.01	22.06	2.00	22.50	22.17	22.01	22.06	2.00	22.50
		1	14	21.99	22.19	22.07	2.00	22.50	21.99	22.19	22.07	2.00	22.50
		8	0	21.15	21.08	21.11	3.00	21.50	21.15	21.08	21.11	3.00	21.50
	256QAM	8	4	21.12	20.90	21.17	3.00	21.50	21.12	20.90	21.17	3.00	21.50
		8	7	20.94	21.16	21.16	3.00	21.50	20.94	21.16	21.16	3.00	21.50
		15	0	20.91	21.15	21.00	3.00	21.50	20.91	21.15	21.00	3.00	21.50
		1	0	18.96	19.09	19.04	5.00	19.50	18.96	19.09	19.04	5.00	19.50
		1	8	19.03	18.99	19.02	5.00	19.50	19.03	18.99	19.02	5.00	19.50
		1	14	19.09	18.90	19.10	5.00	19.50	19.09	18.90	19.10	5.00	19.50
1.4 MHz	QPSK	8	0	18.95	19.11	19.16	5.00	19.50	18.95	19.11	19.16	5.00	19.50
		8	4	19.13	19.04	18.92	5.00	19.50	19.13	19.04	18.92	5.00	19.50
		8	7	19.16	19.19	19.17	5.00	19.50	19.16	19.19	19.17	5.00	19.50
		15	0	19.18	19.06	19.19	5.00	19.50	19.18	19.06	19.19	5.00	19.50
	16QAM	1	0	24.04	23.95	24.14	0.00	24.50	24.04	23.95	24.14	0.00	24.50
		1	3	23.99	23.96	24.15	0.00	24.50	23.99	23.96	24.15	0.00	24.50
		1	5	24.14	24.05	24.09	0.00	24.50	24.14	24.05	24.09	0.00	24.50
		3	0	23.07	22.99	22.90	0.00	23.50	23.07	22.99	22.90	0.00	23.50
		3	1	22.92	23.07	23.18	0.00	23.50	22.92	23.07	23.18	0.00	23.50
		3	3	22.96	23.09	23.17	0.00	23.50	22.96	23.09	23.17	0.00	23.50
	64QAM	6	0	23.16	22.99	22.93	1.00	23.50	23.16	22.99	22.93	1.00	23.50
		1	0	23.18	22.98	23.20	1.00	23.50	23.18	22.98	23.20	1.00	23.50
		1	3	23.10	23.16	23.11	1.00	23.50	23.10	23.16	23.11	1.00	23.50
		1	5	23.11	23.14	22.90	1.00	23.50	23.11	23.14	22.90	1.00	23.50
		3	0	21.94	21.97	22.01	1.00	22.50	21.94	21.97	22.01	1.00	22.50
		3	1	21.98	22.16	21.96	1.00	22.50	21.98	22.16	21.96	1.00	22.50
	256QAM	3	3	21.95	22.04	22.04	1.00	22.50	21.95	22.04	22.04	1.00	22.50
		6	0	21.94	21.95	21.93	2.00	22.50	21.94	21.95	21.93	2.00	22.50
		1	0	21.93	21.98	21.91	2.00	22.50	21.93	21.98	21.91	2.00	22.50
		1	3	22.01	22.08	22.14	2.00	22.50	22.01	22.08	22.14	2.00	22.50
		1	5	22.05	21.98	22.07	2.00	22.50	22.05	21.98	22.07	2.00	22.50
		3	0	21.06	20.98	20.92	2.00	21.50	21.06	20.98	20.92	2.00	21.50
	64QAM	3	1	21.09	21.07	20.99	2.00	21.50	21.09	21.07	20.99	2.00	21.50
		3	3	21.18	21.13	20.91	2.00	21.50	21.18	21.13	20.91	2.00	21.50
		6	0	21.13	21.03	20.94	3.00	21.50	21.13	21.03	20.94	3.00	21.50
	256QAM	1	0	19.08	19.15	19.17	5.00	19.50	19.08	19.15	19.17	5.00	19.50
		1	3	19.17	18.93	19.16	5.00	19.50	19.17	18.93	19.16	5.00	19.50
		1	5	19.01	19.09	19.18	5.00	19.50	19.01	19.09	19.18	5.00	19.50
		3	0	19.15	19.17	19.02	5.00	19.50	19.15	19.17	19.02	5.00	19.50
	256QAM	3	1	19.10	18.94	19.12	5.00	19.50	19.10	18.94	19.12	5.00	19.50
		3	3	18.90	18.92	19.07	5.00	19.50	18.90	18.92	19.07	5.00	19.50
		6	0	19.01	19.06	18.91	5.00	19.50	19.01	19.06	18.91	5.00	19.50

LTE Band 30 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
					27710		MPR	Tune-up Limit		27710		MPR	Tune-up Limit	
					2310 MHz					2310 MHz				
10 MHz	QPSK	1	0		25.52		0.00	25.70		21.78		0.00	22.25	
		1	25		25.58		0.00	25.70		21.80		0.00	22.25	
		1	49		25.47		0.00	25.70		21.75		0.00	22.25	
		25	0		24.43		1.00	24.70		21.72		0.00	22.25	
		25	12		24.45		1.00	24.70		21.92		0.00	22.25	
		25	25		24.41		1.00	24.70		21.73		0.00	22.25	
		50	0		24.45		1.00	24.70		21.70		0.00	22.25	
	16QAM	1	0		24.27		1.00	24.70		21.70		0.00	22.25	
		1	25		24.01		1.00	24.70		21.60		0.00	22.25	
		1	49		24.10		1.00	24.70		21.59		0.00	22.25	
		25	0		23.06		2.00	23.70		21.62		0.00	22.25	
		25	12		23.05		2.00	23.70		21.71		0.00	22.25	
		25	25		23.16		2.00	23.70		21.64		0.00	22.25	
	64QAM	50	0		23.04		2.00	23.70		21.72		0.00	22.25	
		1	0		23.08		2.00	23.70		21.77		0.00	22.25	
		1	25		23.12		2.00	23.70		21.58		0.00	22.25	
		1	49		23.27		2.00	23.70		21.82		0.00	22.25	
		25	0		22.10		3.00	22.70		21.74		0.00	22.25	
		25	12		22.25		3.00	22.70		21.72		0.00	22.25	
	256QAM	25	25		22.06		3.00	22.70		21.61		0.00	22.25	
		50	0		22.24		3.00	22.70		21.83		0.00	22.25	
		1	0		20.09		5.00	20.70		20.07		1.55	20.70	
		1	25		20.26		5.00	20.70		20.18		1.55	20.70	
		1	49		20.21		5.00	20.70		20.14		1.55	20.70	
25		0		20.20		5.00	20.70		20.17		1.55	20.70		
25		12		20.02		5.00	20.70		20.02		1.55	20.70		
	25	25		20.21		5.00	20.70		20.22		1.55	20.70		
	50	0		20.04		5.00	20.70		20.14		1.55	20.70		
	5 MHz	QPSK	1	0		25.15		0.00	25.70		21.76		0.00	22.25
			1	12		25.18		0.00	25.70		21.63		0.00	22.25
			1	24		25.06		0.00	25.70		21.59		0.00	22.25
12			0		24.04		1.00	24.70		21.74		0.00	22.25	
12			7		24.06		1.00	24.70		21.66		0.00	22.25	
12			13		24.04		1.00	24.70		21.62		0.00	22.25	
25			0		24.14		1.00	24.70		21.74		0.00	22.25	
16QAM		1	0		24.06		1.00	24.70		21.68		0.00	22.25	
		1	12		24.27		1.00	24.70		21.79		0.00	22.25	
		1	24		24.24		1.00	24.70		21.62		0.00	22.25	
		12	0		23.13		2.00	23.70		21.61		0.00	22.25	
		12	7		23.13		2.00	23.70		21.68		0.00	22.25	
		12	13		23.07		2.00	23.70		21.74		0.00	22.25	
64QAM		25	0		23.28		2.00	23.70		21.78		0.00	22.25	
		1	0		23.14		2.00	23.70		21.78		0.00	22.25	
		1	12		23.08		2.00	23.70		21.70		0.00	22.25	
		1	24		23.09		2.00	23.70		21.58		0.00	22.25	
		12	0		22.29		3.00	22.70		21.73		0.00	22.25	
		12	7		22.20		3.00	22.70		21.69		0.00	22.25	
256QAM		12	13		22.10		3.00	22.70		21.57		0.00	22.25	
		25	0		22.03		3.00	22.70		21.66		0.00	22.25	
		1	0		20.08		5.00	20.70		20.21		1.55	20.70	
		1	12		20.26		5.00	20.70		20.15		1.55	20.70	
		1	24		20.01		5.00	20.70		20.26		1.55	20.70	
	12	0		20.12		5.00	20.70		20.22		1.55	20.70		
	12	7		20.23		5.00	20.70		20.01		1.55	20.70		
	12	13		20.11		5.00	20.70		20.11		1.55	20.70		
	25	0		20.14		5.00	20.70		20.25		1.55	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		18.46		0.00	18.50		19.33		0.00	19.50
		1	25		18.47		0.00	18.50		19.39		0.00	19.50
		1	49		18.26		0.00	18.50		19.34		0.00	19.50
		25	0		18.32		0.00	18.50		19.48		0.00	19.50
		25	12		18.38		0.00	18.50		19.49		0.00	19.50
		25	25		18.35		0.00	18.50		19.40		0.00	19.50
		50	0		18.32		0.00	18.50		19.23		0.00	19.50
	16QAM	1	0		17.96		0.00	18.50		19.05		0.00	19.50
		1	25		18.13		0.00	18.50		19.16		0.00	19.50
		1	49		18.14		0.00	18.50		19.10		0.00	19.50
		25	0		18.07		0.00	18.50		19.05		0.00	19.50
		25	12		18.17		0.00	18.50		19.05		0.00	19.50
		25	25		18.07		0.00	18.50		18.99		0.00	19.50
		50	0		17.96		0.00	18.50		18.93		0.00	19.50
	64QAM	1	0		17.90		0.00	18.50		18.94		0.00	19.50
		1	25		17.93		0.00	18.50		19.06		0.00	19.50
		1	49		18.17		0.00	18.50		19.03		0.00	19.50
		25	0		17.98		0.00	18.50		19.19		0.00	19.50
		25	12		18.09		0.00	18.50		19.10		0.00	19.50
		25	25		18.11		0.00	18.50		19.17		0.00	19.50
		50	0		18.03		0.00	18.50		18.98		0.00	19.50
	256QAM	1	0		17.49		0.70	17.80		17.35		1.70	17.80
		1	25		17.36		0.70	17.80		17.37		1.70	17.80
		1	49		17.23		0.70	17.80		17.38		1.70	17.80
25		0		17.22		0.70	17.80		17.23		1.70	17.80	
25		12		17.38		0.70	17.80		17.35		1.70	17.80	
25		25		17.42		0.70	17.80		17.37		1.70	17.80	
50		0		17.22		0.70	17.80		17.39		1.70	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		18.02		0.00	18.50		19.09		0.00	19.50
		1	12		17.93		0.00	18.50		19.03		0.00	19.50
		1	24		18.02		0.00	18.50		19.02		0.00	19.50
		12	0		18.09		0.00	18.50		18.91		0.00	19.50
		12	7		17.98		0.00	18.50		19.09		0.00	19.50
		12	13		17.96		0.00	18.50		19.13		0.00	19.50
		25	0		18.03		0.00	18.50		18.96		0.00	19.50
	16QAM	1	0		17.92		0.00	18.50		19.09		0.00	19.50
		1	12		17.94		0.00	18.50		19.07		0.00	19.50
		1	24		18.15		0.00	18.50		18.92		0.00	19.50
		12	0		17.99		0.00	18.50		19.17		0.00	19.50
		12	7		18.17		0.00	18.50		19.04		0.00	19.50
		12	13		18.17		0.00	18.50		18.98		0.00	19.50
		25	0		18.20		0.00	18.50		19.19		0.00	19.50
	64QAM	1	0		18.12		0.00	18.50		18.96		0.00	19.50
		1	12		17.93		0.00	18.50		19.05		0.00	19.50
		1	24		18.15		0.00	18.50		19.17		0.00	19.50
		12	0		18.00		0.00	18.50		19.14		0.00	19.50
		12	7		18.00		0.00	18.50		19.17		0.00	19.50
		12	13		18.14		0.00	18.50		19.08		0.00	19.50
		25	0		18.08		0.00	18.50		18.99		0.00	19.50
	256QAM	1	0		17.21		0.70	17.80		17.46		1.70	17.80
		1	12		17.33		0.70	17.80		17.32		1.70	17.80
		1	24		17.24		0.70	17.80		17.23		1.70	17.80
12		0		17.30		0.70	17.80		17.25		1.70	17.80	
12		7		17.30		0.70	17.80		17.22		1.70	17.80	
12		13		17.45		0.70	17.80		17.30		1.70	17.80	
25		0		17.39		0.70	17.80		17.41		1.70	17.80	

LTE Band 30 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					27710		MPR	Tune-up Limit		27710		MPR	Tune-up Limit
					2310 MHz					2310 MHz			
10 MHz	QPSK	1	0		24.47		0.00	24.50		20.30		0.00	20.75
		1	25		24.50		0.00	24.50		20.48		0.00	20.75
		1	49		24.20		0.00	24.50		20.46		0.00	20.75
		25	0		23.58		0.80	23.70		20.25		0.00	20.75
		25	12		23.70		0.80	23.70		20.42		0.00	20.75
		25	25		23.58		0.80	23.70		20.34		0.00	20.75
		50	0		23.62		0.80	23.70		20.51		0.00	20.75
	16QAM	1	0		23.45		0.80	23.70		20.33		0.00	20.75
		1	25		23.45		0.80	23.70		20.34		0.00	20.75
		1	49		23.61		0.80	23.70		20.22		0.00	20.75
		25	0		22.68		1.80	22.70		20.31		0.00	20.75
		25	12		22.66		1.80	22.70		20.27		0.00	20.75
		25	25		22.69		1.80	22.70		20.29		0.00	20.75
		50	0		22.51		1.80	22.70		20.26		0.00	20.75
	64QAM	1	0		22.53		1.80	22.70		20.33		0.00	20.75
		1	25		22.51		1.80	22.70		20.15		0.00	20.75
		1	49		22.43		1.80	22.70		20.19		0.00	20.75
		25	0		21.64		2.80	21.70		20.39		0.00	20.75
		25	12		21.58		2.80	21.70		20.30		0.00	20.75
		25	25		21.67		2.80	21.70		20.41		0.00	20.75
		50	0		21.63		2.80	21.70		20.22		0.00	20.75
	256QAM	1	0		19.61		4.80	19.70		19.22		1.05	19.70
		1	25		19.63		4.80	19.70		19.30		1.05	19.70
		1	49		19.65		4.80	19.70		19.20		1.05	19.70
25		0		19.50		4.80	19.70		19.32		1.05	19.70	
25		12		19.53		4.80	19.70		19.26		1.05	19.70	
25		25		19.63		4.80	19.70		19.28		1.05	19.70	
50		0		19.43		4.80	19.70		19.29		1.05	19.70	
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					27710		MPR	Tune-up Limit		27710		MPR	Tune-up Limit
					2310 MHz					2310 MHz			
5 MHz	QPSK	1	0		24.27		0.00	24.50		20.44		0.00	20.75
		1	12		24.25		0.00	24.50		20.21		0.00	20.75
		1	24		24.24		0.00	24.50		20.31		0.00	20.75
		12	0		23.62		0.80	23.70		20.32		0.00	20.75
		12	7		23.53		0.80	23.70		20.42		0.00	20.75
		12	13		23.56		0.80	23.70		20.39		0.00	20.75
		25	0		23.60		0.80	23.70		20.41		0.00	20.75
	16QAM	1	0		23.49		0.80	23.70		20.40		0.00	20.75
		1	12		23.47		0.80	23.70		20.27		0.00	20.75
		1	24		23.69		0.80	23.70		20.40		0.00	20.75
		12	0		22.59		1.80	22.70		20.23		0.00	20.75
		12	7		22.62		1.80	22.70		20.45		0.00	20.75
		12	13		22.54		1.80	22.70		20.19		0.00	20.75
		25	0		22.57		1.80	22.70		20.41		0.00	20.75
	64QAM	1	0		22.57		1.80	22.70		20.35		0.00	20.75
		1	12		22.69		1.80	22.70		20.21		0.00	20.75
		1	24		22.62		1.80	22.70		20.22		0.00	20.75
		12	0		21.63		2.80	21.70		20.30		0.00	20.75
		12	7		21.53		2.80	21.70		20.20		0.00	20.75
		12	13		21.67		2.80	21.70		20.18		0.00	20.75
		25	0		21.58		2.80	21.70		20.16		0.00	20.75
	256QAM	1	0		19.64		4.80	19.70		19.17		1.05	19.70
		1	12		19.40		4.80	19.70		19.19		1.05	19.70
		1	24		19.65		4.80	19.70		19.25		1.05	19.70
12		0		19.66		4.80	19.70		19.11		1.05	19.70	
12		7		19.42		4.80	19.70		19.38		1.05	19.70	
12		13		19.57		4.80	19.70		19.19		1.05	19.70	
25		0		19.41		4.80	19.70		19.19		1.05	19.70	

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	20.66		0.00	20.75	20.65		0.00	21.25
		1	25	20.70		0.00	20.75	20.66		0.00	21.25
		1	49	20.55		0.00	20.75	20.49		0.00	21.25
		25	0	20.66		0.00	20.75	20.59		0.05	21.20
		25	12	20.69		0.00	20.75	20.80		0.05	21.20
		25	25	20.67		0.00	20.75	20.78		0.05	21.20
	16QAM	50	0	20.70		0.00	20.75	20.66		0.05	21.20
		1	0	20.48		0.00	20.75	20.84		0.05	21.20
		1	25	20.45		0.00	20.75	20.77		0.05	21.20
		1	49	20.51		0.00	20.75	20.80		0.05	21.20
		25	0	20.09		0.55	20.20	19.85		1.05	20.20
		25	12	20.20		0.55	20.20	19.95		1.05	20.20
	64QAM	25	25	20.08		0.55	20.20	19.71		1.05	20.20
		50	0	20.17		0.55	20.20	19.83		1.05	20.20
		1	0	20.00		0.55	20.20	19.77		1.05	20.20
		1	25	20.05		0.55	20.20	19.73		1.05	20.20
		1	49	19.98		0.55	20.20	19.74		1.05	20.20
		25	0	19.14		1.55	19.20	18.66		2.05	19.20
	256QAM	25	12	19.07		1.55	19.20	18.81		2.05	19.20
		25	25	18.95		1.55	19.20	18.72		2.05	19.20
		50	0	19.11		1.55	19.20	18.92		2.05	19.20
		1	0	16.99		3.55	17.20	16.79		4.05	17.20
		1	25	16.98		3.55	17.20	16.66		4.05	17.20
		1	49	17.01		3.55	17.20	16.83		4.05	17.20
		25	0	17.04		3.55	17.20	16.89		4.05	17.20
		25	12	17.15		3.55	17.20	16.70		4.05	17.20
		25	25	17.04		3.55	17.20	16.93		4.05	17.20
		50	0	17.08		3.55	17.20	16.83		4.05	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	20.64		0.00	20.75	20.87		0.00	21.25
		1	12	20.50		0.00	20.75	20.79		0.00	21.25
		1	24	20.62		0.00	20.75	20.87		0.00	21.25
		12	0	20.60		0.00	20.75	20.80		0.05	21.20
		12	7	20.50		0.00	20.75	20.91		0.05	21.20
		12	13	20.55		0.00	20.75	20.95		0.05	21.20
	16QAM	25	0	20.64		0.00	20.75	20.75		0.05	21.20
		1	0	20.54		0.00	20.75	20.88		0.05	21.20
		1	12	20.67		0.00	20.75	20.90		0.05	21.20
		1	24	20.75		0.00	20.75	20.73		0.05	21.20
		12	0	20.10		0.55	20.20	19.94		1.05	20.20
		12	7	19.93		0.55	20.20	19.90		1.05	20.20
	64QAM	12	13	19.91		0.55	20.20	19.82		1.05	20.20
		25	0	20.09		0.55	20.20	19.92		1.05	20.20
		1	0	20.16		0.55	20.20	19.89		1.05	20.20
		1	12	20.12		0.55	20.20	19.70		1.05	20.20
		1	24	19.99		0.55	20.20	19.86		1.05	20.20
		12	0	19.07		1.55	19.20	18.66		2.05	19.20
	256QAM	12	7	18.94		1.55	19.20	18.68		2.05	19.20
		12	13	19.16		1.55	19.20	18.90		2.05	19.20
		25	0	19.14		1.55	19.20	18.89		2.05	19.20
		1	0	16.93		3.55	17.20	16.80		4.05	17.20
		1	12	17.01		3.55	17.20	16.75		4.05	17.20
		1	24	17.16		3.55	17.20	16.91		4.05	17.20
		12	0	17.06		3.55	17.20	16.93		4.05	17.20
		12	7	17.02		3.55	17.20	16.93		4.05	17.20
		12	13	17.02		3.55	17.20	16.65		4.05	17.20
		25	0	16.93		3.55	17.20	16.65		4.05	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	MFR	Tune-up Limit	39750	40185	40620	41055	41490	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	QPSK	1	0	25.19	25.24	25.18	25.22	25.08	0.00	25.70	21.81	21.79	21.88	21.91	21.95	0.00	22.50
		1	49	25.35	25.25	25.53	25.23	25.27	0.00	25.70	21.92	21.84	21.95	21.93	21.98	0.00	22.50
		1	99	25.34	25.18	25.23	25.12	25.17	0.00	25.70	21.91	21.83	21.93	21.75	21.72	0.00	22.50
		50	0	24.21	24.16	24.25	24.06	24.21	1.00	24.70	21.86	21.76	21.71	21.74	21.85	0.00	22.50
		50	24	24.23	24.32	24.55	24.33	24.34	1.00	24.70	21.87	21.96	21.96	21.93	21.98	0.00	22.50
		50	50	24.12	24.31	24.24	24.32	24.16	1.00	24.70	21.76	21.72	21.95	21.90	21.96	0.00	22.50
		100	0	24.33	24.18	24.40	24.20	24.27	1.00	24.70	21.85	21.95	21.99	21.80	21.96	0.00	22.50
	16QAM	1	0	24.24	24.08	24.17	24.09	24.14	1.00	24.70	21.81	22.02	21.99	22.02	22.03	0.00	22.50
		1	49	24.13	24.23	24.07	24.07	24.18	1.00	24.70	21.85	22.00	21.86	21.91	21.97	0.00	22.50
		1	99	24.07	24.31	24.28	24.24	24.16	1.00	24.70	22.01	21.85	21.88	21.82	22.05	0.00	22.50
		50	0	23.15	23.31	23.30	23.31	23.30	2.00	23.70	21.92	21.87	22.06	21.83	22.00	0.00	22.50
		50	24	23.09	23.22	23.05	23.33	23.30	2.00	23.70	21.93	21.81	21.81	22.02	22.05	0.00	22.50
		50	50	23.20	23.16	23.05	23.24	23.30	2.00	23.70	22.06	21.99	21.91	22.00	21.93	0.00	22.50
		100	0	23.28	23.20	23.22	23.15	23.08	2.00	23.70	21.94	21.90	21.83	21.81	21.93	0.00	22.50
	64QAM	1	0	23.25	23.33	23.21	23.29	23.10	2.00	23.70	21.99	21.94	22.09	21.92	22.08	0.00	22.50
		1	49	23.11	23.21	23.31	23.06	23.09	2.00	23.70	21.96	21.87	21.98	21.88	21.82	0.00	22.50
		1	99	23.13	23.06	23.24	23.06	23.32	2.00	23.70	22.05	22.09	21.88	21.96	21.80	0.00	22.50
		50	0	22.29	22.20	22.08	22.15	22.25	3.00	22.70	21.93	21.84	21.98	21.92	22.07	0.00	22.50
		50	24	22.17	22.18	22.11	22.06	22.23	3.00	22.70	21.83	22.00	21.83	21.94	21.94	0.00	22.50
		50	50	22.27	22.29	22.29	22.09	22.20	3.00	22.70	22.05	22.08	21.81	22.10	21.88	0.00	22.50
		100	0	22.19	22.13	22.33	22.26	22.16	3.00	22.70	22.03	21.92	21.96	21.97	21.80	0.00	22.50
	256QAM	1	0	20.20	20.23	20.21	20.14	20.31	5.00	20.70	20.03	20.19	20.02	20.05	20.21	1.80	20.70
		1	49	20.27	20.18	20.29	20.19	20.13	5.00	20.70	20.02	20.07	20.01	20.08	20.06	1.80	20.70
		1	99	20.14	20.06	20.08	20.28	20.20	5.00	20.70	20.05	20.11	20.02	20.23	20.09	1.80	20.70
		50	0	20.07	20.07	20.13	20.12	20.18	5.00	20.70	20.13	20.28	20.18	20.02	20.14	1.80	20.70
		50	24	20.32	20.06	20.16	20.25	20.08	5.00	20.70	20.24	20.18	20.17	20.13	20.24	1.80	20.70
		50	50	20.32	20.28	20.20	20.29	20.33	5.00	20.70	20.16	20.20	20.11	20.22	20.21	1.80	20.70
		100	0	20.10	20.18	20.08	20.34	20.26	5.00	20.70	20.06	20.09	20.22	20.25	20.09	1.80	20.70
15 MHz	QPSK	1	0	25.30	25.17	25.21	25.09	25.24	0.00	25.70	21.81	22.03	22.06	22.02	22.09	0.00	22.50
		1	37	25.15	25.10	25.25	25.17	25.11	0.00	25.70	21.94	21.89	22.04	22.02	21.94	0.00	22.50
		1	74	25.26	25.19	25.23	25.20	25.26	0.00	25.70	22.04	21.90	21.84	22.01	21.96	0.00	22.50
		36	0	24.29	24.08	24.28	24.33	24.09	1.00	24.70	21.85	21.95	21.81	21.94	21.95	0.00	22.50
		36	20	24.18	24.28	24.28	24.17	24.12	1.00	24.70	22.10	21.99	21.95	22.09	21.85	0.00	22.50
		36	39	24.10	24.26	24.19	24.15	24.12	1.00	24.70	21.80	21.96	22.08	21.82	21.81	0.00	22.50
		75	0	24.27	24.13	24.16	24.23	24.23	1.00	24.70	22.09	21.95	22.03	21.85	21.97	0.00	22.50
	16QAM	1	0	24.11	24.26	24.26	24.28	24.25	1.00	24.70	21.94	21.94	21.96	21.96	21.90	0.00	22.50
		1	37	24.11	24.22	24.13	24.21	24.18	1.00	24.70	22.01	21.87	22.02	21.89	21.95	0.00	22.50
		1	74	24.07	24.17	24.23	24.06	24.25	1.00	24.70	22.00	21.90	21.87	21.99	21.83	0.00	22.50
		36	0	23.11	23.15	23.10	23.29	23.23	2.00	23.70	22.01	22.10	22.00	22.10	21.96	0.00	22.50
		36	20	23.07	23.06	23.21	23.26	23.30	2.00	23.70	22.03	21.94	22.08	21.94	22.10	0.00	22.50
		36	39	23.30	23.29	23.33	23.21	23.07	2.00	23.70	21.90	22.06	22.09	21.97	22.02	0.00	22.50
		75	0	23.19	23.21	23.21	23.19	23.19	2.00	23.70	22.08	21.82	21.91	21.80	21.90	0.00	22.50
	64QAM	1	0	23.31	23.32	23.29	23.11	23.13	2.00	23.70	22.09	22.05	22.02	21.91	21.82	0.00	22.50
		1	37	23.07	23.07	23.25	23.11	23.32	2.00	23.70	21.85	21.96	21.99	21.94	21.92	0.00	22.50
		1	74	23.20	23.30	23.28	23.28	23.19	2.00	23.70	21.98	21.83	22.08	21.88	22.03	0.00	22.50
		36	0	22.26	22.33	22.27	22.23	22.14	3.00	22.70	21.91	21.97	22.08	21.95	22.10	0.00	22.50
		36	20	22.23	22.29	22.18	22.17	22.11	3.00	22.70	22.00	21.92	22.06	21.87	21.91	0.00	22.50
		36	39	22.18	22.34	22.15	22.17	22.15	3.00	22.70	21.91	21.81	21.91	21.88	21.91	0.00	22.50
		75	0	22.34	22.27	22.35	22.24	22.28	3.00	22.70	22.09	22.10	21.82	21.86	22.07	0.00	22.50
	256QAM	1	0	20.14	20.13	20.20	20.28	20.28	5.00	20.70	20.03	20.26	20.12	20.10	20.00	1.80	20.70
		1	37	20.26	20.27	20.23	20.30	20.21	5.00	20.70	20.17	20.21	20.24	20.15	20.25	1.80	20.70
		1	74	20.07	20.16	20.08	20.16	20.28	5.00	20.70	20.24	20.00	20.07	20.15	20.12	1.80	20.70
		36	0	20.28	20.22	20.32	20.33	20.14	5.00	20.70	20.13	20.23	20.18	20.21	20.29	1.80	20.70
		36	20	20.30	20.30	20.12	20.07	20.17	5.00	20.70	20.27	20.08	20.13	20.21	20.07	1.80	20.70
		36	39	20.23	20.31	20.08	20.27	20.21	5.00	20.70	20.14	20.13	20.23	20.07	20.13	1.80	20.70
		75	0	20.12	20.25	20.22	20.14	20.31	5.00	20.70	20.25	20.11	20.10	20.27	20.26	1.80	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	40185	40620	41055	41490	MFR	Tune-up Limit	39750	40185	40620	41055	41490	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		
10 MHz	QPSK	1	0	25.11	25.31	25.28	25.06	25.21	0.00	25.70	22.04	21.86	21.84	21.91	21.99	0.00	22.50
		1	25	25.33	25.09	25.07	25.12	25.10	0.00	25.70	21.91	22.06	21.90	21.91	21.85	0.00	22.50
		1	49	25.07	25.13	25.22	25.06	25.18	0.00	25.70	21.94	21.98	22.06	21.88	21.91	0.00	22.50
		25	0	24.33	24.14	24.25	24.32	24.28	1.00	24.70	21.99	21.97	22.01	21.84	22.00	0.00	22.50
		25	12	24.34	24.27	24.28	24.34	24.31	1.00	24.70	21.85	22.08	21.89	21.83	21.80	0.00	22.50
		25	25	24.30	24.06	24.06	24.06	24.25	1.00	24.70	21.95	22.05	22.02	21.85	21.88	0.00	22.50
	16QAM	50	0	24.08	24.15	24.19	24.08	24.05	1.00	24.70	21.95	21.91	21.93	21.82	21.97	0.00	22.50
		1	0	24.32	24.10	24.08	24.16	24.26	1.00	24.70	22.02	22.01	22.01	22.03	21.80	0.00	22.50
		1	25	24.06	24.07	24.14	24.14	24.19	1.00	24.70	21.96	21.95	22.09	21.98	22.03	0.00	22.50
		1	49	24.31	24.12	24.32	24.21	24.14	1.00	24.70	22.09	22.09	21.84	21.86	21.90	0.00	22.50
		25	0	23.16	23.10	23.18	23.18	23.32	2.00	23.70	21.85	21.92	21.96	21.97	21.99	0.00	22.50
		25	12	23.12	23.17	23.19	23.22	23.20	2.00	23.70	22.01	22.00	22.02	21.97	21.94	0.00	22.50
	64QAM	25	25	23.23	23.17	23.20	23.28	23.27	2.00	23.70	21.90	21.88	22.02	21.86	21.94	0.00	22.50
		50	0	23.07	23.16	23.30	23.28	23.30	2.00	23.70	21.91	22.04	21.94	21.86	22.00	0.00	22.50
		1	0	23.08	23.31	23.20	23.27	23.20	2.00	23.70	22.04	22.09	21.84	21.92	21.87	0.00	22.50
		1	25	23.23	23.10	23.25	23.11	23.34	2.00	23.70	21.81	22.08	21.86	22.09	21.80	0.00	22.50
		1	49	23.15	23.06	23.10	23.14	23.33	2.00	23.70	21.93	21.94	21.93	21.85	21.91	0.00	22.50
		25	0	22.27	22.24	22.13	22.16	22.18	3.00	22.70	21.89	21.86	22.06	21.94	21.90	0.00	22.50
	256QAM	25	12	22.11	22.26	22.30	22.10	22.11	3.00	22.70	22.02	22.02	21.99	22.09	21.89	0.00	22.50
		25	25	22.06	22.14	22.09	22.24	22.18	3.00	22.70	21.82	21.91	21.84	21.91	22.09	0.00	22.50
		50	0	22.05	22.09	22.14	22.16	22.14	3.00	22.70	21.96	22.07	22.09	21.89	21.84	0.00	22.50
		1	0	20.19	20.22	20.21	20.22	20.31	5.00	20.70	20.18	20.00	20.29	20.16	20.02	1.80	20.70
		1	25	20.21	20.26	20.14	20.29	20.12	5.00	20.70	20.27	20.19	20.27	20.28	20.08	1.80	20.70
		1	49	20.22	20.19	20.11	20.13	20.07	5.00	20.70	20.06	20.27	20.11	20.04	20.10	1.80	20.70
		25	0	20.09	20.14	20.25	20.33	20.30	5.00	20.70	20.07	20.06	20.26	20.23	20.03	1.80	20.70
		25	12	20.31	20.32	20.24	20.31	20.26	5.00	20.70	20.23	20.06	20.05	20.27	20.07	1.80	20.70
		25	25	20.21	20.24	20.29	20.32	20.15	5.00	20.70	20.18	20.01	20.03	20.21	20.24	1.80	20.70
		50	0	20.16	20.23	20.28	20.14	20.20	5.00	20.70	20.25	20.25	20.15	20.27	20.28	1.80	20.70
5 MHz	QPSK	1	0	25.33	25.23	25.07	25.20	25.07	0.00	25.70	21.85	21.84	21.83	21.97	21.94	0.00	22.50
		1	12	25.06	25.24	25.35	25.12	25.19	0.00	25.70	22.04	22.02	22.09	21.99	22.05	0.00	22.50
		1	24	25.29	25.07	25.21	25.33	25.24	0.00	25.70	21.91	21.97	22.06	21.97	21.97	0.00	22.50
		12	0	24.24	24.16	24.07	24.22	24.08	1.00	24.70	21.89	21.81	22.10	22.04	21.82	0.00	22.50
		12	7	24.25	24.07	24.32	24.15	24.11	1.00	24.70	21.83	21.99	21.90	22.05	21.85	0.00	22.50
		12	13	24.29	24.32	24.17	24.14	24.13	1.00	24.70	21.81	21.82	21.98	21.85	22.01	0.00	22.50
	16QAM	25	0	24.14	24.14	24.15	24.13	24.06	1.00	24.70	21.83	21.88	21.99	21.96	21.90	0.00	22.50
		1	0	24.05	24.10	24.12	24.18	24.26	1.00	24.70	21.87	22.07	22.03	21.95	22.09	0.00	22.50
		1	12	24.18	24.27	24.33	24.32	24.27	1.00	24.70	21.97	22.07	21.92	22.09	21.80	0.00	22.50
		1	24	24.34	24.09	24.17	24.08	24.16	1.00	24.70	21.91	22.02	22.10	21.95	22.06	0.00	22.50
		12	0	23.35	23.33	23.27	23.32	23.27	2.00	23.70	21.94	21.93	21.87	22.09	22.00	0.00	22.50
		12	7	23.06	23.20	23.15	23.24	23.07	2.00	23.70	21.82	21.87	21.81	22.10	22.02	0.00	22.50
	64QAM	12	13	23.34	23.21	23.06	23.33	23.22	2.00	23.70	22.08	21.82	21.98	21.86	21.99	0.00	22.50
		25	0	23.31	23.17	23.20	23.28	23.05	2.00	23.70	21.86	21.96	22.07	21.89	21.86	0.00	22.50
		1	0	23.27	23.08	23.06	23.14	23.18	2.00	23.70	21.82	21.95	22.06	21.98	22.06	0.00	22.50
		1	12	23.32	23.17	23.22	23.35	23.32	2.00	23.70	21.93	21.95	21.99	21.92	22.05	0.00	22.50
		1	24	23.27	23.11	23.06	23.14	23.17	2.00	23.70	21.86	22.06	21.98	21.91	22.01	0.00	22.50
		12	0	22.31	22.33	22.11	22.06	22.23	3.00	22.70	22.05	21.99	21.93	21.92	22.03	0.00	22.50
	256QAM	12	7	22.06	22.07	22.23	22.20	22.19	3.00	22.70	21.84	22.05	21.93	21.96	22.07	0.00	22.50
		12	13	22.35	22.34	22.19	22.17	22.08	3.00	22.70	21.89	22.06	21.85	21.89	21.83	0.00	22.50
		25	0	22.08	22.15	22.09	22.27	22.17	3.00	22.70	21.91	22.08	21.91	22.02	21.91	0.00	22.50
		1	0	20.30	20.18	20.29	20.30	20.30	5.00	20.70	20.07	20.23	20.22	20.04	20.29	1.80	20.70
		1	12	20.33	20.22	20.07	20.07	20.29	5.00	20.70	20.12	20.15	20.07	20.23	20.26	1.80	20.70
		1	24	20.11	20.26	20.27	20.13	20.34	5.00	20.70	20.28	20.30	20.21	20.00	20.05	1.80	20.70
		12	0	20.34	20.09	20.31	20.22	20.12	5.00	20.70	20.07	20.11	20.13	20.10	20.14	1.80	20.70
		12	7	20.23	20.21	20.06	20.12	20.32	5.00	20.70	20.04	20.02	20.18	20.22	20.10	1.80	20.70
		12	13	20.34	20.20	20.11	20.17	20.05	5.00	20.70	20.13	20.13	20.04	20.13	20.13	1.80	20.70
		25	0	20.25	20.08	20.23	20.27	20.31	5.00	20.70	20.28	20.07	20.20	20.02	20.03	1.80	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	MFR	Tune-up Limit	39750	40185	40620	41055	41490	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		
10 MHz	QPSK	1	0	19.29	19.25	19.19	19.32	19.22	0.00	19.75	20.74	20.86	20.70	20.83	20.84	0.00	21.00
		1	25	19.29	19.30	19.28	19.21	19.20	0.00	19.75	20.64	20.62	20.81	20.85	20.62	0.00	21.00
		1	49	19.21	19.29	19.38	19.22	19.21	0.00	19.75	20.73	20.68	20.86	20.79	20.64	0.00	21.00
		25	0	19.20	19.35	19.39	19.34	19.18	0.00	19.75	20.75	20.86	20.66	20.63	20.74	0.00	21.00
		25	12	19.18	19.19	19.35	19.44	19.29	0.00	19.75	20.68	20.76	20.84	20.70	20.80	0.00	21.00
		25	25	19.36	19.30	19.25	19.33	19.39	0.00	19.75	20.64	20.61	20.89	20.73	20.72	0.00	21.00
		50	0	19.19	19.26	19.42	19.17	19.21	0.00	19.75	20.63	20.66	20.81	20.68	20.87	0.00	21.00
		1	0	19.29	19.17	19.30	19.29	19.22	0.00	19.75	20.84	20.76	20.73	20.65	20.69	0.00	21.00
	16QAM	1	25	19.18	19.26	19.27	19.39	19.33	0.00	19.75	20.70	20.88	20.84	20.66	20.72	0.00	21.00
		1	49	19.39	19.24	19.32	19.22	19.41	0.00	19.75	20.65	20.82	20.82	20.68	20.73	0.00	21.00
		25	0	19.42	19.31	19.39	19.39	19.33	0.00	19.75	20.68	20.54	20.59	20.44	20.64	0.20	20.80
		25	12	19.29	19.41	19.42	19.30	19.15	0.00	19.75	20.47	20.54	20.52	20.54	20.40	0.20	20.80
		25	25	19.28	19.24	19.30	19.30	19.38	0.00	19.75	20.53	20.45	20.68	20.57	20.63	0.20	20.80
		50	0	19.23	19.40	19.42	19.16	19.30	0.00	19.75	20.67	20.60	20.56	20.62	20.54	0.20	20.80
		1	0	19.25	19.31	19.36	19.17	19.32	0.00	19.75	20.45	20.40	20.63	20.70	20.57	0.20	20.80
		1	25	19.23	19.38	19.28	19.18	19.39	0.00	19.75	20.60	20.41	20.47	20.67	20.60	0.20	20.80
	64QAM	1	49	19.31	19.28	19.41	19.27	19.40	0.00	19.75	20.49	20.59	20.51	20.47	20.43	0.20	20.80
		25	0	19.37	19.41	19.40	19.29	19.27	0.00	19.75	19.65	19.45	19.64	19.61	19.50	1.20	19.80
		25	12	19.21	19.37	19.24	19.30	19.44	0.00	19.75	19.61	19.53	19.49	19.49	19.43	1.20	19.80
		25	25	19.31	19.31	19.27	19.42	19.24	0.00	19.75	19.47	19.70	19.56	19.51	19.47	1.20	19.80
		50	0	19.25	19.24	19.41	19.42	19.29	0.00	19.75	19.44	19.43	19.43	19.59	19.67	1.20	19.80
		1	0	17.41	17.29	17.42	17.39	17.47	1.95	17.80	17.51	17.42	17.49	17.44	17.40	3.20	17.80
		1	25	17.24	17.24	17.28	17.46	17.39	1.95	17.80	17.63	17.51	17.54	17.67	17.42	3.20	17.80
		1	49	17.47	17.34	17.48	17.45	17.31	1.95	17.80	17.60	17.57	17.50	17.60	17.56	3.20	17.80
	256QAM	25	0	17.21	17.49	17.31	17.27	17.34	1.95	17.80	17.45	17.63	17.60	17.43	17.49	3.20	17.80
		25	12	17.41	17.42	17.35	17.41	17.43	1.95	17.80	17.62	17.52	17.58	17.45	17.61	3.20	17.80
		25	25	17.39	17.27	17.29	17.38	17.21	1.95	17.80	17.49	17.65	17.49	17.45	17.54	3.20	17.80
		50	0	17.33	17.42	17.30	17.31	17.30	1.95	17.80	17.61	17.42	17.45	17.67	17.46	3.20	17.80
5 MHz	QPSK	1	0	19.42	19.35	19.36	19.28	19.27	0.00	19.75	20.78	20.82	20.83	20.78	20.73	0.00	21.00
		1	12	19.37	19.20	19.16	19.16	19.22	0.00	19.75	20.82	20.65	20.70	20.73	20.89	0.00	21.00
		1	24	19.43	19.31	19.18	19.40	19.40	0.00	19.75	20.69	20.76	20.76	20.79	20.63	0.00	21.00
		12	0	19.24	19.31	19.37	19.28	19.17	0.00	19.75	20.81	20.65	20.69	20.73	20.70	0.00	21.00
		12	7	19.38	19.34	19.35	19.18	19.32	0.00	19.75	20.84	20.84	20.71	20.78	20.61	0.00	21.00
		12	13	19.31	19.17	19.44	19.41	19.31	0.00	19.75	20.85	20.77	20.83	20.68	20.62	0.00	21.00
		25	0	19.33	19.44	19.26	19.30	19.24	0.00	19.75	20.87	20.78	20.78	20.70	20.83	0.00	21.00
		1	0	19.39	19.29	19.19	19.26	19.45	0.00	19.75	20.85	20.72	20.86	20.85	20.89	0.00	21.00
	16QAM	1	12	19.21	19.38	19.26	19.18	19.28	0.00	19.75	20.73	20.77	20.65	20.78	20.84	0.00	21.00
		1	24	19.45	19.26	19.40	19.22	19.26	0.00	19.75	20.74	20.67	20.76	20.64	20.76	0.00	21.00
		12	0	19.31	19.19	19.41	19.24	19.31	0.00	19.75	20.65	20.40	20.46	20.67	20.65	0.20	20.80
		12	7	19.34	19.39	19.30	19.29	19.32	0.00	19.75	20.56	20.43	20.42	20.44	20.59	0.20	20.80
		12	13	19.34	19.43	19.17	19.20	19.17	0.00	19.75	20.59	20.53	20.44	20.67	20.54	0.20	20.80
		25	0	19.34	19.30	19.35	19.33	19.34	0.00	19.75	20.68	20.67	20.66	20.43	20.66	0.20	20.80
		1	0	19.31	19.28	19.44	19.45	19.38	0.00	19.75	20.53	20.70	20.69	20.54	20.63	0.20	20.80
		1	12	19.30	19.21	19.37	19.30	19.36	0.00	19.75	20.50	20.49	20.40	20.54	20.62	0.20	20.80
	64QAM	1	24	19.28	19.20	19.44	19.31	19.44	0.00	19.75	20.58	20.68	20.41	20.54	20.58	0.20	20.80
		12	0	19.38	19.44	19.35	19.19	19.23	0.00	19.75	19.42	19.68	19.61	19.68	19.54	1.20	19.80
		12	7	19.22	19.29	19.16	19.37	19.23	0.00	19.75	19.40	19.65	19.66	19.55	19.57	1.20	19.80
		12	13	19.44	19.41	19.44	19.35	19.27	0.00	19.75	19.60	19.55	19.55	19.65	19.44	1.20	19.80
		25	0	19.36	19.30	19.20	19.24	19.25	0.00	19.75	19.66	19.64	19.68	19.42	19.61	1.20	19.80
		1	0	17.22	17.30	17.44	17.31	17.22	1.95	17.80	17.40	17.44	17.42	17.63	17.50	3.20	17.80
		1	12	17.46	17.49	17.37	17.21	17.48	1.95	17.80	17.69	17.51	17.49	17.52	17.56	3.20	17.80
		1	24	17.35	17.44	17.24	17.45	17.32	1.95	17.80	17.46	17.45	17.55	17.66	17.69	3.20	17.80
	256QAM	12	0	17.30	17.31	17.32	17.22	17.40	1.95	17.80	17.56	17.70	17.55	17.67	17.61	3.20	17.80
		12	7	17.27	17.30	17.35	17.30	17.32	1.95	17.80	17.50	17.68	17.65	17.53	17.59	3.20	17.80
		12	13	17.39	17.29	17.47	17.35	17.27	1.95	17.80	17.43	17.57	17.51	17.56	17.47	3.20	17.80
		25	0	17.36	17.27	17.42	17.38	17.33	1.95	17.80	17.46	17.60	17.66	17.58	17.56	3.20	17.80

LTE Band 41 Power Class 3 Measured Results (ANT3)

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	24.18	24.41	24.34	24.33	24.27	0.00	24.70	21.25	21.07	21.11	21.24	21.12	0.00	21.75
		1	49	24.33	24.43	24.62	24.34	24.32	0.00	24.70	21.59	21.54	21.54	21.56	21.60	0.00	21.75
		1	99	24.32	24.25	24.36	24.24	24.22	0.00	24.70	21.13	21.12	21.25	21.12	21.34	0.00	21.75
		50	0	23.19	23.17	23.30	23.36	23.21	1.00	23.70	21.09	21.22	21.14	21.11	21.30	0.00	21.75
		50	24	23.34	23.41	23.57	23.38	23.33	1.00	23.70	21.57	21.56	21.44	21.57	21.57	0.00	21.75
		50	50	23.32	23.27	23.30	23.37	23.23	1.00	23.70	21.20	21.29	21.14	21.22	21.06	0.00	21.75
		100	0	23.28	23.32	23.40	23.39	23.32	1.00	23.70	21.09	21.23	21.51	21.09	21.25	0.00	21.75
	16QAM	1	0	23.43	23.16	23.29	23.20	23.42	1.00	23.70	21.39	21.36	21.31	21.24	21.41	0.00	21.75
		1	49	23.44	23.28	23.32	23.17	23.31	1.00	23.70	21.37	21.34	21.24	21.21	21.34	0.00	21.75
		1	99	23.20	23.32	23.42	23.36	23.18	1.00	23.70	21.39	21.30	21.44	21.36	21.35	0.00	21.75
		50	0	22.20	22.18	22.24	22.33	22.43	2.00	22.70	21.41	21.44	21.48	21.35	21.36	0.00	21.75
		50	24	22.39	22.38	22.38	22.21	22.34	2.00	22.70	21.42	21.49	21.44	21.21	21.41	0.00	21.75
		50	50	22.25	22.29	22.42	22.34	22.34	2.00	22.70	21.39	21.44	21.32	21.48	21.45	0.00	21.75
		100	0	22.40	22.25	22.21	22.21	22.41	2.00	22.70	21.37	21.49	21.47	21.42	21.46	0.00	21.75
	64QAM	1	0	22.35	22.22	22.21	22.24	22.28	2.00	22.70	21.24	21.21	21.36	21.46	21.34	0.00	21.75
		1	49	22.17	22.16	22.30	22.43	22.19	2.00	22.70	21.49	21.27	21.38	21.39	21.32	0.00	21.75
		1	99	22.35	22.39	22.32	22.26	22.37	2.00	22.70	21.32	21.50	21.42	21.34	21.21	0.00	21.75
		50	0	21.17	21.18	21.38	21.29	21.42	3.00	21.70	21.21	21.26	21.16	21.36	21.19	0.05	21.70
		50	24	21.43	21.21	21.29	21.37	21.21	3.00	21.70	21.42	21.41	21.32	21.42	21.36	0.05	21.70
		50	50	21.23	21.36	21.20	21.15	21.39	3.00	21.70	21.44	21.18	21.27	21.30	21.16	0.05	21.70
		100	0	21.17	21.41	21.31	21.45	21.18	3.00	21.70	21.38	21.30	21.32	21.30	21.19	0.05	21.70
	256QAM	1	0	19.39	19.33	19.33	19.20	19.31	5.00	19.70	19.33	19.26	19.41	19.27	19.28	2.05	19.70
		1	49	19.29	19.31	19.23	19.41	19.43	5.00	19.70	19.28	19.30	19.29	19.33	19.27	2.05	19.70
		1	99	19.45	19.42	19.45	19.18	19.21	5.00	19.70	19.25	19.25	19.28	19.17	19.39	2.05	19.70
		50	0	19.21	19.27	19.36	19.27	19.25	5.00	19.70	19.23	19.20	19.19	19.20	19.41	2.05	19.70
		50	24	19.17	19.31	19.17	19.39	19.36	5.00	19.70	19.16	19.37	19.16	19.34	19.27	2.05	19.70
		50	50	19.39	19.36	19.44	19.19	19.43	5.00	19.70	19.22	19.42	19.40	19.23	19.17	2.05	19.70
		100	0	19.41	19.21	19.28	19.16	19.32	5.00	19.70	19.20	19.16	19.29	19.41	19.29	2.05	19.70
15 MHz	QPSK	1	0	24.41	24.33	24.45	24.19	24.21	0.00	24.70	21.31	21.44	21.43	21.22	21.21	0.00	21.75
		1	37	24.37	24.29	24.29	24.25	24.16	0.00	24.70	21.47	21.30	21.26	21.46	21.45	0.00	21.75
		1	74	24.32	24.40	24.25	24.25	24.29	0.00	24.70	21.24	21.40	21.31	21.46	21.23	0.00	21.75
		36	0	23.37	23.23	23.41	23.45	23.17	1.00	23.70	21.23	21.44	21.22	21.25	21.35	0.00	21.75
		36	20	23.44	23.30	23.19	23.31	23.21	1.00	23.70	21.32	21.44	21.22	21.27	21.40	0.00	21.75
		36	39	23.38	23.34	23.17	23.45	23.43	1.00	23.70	21.34	21.39	21.42	21.49	21.39	0.00	21.75
		75	0	23.45	23.36	23.37	23.17	23.37	1.00	23.70	21.48	21.36	21.44	21.27	21.37	0.00	21.75
	16QAM	1	0	23.37	23.36	23.30	23.22	23.23	1.00	23.70	21.37	21.26	21.39	21.31	21.40	0.00	21.75
		1	37	23.27	23.18	23.16	23.30	23.39	1.00	23.70	21.42	21.22	21.30	21.48	21.28	0.00	21.75
		1	74	23.22	23.33	23.23	23.30	23.31	1.00	23.70	21.30	21.44	21.41	21.43	21.24	0.00	21.75
		36	0	22.27	22.34	22.16	22.27	22.35	2.00	22.70	21.32	21.28	21.27	21.20	21.32	0.00	21.75
		36	20	22.34	22.38	22.43	22.33	22.39	2.00	22.70	21.29	21.47	21.28	21.47	21.43	0.00	21.75
		36	39	22.30	22.28	22.27	22.30	22.16	2.00	22.70	21.31	21.27	21.28	21.48	21.22	0.00	21.75
		75	0	22.36	22.21	22.28	22.41	22.45	2.00	22.70	21.29	21.49	21.25	21.29	21.47	0.00	21.75
	64QAM	1	0	22.45	22.27	22.23	22.30	22.18	2.00	22.70	21.46	21.45	21.41	21.49	21.23	0.00	21.75
		1	37	22.29	22.42	22.30	22.45	22.27	2.00	22.70	21.34	21.43	21.24	21.22	21.26	0.00	21.75
		1	74	22.37	22.32	22.44	22.26	22.17	2.00	22.70	21.31	21.34	21.28	21.28	21.40	0.00	21.75
		36	0	21.17	21.18	21.44	21.36	21.21	3.00	21.70	21.37	21.32	21.18	21.23	21.41	0.05	21.70
		36	20	21.15	21.16	21.17	21.18	21.26	3.00	21.70	21.39	21.43	21.34	21.15	21.37	0.05	21.70
		36	39	21.17	21.42	21.28	21.24	21.24	3.00	21.70	21.15	21.25	21.23	21.26	21.38	0.05	21.70
		75	0	21.40	21.22	21.23	21.19	21.29	3.00	21.70	21.29	21.24	21.36	21.27	21.28	0.05	21.70
	256QAM	1	0	19.21	19.44	19.36	19.44	19.29	5.00	19.70	19.15	19.37	19.20	19.22	19.40	2.05	19.70
		1	37	19.24	19.43	19.44	19.16	19.38	5.00	19.70	19.41	19.33	19.38	19.34	19.38	2.05	19.70
		1	74	19.16	19.20	19.35	19.33	19.37	5.00	19.70	19.21	19.20	19.33	19.34	19.26	2.05	19.70
		36	0	19.28	19.23	19.23	19.40	19.28	5.00	19.70	19.41	19.25	19.33	19.22	19.38	2.05	19.70
		36	20	19.33	19.31	19.15	19.44	19.39	5.00	19.70	19.43	19.44	19.20	19.35	19.32	2.05	19.70
		36	39	19.29	19.26	19.32	19.34	19.17	5.00	19.70	19.17	19.41	19.40	19.28	19.20	2.05	19.70
		75	0	19.23	19.23	19.32	19.35	19.29	5.00	19.70	19.37	19.44	19.17	19.29	19.33	2.05	19.70

LTE Band 41 Power Class 3 Measured Results (ANT3) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MFR	Tune-up Limit	39750	40185	40620	41055	41490	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		
10 MHz	QPSK	1	0	24.35	24.17	24.25	24.17	24.26	0.00	24.70	21.25	21.28	21.27	21.40	21.49	0.00	21.75
		1	25	24.38	24.24	24.44	24.31	24.32	0.00	24.70	21.48	21.47	21.21	21.38	21.41	0.00	21.75
		1	49	24.31	24.17	24.39	24.44	24.20	0.00	24.70	21.21	21.31	21.46	21.46	21.44	0.00	21.75
		25	0	23.41	23.25	23.26	23.15	23.29	1.00	23.70	21.37	21.31	21.39	21.47	21.25	0.00	21.75
		25	12	23.20	23.19	23.22	23.34	23.35	1.00	23.70	21.33	21.24	21.40	21.32	21.28	0.00	21.75
		25	25	23.32	23.36	23.19	23.23	23.24	1.00	23.70	21.35	21.46	21.49	21.50	21.50	0.00	21.75
	16QAM	50	0	23.27	23.29	23.36	23.43	23.39	1.00	23.70	21.20	21.32	21.31	21.25	21.26	0.00	21.75
		1	0	23.36	23.29	23.17	23.28	23.35	1.00	23.70	21.43	21.38	21.38	21.21	21.36	0.00	21.75
		1	25	23.29	23.32	23.29	23.25	23.15	1.00	23.70	21.23	21.24	21.37	21.38	21.31	0.00	21.75
		1	49	23.25	23.27	23.17	23.31	23.29	1.00	23.70	21.30	21.49	21.20	21.46	21.33	0.00	21.75
		25	0	22.32	22.31	22.37	22.26	22.33	2.00	22.70	21.41	21.25	21.21	21.30	21.21	0.00	21.75
		25	12	22.24	22.41	22.38	22.22	22.31	2.00	22.70	21.20	21.31	21.29	21.22	21.41	0.00	21.75
	64QAM	25	25	22.31	22.34	22.33	22.40	22.32	2.00	22.70	21.34	21.47	21.50	21.37	21.47	0.00	21.75
		50	0	22.17	22.18	22.36	22.24	22.42	2.00	22.70	21.48	21.33	21.46	21.25	21.40	0.00	21.75
		1	0	22.42	22.21	22.19	22.21	22.43	2.00	22.70	21.39	21.21	21.32	21.23	21.30	0.00	21.75
		1	25	22.39	22.37	22.27	22.16	22.18	2.00	22.70	21.42	21.47	21.32	21.44	21.30	0.00	21.75
		1	49	22.34	22.43	22.24	22.39	22.39	2.00	22.70	21.35	21.41	21.35	21.40	21.50	0.00	21.75
		25	0	21.16	21.32	21.25	21.43	21.15	3.00	21.70	21.18	21.37	21.20	21.40	21.17	0.05	21.70
	256QAM	25	12	21.33	21.18	21.38	21.28	21.43	3.00	21.70	21.43	21.17	21.35	21.42	21.28	0.05	21.70
		25	25	21.40	21.20	21.25	21.18	21.16	3.00	21.70	21.35	21.37	21.31	21.30	21.27	0.05	21.70
		50	0	21.28	21.21	21.16	21.20	21.41	3.00	21.70	21.25	21.23	21.18	21.40	21.17	0.05	21.70
		1	0	19.29	19.15	19.40	19.40	19.28	5.00	19.70	19.40	19.18	19.20	19.19	19.38	2.05	19.70
		1	25	19.20	19.38	19.24	19.34	19.32	5.00	19.70	19.25	19.32	19.33	19.33	19.33	2.05	19.70
		1	49	19.36	19.43	19.27	19.38	19.27	5.00	19.70	19.23	19.25	19.26	19.42	19.34	2.05	19.70
		25	0	19.27	19.38	19.20	19.37	19.25	5.00	19.70	19.34	19.19	19.21	19.22	19.21	2.05	19.70
		25	12	19.29	19.30	19.21	19.20	19.31	5.00	19.70	19.31	19.19	19.26	19.36	19.41	2.05	19.70
		25	25	19.44	19.16	19.43	19.43	19.37	5.00	19.70	19.16	19.35	19.18	19.16	19.36	2.05	19.70
		50	0	19.27	19.18	19.34	19.22	19.16	5.00	19.70	19.45	19.29	19.43	19.30	19.32	2.05	19.70
5 MHz	QPSK	1	0	24.35	24.26	24.29	24.26	24.31	0.00	24.70	21.46	21.43	21.43	21.24	21.25	0.00	21.75
		1	12	24.29	24.39	24.26	24.42	24.16	0.00	24.70	21.41	21.31	21.34	21.42	21.20	0.00	21.75
		1	24	24.39	24.17	24.19	24.42	24.39	0.00	24.70	21.25	21.26	21.38	21.40	21.33	0.00	21.75
		12	0	23.40	23.34	23.34	23.15	23.30	1.00	23.70	21.29	21.37	21.37	21.42	21.37	0.00	21.75
		12	7	23.33	23.22	23.18	23.33	23.18	1.00	23.70	21.37	21.37	21.43	21.48	21.26	0.00	21.75
		12	13	23.41	23.15	23.31	23.42	23.36	1.00	23.70	21.36	21.47	21.35	21.47	21.33	0.00	21.75
	16QAM	25	0	23.43	23.41	23.42	23.42	23.38	1.00	23.70	21.21	21.49	21.28	21.30	21.33	0.00	21.75
		1	0	23.29	23.25	23.19	23.24	23.24	1.00	23.70	21.37	21.39	21.37	21.37	21.43	0.00	21.75
		1	12	23.35	23.27	23.19	23.32	23.17	1.00	23.70	21.39	21.40	21.41	21.22	21.24	0.00	21.75
		1	24	23.40	23.37	23.30	23.27	23.16	1.00	23.70	21.28	21.38	21.35	21.24	21.33	0.00	21.75
		12	0	22.20	22.32	22.26	22.18	22.17	2.00	22.70	21.42	21.41	21.30	21.42	21.36	0.00	21.75
		12	7	22.18	22.40	22.33	22.44	22.41	2.00	22.70	21.22	21.30	21.21	21.23	21.32	0.00	21.75
	64QAM	12	13	22.33	22.20	22.24	22.24	22.34	2.00	22.70	21.23	21.27	21.36	21.34	21.41	0.00	21.75
		25	0	22.28	22.24	22.41	22.16	22.37	2.00	22.70	21.47	21.45	21.43	21.33	21.25	0.00	21.75
		1	0	22.41	22.26	22.32	22.30	22.32	2.00	22.70	21.48	21.27	21.26	21.37	21.41	0.00	21.75
		1	12	22.27	22.21	22.40	22.41	22.36	2.00	22.70	21.40	21.39	21.36	21.36	21.28	0.00	21.75
		1	24	22.19	22.32	22.31	22.30	22.40	2.00	22.70	21.37	21.47	21.20	21.26	21.26	0.00	21.75
		12	0	21.28	21.45	21.25	21.44	21.41	3.00	21.70	21.40	21.39	21.35	21.28	21.27	0.05	21.70
	256QAM	12	7	21.25	21.24	21.21	21.16	21.32	3.00	21.70	21.19	21.16	21.28	21.42	21.15	0.05	21.70
		12	13	21.38	21.21	21.30	21.34	21.44	3.00	21.70	21.15	21.35	21.42	21.27	21.16	0.05	21.70
		25	0	21.20	21.41	21.27	21.37	21.34	3.00	21.70	21.19	21.26	21.32	21.40	21.29	0.05	21.70
		1	0	19.24	19.35	19.20	19.18	19.34	5.00	19.70	19.28	19.21	19.35	19.45	19.27	2.05	19.70
		1	12	19.23	19.26	19.35	19.39	19.41	5.00	19.70	19.27	19.27	19.38	19.26	19.19	2.05	19.70
		1	24	19.16	19.44	19.24	19.21	19.31	5.00	19.70	19.43	19.27	19.23	19.29	19.37	2.05	19.70
		12	0	19.38	19.27	19.24	19.43	19.35	5.00	19.70	19.41	19.23	19.27	19.45	19.23	2.05	19.70
		12	7	19.37	19.16	19.28	19.37	19.43	5.00	19.70	19.35	19.43	19.18	19.32	19.35	2.05	19.70
		12	13	19.41	19.27	19.34	19.39	19.24	5.00	19.70	19.22	19.25	19.37	19.42	19.28	2.05	19.70
		25	0	19.26	19.23	19.21	19.22	19.43	5.00	19.70	19.32	19.37	19.33	19.20	19.37	2.05	19.70

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	MFR	Tune-up Limit	39750	40185	40620	41055	41490	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	QPSK	1	0	20.91	20.75	20.77	20.94	20.80	0.00	21.25	21.26	21.27	21.28	21.38	21.42	0.00	22.20
		1	49	21.19	21.25	21.23	21.21	21.08	0.00	21.25	21.44	21.42	21.30	21.40	21.46	0.00	22.20
		1	99	20.93	20.83	20.95	20.82	20.78	0.00	21.25	21.40	21.32	21.33	21.40	21.45	0.00	22.20
		50	0	20.89	20.84	20.67	20.67	20.92	0.05	21.20	20.78	20.93	20.74	20.73	20.79	1.00	21.20
		50	24	21.00	20.90	21.06	20.95	20.94	0.05	21.20	20.83	20.95	21.06	20.81	20.95	1.00	21.20
		50	50	20.89	20.77	20.75	20.94	20.80	0.05	21.20	20.81	20.91	20.80	20.80	20.94	1.00	21.20
		100	0	20.94	20.92	21.00	20.84	20.77	0.05	21.20	20.94	20.92	20.95	20.69	20.84	1.00	21.20
	16QAM	1	0	20.93	20.69	20.92	20.78	20.82	0.05	21.20	20.88	20.88	20.83	20.85	20.95	1.00	21.20
		1	49	20.72	20.87	20.90	20.74	20.75	0.05	21.20	20.83	20.94	20.76	20.87	20.66	1.00	21.20
		1	99	20.77	20.82	20.70	20.78	20.88	0.05	21.20	20.79	20.79	20.77	20.92	20.70	1.00	21.20
		50	0	19.79	19.71	19.81	19.93	19.90	1.05	20.20	19.66	19.88	19.66	19.91	19.67	2.00	20.20
		50	24	19.74	19.91	19.65	19.78	19.78	1.05	20.20	19.65	19.72	19.87	19.70	19.72	2.00	20.20
		50	50	19.75	19.65	19.68	19.74	19.77	1.05	20.20	19.88	19.87	19.75	19.72	19.74	2.00	20.20
		100	0	19.69	19.87	19.75	19.70	19.75	1.05	20.20	19.92	19.67	19.85	19.65	19.85	2.00	20.20
	64QAM	1	0	19.90	19.76	19.81	19.81	19.81	1.05	20.20	19.72	19.79	19.72	19.80	19.92	2.00	20.20
		1	49	19.73	19.70	19.78	19.88	19.91	1.05	20.20	19.90	19.89	19.67	19.89	19.77	2.00	20.20
		1	99	19.66	19.79	19.84	19.92	19.67	1.05	20.20	19.85	19.90	19.70	19.82	19.80	2.00	20.20
		50	0	18.85	18.78	18.70	18.68	18.72	2.05	19.20	18.74	18.82	18.67	18.78	18.68	3.00	19.20
		50	24	18.67	18.93	18.84	18.87	18.86	2.05	19.20	18.87	18.88	18.81	18.86	18.89	3.00	19.20
		50	50	18.92	18.69	18.66	18.95	18.91	2.05	19.20	18.81	18.73	18.66	18.94	18.92	3.00	19.20
		100	0	18.86	18.75	18.76	18.74	18.69	2.05	19.20	18.82	18.70	18.81	18.78	18.93	3.00	19.20
	256QAM	1	0	16.67	16.78	16.93	16.88	16.78	4.05	17.20	16.95	16.73	16.79	16.82	16.86	5.00	17.20
		1	49	16.78	16.86	16.78	16.90	16.71	4.05	17.20	16.89	16.73	16.68	16.69	16.76	5.00	17.20
		1	99	16.76	16.88	16.77	16.75	16.69	4.05	17.20	16.77	16.89	16.72	16.71	16.80	5.00	17.20
		50	0	16.68	16.94	16.78	16.94	16.88	4.05	17.20	16.69	16.71	16.66	16.83	16.78	5.00	17.20
		50	24	16.92	16.70	16.72	16.82	16.70	4.05	17.20	16.71	16.78	16.77	16.76	16.82	5.00	17.20
		50	50	16.86	16.75	16.83	16.86	16.70	4.05	17.20	16.85	16.85	16.92	16.88	16.90	5.00	17.20
		100	0	16.66	16.94	16.79	16.69	16.91	4.05	17.20	16.92	16.85	16.72	16.88	16.87	5.00	17.20
15 MHz	QPSK	1	0	20.93	21.00	20.85	20.89	20.72	0.00	21.25	21.67	21.65	21.77	21.86	21.86	0.00	22.20
		1	37	20.76	20.71	20.72	20.72	20.75	0.00	21.25	21.67	21.85	21.90	21.70	21.80	0.00	22.20
		1	74	20.81	20.76	20.71	20.90	20.91	0.00	21.25	21.82	21.88	21.89	21.85	21.88	0.00	22.20
		36	0	20.80	20.67	20.71	20.81	20.86	0.05	21.20	20.73	20.71	20.71	20.91	20.76	1.00	21.20
		36	20	20.68	20.66	20.95	20.78	20.93	0.05	21.20	20.82	20.88	20.74	20.81	20.66	1.00	21.20
		36	39	20.77	20.88	20.93	20.75	20.67	0.05	21.20	20.72	20.92	20.78	20.73	20.66	1.00	21.20
		75	0	20.76	20.69	20.75	20.85	20.93	0.05	21.20	20.72	20.75	20.78	20.87	20.80	1.00	21.20
	16QAM	1	0	20.84	20.90	20.82	20.81	20.86	0.05	21.20	20.71	20.82	20.87	20.86	20.66	1.00	21.20
		1	37	20.69	20.74	20.76	20.72	20.68	0.05	21.20	20.74	20.82	20.71	20.74	20.87	1.00	21.20
		1	74	20.90	20.92	20.90	20.69	20.94	0.05	21.20	20.94	20.68	20.87	20.76	20.81	1.00	21.20
		36	0	19.80	19.86	19.90	19.94	19.68	1.05	20.20	19.87	19.75	19.70	19.93	19.66	2.00	20.20
		36	20	19.70	19.74	19.68	19.92	19.78	1.05	20.20	19.70	19.75	19.79	19.81	19.82	2.00	20.20
		36	39	19.76	19.92	19.68	19.95	19.92	1.05	20.20	19.89	19.93	19.94	19.65	19.75	2.00	20.20
		75	0	19.92	19.95	19.76	19.76	19.70	1.05	20.20	19.86	19.85	19.79	19.86	19.68	2.00	20.20
	64QAM	1	0	19.83	19.82	19.70	19.68	19.95	1.05	20.20	19.93	19.72	19.90	19.80	19.87	2.00	20.20
		1	37	19.74	19.84	19.92	19.69	19.92	1.05	20.20	19.76	19.73	19.87	19.94	19.77	2.00	20.20
		1	74	19.79	19.68	19.69	19.72	19.69	1.05	20.20	19.80	19.89	19.76	19.70	19.69	2.00	20.20
		36	0	18.89	18.66	18.66	18.69	18.86	2.05	19.20	18.90	18.75	18.85	18.88	18.82	3.00	19.20
		36	20	18.92	18.68	18.90	18.94	18.68	2.05	19.20	18.79	18.79	18.82	18.90	18.68	3.00	19.20
		36	39	18.74	18.68	18.87	18.95	18.88	2.05	19.20	18.90	18.74	18.86	18.91	18.94	3.00	19.20
		75	0	18.84	18.68	18.77	18.87	18.86	2.05	19.20	18.69	18.84	18.89	18.91	18.83	3.00	19.20
	256QAM	1	0	16.95	16.90	16.84	16.73	16.87	4.05	17.20	16.72	16.83	16.72	16.89	16.74	5.00	17.20
		1	37	16.74	16.86	16.88	16.83	16.88	4.05	17.20	16.70	16.69	16.94	16.88	16.77	5.00	17.20
		1	74	16.91	16.93	16.75	16.66	16.94	4.05	17.20	16.65	16.94	16.75	16.67	16.94	5.00	17.20
		36	0	16.67	16.69	16.78	16.91	16.74	4.05	17.20	16.92	16.78	16.89	16.94	16.87	5.00	17.20
		36	20	16.88	16.87	16.89	16.89	16.81	4.05	17.20	16.93	16.85	16.68	16.68	16.75	5.00	17.20
		36	39	16.77	16.80	16.87	16.71	16.91	4.05	17.20	16.81	16.85	16.77	16.88	16.80	5.00	17.20
		75	0	16.72	16.76	16.68	16.65	16.93	4.05	17.20	16.73	16.82	16.91	16.94	16.79	5.00	17.20

LTE Band 41 Power Class 3 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)						Power Mode B (dBm)							
				39750	40185	40620	41055	41490	MFR	Tune-up Limit	39750	40185	40620	41055	41490	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		
10 MHz	QPSK	1	0	20.79	20.81	20.71	20.71	20.87	0.00	21.25	21.73	21.80	21.66	21.82	21.92	0.00	22.20
		1	25	20.98	20.97	20.92	20.71	20.95	0.00	21.25	21.73	21.76	21.68	21.88	21.82	0.00	22.20
		1	49	20.73	20.96	20.75	20.70	20.77	0.00	21.25	21.66	21.95	21.94	21.74	21.88	0.00	22.20
		25	0	20.75	20.94	20.78	20.82	20.94	0.05	21.20	20.67	20.82	20.82	20.85	20.93	1.00	21.20
		25	12	20.80	20.81	20.76	20.88	20.78	0.05	21.20	20.66	20.89	20.83	20.65	20.91	1.00	21.20
		25	25	20.80	20.86	20.80	20.83	20.68	0.05	21.20	20.86	20.84	20.80	20.74	20.69	1.00	21.20
		50	0	20.68	20.69	20.72	20.69	20.70	0.05	21.20	20.69	20.77	20.91	20.72	20.83	1.00	21.20
		1	0	20.73	20.67	20.74	20.93	20.68	0.05	21.20	20.79	20.89	20.95	20.83	20.81	1.00	21.20
	16QAM	1	25	20.80	20.91	20.80	20.89	20.92	0.05	21.20	20.68	20.88	20.75	20.81	20.84	1.00	21.20
		1	49	20.79	20.93	20.89	20.70	20.79	0.05	21.20	20.91	20.93	20.93	20.78	20.78	1.00	21.20
		25	0	19.89	19.68	19.81	19.85	19.94	1.05	20.20	19.92	19.82	19.69	19.92	19.76	2.00	20.20
		25	12	19.93	19.76	19.80	19.80	19.71	1.05	20.20	19.84	19.85	19.73	19.91	19.71	2.00	20.20
		25	25	19.82	19.69	19.86	19.69	19.68	1.05	20.20	19.70	19.68	19.80	19.86	19.76	2.00	20.20
		50	0	19.78	19.90	19.91	19.80	19.81	1.05	20.20	19.80	19.84	19.80	19.78	19.74	2.00	20.20
		1	0	19.72	19.74	19.82	19.83	19.89	1.05	20.20	19.90	19.76	19.67	19.86	19.71	2.00	20.20
		1	25	19.85	19.91	19.68	19.70	19.73	1.05	20.20	19.67	19.74	19.70	19.74	19.91	2.00	20.20
	64QAM	1	49	19.75	19.79	19.94	19.65	19.79	1.05	20.20	19.78	19.66	19.66	19.78	19.66	2.00	20.20
		25	0	18.86	18.92	18.89	18.67	18.69	2.05	19.20	18.69	18.82	18.72	18.83	18.78	3.00	19.20
		25	12	18.86	18.94	18.84	18.95	18.94	2.05	19.20	18.92	18.72	18.76	18.92	18.87	3.00	19.20
		25	25	18.94	18.79	18.74	18.89	18.82	2.05	19.20	18.78	18.90	18.93	18.83	18.67	3.00	19.20
		50	0	18.72	18.89	18.82	18.89	18.72	2.05	19.20	18.93	18.82	18.91	18.66	18.73	3.00	19.20
		1	0	16.87	16.78	16.93	16.78	16.84	4.05	17.20	16.69	16.78	16.93	16.69	16.91	5.00	17.20
		1	25	16.78	16.94	16.91	16.74	16.91	4.05	17.20	16.79	16.73	16.75	16.92	16.88	5.00	17.20
		1	49	16.67	16.70	16.72	16.72	16.69	4.05	17.20	16.82	16.88	16.79	16.68	16.69	5.00	17.20
	256QAM	25	0	16.74	16.72	16.88	16.94	16.72	4.05	17.20	16.84	16.66	16.77	16.69	16.71	5.00	17.20
		25	12	16.68	16.79	16.69	16.77	16.88	4.05	17.20	16.80	16.83	16.75	16.69	16.77	5.00	17.20
		25	25	16.73	16.90	16.72	16.66	16.74	4.05	17.20	16.95	16.81	16.69	16.76	16.75	5.00	17.20
		50	0	16.82	16.85	16.72	16.75	16.73	4.05	17.20	16.91	16.92	16.87	16.84	16.92	5.00	17.20
5 MHz	QPSK	1	0	20.93	20.89	20.85	20.73	20.87	0.00	21.25	21.81	21.73	21.83	21.77	21.82	0.00	22.20
		1	12	20.99	20.72	20.78	20.85	20.81	0.00	21.25	21.75	21.83	21.85	21.95	21.89	0.00	22.20
		1	24	20.92	20.88	20.94	20.81	20.79	0.00	21.25	21.72	21.95	21.77	21.84	21.88	0.00	22.20
		12	0	20.81	20.94	20.68	20.79	20.78	0.05	21.20	20.86	20.87	20.68	20.68	20.86	1.00	21.20
		12	7	20.83	20.71	20.75	20.75	20.84	0.05	21.20	20.74	20.72	20.82	20.72	20.73	1.00	21.20
		12	13	20.82	20.84	20.66	20.91	20.92	0.05	21.20	20.84	20.69	20.69	20.69	20.93	1.00	21.20
		25	0	20.93	20.94	20.88	20.83	20.73	0.05	21.20	20.83	20.68	20.80	20.75	20.73	1.00	21.20
		1	0	20.71	20.81	20.75	20.67	20.94	0.05	21.20	20.85	20.77	20.69	20.90	20.78	1.00	21.20
	16QAM	1	12	20.72	20.72	20.85	20.88	20.91	0.05	21.20	20.72	20.91	20.66	20.83	20.91	1.00	21.20
		1	24	20.85	20.78	20.68	20.76	20.75	0.05	21.20	20.90	20.67	20.85	20.89	20.94	1.00	21.20
		12	0	19.76	19.80	19.80	19.90	19.90	1.05	20.20	19.66	19.70	19.78	19.71	19.68	2.00	20.20
		12	7	19.68	19.84	19.87	19.81	19.93	1.05	20.20	19.85	19.94	19.90	19.94	19.94	2.00	20.20
		12	13	19.86	19.78	19.68	19.66	19.87	1.05	20.20	19.75	19.82	19.79	19.77	19.83	2.00	20.20
		25	0	19.81	19.95	19.82	19.83	19.75	1.05	20.20	19.77	19.80	19.85	19.84	19.82	2.00	20.20
		1	0	19.74	19.70	19.83	19.74	19.94	1.05	20.20	19.82	19.73	19.82	19.80	19.90	2.00	20.20
		1	12	19.66	19.95	19.79	19.81	19.70	1.05	20.20	19.75	19.79	19.82	19.66	19.90	2.00	20.20
	64QAM	1	24	19.68	19.76	19.88	19.90	19.67	1.05	20.20	19.81	19.78	19.75	19.87	19.74	2.00	20.20
		12	0	18.82	18.82	18.70	18.88	18.80	2.05	19.20	18.89	18.87	18.89	18.72	18.65	3.00	19.20
		12	7	18.91	18.88	18.71	18.82	18.77	2.05	19.20	18.86	18.71	18.88	18.88	18.75	3.00	19.20
		12	13	18.88	18.79	18.69	18.84	18.94	2.05	19.20	18.93	18.89	18.82	18.91	18.91	3.00	19.20
		25	0	18.76	18.72	18.90	18.79	18.71	2.05	19.20	18.80	18.69	18.80	18.67	18.73	3.00	19.20
		1	0	16.74	16.67	16.84	16.78	16.81	4.05	17.20	16.80	16.88	16.79	16.79	16.76	5.00	17.20
		1	12	16.94	16.91	16.91	16.95	16.79	4.05	17.20	16.85	16.79	16.80	16.72	16.83	5.00	17.20
		1	24	16.74	16.91	16.90	16.91	16.86	4.05	17.20	16.84	16.90	16.87	16.90	16.67	5.00	17.20
	256QAM	12	0	16.84	16.73	16.77	16.78	16.75	4.05	17.20	16.67	16.84	16.75	16.93	16.89	5.00	17.20
		12	7	16.93	16.84	16.67	16.75	16.80	4.05	17.20	16.81	16.84	16.71	16.83	16.67	5.00	17.20
		12	13	16.70	16.81	16.82	16.68	16.69	4.05	17.20	16.89	16.93	16.88	16.76	16.82	5.00	17.20
		25	0	16.69	16.67	16.74	16.87	16.90	4.05	17.20	16.88	16.78	16.86	16.85	16.84	5.00	17.20

LTE Band 66 Measured Results (ANT3) (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	24.08	24.00	23.85	0.00	24.70	19.99	19.94	19.88	0.00	20.75
		1	8	24.09	23.89	24.06	0.00	24.70	19.99	20.05	19.86	0.00	20.75
		1	14	24.15	23.94	24.00	0.00	24.70	19.84	19.79	19.98	0.00	20.75
		8	0	22.98	23.04	22.91	1.00	23.70	19.81	19.84	19.94	0.00	20.75
		8	4	23.08	22.93	23.02	1.00	23.70	19.93	19.90	19.90	0.00	20.75
		8	7	22.87	22.89	23.11	1.00	23.70	19.96	19.93	20.04	0.00	20.75
	16QAM	15	0	22.90	23.06	22.95	1.00	23.70	19.88	19.85	19.82	0.00	20.75
		1	0	22.92	22.94	22.92	1.00	23.70	20.00	20.04	19.81	0.00	20.75
		1	8	23.04	22.96	22.88	1.00	23.70	19.75	20.00	20.05	0.00	20.75
		1	14	22.96	22.91	22.92	1.00	23.70	19.90	20.00	19.75	0.00	20.75
		8	0	21.89	21.92	21.92	2.00	22.70	19.91	20.03	20.03	0.00	20.75
		8	4	22.11	21.92	22.11	2.00	22.70	19.78	19.79	19.97	0.00	20.75
	64QAM	8	7	22.05	21.92	22.11	2.00	22.70	19.92	19.84	19.94	0.00	20.75
		15	0	21.97	21.98	22.04	2.00	22.70	19.90	19.91	19.80	0.00	20.75
		1	0	21.98	21.94	22.08	2.00	22.70	20.02	19.85	19.87	0.00	20.75
		1	8	21.90	22.10	22.07	2.00	22.70	20.04	19.85	19.77	0.00	20.75
		1	14	22.06	22.14	21.98	2.00	22.70	19.97	19.97	19.81	0.00	20.75
		8	0	21.04	20.97	21.07	3.00	21.70	20.01	20.04	19.94	0.00	20.75
1.4 MHz	256QAM	8	4	20.97	21.14	21.01	3.00	21.70	19.83	19.81	19.93	0.00	20.75
		8	7	21.12	20.98	20.99	3.00	21.70	20.01	20.04	20.02	0.00	20.75
		15	0	20.89	21.13	21.09	3.00	21.70	19.98	19.92	20.05	0.00	20.75
		1	0	18.96	19.01	18.94	5.00	19.70	19.33	19.19	19.34	1.05	19.70
		1	8	19.14	19.07	18.87	5.00	19.70	19.20	19.18	19.37	1.05	19.70
		1	14	19.09	18.96	19.12	5.00	19.70	19.27	19.38	19.15	1.05	19.70
	QPSK	8	0	19.12	18.87	19.02	5.00	19.70	19.41	19.17	19.44	1.05	19.70
		8	4	19.05	19.10	18.96	5.00	19.70	19.24	19.19	19.27	1.05	19.70
		8	7	18.91	19.07	19.08	5.00	19.70	19.43	19.28	19.27	1.05	19.70
		15	0	19.00	19.05	19.06	5.00	19.70	19.20	19.19	19.22	1.05	19.70
		1	0	23.98	24.05	24.12	0.00	24.70	19.81	20.03	19.90	0.00	20.75
		1	3	23.87	24.09	24.00	0.00	24.70	19.91	19.82	19.77	0.00	20.75
	16QAM	1	5	24.03	24.01	24.11	0.00	24.70	20.01	19.95	19.79	0.00	20.75
		3	0	23.03	22.86	23.13	0.00	23.70	19.95	19.83	19.79	0.00	20.75
		3	1	23.06	22.98	23.04	0.00	23.70	19.99	19.99	19.95	0.00	20.75
		3	3	22.93	22.96	22.92	0.00	23.70	19.94	19.92	19.85	0.00	20.75
		6	0	22.94	23.04	22.91	1.00	23.70	20.03	19.98	19.90	0.00	20.75
		1	0	22.93	22.96	23.09	1.00	23.70	20.01	19.88	19.93	0.00	20.75
	64QAM	1	3	22.94	22.99	23.04	1.00	23.70	19.86	19.99	20.00	0.00	20.75
		1	5	23.04	22.94	22.96	1.00	23.70	19.99	19.91	19.76	0.00	20.75
		3	0	21.88	21.94	22.13	1.00	22.70	19.79	19.93	19.87	0.00	20.75
		3	1	21.99	21.93	21.99	1.00	22.70	19.91	19.91	19.99	0.00	20.75
		3	3	22.07	22.04	22.15	1.00	22.70	19.77	19.77	19.89	0.00	20.75
		6	0	21.96	21.91	21.95	2.00	22.70	19.86	19.86	19.92	0.00	20.75
	256QAM	1	0	21.85	21.96	21.93	2.00	22.70	19.96	19.80	19.77	0.00	20.75
		1	3	21.92	21.95	21.96	2.00	22.70	19.98	19.99	19.90	0.00	20.75
		1	5	21.94	21.96	21.90	2.00	22.70	19.85	19.92	19.78	0.00	20.75
		3	0	21.05	20.88	20.87	2.00	21.70	19.89	19.87	20.04	0.00	20.75
		3	1	20.99	21.12	21.08	2.00	21.70	19.98	20.00	19.86	0.00	20.75
		3	3	21.09	21.09	21.10	2.00	21.70	20.04	19.79	19.78	0.00	20.75
	QPSK	6	0	21.01	20.99	21.01	3.00	21.70	19.99	20.01	19.90	0.00	20.75
		1	0	19.12	18.95	18.86	5.00	19.70	19.17	19.32	19.23	1.05	19.70
		1	3	18.98	18.98	19.10	5.00	19.70	19.22	19.44	19.27	1.05	19.70
		1	5	18.86	18.87	19.07	5.00	19.70	19.33	19.35	19.27	1.05	19.70
		3	0	19.01	19.06	18.98	5.00	19.70	19.39	19.36	19.41	1.05	19.70
		3	1	18.91	18.93	18.97	5.00	19.70	19.16	19.19	19.30	1.05	19.70
	16QAM	3	3	19.04	18.88	19.03	5.00	19.70	19.26	19.42	19.37	1.05	19.70
		6	0	19.11	19.10	19.08	5.00	19.70	19.43	19.27	19.22	1.05	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	19.53	19.64	19.48	0.00	20.00	20.82	20.97	20.99	0.00	21.25
		1	49	19.67	19.68	19.61	0.00	20.00	21.12	21.23	21.25	0.00	21.25
		1	99	19.55	19.57	19.56	0.00	20.00	20.76	20.85	20.78	0.00	21.25
		50	0	19.55	19.48	19.66	0.00	20.00	20.90	20.87	20.85	0.00	21.25
		50	24	19.59	19.62	19.67	0.00	20.00	20.90	20.90	20.88	0.00	21.25
		50	50	19.58	19.53	19.66	0.00	20.00	20.90	20.99	20.82	0.00	21.25
	16QAM	100	0	19.41	19.63	19.60	0.00	20.00	20.83	20.87	20.70	0.00	21.25
		1	0	19.26	19.45	19.41	0.00	20.00	20.72	20.79	20.70	0.00	21.25
		1	49	19.39	19.33	19.49	0.00	20.00	20.90	20.80	20.70	0.00	21.25
		1	99	19.47	19.49	19.22	0.00	20.00	20.96	20.87	20.70	0.00	21.25
		50	0	19.21	19.34	19.26	0.00	20.00	20.33	20.35	20.37	0.55	20.70
		50	24	19.26	19.45	19.47	0.00	20.00	20.41	20.43	20.35	0.55	20.70
	64QAM	50	50	19.37	19.44	19.25	0.00	20.00	20.37	20.16	20.41	0.55	20.70
		100	0	19.42	19.40	19.46	0.00	20.00	20.20	20.16	20.34	0.55	20.70
		1	0	19.40	19.21	19.46	0.00	20.00	20.36	20.21	20.34	0.55	20.70
		1	49	19.28	19.22	19.23	0.00	20.00	20.15	20.39	20.19	0.55	20.70
		1	99	19.35	19.20	19.36	0.00	20.00	20.27	20.20	20.24	0.55	20.70
		50	0	19.20	18.95	19.06	0.30	19.70	19.29	19.41	19.21	1.55	19.70
	256QAM	50	24	19.05	19.18	18.96	0.30	19.70	19.42	19.24	19.30	1.55	19.70
		50	50	19.12	19.15	18.96	0.30	19.70	19.40	19.36	19.16	1.55	19.70
		100	0	18.96	18.92	19.17	0.30	19.70	19.25	19.28	19.16	1.55	19.70
		1	0	17.00	16.91	17.11	2.30	17.70	17.38	17.28	17.18	3.55	17.70
		1	49	16.97	16.94	17.17	2.30	17.70	17.39	17.20	17.44	3.55	17.70
		1	99	16.98	17.19	17.14	2.30	17.70	17.27	17.39	17.39	3.55	17.70
15 MHz	QPSK	50	0	17.06	17.10	17.14	2.30	17.70	17.29	17.30	17.36	3.55	17.70
		50	24	17.15	17.04	17.16	2.30	17.70	17.45	17.20	17.19	3.55	17.70
		50	50	16.99	17.02	17.04	2.30	17.70	17.16	17.25	17.21	3.55	17.70
		100	0	17.09	17.08	16.91	2.30	17.70	17.37	17.21	17.20	3.55	17.70
	16QAM	1	0	19.34	19.46	19.24	0.00	20.00	20.93	20.99	20.72	0.00	21.25
		1	37	19.50	19.26	19.25	0.00	20.00	20.96	20.85	20.99	0.00	21.25
		1	74	19.23	19.34	19.45	0.00	20.00	20.86	20.96	20.99	0.00	21.25
		36	0	19.41	19.34	19.43	0.00	20.00	20.87	20.97	20.87	0.00	21.25
		36	20	19.26	19.41	19.27	0.00	20.00	20.89	20.77	20.94	0.00	21.25
		36	39	19.33	19.44	19.49	0.00	20.00	20.75	20.72	20.78	0.00	21.25
	64QAM	75	0	19.22	19.29	19.26	0.00	20.00	20.93	20.75	20.77	0.00	21.25
		1	0	19.47	19.25	19.47	0.00	20.00	20.97	20.99	20.79	0.00	21.25
		1	37	19.32	19.23	19.32	0.00	20.00	20.99	20.81	20.75	0.00	21.25
		1	74	19.36	19.42	19.21	0.00	20.00	20.93	20.89	20.88	0.00	21.25
		36	0	19.27	19.45	19.50	0.00	20.00	20.35	20.30	20.38	0.55	20.70
		36	20	19.30	19.29	19.34	0.00	20.00	20.41	20.25	20.44	0.55	20.70
	256QAM	36	39	19.28	19.38	19.26	0.00	20.00	20.24	20.22	20.19	0.55	20.70
		75	0	19.40	19.26	19.47	0.00	20.00	20.42	20.42	20.38	0.55	20.70
		1	0	19.36	19.23	19.39	0.00	20.00	20.40	20.29	20.31	0.55	20.70
		1	37	19.32	19.41	19.33	0.00	20.00	20.27	20.41	20.26	0.55	20.70
		1	74	19.37	19.37	19.24	0.00	20.00	20.39	20.38	20.21	0.55	20.70
		36	0	19.15	19.07	18.95	0.30	19.70	19.27	19.29	19.38	1.55	19.70
	16QAM	36	20	18.90	18.98	19.05	0.30	19.70	19.25	19.38	19.41	1.55	19.70
		36	39	19.17	19.09	19.14	0.30	19.70	19.27	19.31	19.19	1.55	19.70
		75	0	19.10	19.18	19.07	0.30	19.70	19.41	19.42	19.21	1.55	19.70
		1	0	17.08	16.99	17.19	2.30	17.70	17.17	17.17	17.34	3.55	17.70
		1	37	17.17	17.16	17.20	2.30	17.70	17.38	17.17	17.26	3.55	17.70
		1	74	17.00	17.14	16.96	2.30	17.70	17.15	17.23	17.16	3.55	17.70
	64QAM	36	0	16.97	16.95	17.02	2.30	17.70	17.42	17.31	17.45	3.55	17.70
		36	20	17.05	17.13	17.02	2.30	17.70	17.40	17.19	17.38	3.55	17.70
		36	39	17.17	16.90	17.04	2.30	17.70	17.42	17.37	17.38	3.55	17.70
		75	0	16.99	16.92	17.09	2.30	17.70	17.17	17.35	17.18	3.55	17.70

LTE Band 66 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132022.00	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	19.23	19.31	19.22	0.00	20.00	20.95	20.97	20.75	0.00	21.25
		1	25	19.49	19.34	19.46	0.00	20.00	20.92	20.88	20.74	0.00	21.25
		1	49	19.35	19.23	19.31	0.00	20.00	20.86	20.75	20.93	0.00	21.25
		25	0	19.38	19.26	19.28	0.00	20.00	20.97	20.87	20.77	0.00	21.25
		25	12	19.40	19.45	19.33	0.00	20.00	20.92	20.92	20.71	0.00	21.25
		25	25	19.47	19.24	19.45	0.00	20.00	20.99	20.85	20.98	0.00	21.25
		50	0	19.46	19.37	19.45	0.00	20.00	20.75	20.86	20.76	0.00	21.25
	16QAM	1	0	19.42	19.22	19.39	0.00	20.00	20.91	20.81	20.88	0.00	21.25
		1	25	19.21	19.38	19.40	0.00	20.00	20.95	20.73	20.82	0.00	21.25
		1	49	19.40	19.40	19.46	0.00	20.00	20.98	20.87	20.91	0.00	21.25
		25	0	19.38	19.25	19.27	0.00	20.00	20.42	20.40	20.37	0.55	20.70
		25	12	19.44	19.48	19.24	0.00	20.00	20.29	20.15	20.22	0.55	20.70
		25	25	19.26	19.21	19.43	0.00	20.00	20.44	20.21	20.42	0.55	20.70
		50	0	19.41	19.34	19.48	0.00	20.00	20.37	20.28	20.41	0.55	20.70
	64QAM	1	0	19.39	19.41	19.48	0.00	20.00	20.30	20.31	20.37	0.55	20.70
		1	25	19.36	19.33	19.36	0.00	20.00	20.34	20.27	20.17	0.55	20.70
		1	49	19.25	19.44	19.23	0.00	20.00	20.17	20.36	20.22	0.55	20.70
		25	0	19.20	19.15	18.99	0.30	19.70	19.30	19.18	19.39	1.55	19.70
		25	12	18.94	19.16	18.96	0.30	19.70	19.34	19.27	19.30	1.55	19.70
		25	25	19.01	19.06	18.92	0.30	19.70	19.21	19.31	19.33	1.55	19.70
		50	0	19.04	19.16	19.15	0.30	19.70	19.43	19.41	19.25	1.55	19.70
	256QAM	1	0	16.97	17.15	16.92	2.30	17.70	17.28	17.44	17.34	3.55	17.70
		1	25	16.92	17.02	17.14	2.30	17.70	17.22	17.28	17.22	3.55	17.70
		1	49	16.98	16.93	16.96	2.30	17.70	17.29	17.20	17.45	3.55	17.70
		25	0	16.95	17.04	17.05	2.30	17.70	17.29	17.22	17.37	3.55	17.70
		25	12	16.97	17.12	17.07	2.30	17.70	17.19	17.39	17.43	3.55	17.70
		25	25	17.01	16.96	16.91	2.30	17.70	17.20	17.31	17.30	3.55	17.70
		50	0	17.00	16.93	16.95	2.30	17.70	17.39	17.16	17.16	3.55	17.70
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131997.00	132322.00	132647.00	MPR	Tune-up Limit	131997.00	132322.00	132647.00	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	19.41	19.48	19.23	0.00	20.00	20.90	20.98	20.91	0.00	21.25
		1	12	19.23	19.33	19.27	0.00	20.00	20.75	20.97	20.70	0.00	21.25
		1	24	19.46	19.25	19.26	0.00	20.00	20.85	20.77	20.78	0.00	21.25
		12	0	19.28	19.28	19.22	0.00	20.00	20.94	20.97	20.86	0.00	21.25
		12	7	19.27	19.33	19.43	0.00	20.00	20.79	20.87	20.77	0.00	21.25
		12	13	19.47	19.40	19.36	0.00	20.00	20.82	20.76	20.90	0.00	21.25
		25	0	19.49	19.47	19.41	0.00	20.00	20.75	20.88	20.85	0.00	21.25
	16QAM	1	0	19.24	19.49	19.25	0.00	20.00	20.79	20.88	20.94	0.00	21.25
		1	12	19.22	19.48	19.50	0.00	20.00	20.92	20.84	20.91	0.00	21.25
		1	24	19.35	19.24	19.32	0.00	20.00	20.97	20.70	20.71	0.00	21.25
		12	0	19.28	19.23	19.22	0.00	20.00	20.17	20.25	20.38	0.55	20.70
		12	7	19.27	19.21	19.30	0.00	20.00	20.20	20.34	20.17	0.55	20.70
		12	13	19.43	19.30	19.22	0.00	20.00	20.30	20.22	20.40	0.55	20.70
		25	0	19.21	19.24	19.23	0.00	20.00	20.35	20.36	20.41	0.55	20.70
	64QAM	1	0	19.33	19.32	19.35	0.00	20.00	20.30	20.23	20.41	0.55	20.70
		1	12	19.29	19.21	19.22	0.00	20.00	20.18	20.17	20.29	0.55	20.70
		1	24	19.39	19.42	19.46	0.00	20.00	20.29	20.26	20.32	0.55	20.70
		12	0	19.10	19.08	19.07	0.30	19.70	19.20	19.31	19.16	1.55	19.70
		12	7	19.03	19.00	19.04	0.30	19.70	19.28	19.20	19.21	1.55	19.70
		12	13	19.11	18.98	19.15	0.30	19.70	19.29	19.29	19.44	1.55	19.70
		25	0	18.95	19.14	19.18	0.30	19.70	19.34	19.19	19.19	1.55	19.70
	256QAM	1	0	17.19	16.93	16.91	2.30	17.70	17.31	17.39	17.21	3.55	17.70
		1	12	16.97	17.14	16.91	2.30	17.70	17.27	17.35	17.17	3.55	17.70
		1	24	16.91	17.14	17.08	2.30	17.70	17.15	17.40	17.20	3.55	17.70
		12	0	16.90	16.91	17.19	2.30	17.70	17.43	17.29	17.23	3.55	17.70
		12	7	17.13	17.03	17.13	2.30	17.70	17.39	17.35	17.36	3.55	17.70
		12	13	17.13	17.15	17.02	2.30	17.70	17.43	17.26	17.27	3.55	17.70
		25	0	17.05	17.01	17.03	2.30	17.70	17.43	17.18	17.41	3.55	17.70

LTE Band 66 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131987.00	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	19.50	19.38	19.27	0.00	20.00	20.93	20.74	20.96	0.00	21.25
		1	8	19.29	19.32	19.43	0.00	20.00	20.89	20.93	20.76	0.00	21.25
		1	14	19.37	19.39	19.22	0.00	20.00	20.84	20.75	20.71	0.00	21.25
		8	0	19.32	19.28	19.31	0.00	20.00	20.88	20.80	20.75	0.00	21.25
		8	4	19.46	19.44	19.41	0.00	20.00	20.76	20.85	20.92	0.00	21.25
		8	7	19.23	19.32	19.25	0.00	20.00	20.72	20.76	20.90	0.00	21.25
	16QAM	15	0	19.32	19.37	19.32	0.00	20.00	20.86	20.75	20.84	0.00	21.25
		1	0	19.26	19.37	19.44	0.00	20.00	20.78	20.93	20.88	0.00	21.25
		1	8	19.46	19.26	19.37	0.00	20.00	20.79	20.99	20.91	0.00	21.25
		1	14	19.49	19.40	19.39	0.00	20.00	20.94	20.80	20.86	0.00	21.25
		8	0	19.40	19.31	19.29	0.00	20.00	20.29	20.33	20.15	0.55	20.70
		8	4	19.29	19.22	19.31	0.00	20.00	20.42	20.18	20.30	0.55	20.70
	64QAM	8	7	19.44	19.20	19.23	0.00	20.00	20.16	20.15	20.38	0.55	20.70
		15	0	19.46	19.36	19.46	0.00	20.00	20.22	20.17	20.26	0.55	20.70
		1	0	19.29	19.26	19.34	0.00	20.00	20.34	20.28	20.35	0.55	20.70
		1	8	19.42	19.30	19.21	0.00	20.00	20.25	20.22	20.42	0.55	20.70
		1	14	19.27	19.25	19.25	0.00	20.00	20.20	20.16	20.39	0.55	20.70
		8	0	18.94	19.15	19.00	0.30	19.70	19.36	19.33	19.36	1.55	19.70
	256QAM	8	4	18.96	19.13	19.06	0.30	19.70	19.16	19.28	19.40	1.55	19.70
		8	7	19.02	19.02	18.99	0.30	19.70	19.25	19.21	19.42	1.55	19.70
		15	0	19.06	19.01	18.94	0.30	19.70	19.44	19.45	19.42	1.55	19.70
		1	0	16.98	17.19	16.92	2.30	17.70	17.32	17.23	17.29	3.55	17.70
		1	8	16.92	17.14	17.09	2.30	17.70	17.16	17.37	17.44	3.55	17.70
		1	14	16.98	17.06	16.99	2.30	17.70	17.25	17.15	17.27	3.55	17.70
		8	0	17.18	17.04	17.18	2.30	17.70	17.38	17.36	17.36	3.55	17.70
		8	4	16.91	17.12	17.17	2.30	17.70	17.37	17.43	17.38	3.55	17.70
		8	7	17.04	17.19	17.05	2.30	17.70	17.16	17.39	17.20	3.55	17.70
		15	0	17.18	16.91	16.92	2.30	17.70	17.44	17.20	17.31	3.55	17.70
1.4 MHz	QPSK	1	0	19.31	19.26	19.27	0.00	20.00	20.97	20.96	20.95	0.00	21.25
		1	3	19.33	19.29	19.42	0.00	20.00	20.78	20.81	20.94	0.00	21.25
		1	5	19.32	19.37	19.32	0.00	20.00	20.81	20.93	20.93	0.00	21.25
		3	0	19.40	19.45	19.42	0.00	20.00	20.77	20.73	20.92	0.00	21.25
		3	1	19.34	19.23	19.38	0.00	20.00	20.87	20.85	20.74	0.00	21.25
		3	3	19.42	19.22	19.21	0.00	20.00	20.96	20.71	20.93	0.00	21.25
	16QAM	6	0	19.42	19.23	19.48	0.00	20.00	20.71	20.89	20.81	0.00	21.25
		1	0	19.31	19.22	19.33	0.00	20.00	20.70	20.94	20.97	0.00	21.25
		1	3	19.27	19.49	19.42	0.00	20.00	20.95	20.88	20.95	0.00	21.25
		1	5	19.32	19.49	19.39	0.00	20.00	20.71	20.88	20.80	0.00	21.25
		3	0	19.23	19.25	19.42	0.00	20.00	20.25	20.38	20.42	0.00	21.25
		3	1	19.39	19.26	19.45	0.00	20.00	20.30	20.25	20.25	0.00	21.25
	64QAM	3	3	19.27	19.44	19.36	0.00	20.00	20.32	20.25	20.25	0.00	21.25
		6	0	19.36	19.32	19.49	0.00	20.00	20.39	20.18	20.29	0.55	20.70
		1	0	19.28	19.29	19.31	0.00	20.00	20.38	20.42	20.22	0.55	20.70
		1	3	19.38	19.37	19.22	0.00	20.00	20.41	20.16	20.23	0.55	20.70
		1	5	19.28	19.27	19.36	0.00	20.00	20.33	20.24	20.43	0.55	20.70
		3	0	19.06	19.02	19.14	0.00	20.00	19.70	19.70	19.70	0.55	20.70
	256QAM	3	1	19.14	19.10	19.00	0.00	20.00	19.70	19.70	19.70	0.55	20.70
		3	3	19.18	19.00	19.16	0.00	20.00	19.70	19.70	19.70	0.55	20.70
		6	0	19.19	19.02	18.98	0.30	19.70	19.19	19.33	19.35	1.55	19.70
		1	0	17.03	17.05	17.05	2.30	17.70	17.22	17.31	17.19	3.55	17.70
		1	3	16.95	16.90	17.00	2.30	17.70	17.42	17.26	17.33	3.55	17.70
		1	5	17.01	16.98	16.94	2.30	17.70	17.16	17.36	17.29	3.55	17.70
		3	0	17.00	17.06	16.91	2.30	17.70	17.43	17.43	17.23	3.55	17.70
		3	1	16.98	17.06	17.06	2.30	17.70	17.35	17.28	17.18	3.55	17.70
		3	3	17.18	17.16	17.07	2.30	17.70	17.22	17.42	17.22	3.55	17.70
		6	0	17.02	17.04	16.90	2.30	17.70	17.29	17.23	17.45	3.55	17.70

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

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

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

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

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 | **SCC1** | **SCC2** | **SCC3**

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

Downlink | **Uplink**

#RB: 100 | 50

Start RB: 0 | 0

Mod / TBSI: QPSK 5 | QPSK 10

Code Rate / TBS: 0.320 8760 | 0.612 8760

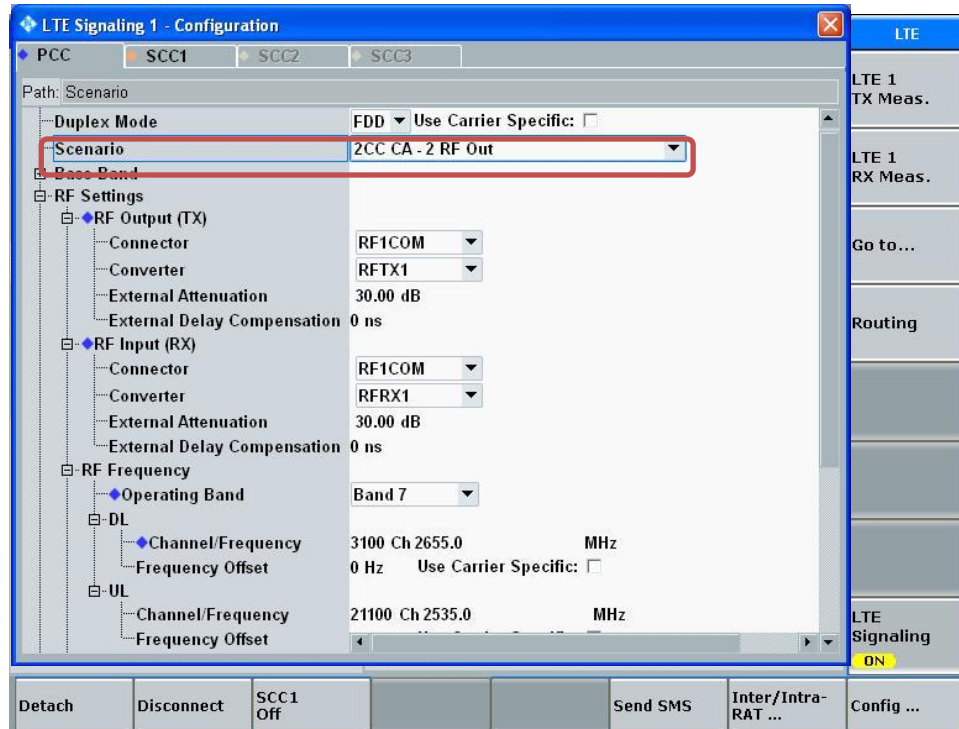
Throughput: 8.760 Mbit/s | 8.760 Mbit/s

LTE Signaling ON

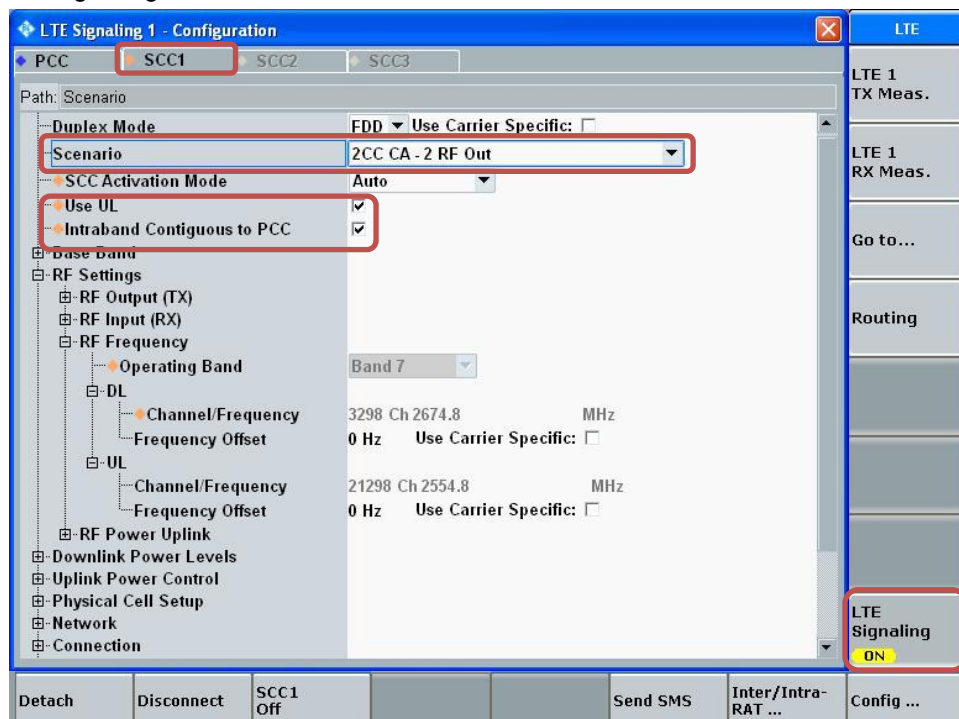
Config ...

- 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

The screenshot displays the LTE Signaling 1 - V3.5.40 - Base V 3.5.90 interface. The SCC1 tab is selected, and the configuration for the testing Cell Bandwidth and Uplink RBs is highlighted with a red box.

Connection Status: Cell, 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 Voic, UE's Usage Settl... Voice centric, Default Bearer IPv4 address 192.168.48.129fc01:abab:cdcl, IPv6 pref, Dedicated Bearer TFT Port Range DL / UL 5005 - 5008 / 5005 - 5008.

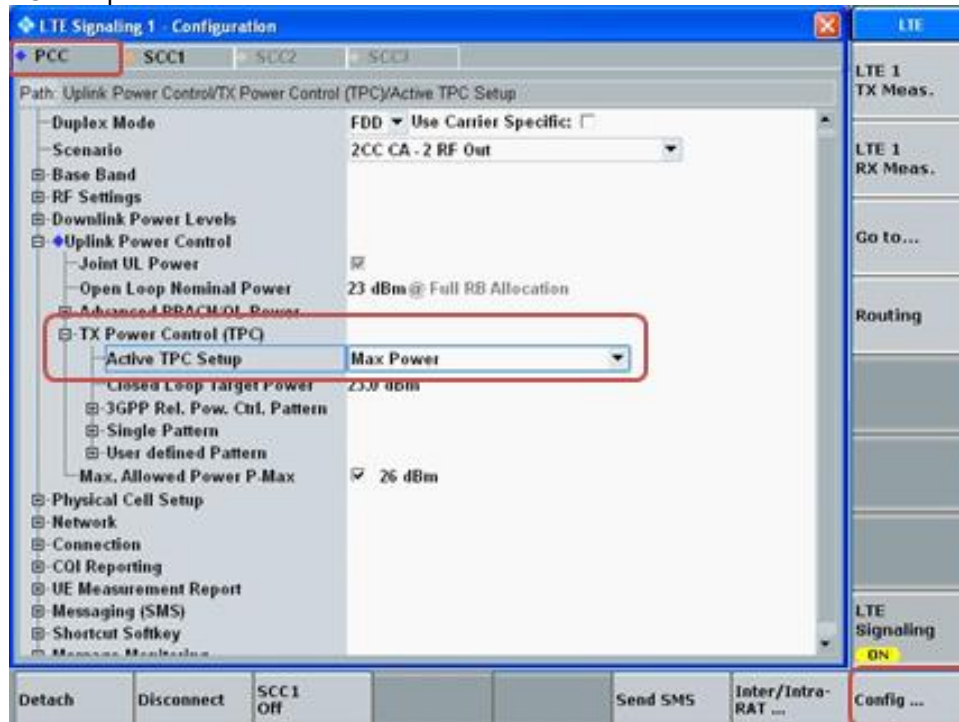
Configuration: Operating Band Band 7, FDD, Downlink Channel 3048 Ch, Frequency 2649.8 MHz, Cell Bandwidth 20.0 MHz, Uplink Channel 21048 Ch, Frequency 2529.8 MHz, RS EPRE -85.8 dBm/15kHz, Full Cell BW Pow. -55.0 dBm, PUSCH Open Loop Nom.Power 23 dBm, PUSCH Closed Loop Target Power 33.0 dBm, Intraband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

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

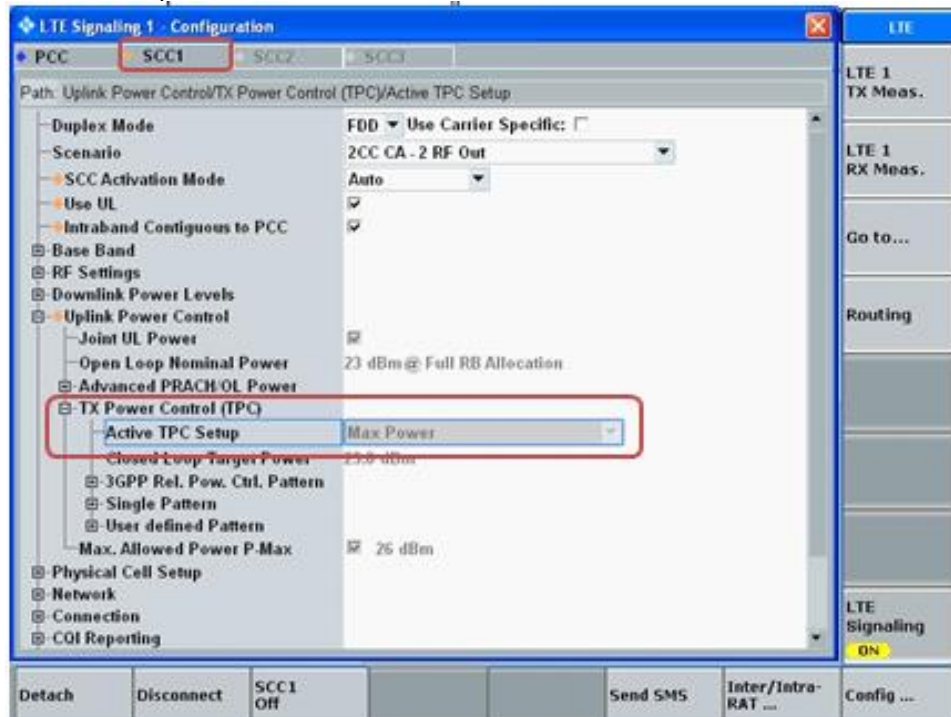
Buttons: Detach, Disconnect, SCC1 Off, Send SMS, Inter/Intra-RAT ..., Config ...

Max Power Setting

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

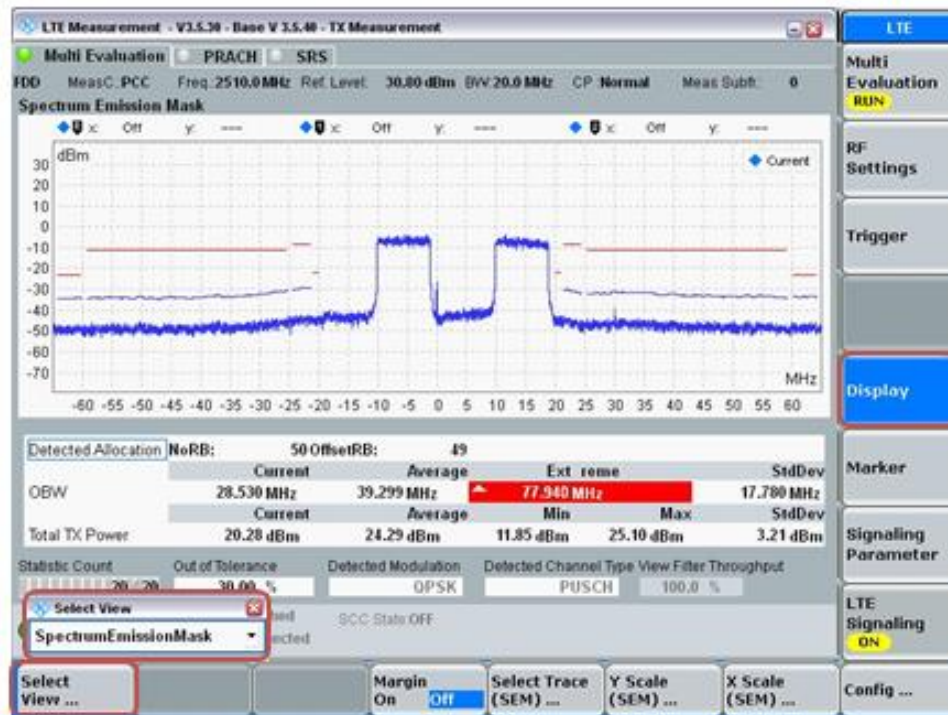


- Select SCC1 tab
- Verify that “Active TPC Setup” is set to “Max Power”



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:

- 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
- 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)
- 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	25.25	24.50	24.50				
CA_7C	QPSK	25.25	19.00	19.00	19.25	24.50	19.00	19.50	20.25
CA_41C (PC3)	QPSK	25.70	22.50	19.75	21.00	24.70	21.75	21.25	22.20
CA_41C (PC2)	QPSK	27.25	N/A	N/A	N/A	25.70	N/A	N/A	22.25
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	21.50	20.25	21.50	25.70	23.00	20.00	21.50

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	25.22	25.70	25.43	0.2
CA_5B	ANT 1	Mode B	QPSK	10	831.6	1	49	5	841.5	1	0	25.25	25.06	25.25	24.98	-0.1
CA_5B	ANT 2	Mode A	QPSK	10	831.6	1	49	5	841.5	1	0	24.50	24.41	24.50	24.39	0.0
CA_5B	ANT 2	Mode B	QPSK	10	831.6	1	49	5	841.5	1	0	24.50	24.41	24.50	24.18	-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	25.25	24.92	25.25	25.08	0.2
CA_7C	ANT 1	Mode B	QPSK	20	2525.1	1	99	20	2544.9	1	0	19.00	18.79	19.00	18.63	-0.2
CA_7C	ANT 2	Mode A	QPSK	20	2540.2	1	99	20	2560	1	0	19.00	18.55	19.00	18.62	0.1
CA_7C	ANT 2	Mode B	QPSK	20	2540.2	1	99	20	2560	1	0	19.25	19.00	19.25	18.85	-0.2
CA_7C	ANT 3	Mode A	QPSK	20	2510	1	99	20	2529.8	1	0	24.50	24.25	24.50	24.06	-0.2
CA_7C	ANT 3	Mode B	QPSK	20	2510	1	99	20	2529.8	1	0	19.00	18.96	19.00	18.76	-0.2
CA_7C	ANT 3	Mode B	QPSK	20	2510.0	1	99	20	2529.8	1	0	19.00	18.96	19.00	18.88	-0.1
CA_7C	ANT 4	Mode A	QPSK	20	2525.1	1	99	20	2544.9	1	0	19.50	19.49	19.50	19.33	-0.2
CA_7C	ANT 4	Mode B	QPSK	20	2525.1	1	99	20	2544.9	1	0	20.25	19.85	20.25	20.00	0.2
CA_7C	ANT 4	Mode B	QPSK	20	2525.1	1	99	20	2544.9	1	0	20.25	19.85	20.25	19.75	-0.1

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	25.53	25.70	25.38	-0.1
CA_41C	ANT 1	Mode B	QPSK	20	2583.1	1	99	20	2602.9	1	0	22.50	21.92	22.50	21.91	0.0
CA_41C	ANT 2	Mode A	QPSK	20	2660.2	1	99	20	2680	1	0	19.75	19.51	19.75	19.34	-0.2
CA_41C	ANT 2	Mode B	QPSK	20	2660.2	1	99	20	2680.0	1	0	21.00	20.90	21.00	20.82	-0.1
CA_41C	ANT 3	Mode A	QPSK	20	2583.1	1	99	20	2602.9	1	0	24.70	24.62	24.70	24.48	-0.1
CA_41C	ANT 3	Mode B	QPSK	20	2583.1	1	99	20	2602.9	1	0	21.75	21.59	21.75	21.50	-0.1
CA_41C	ANT 4	Mode A	QPSK	20	2506.0	1	99	20	2525.8	1	0	21.25	21.19	21.25	20.95	-0.2
CA_41C	ANT 4	Mode B	QPSK	20	2583.1	1	99	20	2602.9	1	0	22.20	21.45	22.20	21.30	-0.2
CA_41C	ANT 4	Mode B	QPSK	20	2506	1	99	20	2525.8	1	0	22.20	21.45	22.20	21.64	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	25.46	25.70	25.31	-0.2
CA_48C	ANT 7	Mode B	QPSK	20	3560.0	1	99	20	3579.8	1	0	21.50	21.50	21.50	21.28	-0.2
CA_48C	ANT 7	Mode B	QPSK	20	3560.0	1	99	20	3579.8	1	0	21.50	21.50	21.50	21.31	-0.2
CA_48C	ANT 4	Mode A	QPSK	20	3607.2	1	99	20	3690.0	1	0	20.00	19.90	20.00	19.92	0.0
CA_48C	ANT 4	Mode B	QPSK	20	3615.1	1	99	20	3634.9	1	0	21.50	21.40	21.50	21.46	0.1
CA_48C	ANT 4	Mode B	QPSK	20	3607.2	1	99	20	3690	1	0	21.50	21.40	21.50	21.36	0.0
CA_48C	ANT 9	Mode A	QPSK	20	3615.1	1	99	20	3634.9	1	0	25.70	25.70	25.70	25.69	0.0
CA_48C	ANT 9	Mode B	QPSK	20	3560	1	99	20	3579.8	1	0	23.00	22.99	23.00	22.76	-0.2
CA_48C	ANT 8	Mode A	QPSK	20	3615.1	1	99	20	3634.9	1	0	20.25	19.95	20.25	20.07	0.1
CA_48C	ANT 8	Mode B	QPSK	20	3615.1	1	99	20	3634.9	1	0	21.50	21.42	21.50	21.25	-0.2
CA_48C	ANT 8	Mode B	QPSK	20	3615.1	1	99	20	3634.9	1	0	21.50	21.42	21.50	21.25	-0.2

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	0.317	0.669	22.70	21.50	0.159	0.335	0.494
		ANT2	2A	ANT1	5A	21.50	25.70	0.959	0.337	18.50	22.70	0.481	0.169	0.650
		ANT3	2A	ANT1	5A	24.70	25.70	0.520	0.337	21.70	22.70	0.261	0.169	0.430
		ANT3	2A	ANT2	5A	24.70	24.50	0.520	0.669	21.70	21.50	0.261	0.335	0.596
		ANT4	2A	ANT1	5A	20.50	25.70	0.994	0.337	17.50	22.70	0.498	0.169	0.667
		ANT4	2A	ANT2	5A	20.50	24.50	0.994	0.669	17.50	21.50	0.498	0.335	0.833
	Body	ANT1	2A	ANT2	5A	17.50	24.50	0.967	0.411	14.50	21.50	0.485	0.206	0.691
		ANT2	2A	ANT1	5A	19.25	25.70	0.927	0.753	16.25	22.70	0.465	0.377	0.842
		ANT3	2A	ANT1	5A	21.25	25.70	0.958	0.753	18.25	22.70	0.480	0.377	0.858
		ANT3	2A	ANT2	5A	21.25	24.50	0.958	0.411	18.25	21.50	0.480	0.206	0.686
		ANT4	2A	ANT1	5A	21.75	25.70	0.950	0.753	18.75	22.70	0.476	0.377	0.854
		ANT4	2A	ANT2	5A	21.75	24.50	0.950	0.411	18.75	21.50	0.476	0.206	0.682
CA_2A-12A	Head	ANT1	2A	ANT2	12A	25.70	24.50	0.317	0.636	22.70	21.50	0.159	0.319	0.478
		ANT2	2A	ANT1	12A	21.50	25.70	0.959	0.159	18.50	22.70	0.481	0.080	0.560
		ANT3	2A	ANT1	12A	24.70	25.70	0.520	0.159	21.70	22.70	0.261	0.080	0.340
		ANT3	2A	ANT2	12A	24.70	24.50	0.520	0.636	21.70	21.50	0.261	0.319	0.579
		ANT4	2A	ANT1	12A	20.50	25.70	0.994	0.159	17.50	22.70	0.498	0.080	0.578
	Body	ANT4	2A	ANT2	12A	20.50	24.50	0.994	0.636	17.50	21.50	0.498	0.319	0.817
		ANT1	2A	ANT2	12A	17.50	24.50	0.967	0.429	14.50	21.50	0.485	0.215	0.700
		ANT2	2A	ANT1	12A	19.25	25.70	0.927	0.673	16.25	22.70	0.465	0.337	0.802
		ANT3	2A	ANT1	12A	21.25	25.70	0.958	0.673	18.25	22.70	0.480	0.337	0.817
		ANT3	2A	ANT2	12A	21.25	24.50	0.958	0.429	18.25	21.50	0.480	0.215	0.695
		ANT4	2A	ANT1	12A	21.75	25.70	0.950	0.673	18.75	22.70	0.476	0.337	0.813
		ANT4	2A	ANT2	12A	21.75	24.50	0.950	0.429	18.75	21.50	0.476	0.215	0.691
CA_2A-13A	Head	ANT1	2A	ANT2	13A	25.70	24.50	0.317	0.399	22.70	21.50	0.159	0.200	0.359
		ANT2	2A	ANT1	13A	21.50	25.70	0.959	0.316	18.50	22.70	0.481	0.158	0.639
		ANT3	2A	ANT1	13A	24.70	25.70	0.520	0.316	21.70	22.70	0.261	0.158	0.419
		ANT3	2A	ANT2	13A	24.70	24.50	0.520	0.399	21.70	21.50	0.261	0.200	0.461
		ANT4	2A	ANT1	13A	20.50	25.70	0.994	0.316	17.50	22.70	0.498	0.158	0.657
	Body	ANT4	2A	ANT2	13A	20.50	24.50	0.994	0.399	17.50	21.50	0.498	0.200	0.698
		ANT1	2A	ANT2	13A	17.50	24.50	0.967	0.366	14.50	21.50	0.485	0.183	0.668
		ANT2	2A	ANT1	13A	19.25	25.70	0.927	0.927	16.25	22.70	0.465	0.465	0.929
		ANT3	2A	ANT1	13A	21.25	25.70	0.958	0.927	18.25	22.70	0.480	0.465	0.945
		ANT3	2A	ANT2	13A	21.25	24.50	0.958	0.366	18.25	21.50	0.480	0.183	0.664
		ANT4	2A	ANT1	13A	21.75	25.70	0.950	0.927	18.75	22.70	0.476	0.465	0.941
		ANT4	2A	ANT2	13A	21.75	24.50	0.950	0.366	18.75	21.50	0.476	0.183	0.660
CA_4A-5A	Head	ANT1	4A	ANT2	5A	25.70	24.50	0.407	0.669	22.70	21.50	0.204	0.335	0.539
		ANT2	4A	ANT1	5A	20.00	25.70	0.989	0.337	17.00	22.70	0.496	0.169	0.665
		ANT3	4A	ANT1	5A	24.70	25.70	0.607	0.337	21.70	22.70	0.304	0.169	0.473
		ANT3	4A	ANT2	5A	24.70	24.50	0.607	0.669	21.70	21.50	0.304	0.335	0.640
		ANT4	4A	ANT1	5A	20.00	25.70	0.983	0.337	17.00	22.70	0.493	0.169	0.662
	Body	ANT4	4A	ANT2	5A	20.00	24.50	0.983	0.669	17.00	21.50	0.493	0.335	0.828
		ANT1	4A	ANT2	5A	18.50	24.50	0.956	0.411	15.50	21.50	0.479	0.206	0.685
		ANT2	4A	ANT1	5A	18.25	25.70	0.930	0.753	15.25	22.70	0.466	0.377	0.843
		ANT3	4A	ANT1	5A	20.75	25.70	0.949	0.753	17.75	22.70	0.476	0.377	0.853
		ANT3	4A	ANT2	5A	20.75	24.50	0.949	0.411	17.75	21.50	0.476	0.206	0.682
		ANT4	4A	ANT1	5A	21.25	25.70	0.954	0.753	18.25	22.70	0.478	0.377	0.856
		ANT4	4A	ANT2	5A	21.25	24.50	0.954	0.411	18.25	21.50	0.478	0.206	0.684
CA_4A-12A	Head	ANT1	4A	ANT2	12A	25.70	24.50	0.407	0.636	22.70	21.50	0.204	0.319	0.523
		ANT2	4A	ANT1	12A	20.00	25.70	0.989	0.159	17.00	22.70	0.496	0.080	0.575
		ANT3	4A	ANT1	12A	24.70	25.70	0.607	0.159	21.70	22.70	0.304	0.080	0.384
		ANT3	4A	ANT2	12A	24.70	24.50	0.607	0.636	21.70	21.50	0.304	0.319	0.623
		ANT4	4A	ANT1	12A	20.00	25.70	0.983	0.159	17.00	22.70	0.493	0.080	0.572
	Body	ANT4	4A	ANT2	12A	20.00	24.50	0.983	0.636	17.00	21.50	0.493	0.319	0.811
		ANT1	4A	ANT2	12A	18.50	24.50	0.956	0.429	15.50	21.50	0.479	0.215	0.694
		ANT2	4A	ANT1	12A	18.25	25.70	0.930	0.673	15.25	22.70	0.466	0.337	0.803
		ANT3	4A	ANT1	12A	20.75	25.70	0.949	0.673	17.75	22.70	0.476	0.337	0.813
		ANT3	4A	ANT2	12A	20.75	24.50	0.949	0.429	17.75	21.50	0.476	0.215	0.691
		ANT4	4A	ANT1	12A	21.25	25.70	0.954	0.673	18.25	22.70	0.478	0.337	0.815
		ANT4	4A	ANT2	12A	21.25	24.50	0.954	0.429	18.25	21.50	0.478	0.215	0.693

CA_4A-13A	Head	ANT1	4A	ANT2	13A	25.70	24.50	0.407	0.399	22.70	21.50	0.204	0.200	0.404
		ANT2	4A	ANT1	13A	20.00	25.70	0.989	0.316	17.00	22.70	0.496	0.158	0.654
		ANT3	4A	ANT1	13A	24.70	25.70	0.607	0.316	21.70	22.70	0.304	0.158	0.463
		ANT3	4A	ANT2	13A	24.70	24.50	0.607	0.399	21.70	21.50	0.304	0.200	0.504
		ANT4	4A	ANT1	13A	20.00	25.70	0.983	0.316	17.00	22.70	0.493	0.158	0.651
	Body	ANT4	4A	ANT2	13A	20.00	24.50	0.983	0.399	17.00	21.50	0.493	0.200	0.693
		ANT1	4A	ANT2	13A	18.50	24.50	0.956	0.366	15.50	21.50	0.479	0.183	0.663
		ANT2	4A	ANT1	13A	18.25	25.70	0.930	0.927	15.25	22.70	0.466	0.465	0.931
		ANT3	4A	ANT1	13A	20.75	25.70	0.949	0.927	17.75	22.70	0.476	0.465	0.940
		ANT3	4A	ANT2	13A	20.75	24.50	0.949	0.366	17.75	21.50	0.476	0.183	0.659
CA_5A-7A	Head	ANT4	4A	ANT1	13A	21.25	25.70	0.954	0.927	18.25	22.70	0.478	0.465	0.943
		ANT4	4A	ANT2	13A	21.25	24.50	0.954	0.366	18.25	21.50	0.478	0.183	0.662
		ANT1	5A	ANT2	7A	25.70	19.00	0.337	0.933	22.70	16.00	0.169	0.468	0.637
		ANT1	5A	ANT3	7A	25.70	24.50	0.337	0.359	22.70	21.50	0.169	0.180	0.349
		ANT1	5A	ANT4	7A	25.70	19.50	0.337	0.971	22.70	16.50	0.169	0.487	0.656
	Body	ANT2	5A	ANT1	7A	24.50	25.25	0.669	0.891	21.50	22.25	0.335	0.447	0.782
		ANT2	5A	ANT3	7A	24.50	24.50	0.669	0.359	21.50	21.50	0.335	0.180	0.515
		ANT2	5A	ANT4	7A	24.50	19.50	0.669	0.971	21.50	16.50	0.335	0.487	0.822
		ANT1	5A	ANT2	7A	25.70	19.25	0.753	0.957	22.70	16.25	0.377	0.480	0.857
		ANT1	5A	ANT3	7A	25.70	19.00	0.753	0.971	22.70	16.00	0.377	0.487	0.864
CA_5A-66A	Head	ANT1	5A	ANT4	7A	25.70	20.25	0.753	0.941	22.70	17.25	0.377	0.472	0.849
		ANT2	5A	ANT1	7A	24.50	19.00	0.411	0.997	21.50	16.00	0.206	0.500	0.706
		ANT2	5A	ANT3	7A	24.50	19.00	0.411	0.971	21.50	16.00	0.206	0.487	0.693
		ANT2	5A	ANT4	7A	24.50	20.25	0.411	0.941	21.50	17.25	0.206	0.472	0.678
		ANT1	5A	ANT2	66A	25.70	20.00	0.337	0.989	22.70	17.00	0.169	0.496	0.665
	Body	ANT1	5A	ANT3	66A	25.70	24.70	0.337	0.607	22.70	21.70	0.169	0.304	0.473
		ANT1	5A	ANT4	66A	25.70	20.00	0.337	0.983	22.70	17.00	0.169	0.493	0.662
		ANT2	5A	ANT1	66A	24.50	25.70	0.669	0.407	21.50	22.70	0.335	0.204	0.539
		ANT2	5A	ANT3	66A	24.50	24.70	0.669	0.607	21.50	21.70	0.335	0.304	0.640
		ANT2	5A	ANT4	66A	24.50	20.00	0.669	0.983	21.50	17.00	0.335	0.493	0.828
CA_12A-66A	Head	ANT1	5A	ANT2	66A	25.70	18.25	0.753	0.930	22.70	15.25	0.377	0.466	0.843
		ANT1	5A	ANT3	66A	25.70	20.75	0.753	0.949	22.70	17.75	0.377	0.476	0.853
		ANT1	5A	ANT4	66A	25.70	21.25	0.753	0.954	22.70	18.25	0.377	0.478	0.856
		ANT2	5A	ANT1	66A	24.50	18.50	0.411	0.956	21.50	15.50	0.206	0.479	0.685
		ANT2	5A	ANT3	66A	24.50	20.75	0.411	0.949	21.50	17.75	0.206	0.476	0.682
	Body	ANT2	5A	ANT4	66A	24.50	21.25	0.411	0.954	21.50	18.25	0.206	0.478	0.684
		ANT1	12A	ANT2	66A	25.70	20.00	0.159	0.989	22.70	17.00	0.080	0.496	0.575
		ANT1	12A	ANT3	66A	25.70	24.70	0.159	0.607	22.70	21.70	0.080	0.304	0.384
		ANT1	12A	ANT4	66A	25.70	20.00	0.159	0.983	22.70	17.00	0.080	0.493	0.572
		ANT2	12A	ANT1	66A	24.50	25.70	0.636	0.407	21.50	22.70	0.319	0.204	0.523
CA_13A-66A	Head	ANT2	12A	ANT3	66A	24.50	24.70	0.636	0.607	21.50	21.70	0.319	0.304	0.623
		ANT2	12A	ANT4	66A	24.50	20.00	0.636	0.983	21.50	17.00	0.319	0.493	0.811
	Body	ANT1	12A	ANT2	66A	25.70	18.25	0.673	0.930	22.70	15.25	0.337	0.466	0.803
		ANT1	12A	ANT3	66A	25.70	20.75	0.673	0.949	22.70	17.75	0.337	0.476	0.813
		ANT1	12A	ANT4	66A	25.70	21.25	0.673	0.954	22.70	18.25	0.337	0.478	0.815
	Body	ANT2	12A	ANT1	66A	24.50	18.50	0.429	0.956	21.50	15.50	0.215	0.479	0.694
		ANT2	12A	ANT3	66A	24.50	20.75	0.429	0.949	21.50	17.75	0.215	0.476	0.691
		ANT2	12A	ANT4	66A	24.50	21.25	0.429	0.954	21.50	18.25	0.215	0.478	0.693
	Head	ANT1	13A	ANT2	66A	25.70	20.00	0.316	0.989	22.70	17.00	0.158	0.496	0.654
		ANT1	13A	ANT3	66A	25.70	24.70	0.316	0.607	22.70	21.70	0.158	0.304	0.463
		ANT1	13A	ANT4	66A	25.70	20.00	0.316	0.983	22.70	17.00	0.158	0.493	0.651
		ANT2	13A	ANT1	66A	24.50	25.70	0.399	0.407	21.50	22.70	0.200	0.204	0.404
		ANT2	13A	ANT3	66A	24.50	24.70	0.399	0.607	21.50	21.70	0.200	0.304	0.504
CA_13A-66A	Body	ANT2	13A	ANT4	66A	24.50	20.00	0.399	0.983	21.50	17.00	0.200	0.493	0.693
		ANT1	13A	ANT2	66A	25.70	18.25	0.927	0.930	22.70	15.25	0.465	0.466	0.931
		ANT1	13A	ANT3	66A	25.70	20.75	0.927	0.949	22.70	17.75	0.465	0.476	0.940
		ANT1	13A	ANT4	66A	25.70	21.25	0.927	0.954	22.70	18.25	0.465	0.478	0.943
		ANT2	13A	ANT1	66A	24.50	18.50	0.366	0.956	21.50	15.50	0.183	0.479	0.663
	Body	ANT2	13A	ANT3	66A	24.50	20.75	0.366	0.949	21.50	17.75	0.183	0.476	0.659
		ANT2	13A	ANT4	66A	24.50	21.25	0.366	0.954	21.50	18.25	0.183	0.478	0.662
		ANT1	13A	ANT2	66A	25.70	20.00	0.316	0.989	22.70	17.00	0.158	0.496	0.654
		ANT1	13A	ANT3	66A	25.70	24.70	0.316	0.607	22.70	21.70	0.158	0.304	0.463
		ANT1	13A	ANT4	66A	25.70	20.00	0.316	0.983	22.70	17.00	0.158	0.493	0.651

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

Uplink RB allocations were used to Table 6.1-1 of the 3GPP TS 138.521-1.

Channel Bandwidth	SCS(kHz)	OFDM	RB allocation							
			Edge_Full_Left	Edge_Full_Right	Edge_IRB_Left	Edge_IRB_Right	Outer_Full	Inner_Full	Inner_IRB_Left	Inner_IRB_Right
5MHz	15	DFT-s	2@0	2@23	1@0	1@24	25@0	12@6	1@1	1@23
		CP	2@0	2@23	1@0	1@24	25@0	13@6	1@1	1@23
	30	DFT-s	2@0	2@9	1@0	1@10	10@0	5@2 ¹	1@1	1@9
		CP	2@0	2@9	1@0	1@10	11@0	5@2 ¹	1@1	1@9
	60	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10MHz	15	DFT-s	2@0	2@50	1@0	1@51	50@0	25@12	1@1	1@50
		CP	2@0	2@50	1@0	1@51	52@0	26@13	1@1	1@50
	30	DFT-s	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
		CP	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
	60	DFT-s	2@0	2@9	1@0	1@10	10@0	5@2 ¹	1@1	1@9
		CP	2@0	2@9	1@0	1@10	11@0	5@2 ¹	1@1	1@9
15MHz	15	DFT-s	2@0	2@77	1@0	1@78	75@0	36@18	1@1	1@77
		CP	2@0	2@77	1@0	1@78	79@0	39@19 ¹	1@1	1@77
	30	DFT-s	2@0	2@36	1@0	1@37	36@0	18@9	1@1	1@36
		CP	2@0	2@36	1@0	1@37	38@0	19@9	1@1	1@36
	60	DFT-s	2@0	2@16	1@0	1@17	18@0	9@4	1@1	1@16
		CP	2@0	2@16	1@0	1@17	18@0	9@4	1@1	1@16
20MHz	15	DFT-s	2@0	2@104	1@0	1@105	100@0	50@25	1@1	1@104
		CP	2@0	2@104	1@0	1@105	108@0	53@26	1@1	1@104
	30	DFT-s	2@0	2@49	1@0	1@50	50@0	25@12	1@1	1@49
		CP	2@0	2@49	1@0	1@50	51@0	25@12 ¹	1@1	1@49
	60	DFT-s	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
		CP	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
25MHz	15	DFT-s	2@0	2@131	1@0	1@132	128@0	64@32	1@1	1@131
		CP	2@0	2@131	1@0	1@132	133@0	67@33	1@1	1@131
	30	DFT-s	2@0	2@63	1@0	1@64	64@0	32@16	1@1	1@63
		CP	2@0	2@63	1@0	1@64	65@0	33@16	1@1	1@63
	60	DFT-s	2@0	2@29	1@0	1@30	30@0	15@7 ¹	1@1	1@29
		CP	2@0	2@29	1@0	1@30	31@0	15@7 ¹	1@1	1@29
30MHz	15	DFT-s	2@0	2@158	1@0	1@159	160@0	80@40	1@1	1@158
		CP	2@0	2@158	1@0	1@159	160@0	80@40	1@1	1@158
	30	DFT-s	2@0	2@76	1@0	1@77	75@0	36@18	1@1	1@76
		CP	2@0	2@76	1@0	1@77	78@0	39@19	1@1	1@76
	60	DFT-s	2@0	2@36	1@0	1@37	36@0	18@9	1@1	1@36
		CP	2@0	2@36	1@0	1@37	38@0	19@9	1@1	1@36
40MHz	15	DFT-s	2@0	2@214	1@0	1@215	216@0	108@54	1@1	1@214
		CP	2@0	2@214	1@0	1@215	216@0	108@54	1@1	1@214
	30	DFT-s	2@0	2@104	1@0	1@105	100@0	50@25	1@1	1@104
		CP	2@0	2@104	1@0	1@105	108@0	53@26	1@1	1@104
	60	DFT-s	2@0	2@49	1@0	1@50	50@0	25@12	1@1	1@49
		CP	2@0	2@49	1@0	1@50	51@0	25@12 ¹	1@1	1@49
50MHz	15	DFT-s	2@0	2@268	1@0	1@269	270@0	135@67	1@1	1@268
		CP	2@0	2@268	1@0	1@269	270@0	135@67	1@1	1@268
	30	DFT-s	2@0	2@131	1@0	1@132	128@0	64@32	1@1	1@131
		CP	2@0	2@131	1@0	1@132	133@0	67@33	1@1	1@131
	60	DFT-s	2@0	2@63	1@0	1@64	64@0	32@16	1@1	1@63
		CP	2@0	2@63	1@0	1@64	65@0	33@16	1@1	1@63
60MHz	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	DFT-s	2@0	2@160	1@0	1@161	162@0	81@40	1@1	1@160
		CP	2@0	2@160	1@0	1@161	162@0	81@40	1@1	1@160
	60	DFT-s	2@0	2@77	1@0	1@78	75@0	36@18	1@1	1@77
		CP	2@0	2@77	1@0	1@78	79@0	39@19 ¹	1@1	1@77
80MHz	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
90MHz	30	DFT-s	2@0	2@215	1@0	1@216	216@0	108@54	1@1	1@215
		CP	2@0	2@215	1@0	1@216	217@0	109@54	1@1	1@215
	60	DFT-s	2@0	2@105	1@0	1@106	100@0	50@25	1@1	1@105
		CP	2@0	2@105	1@0	1@106	107@0	53@26 ¹	1@1	1@105
	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100MHz	30	DFT-s	2@0	2@243	1@0	1@244	240@0	120@60	1@1	1@243
		CP	2@0	2@243	1@0	1@244	245@0	123@61	1@1	1@243
	60	DFT-s	2@0	2@119	1@0	1@120	120@0	60@30	1@1	1@119
		CP	2@0	2@119	1@0	1@120	121@0	61@30	1@1	1@119
	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100MHz	30	DFT-s	2@0	2@271	1@0	1@272	270@0	135@67	1@1	1@271
		CP	2@0	2@271	1@0	1@272	273@0	137@68	1@1	1@271
	60	DFT-s	2@0	2@133	1@0	1@134	135@0	64@32	1@1	1@133
		CP	2@0	2@133	1@0	1@134	135@0	67@33 ¹	1@1	1@133
	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note 1: The allocated RB number Low is $cell(N_{RB}/2) - 1$ in order to meet Inner RB allocation definition ($RB_{start,Low} \leq RB_{start} \leq RB_{start,High}$) described in subclause 6.2.2 of TS 38.101-1 [2].

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	17.50	21.50	19.25	24.70	21.25	20.50	21.75
NR n5	QPSK	25.70	25.25	24.50	24.50				
NR n12	QPSK	25.70	25.70	24.50	24.50				
NR n25	QPSK	25.70	17.50	21.50	19.25	24.70	21.25	20.50	21.75
NR n41 (PC3)	QPSK	25.25	20.50	17.75	19.00	24.50	19.75	19.25	20.25
NR n41 (PC2)	QPSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NR n66	QPSK	25.70	18.50	20.00	18.25	24.70	20.75	20.00	21.25
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	19.75	18.00	18.50	25.70	20.75	16.25	17.00

NR Band 5 Measured Results (ANT1)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					166800	167300	167800	MPR	Tune-up Limit	166800	167300	167800	MPR	Tune-up Limit
					834 MHz	836.6 MHz	839 MHz			834 MHz	836.6 MHz	839 MHz		
20 MHz	DFS-s OFDM	Pi/2 BPSK	1	1		25.36		0.0	25.70		25.11		0.0	25.25
			1	1		25.40		0.0	25.70		24.97		0.0	25.25
			1	53		25.46		0.0	25.70		25.18		0.0	25.25
			1	104		25.31		0.0	25.70		25.07		0.0	25.25
			50	0		24.32		1.0	24.70		23.92		1.0	24.25
			50	28		25.57		0.0	25.70		25.16		0.0	25.25
			50	56		24.60		1.0	24.70		24.05		1.0	24.25
			100	0		24.43		1.0	24.70		24.16		1.0	24.25
		16QAM	1	1		24.44		1.0	24.70		24.08		1.0	24.25
	64QAM	1	1		22.83		2.5	23.20		22.68		2.5	22.75	
256QAM	1	1		21.08		4.5	21.20		20.40		4.5	20.75		
CP-OFDM	QPSK	1	1		23.85		1.5	24.20		23.52		1.5	23.75	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					166300	167300	168300	MPR	Tune-up Limit	166300	167300	168300	MPR	Tune-up Limit
					831.5 MHz	836.6 MHz	841.5 MHz			831.5 MHz	836.6 MHz	841.5 MHz		
15 MHz	DFS-s OFDM	Pi/2 BPSK	1	1		25.50		0.0	25.70		25.02		0.0	25.25
			1	1		25.50		0.0	25.70		25.04		0.0	25.25
			1	40		25.39		0.0	25.70		24.99		0.0	25.25
			1	77		25.53		0.0	25.70		25.10		0.0	25.25
			36	0		24.42		1.0	24.70		24.03		1.0	24.25
			36	22		25.45		0.0	25.70		25.00		0.0	25.25
			36	43		24.54		1.0	24.70		24.17		1.0	24.25
			75	0		24.59		1.0	24.70		24.07		1.0	24.25
		16QAM	1	1		24.49		1.0	24.70		24.15		1.0	24.25
	64QAM	1	1		23.00		2.5	23.20		22.49		2.5	22.75	
256QAM	1	1		21.08		4.5	21.20		20.47		4.5	20.75		
CP-OFDM	QPSK	1	1		23.85		1.5	24.20		23.61		1.5	23.75	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					165800	167300	168800	MPR	Tune-up Limit	165800	167300	168800	MPR	Tune-up Limit
					829 MHz	836.6 MHz	844 MHz			829 MHz	836.6 MHz	844 MHz		
10 MHz	DFS-s OFDM	Pi/2 BPSK	1	1		25.36		0.0	25.70		25.19		0.0	25.25
			1	1		25.36		0.0	25.70		24.97		0.0	25.25
			1	26		25.56		0.0	25.70		25.02		0.0	25.25
			1	50		25.38		0.0	25.70		25.00		0.0	25.25
			25	0		24.34		1.0	24.70		24.17		1.0	24.25
			25	14		25.40		0.0	25.70		24.96		0.0	25.25
			25	27		24.56		1.0	24.70		23.99		1.0	24.25
			50	0		24.52		1.0	24.70		24.04		1.0	24.25
		16QAM	1	1		24.59		1.0	24.70		24.12		1.0	24.25
	64QAM	1	1		22.84		2.5	23.20		22.45		2.5	22.75	
256QAM	1	1		20.93		4.5	21.20		20.52		4.5	20.75		
CP-OFDM	QPSK	1	1		23.87		1.5	24.20		23.52		1.5	23.75	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					165300	167300	169300	MPR	Tune-up Limit	165300	167300	169300	MPR	Tune-up Limit
					826.5 MHz	836.6 MHz	846.5 MHz			826.5 MHz	836.6 MHz	846.5 MHz		
5 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	25.59	25.31	25.50	0.0	25.70	24.97	25.17	25.16	0.0	25.25
			1	1	25.59	25.52	25.48	0.0	25.70	25.19	25.12	24.97	0.0	25.25
			1	13	25.49	25.34	25.46	0.0	25.70	24.93	25.02	25.18	0.0	25.25
			1	23	25.52	25.54	25.31	0.0	25.70	25.06	24.91	24.97	0.0	25.25
			12	0	24.60	24.38	24.40	1.0	24.70	24.13	23.92	24.16	1.0	24.25
			12	7	25.45	25.35	25.31	0.0	25.70	24.97	25.15	25.00	0.0	25.25
			12	13	24.58	24.33	24.34	1.0	24.70	23.93	24.02	24.05	1.0	24.25
			25	0	24.54	24.36	24.35	1.0	24.70	23.96	23.97	23.93	1.0	24.25
		16QAM	1	1	24.43	24.35	24.59	1.0	24.70	24.13	23.99	24.08	1.0	24.25
	64QAM	1	1	23.01	22.90	23.07	2.5	23.20	22.58	22.46	22.61	2.5	22.75	
256QAM	1	1	20.93	21.07	20.99	4.5	21.20	20.62	20.67	20.55	4.5	20.75		
CP-OFDM	QPSK	1	1	24.04	23.84	24.01	1.5	24.20	23.65	23.59	23.60	1.5	23.75	

NR Band 5 Measured Results (ANT2)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					166800	167300	167800	MPR	Tune-up Limit	166800	167300	167800	MPR	Tune-up Limit
					834 MHz	836.6 MHz	839 MHz			834 MHz	836.6 MHz	839 MHz		
20 MHz	DFS-s OFDM	PI/2 BPSK	1	1		24.34		0.0	24.50		24.34		0.0	24.50
			1	1		24.32		0.0	24.50		24.32		0.0	24.50
		QPSK	1	53		24.40		0.0	24.50		24.40		0.0	24.50
			1	104		24.30		0.0	24.50		24.30		0.0	24.50
			50	0		23.17		1.0	23.50		23.17		1.0	23.50
			50	28		24.13		0.0	24.50		24.13		0.0	24.50
			50	56		23.27		1.0	23.50		23.27		1.0	23.50
			100	0		23.29		1.0	23.50		23.29		1.0	23.50
		16QAM	1	1		23.17		1.0	23.50		23.17		1.0	23.50
		64QAM	1	1		21.66		2.5	22.00		21.66		2.5	22.00
		256QAM	1	1		19.75		4.5	20.00		19.75		4.5	20.00
	CP-OFDM	QPSK	1	1		22.72		1.5	23.00		22.72		1.5	23.00
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					166300	167300	168300	MPR	Tune-up Limit	166300	167300	168300	MPR	Tune-up Limit
					831.5 MHz	836.6 MHz	841.5 MHz			831.5 MHz	836.6 MHz	841.5 MHz		
15 MHz	DFS-s OFDM	PI/2 BPSK	1	1		24.34		0.0	24.50		24.34		0.0	24.50
			1	1		24.11		0.0	24.50		24.11		0.0	24.50
		QPSK	1	40		24.37		0.0	24.50		24.37		0.0	24.50
			1	77		24.30		0.0	24.50		24.30		0.0	24.50
			36	0		23.16		1.0	23.50		23.16		1.0	23.50
			36	22		24.13		0.0	24.50		24.13		0.0	24.50
			36	43		23.18		1.0	23.50		23.18		1.0	23.50
			75	0		23.37		1.0	23.50		23.37		1.0	23.50
		16QAM	1	1		23.29		1.0	23.50		23.29		1.0	23.50
		64QAM	1	1		21.83		2.5	22.00		21.83		2.5	22.00
		256QAM	1	1		19.81		4.5	20.00		19.81		4.5	20.00
	CP-OFDM	QPSK	1	1		22.60		1.5	23.00		22.60		1.5	23.00
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					165800	167300	168800	MPR	Tune-up Limit	165800	167300	168800	MPR	Tune-up Limit
					829 MHz	836.6 MHz	844 MHz			829 MHz	836.6 MHz	844 MHz		
10 MHz	DFS-s OFDM	PI/2 BPSK	1	1		24.18		0.0	24.50		24.18		0.0	24.50
			1	1		24.22		0.0	24.50		24.22		0.0	24.50
		QPSK	1	26		24.32		0.0	24.50		24.32		0.0	24.50
			1	50		24.20		0.0	24.50		24.20		0.0	24.50
			25	0		23.17		1.0	23.50		23.17		1.0	23.50
			25	14		24.13		0.0	24.50		24.13		0.0	24.50
			25	27		23.27		1.0	23.50		23.27		1.0	23.50
			50	0		23.24		1.0	23.50		23.24		1.0	23.50
		16QAM	1	1		23.25		1.0	23.50		23.25		1.0	23.50
		64QAM	1	1		21.80		2.5	22.00		21.80		2.5	22.00
		256QAM	1	1		19.62		4.5	20.00		19.62		4.5	20.00
	CP-OFDM	QPSK	1	1		22.69		1.5	23.00		22.69		1.5	23.00
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					165300	167300	169300	MPR	Tune-up Limit	165300	167300	169300	MPR	Tune-up Limit
					826.5 MHz	836.6 MHz	846.5 MHz			826.5 MHz	836.6 MHz	846.5 MHz		
5 MHz	DFS-s OFDM	PI/2 BPSK	1	1	24.26	24.20	24.21	0.0	24.50	24.26	24.20	24.21	0.0	24.50
			1	1	24.19	24.21	24.11	0.0	24.50	24.19	24.21	24.11	0.0	24.50
		QPSK	1	13	24.20	24.31	24.16	0.0	24.50	24.20	24.31	24.16	0.0	24.50
			1	23	24.12	24.29	24.15	0.0	24.50	24.12	24.29	24.15	0.0	24.50
			12	0	23.16	23.24	23.14	1.0	23.50	23.16	23.24	23.14	1.0	23.50
			12	7	24.16	24.19	24.26	0.0	24.50	24.16	24.19	24.26	0.0	24.50
			12	13	23.12	23.33	23.27	1.0	23.50	23.12	23.33	23.27	1.0	23.50
			25	0	23.25	23.10	23.32	1.0	23.50	23.25	23.10	23.32	1.0	23.50
		16QAM	1	1	23.25	23.36	23.39	1.0	23.50	23.25	23.36	23.39	1.0	23.50
		64QAM	1	1	21.79	21.76	21.61	2.5	22.00	21.79	21.76	21.61	2.5	22.00
		256QAM	1	1	19.68	19.88	19.77	4.5	20.00	19.68	19.88	19.77	4.5	20.00
	CP-OFDM	QPSK	1	1	22.61	22.82	22.89	1.5	23.00	22.61	22.82	22.89	1.5	23.00

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		25.51		0.0	25.70		25.51		0.0	25.70
			1	1		25.44		0.0	25.70		25.44		0.0	25.70
			1	40		25.51		0.0	25.70		25.51		0.0	25.70
			1	77		25.49		0.0	25.70		25.49		0.0	25.70
			36	0		24.40		1.0	24.70		24.40		1.0	24.70
			36	22		25.34		0.0	25.70		25.34		0.0	25.70
			36	43		24.36		1.0	24.70		24.36		1.0	24.70
			75	0		24.36		1.0	24.70		24.36		1.0	24.70
		16QAM	1	1		24.42		1.0	24.70		24.42		1.0	24.70
	CP-OFDM	QPSK	1	1		22.83		2.5	23.20		22.83		2.5	23.20
			1	1		21.02		4.5	21.20		21.02		4.5	21.20
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		25.34		0.0	25.70		25.34		0.0	25.70
			1	1		25.46		0.0	25.70		25.46		0.0	25.70
			1	26		25.43		0.0	25.70		25.43		0.0	25.70
			1	50		25.56		0.0	25.70		25.56		0.0	25.70
			25	0		24.36		1.0	24.70		24.36		1.0	24.70
			25	14		25.40		0.0	25.70		25.40		0.0	25.70
			25	27		24.41		1.0	24.70		24.41		1.0	24.70
			50	0		24.35		1.0	24.70		24.35		1.0	24.70
		16QAM	1	1		24.45		1.0	24.70		24.45		1.0	24.70
	CP-OFDM	QPSK	1	1		22.90		2.5	23.20		22.90		2.5	23.20
			1	1		21.09		4.5	21.20		21.09		4.5	21.20
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	25.48	25.43	25.41	0.0	25.70	25.48	25.43	25.41	0.0	25.70
			1	1	25.55	25.56	25.51	0.0	25.70	25.55	25.56	25.51	0.0	25.70
			1	13	25.60	25.46	25.39	0.0	25.70	25.60	25.46	25.39	0.0	25.70
			1	23	25.30	25.40	25.47	0.0	25.70	25.30	25.40	25.47	0.0	25.70
			12	0	24.52	24.42	24.37	1.0	24.70	24.52	24.42	24.37	1.0	24.70
			12	7	25.40	25.60	25.41	0.0	25.70	25.40	25.60	25.41	0.0	25.70
			12	13	24.34	24.34	24.34	1.0	24.70	24.34	24.34	24.34	1.0	24.70
			25	0	24.55	24.58	24.47	1.0	24.70	24.55	24.58	24.47	1.0	24.70
		16QAM	1	1	24.52	24.39	24.54	1.0	24.70	24.52	24.39	24.54	1.0	24.70
	CP-OFDM	QPSK	1	1	22.92	22.81	23.06	2.5	23.20	22.92	22.81	23.06	2.5	23.20
			1	1	21.00	21.02	21.03	4.5	21.20	21.00	21.02	21.03	4.5	21.20

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		24.16		0.0	24.50		24.16		0.0	24.50	
			1	1		24.21		0.0	24.50		24.21		0.0	24.50	
			1	40		24.26		0.0	24.50		24.26		0.0	24.50	
			1	77		24.24		0.0	24.50		24.24		0.0	24.50	
			36	0		23.21		1.0	23.50		23.21		1.0	23.50	
			36	22		24.28		0.0	24.50		24.28		0.0	24.50	
			36	43		23.10		1.0	23.50		23.10		1.0	23.50	
			75	0		23.28		1.0	23.50		23.28		1.0	23.50	
		16QAM	1	1		23.30	1.0	23.50		23.30	1.0	23.50			
		64QAM	1	1		21.80	2.5	22.00		21.80	2.5	22.00			
	256QAM	1	1		19.90	4.5	20.00		19.90	4.5	20.00				
	CP-OFDM	QPSK	1	1		22.85	1.5	23.00		22.85	1.5	23.00			
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		24.32		0.0	24.50		24.32		0.0	24.50	
			1	1		24.37		0.0	24.50		24.37		0.0	24.50	
			1	26		24.20		0.0	24.50		24.20		0.0	24.50	
			1	50		24.21		0.0	24.50		24.21		0.0	24.50	
			25	0		23.37		1.0	23.50		23.37		1.0	23.50	
			25	14		24.13		0.0	24.50		24.13		0.0	24.50	
			25	27		23.38		1.0	23.50		23.38		1.0	23.50	
			50	0		23.37		1.0	23.50		23.37		1.0	23.50	
		16QAM	1	1		23.14	1.0	23.50		23.14	1.0	23.50			
		64QAM	1	1		21.72	2.5	22.00		21.72	2.5	22.00			
	256QAM	1	1		19.88	4.5	20.00		19.88	4.5	20.00				
	CP-OFDM	QPSK	1	1		22.65	1.5	23.00		22.65	1.5	23.00			
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	24.36	24.35	24.12	0.0	24.50	24.36	24.35	24.12	0.0	24.50	
			1	1	24.20	24.22	24.31	0.0	24.50	24.20	24.22	24.31	0.0	24.50	
		QPSK	1	13	24.10	24.21	24.33	0.0	24.50	24.10	24.21	24.33	0.0	24.50	
			1	23	24.10	24.31	24.39	0.0	24.50	24.10	24.31	24.39	0.0	24.50	
			12	0	23.38	23.20	23.39	1.0	23.50	23.38	23.20	23.39	1.0	23.50	
			12	7	24.15	24.21	24.38	0.0	24.50	24.15	24.21	24.38	0.0	24.50	
			12	13	23.13	23.22	23.34	1.0	23.50	23.13	23.22	23.34	1.0	23.50	
			25	0	23.20	23.38	23.40	1.0	23.50	23.20	23.38	23.40	1.0	23.50	
			16QAM	1	1	23.15	23.12	23.34	1.0	23.50	23.15	23.12	23.34	1.0	23.50
			64QAM	1	1	21.61	21.61	21.83	2.5	22.00	21.61	21.61	21.83	2.5	22.00
		256QAM	1	1	19.79	19.69	19.65	4.5	20.00	19.79	19.69	19.65	4.5	20.00	
		CP-OFDM	QPSK	1	1	22.83	22.66	22.88	1.5	23.00	22.83	22.66	22.88	1.5	23.00

NR Band 25 Measured Results (ANT1)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					372000	376500	381000	MPR	Tune-up Limit	372000	376500	381000	MPR	Tune-up Limit
					1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	25.55	25.53	25.60	0.0	25.70	17.23	17.38	17.34	0.0	17.50
			1	1	25.44	25.43	25.57	0.0	25.70	17.12	17.12	17.26	0.0	17.50
		QPSK	1	53	25.37	25.51	25.34	0.0	25.70	17.33	17.39	17.28	0.0	17.50
			1	104	25.37	25.32	25.33	0.0	25.70	17.31	17.38	17.34	0.0	17.50
			50	0	24.54	24.31	24.46	1.0	24.70	17.12	17.30	17.37	0.0	17.50
			50	28	25.40	25.48	25.39	0.0	25.70	17.27	17.36	17.39	0.0	17.50
			50	56	24.42	24.50	24.55	1.0	24.70	17.24	17.19	17.35	0.0	17.50
			100	0	24.40	24.47	24.34	1.0	24.70	17.13	17.26	17.12	0.0	17.50
		16QAM	1	1	24.47	24.56	24.57	1.0	24.70	17.14	17.36	17.22	0.0	17.50
		64QAM	1	1	23.09	22.84	22.81	2.5	23.20	17.27	17.20	17.11	0.0	17.50
		256QAM	1	1	20.90	20.90	21.04	4.5	21.20	17.16	17.27	17.37	0.0	17.50
	CP-OFDM	QPSK	1	1	23.97	23.92	23.91	1.5	24.20	17.30	17.16	17.10	0.0	17.50
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					371500	376500	381500	MPR	Tune-up Limit	371500	376500	381500	MPR	Tune-up Limit
					1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz		
15 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	25.58	25.34	25.38	0.0	25.70	17.33	17.32	17.34	0.0	17.50
			1	1	25.39	25.46	25.49	0.0	25.70	17.20	17.22	17.23	0.0	17.50
		QPSK	1	40	25.48	25.51	25.32	0.0	25.70	17.39	17.30	17.24	0.0	17.50
			1	77	25.36	25.53	25.36	0.0	25.70	17.12	17.37	17.14	0.0	17.50
			36	0	24.58	24.38	24.36	1.0	24.70	17.11	17.16	17.26	0.0	17.50
			36	22	25.59	25.37	25.30	0.0	25.70	17.38	17.12	17.37	0.0	17.50
			36	43	24.47	24.47	24.45	1.0	24.70	17.37	17.23	17.32	0.0	17.50
			75	0	24.33	24.38	24.55	1.0	24.70	17.16	17.37	17.31	0.0	17.50
		16QAM	1	1	24.48	24.32	24.46	1.0	24.70	17.20	17.20	17.22	0.0	17.50
		64QAM	1	1	22.98	22.84	22.99	2.5	23.20	17.15	17.30	17.36	0.0	17.50
		256QAM	1	1	20.91	21.04	20.96	4.5	21.20	17.22	17.14	17.36	0.0	17.50
	CP-OFDM	QPSK	1	1	24.07	23.94	23.82	1.5	24.20	17.12	17.23	17.26	0.0	17.50
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					371000	376500	382000	MPR	Tune-up Limit	371000	376500	382000	MPR	Tune-up Limit
					1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
15 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	25.50	25.47	25.52	0.0	25.70	17.34	17.29	17.40	0.0	17.50
			1	1	25.55	25.43	25.47	0.0	25.70	17.14	17.29	17.31	0.0	17.50
		QPSK	1	26	25.34	25.53	25.46	0.0	25.70	17.22	17.16	17.16	0.0	17.50
			1	50	25.48	25.35	25.47	0.0	25.70	17.19	17.13	17.20	0.0	17.50
			25	0	24.45	24.35	24.32	1.0	24.70	17.23	17.11	17.34	0.0	17.50
			25	14	25.56	25.37	25.33	0.0	25.70	17.23	17.12	17.32	0.0	17.50
			25	27	24.49	24.43	24.45	1.0	24.70	17.32	17.19	17.38	0.0	17.50
			50	0	24.57	24.46	24.57	1.0	24.70	17.18	17.39	17.17	0.0	17.50
		16QAM	1	1	24.51	24.39	24.38	1.0	24.70	17.28	17.27	17.26	0.0	17.50
		64QAM	1	1	22.96	23.04	22.84	2.5	23.20	17.26	17.18	17.27	0.0	17.50
		256QAM	1	1	20.82	21.09	21.05	4.5	21.20	17.13	17.38	17.40	0.0	17.50
	CP-OFDM	QPSK	1	1	24.08	23.82	23.99	1.5	24.20	17.26	17.29	17.39	0.0	17.50
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					370500	376500	382500	MPR	Tune-up Limit	370500	376500	382500	MPR	Tune-up Limit
					1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	25.47	25.38	25.33	0.0	25.70	17.34	17.28	17.16	0.0	17.50
			1	1	25.37	25.38	25.38	0.0	25.70	17.30	17.35	17.20	0.0	17.50
		QPSK	1	13	25.56	25.45	25.50	0.0	25.70	17.32	17.34	17.36	0.0	17.50
			1	23	25.47	25.33	25.40	0.0	25.70	17.29	17.28	17.18	0.0	17.50
			12	0	24.36	24.37	24.53	1.0	24.70	17.19	17.29	17.15	0.0	17.50
			12	7	25.37	25.39	25.44	0.0	25.70	17.18	17.26	17.17	0.0	17.50
			12	13	24.50	24.39	24.52	1.0	24.70	17.38	17.21	17.31	0.0	17.50
			25	0	24.39	24.53	24.55	1.0	24.70	17.17	17.19	17.21	0.0	17.50
		16QAM	1	1	24.54	24.42	24.49	1.0	24.70	17.15	17.19	17.38	0.0	17.50
		64QAM	1	1	22.94	22.90	23.02	2.5	23.20	17.18	17.19	17.20	0.0	17.50
		256QAM	1	1	20.90	20.85	20.97	4.5	21.20	17.34	17.11	17.25	0.0	17.50
	CP-OFDM	QPSK	1	1	24.05	23.95	23.99	1.5	24.20	17.27	17.37	17.39	0.0	17.50

NR Band 25 Measured Results (ANT2)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					372000	376500	381000	MPR	Tune-up Limit	372000	376500	381000	MPR	Tune-up Limit
					1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	DFS-s OFDM	PI/2 BPSK	1	1	21.35	21.19	21.10	0.0	21.50	19.05	18.91	19.10	0.0	19.25
			1	1	21.21	21.24	21.23	0.0	21.50	18.98	19.04	19.15	0.0	19.25
		QPSK	1	53	21.29	21.35	21.10	0.0	21.50	19.07	19.18	19.08	0.0	19.25
			1	104	21.39	21.22	21.13	0.0	21.50	19.17	18.93	19.10	0.0	19.25
			50	0	21.19	21.14	21.18	0.0	21.50	19.18	19.03	18.90	0.0	19.25
			50	28	21.16	21.29	21.19	0.0	21.50	19.14	19.04	18.90	0.0	19.25
			50	56	21.20	21.39	21.31	0.0	21.50	18.92	18.98	19.17	0.0	19.25
			100	0	21.23	21.31	21.33	0.0	21.50	19.09	19.03	18.93	0.0	19.25
		16QAM	1	1	21.18	21.34	21.18	0.0	21.50	19.05	18.96	19.02	0.0	19.25
	64QAM	1	1	21.20	21.29	21.11	0.0	21.50	19.00	19.08	19.13	0.0	19.25	
256QAM	1	1	21.38	21.31	21.32	0.0	21.50	19.02	19.04	18.92	0.0	19.25		
CP-OFDM	QPSK	1	1	21.36	21.35	21.15	0.0	21.50	19.03	19.12	19.09	0.0	19.25	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					371500	376500	381500	MPR	Tune-up Limit	371500	376500	381500	MPR	Tune-up Limit
					1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz		
15 MHz	DFS-s OFDM	PI/2 BPSK	1	1	21.30	21.22	21.18	0.0	21.50	19.09	18.90	19.08	0.0	19.25
			1	1	21.25	21.38	21.37	0.0	21.50	19.06	19.01	19.11	0.0	19.25
		QPSK	1	40	21.11	21.21	21.27	0.0	21.50	19.03	19.10	18.98	0.0	19.25
			1	77	21.20	21.31	21.16	0.0	21.50	19.01	18.98	19.12	0.0	19.25
			36	0	21.15	21.34	21.24	0.0	21.50	19.07	18.96	19.18	0.0	19.25
			36	22	21.30	21.21	21.26	0.0	21.50	19.18	19.08	19.01	0.0	19.25
			36	43	21.11	21.28	21.18	0.0	21.50	19.12	19.06	19.14	0.0	19.25
			75	0	21.10	21.17	21.24	0.0	21.50	18.95	18.92	19.04	0.0	19.25
		16QAM	1	1	21.26	21.19	21.12	0.0	21.50	18.98	19.01	19.13	0.0	19.25
	64QAM	1	1	21.25	21.35	21.37	0.0	21.50	18.94	19.00	19.07	0.0	19.25	
256QAM	1	1	21.27	21.14	21.37	0.0	21.50	19.07	18.99	19.00	0.0	19.25		
CP-OFDM	QPSK	1	1	21.25	21.10	21.12	0.0	21.50	19.02	19.06	18.93	0.0	19.25	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					371000	376500	382000	MPR	Tune-up Limit	371000	376500	382000	MPR	Tune-up Limit
					1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
15 MHz	DFS-s OFDM	PI/2 BPSK	1	1	21.18	21.13	21.15	0.0	21.50	19.09	18.98	19.14	0.0	19.25
			1	1	21.36	21.29	21.33	0.0	21.50	19.03	19.18	18.95	0.0	19.25
		QPSK	1	26	21.38	21.28	21.16	0.0	21.50	18.91	19.08	18.98	0.0	19.25
			1	50	21.16	21.35	21.28	0.0	21.50	19.18	19.12	19.10	0.0	19.25
			25	0	21.22	21.11	21.19	0.0	21.50	19.10	19.15	19.16	0.0	19.25
			25	14	21.23	21.25	21.17	0.0	21.50	19.07	19.04	19.05	0.0	19.25
			25	27	21.34	21.22	21.33	0.0	21.50	19.01	19.08	19.05	0.0	19.25
			50	0	21.34	21.31	21.15	0.0	21.50	18.94	19.19	18.92	0.0	19.25
		16QAM	1	1	21.32	21.21	21.38	0.0	21.50	18.96	19.09	19.11	0.0	19.25
	64QAM	1	1	21.40	21.20	21.15	0.0	21.50	19.18	19.01	19.05	0.0	19.25	
256QAM	1	1	21.29	21.33	21.23	0.0	21.50	19.03	19.07	19.18	0.0	19.25		
CP-OFDM	QPSK	1	1	21.38	21.38	21.33	0.0	21.50	18.98	19.03	19.20	0.0	19.25	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					370500	376500	382500	MPR	Tune-up Limit	370500	376500	382500	MPR	Tune-up Limit
					1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	DFS-s OFDM	PI/2 BPSK	1	1	21.15	21.27	21.35	0.0	21.50	19.06	19.07	19.02	0.0	19.25
			1	1	21.37	21.13	21.38	0.0	21.50	19.08	19.15	18.98	0.0	19.25
		QPSK	1	13	21.14	21.13	21.37	0.0	21.50	19.15	18.96	19.02	0.0	19.25
			1	23	21.28	21.32	21.24	0.0	21.50	19.01	19.10	18.95	0.0	19.25
			12	0	21.23	21.20	21.13	0.0	21.50	19.00	18.96	18.94	0.0	19.25
			12	7	21.39	21.21	21.22	0.0	21.50	19.14	18.93	19.01	0.0	19.25
			12	13	21.23	21.37	21.22	0.0	21.50	19.17	19.03	18.94	0.0	19.25
			25	0	21.15	21.30	21.28	0.0	21.50	19.15	19.16	18.97	0.0	19.25
		16QAM	1	1	21.23	21.34	21.19	0.0	21.50	19.03	18.99	18.99	0.0	19.25
	64QAM	1	1	21.40	21.15	21.33	0.0	21.50	19.16	18.90	19.17	0.0	19.25	
256QAM	1	1	21.12	21.30	21.11	0.0	21.50	19.11	19.01	18.92	0.0	19.25		
CP-OFDM	QPSK	1	1	21.30	21.30	21.28	0.0	21.50	19.07	19.08	19.17	0.0	19.25	

NR Band 25 Measured Results (ANT3)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					372000	376500	381000	MPR	Tune-up Limit	372000	376500	381000	MPR	Tune-up Limit
					1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	DFS-s OFDM	PI/2 BPSK	1	1	24.32	24.40	24.30	0	24.70	20.95	21.06	20.91	0	21.25
			1	1	24.51	24.55	24.36	0	24.70	20.98	21.18	21.05	0	21.25
		QPSK	1	53	24.45	24.64	24.46	0	24.70	20.92	21.19	20.95	0	21.25
			1	104	24.51	24.35	24.56	0	24.70	21.04	21.05	21.20	0	21.25
			50	0	23.34	23.59	23.48	1	23.70	21.19	21.04	20.95	0	21.25
			50	28	24.54	24.30	24.51	0	24.70	20.95	21.17	21.04	0	21.25
			50	56	23.56	23.56	23.60	1	23.70	21.16	21.15	21.03	0	21.25
			100	0	23.57	23.48	23.37	1	23.70	20.94	21.11	21.17	0	21.25
		16QAM	1	1	23.58	23.45	23.54	1	23.70	20.97	21.17	20.97	0	21.25
		64QAM	1	1	21.82	21.80	21.82	2.5	22.20	21.14	20.96	21.09	0	21.25
		256QAM	1	1	20.06	20.10	20.08	4.5	20.20	21.04	20.97	21.18	0	21.25
	CP-OFDM	QPSK	1	1	23.10	23.00	23.00	1.5	23.20	21.19	20.99	20.90	0	21.25
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					371500	376500	381500	MPR	Tune-up Limit	371500	376500	381500	MPR	Tune-up Limit
					1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz		
15 MHz	DFS-s OFDM	PI/2 BPSK	1	1	24.25	24.28	24.47	0	24.70	20.90	20.99	20.85	0	21.25
			1	1	24.34	24.44	24.48	0	24.70	20.93	20.84	21.06	0	21.25
		QPSK	1	40	24.22	24.36	24.47	0	24.70	20.95	20.99	20.96	0	21.25
			1	77	24.43	24.43	24.45	0	24.70	21.10	20.98	20.90	0	21.25
			36	0	23.42	23.45	23.23	1	23.70	20.94	20.91	21.00	0	21.25
			36	22	24.28	24.35	24.37	0	24.70	20.82	20.99	21.06	0	21.25
			36	43	23.25	23.44	23.32	1	23.70	21.03	21.06	21.01	0	21.25
			75	0	23.35	23.35	23.31	1	23.70	20.87	21.04	21.01	0	21.25
		16QAM	1	1	23.35	23.32	23.47	1	23.70	20.95	21.06	20.93	0	21.25
		64QAM	1	1	21.73	21.82	21.71	2.5	22.20	21.00	20.96	20.81	0	21.25
		256QAM	1	1	19.72	19.83	19.83	4.5	20.20	21.10	21.09	20.92	0	21.25
	CP-OFDM	QPSK	1	1	22.72	22.80	22.87	1.5	23.20	20.85	20.87	20.89	0	21.25
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					371000	376500	382000	MPR	Tune-up Limit	371000	376500	382000	MPR	Tune-up Limit
					1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
15 MHz	DFS-s OFDM	PI/2 BPSK	1	1	24.29	24.32	24.40	0	24.70	20.81	21.08	20.92	0	21.25
			1	1	24.40	24.41	24.27	0	24.70	20.89	20.86	20.94	0	21.25
		QPSK	1	26	24.38	24.40	24.25	0	24.70	20.80	20.94	20.88	0	21.25
			1	50	24.27	24.43	24.36	0	24.70	20.82	21.03	20.86	0	21.25
			25	0	23.31	23.23	23.37	1	23.70	20.80	20.87	21.03	0	21.25
			25	14	24.24	24.28	24.24	0	24.70	21.10	21.04	20.95	0	21.25
			25	27	23.44	23.36	23.43	1	23.70	20.94	20.99	20.97	0	21.25
			50	0	23.25	23.44	23.22	1	23.70	20.90	21.04	20.80	0	21.25
		16QAM	1	1	23.24	23.29	23.46	1	23.70	20.99	20.99	20.98	0	21.25
		64QAM	1	1	21.80	22.00	21.85	2.5	22.20	20.82	21.04	21.04	0	21.25
		256QAM	1	1	19.75	19.99	19.93	4.5	20.20	21.01	21.06	21.08	0	21.25
	CP-OFDM	QPSK	1	1	22.91	22.99	22.77	1.5	23.20	20.97	20.88	21.04	0	21.25
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					370500	376500	382500	MPR	Tune-up Limit	370500	376500	382500	MPR	Tune-up Limit
					1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	DFS-s OFDM	PI/2 BPSK	1	1	24.45	24.37	24.24	0	24.70	20.88	20.92	21.07	0	21.25
			1	1	24.23	24.45	24.44	0	24.70	21.07	20.86	21.05	0	21.25
		QPSK	1	13	24.24	24.37	24.50	0	24.70	20.86	20.81	20.82	0	21.25
			1	23	24.36	24.26	24.26	0	24.70	20.92	20.85	20.82	0	21.25
			12	0	23.24	23.32	23.39	1	23.70	21.09	20.82	20.96	0	21.25
			12	7	24.33	24.32	24.31	0	24.70	20.93	20.92	21.05	0	21.25
			12	13	23.30	23.33	23.27	1	23.70	21.06	21.06	20.96	0	21.25
			25	0	23.37	23.50	23.26	1	23.70	21.00	21.05	21.07	0	21.25
		16QAM	1	1	23.33	23.23	23.50	1	23.70	20.82	20.95	21.01	0	21.25
		64QAM	1	1	21.90	21.85	21.96	2.5	22.20	20.92	21.07	20.90	0	21.25
		256QAM	1	1	19.97	19.93	19.94	4.5	20.20	21.10	20.87	20.81	0	21.25
	CP-OFDM	QPSK	1	1	22.88	22.96	22.71	1.5	23.20	20.92	21.06	20.88	0	21.25

NR Band 25 Measured Results (ANT4)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					372000	376500	381000	MPR	Tune-up Limit	372000	376500	381000	MPR	Tune-up Limit
					1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	20.45	20.33	20.29	0	20.50	21.72	21.45	21.54	0	21.75
			1	1	20.30	20.27	20.42	0	20.50	21.56	21.64	21.55	0	21.75
		QPSK	1	53	20.49	20.34	20.44	0	20.50	21.73	21.49	21.72	0	21.75
			1	104	20.44	20.35	20.34	0	20.50	21.57	21.56	21.47	0	21.75
			50	0	20.45	20.46	20.33	0	20.50	21.75	21.60	21.65	0	21.75
			50	28	20.43	20.47	20.50	0	20.50	21.74	21.68	21.47	0	21.75
			50	56	20.46	20.44	20.42	0	20.50	21.73	21.51	21.51	0	21.75
			100	0	20.24	20.23	20.25	0	20.50	21.64	21.55	21.67	0	21.75
		16QAM	1	1	20.49	20.48	20.40	0	20.50	21.74	21.56	21.70	0	21.75
		64QAM	1	1	20.26	20.40	20.43	0	20.50	21.75	21.67	21.46	0	21.75
		256QAM	1	1	20.22	20.35	20.30	0	20.50	21.63	21.68	21.74	0	21.75
	CP-OFDM	QPSK	1	1	20.46	20.33	20.40	0	20.50	21.52	21.50	21.51	0	21.75
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					371500	376500	381500	MPR	Tune-up Limit	371500	376500	381500	MPR	Tune-up Limit
					1857.5 MHz	1882.5 MHz	1907.5 MHz			1857.5 MHz	1882.5 MHz	1907.5 MHz		
15 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	20.42	20.43	20.40	0	20.50	21.64	21.56	21.64	0	21.75
			1	1	20.42	20.27	20.42	0	20.50	21.69	21.69	21.62	0	21.75
		QPSK	1	40	20.46	20.31	20.46	0	20.50	21.57	21.54	21.74	0	21.75
			1	77	20.31	20.29	20.42	0	20.50	21.58	21.73	21.46	0	21.75
			36	0	20.46	20.30	20.29	0	20.50	21.54	21.52	21.72	0	21.75
			36	22	20.25	20.46	20.38	0	20.50	21.53	21.59	21.54	0	21.75
			36	43	20.40	20.36	20.33	0	20.50	21.65	21.68	21.72	0	21.75
			75	0	20.43	20.32	20.35	0	20.50	21.75	21.59	21.68	0	21.75
		16QAM	1	1	20.46	20.46	20.33	0	20.50	21.65	21.65	21.73	0	21.75
		64QAM	1	1	20.45	20.49	20.31	0	20.50	21.48	21.72	21.62	0	21.75
		256QAM	1	1	20.23	20.31	20.30	0	20.50	21.54	21.68	21.68	0	21.75
	CP-OFDM	QPSK	1	1	20.28	20.28	20.25	0	20.50	21.66	21.62	21.49	0	21.75
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					371000	376500	382000	MPR	Tune-up Limit	371000	376500	382000	MPR	Tune-up Limit
					1855 MHz	1882.5 MHz	1910 MHz			1855 MHz	1882.5 MHz	1910 MHz		
15 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	20.36	20.36	20.27	0	20.50	21.57	21.60	21.69	0	21.75
			1	1	20.24	20.44	20.37	0	20.50	21.61	21.49	21.52	0	21.75
		QPSK	1	26	20.48	20.34	20.36	0	20.50	21.69	21.60	21.50	0	21.75
			1	50	20.31	20.31	20.26	0	20.50	21.75	21.51	21.68	0	21.75
			25	0	20.27	20.26	20.47	0	20.50	21.57	21.53	21.74	0	21.75
			25	14	20.39	20.42	20.22	0	20.50	21.72	21.75	21.67	0	21.75
			25	27	20.24	20.29	20.40	0	20.50	21.64	21.50	21.73	0	21.75
			50	0	20.23	20.23	20.49	0	20.50	21.63	21.59	21.48	0	21.75
		16QAM	1	1	20.41	20.49	20.46	0	20.50	21.74	21.52	21.50	0	21.75
		64QAM	1	1	20.48	20.34	20.36	0	20.50	21.48	21.61	21.61	0	21.75
		256QAM	1	1	20.37	20.39	20.29	0	20.50	21.62	21.45	21.50	0	21.75
	CP-OFDM	QPSK	1	1	20.31	20.32	20.30	0	20.50	21.60	21.70	21.67	0	21.75
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					370500	376500	382500	MPR	Tune-up Limit	370500	376500	382500	MPR	Tune-up Limit
					1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	20.30	20.40	20.36	0	20.50	21.69	21.64	21.73	0	21.75
			1	1	20.30	20.45	20.46	0	20.50	21.52	21.59	21.61	0	21.75
		QPSK	1	13	20.25	20.30	20.36	0	20.50	21.62	21.58	21.52	0	21.75
			1	23	20.45	20.28	20.39	0	20.50	21.67	21.75	21.73	0	21.75
			12	0	20.20	20.34	20.38	0	20.50	21.59	21.72	21.68	0	21.75
			12	7	20.39	20.33	20.41	0	20.50	21.49	21.48	21.56	0	21.75
			12	13	20.32	20.45	20.46	0	20.50	21.50	21.48	21.50	0	21.75
			25	0	20.36	20.23	20.34	0	20.50	21.66	21.58	21.68	0	21.75
		16QAM	1	1	20.41	20.35	20.26	0	20.50	21.62	21.48	21.63	0	21.75
		64QAM	1	1	20.28	20.27	20.35	0	20.50	21.54	21.57	21.73	0	21.75
		256QAM	1	1	20.35	20.43	20.36	0	20.50	21.74	21.70	21.52	0	21.75
	CP-OFDM	QPSK	1	1	20.21	20.22	20.25	0	20.50	21.59	21.65	21.68	0	21.75

NR Band 41 Measured Results (ANT1)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					509200	513900	518600	523300	528000	MFR	Tune-up Limit	509200	513900	518600	523300	528000	MFR	Tune-up Limit
					2546 MHz	2569.5 MHz	2593 MHz	2616.5 MHz	2640 MHz			2546 MHz	2569.5 MHz	2593 MHz	2616.5 MHz	2640 MHz		
100 MHz	DFS-s OFDM	PI2 BPSK	1	1			24.95			0.0	25.25			20.27			0.0	20.50
			1	1			24.92			0.0	25.25			20.33			0.0	20.50
		QPSK	1	137			25.01			0.0	25.25			20.36			0.0	20.50
			1	271			24.98			0.0	25.25			20.21			0.0	20.50
			135	0			24.19			1.0	24.25			20.25			0.0	20.50
			135	69			25.03			0.0	25.25			20.30			0.0	20.50
			135	138			24.15			1.0	24.25			20.12			0.0	20.50
			270	0			24.02			1.0	24.25			20.29			0.0	20.50
			16QAM	1	1		24.15			1.0	24.25			20.21			0.0	20.50
			64QAM	1	1		22.64			2.5	22.75			20.27			0.0	20.50
			256QAM	1	1		20.59			4.5	20.75			20.31			0.0	20.50
		CP-OFDM	QPSK	1	1		23.47			1.5	23.75			20.24			0.0	20.50
90 MHz	DFS-s OFDM	PI2 BPSK	1	1			25.17			0.0	25.25			20.39			0.0	20.50
			1	1			24.96			0.0	25.25			20.36			0.0	20.50
		QPSK	1	123			25.05			0.0	25.25			20.37			0.0	20.50
			1	243			25.14			0.0	25.25			20.24			0.0	20.50
			120	0			24.08			1.0	24.25			20.12			0.0	20.50
			120	63			25.13			0.0	25.25			20.18			0.0	20.50
			120	125			24.00			1.0	24.25			20.12			0.0	20.50
			243	0			23.92			1.0	24.25			20.19			0.0	20.50
			16QAM	1	1		24.05			1.0	24.25			20.33			0.0	20.50
			64QAM	1	1		22.67			2.5	22.75			20.32			0.0	20.50
			256QAM	1	1		20.62			4.5	20.75			20.11			0.0	20.50
		CP-OFDM	QPSK	1	1		23.60			1.5	23.75			20.23			0.0	20.50
80 MHz	DFS-s OFDM	PI2 BPSK	1	1			25.12			0.0	25.25			20.12			0.0	20.50
			1	1			25.10			0.0	25.25			20.26			0.0	20.50
		QPSK	1	109			25.09			0.0	25.25			20.31			0.0	20.50
			1	215			25.09			0.0	25.25			20.20			0.0	20.50
			108	0			24.06			1.0	24.25			20.37			0.0	20.50
			108	55			25.12			0.0	25.25			20.31			0.0	20.50
			108	109			24.17			1.0	24.25			20.34			0.0	20.50
			216	0			23.99			1.0	24.25			20.37			0.0	20.50
			16QAM	1	1		23.92			1.0	24.25			20.29			0.0	20.50
			64QAM	1	1		22.51			2.5	22.75			20.40			0.0	20.50
			256QAM	1	1		20.62			4.5	20.75			20.11			0.0	20.50
		CP-OFDM	QPSK	1	1		23.57			1.5	23.75			20.22			0.0	20.50
60 MHz	DFS-s OFDM	PI2 BPSK	1	1			24.98			0.0	25.25	20.30	20.35	20.37	20.14	20.23	0.0	20.50
			1	1			25.18			0.0	25.25	20.38	20.14	20.38	20.33	20.17	0.0	20.50
		QPSK	1	81			25.02			0.0	25.25	20.28	20.36	20.11	20.36	20.20	0.0	20.50
			1	160			25.02			0.0	25.25	20.34	20.17	20.12	20.32	20.21	0.0	20.50
			81	0			23.98			1.0	24.25	20.10	20.21	20.19	20.12	20.23	0.0	20.50
			81	40			24.98			0.0	25.25	20.31	20.28	20.35	20.40	20.12	0.0	20.50
			81	81			24.02			1.0	24.25	20.17	20.28	20.24	20.33	20.28	0.0	20.50
			162	0			23.98			1.0	24.25	20.19	20.14	20.31	20.34	20.31	0.0	20.50
			16QAM	1	1		24.04			1.0	24.25	20.30	20.40	20.36	20.13	20.13	0.0	20.50
			64QAM	1	1		22.66			2.5	22.75	20.20	20.30	20.36	20.17	20.27	0.0	20.50
			256QAM	1	1		20.47			4.5	20.75	20.23	20.28	20.28	20.34	20.20	0.0	20.50
		CP-OFDM	QPSK	1	1		23.50			1.5	23.75	20.25	20.29	20.15	20.16	20.18	0.0	20.50
50 MHz	DFS-s OFDM	PI2 BPSK	1	1			25.06			0.0	25.25	20.12	20.33	20.12	20.35	20.20	0.0	20.50
			1	1			25.16			0.0	25.25	20.11	20.36	20.33	20.37	20.36	0.0	20.50
		QPSK	1	67			24.97			0.0	25.25	20.12	20.31	20.28	20.35	20.14	0.0	20.50
			1	131			25.05			0.0	25.25	20.15	20.38	20.15	20.35	20.24	0.0	20.50
			64	0			24.08			1.0	24.25	20.14	20.11	20.22	20.24	20.19	0.0	20.50
			64	35			25.09			0.0	25.25	20.11	20.38	20.25	20.35	20.21	0.0	20.50
			64	69			23.92			1.0	24.25	20.12	20.21	20.25	20.31	20.15	0.0	20.50
			128	0			24.11			1.0	24.25	20.23	20.23	20.37	20.33	20.23	0.0	20.50
			16QAM	1	1		24.02			1.0	24.25	20.26	20.28	20.35	20.15	20.12	0.0	20.50
			64QAM	1	1		22.42			2.5	22.75	20.27	20.28	20.39	20.40	20.32	0.0	20.50
			256QAM	1	1		20.53			4.5	20.75	20.33	20.40	20.17	20.39	20.36	0.0	20.50
		CP-OFDM	QPSK	1	1		23.63			1.5	23.75	20.25	20.39	20.32	20.20	20.10	0.0	20.50

NR Band 41 Measured Results (ANT1) (continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					503200	510900	518600	526300	534000	MFR	Tune-up Limit	503200	510900	518600	526300	534000	MFR	Tune-up Limit
					2516 MHz	2554.5 MHz	2593 MHz	2631.5 MHz	2670 MHz			2516 MHz	2554.5 MHz	2593 MHz	2631.5 MHz	2670 MHz		
40 MHz	DFS-s OFDM	PI/2 BPSK	1	1	24.99	24.92	24.97	24.99	25.18	0.0	25.25	20.28	20.18	20.28	20.39	20.24	0.0	20.50
			1	1	25.18	24.92	25.11	24.99	25.01	0.0	25.25	20.12	20.35	20.20	20.39	20.12	0.0	20.50
		QPSK	1	53	25.17	25.00	24.95	25.08	25.11	0.0	25.25	20.14	20.38	20.24	20.27	20.33	0.0	20.50
			1	104	25.15	25.07	25.11	24.92	25.12	0.0	25.25	20.17	20.14	20.34	20.30	20.37	0.0	20.50
			50	0	23.93	24.18	24.14	24.04	24.05	1.0	24.25	20.38	20.31	20.34	20.27	20.22	0.0	20.50
			50	28	25.01	24.92	24.97	25.14	25.04	0.0	25.25	20.25	20.14	20.19	20.32	20.27	0.0	20.50
			50	56	23.97	24.11	24.05	24.18	24.00	1.0	24.25	20.32	20.38	20.36	20.14	20.25	0.0	20.50
			100	0	24.08	24.06	24.01	23.97	24.17	1.0	24.25	20.20	20.40	20.25	20.24	20.27	0.0	20.50
			16QAM	1	1	24.19	24.16	24.13	24.07	1.0	24.25	20.13	20.11	20.27	20.28	20.33	0.0	20.50
			64QAM	1	1	22.60	22.61	22.62	22.62	2.5	22.75	20.11	20.38	20.14	20.39	20.18	0.0	20.50
			256QAM	1	1	20.51	20.43	20.43	20.66	4.5	20.75	20.31	20.38	20.31	20.22	20.23	0.0	20.50
		CP-OFDM	QPSK	1	1	23.49	23.69	23.56	23.64	1.5	23.75	20.36	20.20	20.24	20.33	20.36	0.0	20.50
			QPSK	1	1	23.49	23.69	23.56	23.64	1.5	23.75	20.36	20.20	20.24	20.33	20.36	0.0	20.50
20 MHz	DFS-s OFDM	PI/2 BPSK	1	1	25.04	24.92	25.13	25.05	25.04	0.0	25.25	20.26	20.17	20.39	20.16	20.35	0.0	20.50
			1	1	25.03	25.18	24.93	25.07	25.14	0.0	25.25	20.16	20.19	20.30	20.28	20.37	0.0	20.50
		QPSK	1	26	25.14	25.17	25.17	25.04	25.05	0.0	25.25	20.16	20.30	20.18	20.22	20.37	0.0	20.50
			1	49	24.92	25.06	25.17	25.16	25.16	0.0	25.25	20.39	20.11	20.32	20.31	20.23	0.0	20.50
			25	0	24.02	24.10	24.19	24.18	24.14	1.0	24.25	20.24	20.15	20.30	20.22	20.11	0.0	20.50
			25	13	25.18	25.09	25.16	25.02	25.17	0.0	25.25	20.14	20.23	20.23	20.30	20.31	0.0	20.50
			25	26	23.98	24.17	24.09	24.05	23.98	1.0	24.25	20.22	20.35	20.33	20.30	20.40	0.0	20.50
			50	0	24.11	24.02	24.10	24.07	23.91	1.0	24.25	20.23	20.12	20.19	20.31	20.21	0.0	20.50
			16QAM	1	1	24.12	24.01	23.99	24.09	1.0	24.25	20.30	20.29	20.29	20.23	20.32	0.0	20.50
			64QAM	1	1	22.57	22.59	22.42	22.46	2.5	22.75	20.32	20.32	20.34	20.33	20.23	0.0	20.50
			256QAM	1	1	20.41	20.67	20.64	20.61	4.5	20.75	20.10	20.40	20.27	20.24	20.27	0.0	20.50
		CP-OFDM	QPSK	1	1	23.68	23.46	23.62	23.46	1.5	23.75	20.29	20.11	20.17	20.38	20.30	0.0	20.50
			QPSK	1	1	23.68	23.46	23.62	23.46	1.5	23.75	20.29	20.11	20.17	20.38	20.30	0.0	20.50

NR Band 41 Measured Results (ANT2) (continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					503200	510900	518600	526300	534000	MFR	Tune-up Limit	503200	510900	518600	526300	534000	MFR	Tune-up Limit
40 MHz	DFS-s OFDM	P12 BPSK	1	1	17.41	17.44	17.69	17.43	17.64	0.0	17.75	18.87	18.66	18.65	18.82	18.66	0.0	19.00
			1	1	17.50	17.54	17.42	17.53	17.57	0.0	17.75	18.70	18.77	18.71	18.73	18.69	0.0	19.00
		QPSK	1	53	17.57	17.53	17.58	17.68	17.69	0.0	17.75	18.85	18.64	18.64	18.66	18.73	0.0	19.00
			1	104	17.67	17.55	17.55	17.56	17.48	0.0	17.75	18.83	18.63	18.62	18.67	18.60	0.0	19.00
			50	0	17.43	17.42	17.68	17.54	17.41	0.0	17.75	18.78	18.79	18.80	18.87	18.87	0.0	19.00
			50	28	17.67	17.58	17.52	17.57	17.57	0.0	17.75	18.85	18.74	18.73	18.71	18.74	0.0	19.00
			50	56	17.57	17.69	17.50	17.45	17.57	0.0	17.75	18.64	18.86	18.90	18.72	18.81	0.0	19.00
			100	0	17.66	17.69	17.57	17.66	17.43	0.0	17.75	18.69	18.79	18.60	18.65	18.74	0.0	19.00
			16QAM	1	1	17.59	17.66	17.62	17.64	0.0	17.75	18.62	18.85	18.78	18.70	18.87	0.0	19.00
			64QAM	1	1	17.63	17.44	17.57	17.41	0.0	17.75	18.60	18.88	18.84	18.79	18.78	0.0	19.00
			256QAM	1	1	17.63	17.49	17.54	17.65	0.0	17.75	18.86	18.80	18.89	18.72	18.76	0.0	19.00
		CP-OFDM	QPSK	1	1	17.54	17.63	17.52	17.43	0.0	17.75	18.88	18.74	18.74	18.89	18.73	0.0	19.00
20 MHz	DFS-s OFDM	P12 BPSK	1	1	17.43	17.69	17.57	17.53	17.48	0.0	17.75	18.69	18.86	18.67	18.82	18.85	0.0	19.00
			1	1	17.44	17.52	17.53	17.68	17.41	0.0	17.75	18.64	18.71	18.88	18.81	18.70	0.0	19.00
		QPSK	1	26	17.69	17.41	17.44	17.64	17.49	0.0	17.75	18.85	18.89	18.75	18.86	18.78	0.0	19.00
			1	49	17.54	17.64	17.42	17.66	17.51	0.0	17.75	18.87	18.70	18.73	18.61	18.64	0.0	19.00
			25	0	17.48	17.69	17.64	17.43	17.69	0.0	17.75	18.63	18.62	18.90	18.89	18.79	0.0	19.00
			25	13	17.46	17.47	17.44	17.51	17.50	0.0	17.75	18.78	18.76	18.67	18.70	18.85	0.0	19.00
			25	26	17.57	17.47	17.67	17.64	17.44	0.0	17.75	18.63	18.74	18.76	18.74	18.61	0.0	19.00
			50	0	17.57	17.45	17.49	17.66	17.55	0.0	17.75	18.65	18.76	18.86	18.89	18.80	0.0	19.00
			16QAM	1	1	17.59	17.43	17.68	17.41	0.0	17.75	18.70	18.66	18.74	18.74	18.68	0.0	19.00
			64QAM	1	1	17.47	17.60	17.47	17.61	0.0	17.75	18.62	18.73	18.71	18.79	18.71	0.0	19.00
			256QAM	1	1	17.47	17.54	17.68	17.68	0.0	17.75	18.74	18.70	18.74	18.86	18.74	0.0	19.00
		CP-OFDM	QPSK	1	1	17.48	17.58	17.66	17.53	0.0	17.75	18.79	18.79	18.78	18.81	18.82	0.0	19.00

NR Band 41 Measured Results (ANT3)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					509200	513900	518600	523300	528000	MFR	Tune-up Limit	509200	513900	518600	523300	528000	MFR	Tune-up Limit
					2546 MHz	2569.5 MHz	2593 MHz	2616.5 MHz	2640 MHz			2546 MHz	2569.5 MHz	2593 MHz	2616.5 MHz	2640 MHz		
100 MHz	DFS-s OFDM	PI2 BPSK	1	1			24.34			0	24.50			19.55			0	19.75
			1	1			24.37			0	24.50			19.44			0	19.75
		QPSK	1	137			24.39			0	24.50			19.55			0	19.75
			1	271			24.23			0	24.50			19.41			0	19.75
			135	0			23.37			1	23.50			19.53			0	19.75
			135	69			24.30			0	24.50			19.63			0	19.75
			135	138			23.26			1	23.50			19.59			0	19.75
			270	0			23.12			1	23.50			19.55			0	19.75
		16QAM	1	1			23.20			1	23.50			19.53			0	19.75
		64QAM	1	1			21.70			2.5	22.00			19.40			0	19.75
		256QAM	1	1			19.67			4.5	20.00			19.62			0	19.75
	CP-OFDM	QPSK	1	1			22.84			1.5	23.00			19.50			0	19.75
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					508200	513400	518600	523800	529000	MFR	Tune-up Limit	508200	513400	518600	523800	529000	MFR	Tune-up Limit
2541 MHz	2567 MHz	2593 MHz	2619 MHz	2645 MHz	2541 MHz	2567 MHz	2593 MHz	2619 MHz	2645 MHz									
90 MHz	DFS-s OFDM	PI2 BPSK	1	1			24.09			0	24.50			19.59			0	19.75
			1	1			24.03			0	24.50			19.51			0	19.75
		QPSK	1	123			24.24			0	24.50			19.56			0	19.75
			1	243			24.07			0	24.50			19.59			0	19.75
			120	0			23.22			1	23.50			19.30			0	19.75
			120	63			24.27			0	24.50			19.57			0	19.75
			120	125			23.05			1	23.50			19.54			0	19.75
			243	0			23.21			1	23.50			19.49			0	19.75
		16QAM	1	1			23.09			1	23.50			19.46			0	19.75
		64QAM	1	1			21.53			2.5	22.00			19.52			0	19.75
		256QAM	1	1			19.52			4.5	20.00			19.48			0	19.75
	CP-OFDM	QPSK	1	1			22.73			1.5	23.00			19.50			0	19.75
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					507200	512900	518600	524300	530000	MFR	Tune-up Limit	507200	512900	518600	524300	530000	MFR	Tune-up Limit
2536 MHz	2564.5 MHz	2593 MHz	2621.5 MHz	2650 MHz	2536 MHz	2564.5 MHz	2593 MHz	2621.5 MHz	2650 MHz									
80 MHz	DFS-s OFDM	PI2 BPSK	1	1			24.18			0	24.50			19.43			0	19.75
			1	1			24.25			0	24.50			19.36			0	19.75
		QPSK	1	109			24.09			0	24.50			19.43			0	19.75
			1	215			24.25			0	24.50			19.45			0	19.75
			108	0			23.17			1	23.50			19.49			0	19.75
			108	55			24.06			0	24.50			19.31			0	19.75
			108	109			23.24			1	23.50			19.55			0	19.75
			216	0			23.20			1	23.50			19.33			0	19.75
		16QAM	1	1			23.13			1	23.50			19.31			0	19.75
		64QAM	1	1			21.77			2.5	22.00			19.49			0	19.75
		256QAM	1	1			19.77			4.5	20.00			19.53			0	19.75
	CP-OFDM	QPSK	1	1			22.68			1.5	23.00			19.57			0	19.75
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					505200	511900	518600	525300	532000	MFR	Tune-up Limit	505200	511900	518600	525300	532000	MFR	Tune-up Limit
2526 MHz	2559.5 MHz	2593 MHz	2626.5 MHz	2660 MHz	2526 MHz	2559.5 MHz	2593 MHz	2626.5 MHz	2660 MHz									
60 MHz	DFS-s OFDM	PI2 BPSK	1	1	24.16	24.10	24.12	24.20	24.05	0	24.50	19.33	19.40	19.59	19.37	19.54	0	19.75
			1	1	24.01	24.25	24.16	24.04	24.21	0	24.50	19.60	19.44	19.54	19.33	19.46	0	19.75
		QPSK	1	81	24.06	24.16	24.07	24.05	24.16	0	24.50	19.43	19.59	19.58	19.51	19.41	0	19.75
			1	160	24.28	24.03	24.14	24.10	24.09	0	24.50	19.48	19.58	19.58	19.33	19.31	0	19.75
			81	0	23.18	23.09	23.20	23.04	23.04	1	23.50	19.57	19.37	19.54	19.50	19.49	0	19.75
			81	40	24.13	24.22	24.21	24.02	24.28	0	24.50	19.37	19.39	19.49	19.60	19.42	0	19.75
			81	81	23.18	23.06	23.21	23.20	23.24	1	23.50	19.51	19.48	19.55	19.59	19.45	0	19.75
			162	0	23.23	23.19	23.29	23.25	23.17	1	23.50	19.41	19.59	19.48	19.57	19.50	0	19.75
		16QAM	1	1	23.18	23.04	23.05	23.11	23.05	1	23.50	19.32	19.38	19.59	19.49	19.48	0	19.75
		64QAM	1	1	21.69	21.53	21.72	21.56	21.71	2.5	22.00	19.36	19.58	19.40	19.51	19.30	0	19.75
		256QAM	1	1	19.73	19.57	19.61	19.55	19.66	4.5	20.00	19.37	19.36	19.34	19.33	19.53	0	19.75
	CP-OFDM	QPSK	1	1	22.70	22.73	22.73	22.55	22.59	1.5	23.00	19.56	19.54	19.36	19.45	19.36	0	19.75
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					504200	511400	518600	525800	533000	MFR	Tune-up Limit	504200	511400	518600	525800	533000	MFR	Tune-up Limit
2521 MHz	2557 MHz	2593 MHz	2629 MHz	2665 MHz	2521 MHz	2557 MHz	2593 MHz	2629 MHz	2665 MHz									
50 MHz	DFS-s OFDM	PI2 BPSK	1	1	24.19	24.30	24.23	24.17	24.20	0	24.50	19.50	19.39	19.57	19.34	19.32	0	19.75
			1	1	24.20	24.18	24.07	24.27	24.12	0	24.50	19.35	19.44	19.41	19.56	19.59	0	19.75
		QPSK	1	67	24.12	24.19	24.12	24.09	24.26	0	24.50	19.41	19.36	19.40	19.57	19.54	0	19.75
			1	131	24.08	24.11	24.25	24.19	24.25	0	24.50	19.46	19.44	19.34	19.45	19.53	0	19.75
			64	0	23.25	23.25	23.11	23.14	23.24	1	23.50	19.31	19.36	19.47	19.49	19.56	0	19.75
			64	35	24.26	24.16	24.11	24.05	24.00	0	24.50	19.45	19.42	19.60	19.32	19.48	0	19.75
			64	69	23.24	23.25	23.10	23.01	23.19	1	23.50	19.58	19.56	19.55	19.56	19.43	0	19.75
			128	0	23.22	23.03	23.10	23.12	23.14	1	23.50	19.40	19.58	19.47	19.39	19.52	0	19.75
		16QAM	1	1	23.26	23.03	23.06	23.07	23.06	1	23.50	19.42	19.31	19.45	19.39	19.53	0	19.75
		64QAM	1	1	21.55	21.80	21.67	21.60	21.75	2.5	22.00	19.42	19.32	19.57	19.40	19.37	0	19.75
		256QAM	1	1	19.71	19.63	19.74	19.80	19.63	4.5	20.00	19.50	19.40	19.45	19.33	19.58	0	19.75
	CP-OFDM	QPSK	1	1	22.63	22.63	22.57	22.66	22.72	1.5	23.00	19.52	19.42	19.42	19.45	19.35	0	19.75

NR Band 41 Measured Results (ANT3) (continued)

Power Mode A (dBm)																		Power Mode B (dBm)																	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	503200	510900	518600	526300	534000	MFR	Tune-up Limit	503200	510900	518600	526300	534000	MFR	Tune-up Limit																	
					2516 MHz	2554.5 MHz	2593 MHz	2631.5 MHz	2670 MHz			2516 MHz	2554.5 MHz	2593 MHz	2631.5 MHz	2670 MHz																			
40 MHz	DFS-s OFDM	PI/2 BPSK	1	1	24.11	24.05	24.11	24.12	24.22	0	24.50	19.51	19.49	19.50	19.52	19.40	0	19.75																	
			1	1	24.13	24.11	24.15	24.00	24.17	0	24.50	19.57	19.44	19.37	19.53	19.36	0	19.75																	
		QPSK	1	53	24.12	24.29	24.10	24.01	24.29	0	24.50	19.33	19.38	19.36	19.31	19.34	0	19.75																	
			1	104	24.22	24.14	24.15	24.10	24.15	0	24.50	19.42	19.32	19.55	19.58	19.35	0	19.75																	
			50	0	23.14	23.10	23.19	23.19	23.25	1	23.50	19.56	19.33	19.54	19.39	19.44	0	19.75																	
			50	28	24.11	24.11	24.23	24.29	24.11	0	24.50	19.45	19.57	19.36	19.33	19.45	0	19.75																	
			50	56	23.03	23.09	23.24	23.10	23.08	1	23.50	19.40	19.41	19.40	19.57	19.44	0	19.75																	
			100	0	23.02	23.13	23.10	23.24	23.26	1	23.50	19.44	19.41	19.38	19.42	19.49	0	19.75																	
			16QAM	1	1	23.13	23.06	23.09	23.11	23.25	1	23.50	19.55	19.39	19.49	19.44	19.32	0	19.75																
			64QAM	1	1	21.77	21.79	21.75	21.57	21.61	2.5	22.00	19.49	19.47	19.59	19.32	19.46	0	19.75																
			256QAM	1	1	19.63	19.58	19.73	19.64	19.53	4.5	20.00	19.33	19.43	19.37	19.42	19.50	0	19.75																
		CP-OFDM	QPSK	1	1	22.54	22.57	22.63	22.67	22.57	1.5	23.00	19.40	19.59	19.57	19.47	19.32	0	19.75																
20 MHz	DFS-s OFDM	PI/2 BPSK	1	1	24.09	24.09	24.08	24.19	24.14	0	24.50	19.44	19.35	19.49	19.47	19.45	0	19.75																	
			1	1	24.22	24.16	24.28	24.14	24.22	0	24.50	19.52	19.50	19.50	19.40	19.51	0	19.75																	
		QPSK	1	26	24.19	24.28	24.10	24.18	24.19	0	24.50	19.45	19.37	19.39	19.47	19.48	0	19.75																	
			1	49	24.21	24.03	24.22	24.29	24.04	0	24.50	19.50	19.43	19.59	19.57	19.58	0	19.75																	
			25	0	23.17	23.17	23.01	23.18	23.29	1	23.50	19.54	19.47	19.47	19.35	19.40	0	19.75																	
			25	13	24.14	24.19	24.14	24.15	24.29	0	24.50	19.39	19.40	19.53	19.33	19.41	0	19.75																	
			25	26	23.12	23.03	23.29	23.07	23.01	1	23.50	19.54	19.52	19.42	19.32	19.55	0	19.75																	
			50	0	23.30	23.21	23.10	23.20	23.26	1	23.50	19.31	19.46	19.55	19.40	19.33	0	19.75																	
			16QAM	1	1	23.03	23.19	23.25	23.27	23.03	1	23.50	19.57	19.37	19.46	19.35	19.55	0	19.75																
			64QAM	1	1	21.61	21.72	21.50	21.70	21.65	2.5	22.00	19.47	19.39	19.36	19.46	19.33	0	19.75																
			256QAM	1	1	19.54	19.70	19.57	19.54	19.75	4.5	20.00	19.36	19.43	19.40	19.51	19.57	0	19.75																
		CP-OFDM	QPSK	1	1	22.66	22.71	22.54	22.78	22.64	1.5	23.00	19.34	19.47	19.31	19.57	19.40	0	19.75																

NR Band 41 Measured Results (ANT4)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					509200	513900	518600	523300	528000	MFR	Tune-up Limit	509200	513900	518600	523300	528000	MFR	Tune-up Limit
					2546 MHz	2569.5 MHz	2593 MHz	2616.5 MHz	2640 MHz			2546 MHz	2569.5 MHz	2593 MHz	2616.5 MHz	2640 MHz		
100 MHz	DFS-s OFDM	PI2 BPSK	1	1			19.02			0	19.25			20.03			0	20.25
			1	1			19.01			0	19.25			20.09			0	20.25
		QPSK	1	137			19.14			0	19.25			20.15			0	20.25
			1	271			19.08			0	19.25			20.14			0	20.25
			135	0			19.03			0	19.25			20.23			0	20.25
			135	69			19.17			0	19.25			20.24			0	20.25
			135	138			18.99			0	19.25			20.15			0	20.25
			270	0			19.06			0	19.25			20.24			0	20.25
			16QAM	1	1		18.95			0	19.25			20.23			0	20.25
			64QAM	1	1		19.08			0	19.25			20.04			0	20.25
			256QAM	1	1		19.13			0	19.25			20.05			0	20.25
		CP-OFDM	QPSK	1	1		18.99			0	19.25			20.00			0	20.25
90 MHz	DFS-s OFDM	PI2 BPSK	1	1			19.04			0	19.25			20.14			0	20.25
			1	1			19.20			0	19.25			20.13			0	20.25
		QPSK	1	123			19.00			0	19.25			20.02			0	20.25
			1	243			19.06			0	19.25			20.15			0	20.25
			120	0			19.20			0	19.25			20.08			0	20.25
			120	63			19.09			0	19.25			20.10			0	20.25
			120	125			18.96			0	19.25			20.04			0	20.25
			243	0			19.02			0	19.25			20.12			0	20.25
			16QAM	1	1		19.07			0	19.25			20.10			0	20.25
			64QAM	1	1		19.24			0	19.25			20.11			0	20.25
			256QAM	1	1		19.19			0	19.25			20.18			0	20.25
		CP-OFDM	QPSK	1	1		19.19			0	19.25			20.00			0	20.25
80 MHz	DFS-s OFDM	PI2 BPSK	1	1			19.13			0	19.25			20.25			0	20.25
			1	1			19.23			0	19.25			20.18			0	20.25
		QPSK	1	109			19.07			0	19.25			20.05			0	20.25
			1	215			19.09			0	19.25			20.14			0	20.25
			108	0			19.14			0	19.25			20.13			0	20.25
			108	55			19.01			0	19.25			20.09			0	20.25
			108	109			19.21			0	19.25			20.00			0	20.25
			216	0			19.04			0	19.25			20.13			0	20.25
			16QAM	1	1		19.15			0	19.25			20.01			0	20.25
			64QAM	1	1		19.04			0	19.25			19.97			0	20.25
			256QAM	1	1		19.06			0	19.25			19.95			0	20.25
		CP-OFDM	QPSK	1	1		18.96			0	19.25			20.24			0	20.25
60 MHz	DFS-s OFDM	PI2 BPSK	1	1			19.09			0	19.25	20.12	20.07	19.96	20.14	20.21	0	20.25
			1	1			18.96			0	19.25	19.99	20.02	20.18	20.04	20.17	0	20.25
		QPSK	1	81			19.07			0	19.25	20.10	20.04	19.97	20.11	20.23	0	20.25
			1	160			19.25			0	19.25	20.18	19.98	20.16	20.22	20.03	0	20.25
			81	0			18.99			0	19.25	20.06	19.97	19.97	20.23	20.23	0	20.25
			81	40			19.03			0	19.25	19.97	20.24	19.96	20.17	20.00	0	20.25
			81	81			18.98			0	19.25	20.12	20.00	20.14	20.03	20.15	0	20.25
			162	0			19.06			0	19.25	20.20	20.21	19.95	20.16	19.96	0	20.25
			16QAM	1	1		18.96			0	19.25	20.14	20.18	20.01	19.97	20.23	0	20.25
			64QAM	1	1		19.21			0	19.25	19.99	20.24	20.00	19.96	20.20	0	20.25
			256QAM	1	1		18.95			0	19.25	20.20	20.01	20.03	20.07	20.02	0	20.25
		CP-OFDM	QPSK	1	1		19.24			0	19.25	20.21	20.17	19.97	20.02	19.96	0	20.25
50 MHz	DFS-s OFDM	PI2 BPSK	1	1			19.16			0	19.25	20.05	20.12	20.09	20.03	20.20	0	20.25
			1	1			19.25			0	19.25	20.06	20.20	20.10	20.08	20.16	0	20.25
		QPSK	1	67			18.97			0	19.25	19.97	20.02	20.24	19.95	20.17	0	20.25
			1	131			18.95			0	19.25	20.00	20.13	20.07	20.17	20.23	0	20.25
			64	0			19.21			0	19.25	20.01	20.12	20.07	20.10	20.03	0	20.25
			64	35			19.13			0	19.25	20.05	20.22	20.18	19.99	19.95	0	20.25
			64	69			19.03			0	19.25	20.05	19.98	20.15	20.23	19.97	0	20.25
			128	0			19.25			0	19.25	20.03	20.19	19.96	19.98	20.22	0	20.25
			16QAM	1	1		19.12			0	19.25	20.09	20.01	19.96	20.00	20.20	0	20.25
			64QAM	1	1		19.24			0	19.25	20.11	20.01	20.19	20.06	19.98	0	20.25
			256QAM	1	1		19.18			0	19.25	19.99	20.04	20.20	19.95	20.01	0	20.25
		CP-OFDM	QPSK	1	1		18.97			0	19.25	19.98	20.00	20.07	20.20	20.03	0	20.25

NR Band 41 Measured Results (ANT4) (continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					503200	510900	518600	526300	534000	MFR	Tune-up Limit	503200	510900	518600	526300	534000	MFR	Tune-up Limit
40 MHz	DFS-s OFDM	PI/2 BPSK	1	1	19.21	19.17	19.07	19.08	19.22	0	19.25	20.13	20.02	20.11	19.96	19.97	0	20.25
			1	1	19.14	19.16	18.98	18.98	19.16	0	19.25	20.11	19.95	20.01	20.09	20.21	0	20.25
		QPSK	1	53	19.14	18.98	19.00	19.03	19.11	0	19.25	20.11	19.99	20.04	20.00	19.98	0	20.25
			1	104	19.10	19.05	19.03	19.05	18.99	0	19.25	20.21	20.20	19.97	19.99	20.21	0	20.25
			50	0	19.19	19.19	19.12	18.99	19.24	0	19.25	19.96	20.17	19.95	20.16	20.23	0	20.25
			50	28	19.13	19.10	19.01	19.14	19.06	0	19.25	20.21	20.20	19.95	20.08	20.17	0	20.25
			50	56	19.13	19.11	19.23	19.24	19.16	0	19.25	20.21	19.96	20.25	20.20	20.12	0	20.25
			100	0	19.00	19.14	19.23	19.11	19.08	0	19.25	19.97	20.24	20.12	20.07	19.97	0	20.25
			16QAM	1	1	19.19	19.02	19.18	18.97	0	19.25	20.05	20.12	19.99	20.14	20.24	0	20.25
			64QAM	1	1	18.99	19.14	19.04	19.21	0	19.25	20.04	20.03	20.12	20.20	20.00	0	20.25
			256QAM	1	1	19.13	19.11	18.96	19.16	0	19.25	20.01	19.99	20.05	20.18	20.21	0	20.25
		CP-OFDM	QPSK	1	1	19.03	19.12	18.99	19.22	0	19.25	20.15	20.04	20.23	20.00	20.10	0	20.25
20 MHz	DFS-s OFDM	PI/2 BPSK	1	1	19.22	19.13	19.05	19.15	19.10	0	19.25	20.05	20.10	20.17	20.24	20.10	0	20.25
			1	1	19.23	19.03	19.11	19.08	19.00	0	19.25	20.06	20.04	19.99	20.03	19.98	0	20.25
		QPSK	1	26	19.13	19.01	19.07	19.19	19.10	0	19.25	20.04	20.07	19.99	20.12	19.98	0	20.25
			1	49	19.25	19.24	19.02	19.01	19.22	0	19.25	19.96	20.00	20.25	20.07	19.96	0	20.25
			25	0	19.16	19.16	19.06	19.04	19.14	0	19.25	20.07	19.99	19.95	19.96	20.09	0	20.25
			25	13	19.10	19.04	19.09	19.17	19.17	0	19.25	20.23	20.18	20.08	19.98	19.99	0	20.25
			25	26	18.99	19.14	18.96	19.05	18.97	0	19.25	20.05	20.15	20.23	20.19	20.08	0	20.25
			50	0	18.96	19.10	19.23	19.13	19.12	0	19.25	20.20	20.06	20.14	20.13	20.22	0	20.25
			16QAM	1	1	19.09	19.03	19.00	19.14	0	19.25	20.07	20.15	20.14	20.14	20.08	0	20.25
			64QAM	1	1	18.99	19.15	19.06	19.23	0	19.25	20.15	20.22	20.23	20.00	20.08	0	20.25
			256QAM	1	1	18.97	19.23	19.09	19.10	0	19.25	20.09	20.02	20.12	20.22	20.21	0	20.25
		CP-OFDM	QPSK	1	1	19.21	19.03	18.99	19.15	0	19.25	20.19	20.04	19.96	19.97	20.04	0	20.25

NR Band 66 Measured Results (ANT1)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					344000	349000	354000	MPR	Tune-up Limit	344000	349000	354000	MPR	Tune-up Limit
					1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	25.50	25.41	25.30	0.0	25.70	18.22	18.19	18.24	0.0	18.50
			1	1	25.55	25.59	25.39	0.0	25.70	18.16	18.34	18.23	0.0	18.50
			1	53	25.51	25.61	25.39	0.0	25.70	18.36	18.30	18.36	0.0	18.50
			1	104	25.36	25.43	25.35	0.0	25.70	18.20	18.14	18.25	0.0	18.50
			50	0	24.59	24.36	24.40	1.0	24.70	18.39	18.31	18.39	0.0	18.50
			50	28	25.48	25.38	25.37	0.0	25.70	18.13	18.36	18.40	0.0	18.50
			50	56	24.33	24.36	24.42	1.0	24.70	18.30	18.11	18.31	0.0	18.50
		100	0	24.41	24.58	24.33	1.0	24.70	18.27	18.15	18.21	0.0	18.50	
		16QAM	1	1	24.41	24.57	24.30	1.0	24.70	18.14	18.26	18.16	0.0	18.50
	64QAM	1	1	22.89	23.09	22.89	2.5	23.20	18.12	18.21	18.27	0.0	18.50	
256QAM	1	1	20.95	20.97	20.95	4.5	21.20	18.19	18.37	18.40	0.0	18.50		
CP-OFDM	QPSK	1	1	23.80	24.05	24.03	1.5	24.20	18.39	18.36	18.28	0.0	18.50	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					343500	349000	354500	MPR	Tune-up Limit	343500	349000	354500	MPR	Tune-up Limit
					1717.5 MHz	1745 MHz	1772.5 MHz			1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	25.48	25.40	25.55	0.0	25.70	18.12	18.29	18.27	0.0	18.50
			1	1	25.32	25.33	25.55	0.0	25.70	18.11	18.25	18.14	0.0	18.50
			1	40	25.41	25.49	25.56	0.0	25.70	18.27	18.29	18.34	0.0	18.50
			1	77	25.50	25.39	25.46	0.0	25.70	18.21	18.24	18.19	0.0	18.50
			36	0	24.44	24.38	24.43	1.0	24.70	18.23	18.34	18.10	0.0	18.50
			36	22	25.46	25.52	25.54	0.0	25.70	18.39	18.11	18.30	0.0	18.50
			36	43	24.34	24.55	24.48	1.0	24.70	18.25	18.11	18.25	0.0	18.50
		75	0	24.57	24.46	24.56	1.0	24.70	18.11	18.25	18.14	0.0	18.50	
		16QAM	1	1	24.43	24.46	24.41	1.0	24.70	18.31	18.35	18.10	0.0	18.50
	64QAM	1	1	22.90	22.96	22.99	2.5	23.20	18.13	18.40	18.27	0.0	18.50	
256QAM	1	1	20.88	21.08	20.99	4.5	21.20	18.13	18.21	18.32	0.0	18.50		
CP-OFDM	QPSK	1	1	24.09	23.90	23.94	1.5	24.20	18.18	18.20	18.38	0.0	18.50	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					343000	349000	355000	MPR	Tune-up Limit	343000	349000	355000	MPR	Tune-up Limit
					1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	25.46	25.52	25.34	0.0	25.70	18.39	18.22	18.40	0.0	18.50
			1	1	25.54	25.45	25.37	0.0	25.70	18.13	18.30	18.38	0.0	18.50
			1	26	25.52	25.35	25.40	0.0	25.70	18.32	18.10	18.28	0.0	18.50
			1	50	25.56	25.46	25.47	0.0	25.70	18.24	18.14	18.35	0.0	18.50
			25	0	24.54	24.44	24.51	1.0	24.70	18.31	18.11	18.35	0.0	18.50
			25	14	25.51	25.34	25.49	0.0	25.70	18.28	18.30	18.19	0.0	18.50
			25	27	24.60	24.44	24.42	1.0	24.70	18.19	18.21	18.33	0.0	18.50
		50	0	24.59	24.30	24.37	1.0	24.70	18.36	18.17	18.34	0.0	18.50	
		16QAM	1	1	24.50	24.57	24.39	1.0	24.70	18.21	18.23	18.10	0.0	18.50
	64QAM	1	1	23.01	23.05	23.09	2.5	23.20	18.28	18.12	18.38	0.0	18.50	
256QAM	1	1	21.00	21.06	21.05	4.5	21.20	18.14	18.37	18.40	0.0	18.50		
CP-OFDM	QPSK	1	1	24.07	23.84	23.87	1.5	24.20	18.37	18.11	18.10	0.0	18.50	
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					342500	349000	355500	MPR	Tune-up Limit	342500	349000	355500	MPR	Tune-up Limit
					1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	25.58	25.38	25.52	0.0	25.70	18.20	18.28	18.29	0.0	18.50
			1	1	25.45	25.34	25.44	0.0	25.70	18.14	18.15	18.14	0.0	18.50
			1	13	25.59	25.31	25.41	0.0	25.70	18.19	18.26	18.30	0.0	18.50
			1	23	25.48	25.54	25.60	0.0	25.70	18.38	18.26	18.19	0.0	18.50
			12	0	24.38	24.58	24.54	1.0	24.70	18.12	18.30	18.26	0.0	18.50
			12	7	25.50	25.32	25.34	0.0	25.70	18.32	18.38	18.17	0.0	18.50
			12	13	24.36	24.48	24.39	1.0	24.70	18.11	18.16	18.39	0.0	18.50
		25	0	24.47	24.59	24.37	1.0	24.70	18.34	18.37	18.17	0.0	18.50	
		16QAM	1	1	24.45	24.35	24.50	1.0	24.70	18.34	18.14	18.34	0.0	18.50
	64QAM	1	1	23.01	22.92	22.82	2.5	23.20	18.21	18.15	18.20	0.0	18.50	
256QAM	1	1	20.83	21.05	20.97	4.5	21.20	18.29	18.22	18.19	0.0	18.50		
CP-OFDM	QPSK	1	1	23.87	23.94	23.94	1.5	24.20	18.28	18.31	18.15	0.0	18.50	

NR Band 66 Measured Results (ANT2)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					344000	349000	354000	MFR	Tune-up Limit	344000	349000	354000	MFR	Tune-up Limit
					1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	DFS-s OFDM	PI/2 BPSK	1	1	19.70	19.79	19.69	0.0	20.00	18.17	18.07	18.17	0.0	18.25
			1	1	19.78	19.73	19.88	0.0	20.00	17.98	18.09	18.12	0.0	18.25
		QPSK	1	53	19.71	19.82	19.65	0.0	20.00	18.02	18.14	18.10	0.0	18.25
			1	104	19.90	19.62	19.67	0.0	20.00	17.95	18.03	18.17	0.0	18.25
			50	0	19.72	19.72	19.88	0.0	20.00	18.15	18.04	18.05	0.0	18.25
			50	28	19.81	19.73	19.66	0.0	20.00	18.19	18.09	18.14	0.0	18.25
			50	56	19.76	19.70	19.64	0.0	20.00	18.16	18.08	18.06	0.0	18.25
			100	0	19.85	19.77	19.62	0.0	20.00	18.13	18.08	17.97	0.0	18.25
		16QAM	1	1	19.67	19.75	19.71	0.0	20.00	17.98	17.93	18.15	0.0	18.25
		64QAM	1	1	19.64	19.86	19.87	0.0	20.00	18.18	18.09	18.09	0.0	18.25
		256QAM	1	1	19.79	19.71	19.71	0.0	20.00	17.94	18.11	18.11	0.0	18.25
	CP-OFDM	QPSK	1	1	19.83	19.76	19.84	0.0	20.00	18.18	17.93	18.11	0.0	18.25
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					343500	349000	354500	MFR	Tune-up Limit	343500	349000	354500	MFR	Tune-up Limit
					1717.5 MHz	1745 MHz	1772.5 MHz			1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	DFS-s OFDM	PI/2 BPSK	1	1	19.84	19.83	19.80	0.0	20.00	17.90	17.97	17.96	0.0	18.25
			1	1	19.74	19.64	19.84	0.0	20.00	18.15	17.92	18.12	0.0	18.25
		QPSK	1	40	19.62	19.80	19.68	0.0	20.00	17.90	18.07	18.17	0.0	18.25
			1	77	19.69	19.63	19.76	0.0	20.00	18.05	17.96	18.08	0.0	18.25
			36	0	19.64	19.84	19.81	0.0	20.00	17.95	17.98	18.09	0.0	18.25
			36	22	19.84	19.85	19.69	0.0	20.00	18.15	18.12	17.96	0.0	18.25
			36	43	19.84	19.88	19.76	0.0	20.00	17.94	18.15	17.90	0.0	18.25
			75	0	19.72	19.71	19.82	0.0	20.00	18.16	18.12	18.03	0.0	18.25
		16QAM	1	1	19.65	19.87	19.77	0.0	20.00	18.15	18.06	17.96	0.0	18.25
		64QAM	1	1	19.86	19.85	19.88	0.0	20.00	18.01	17.95	18.14	0.0	18.25
		256QAM	1	1	19.76	19.62	19.73	0.0	20.00	17.91	17.92	17.98	0.0	18.25
	CP-OFDM	QPSK	1	1	19.87	19.68	19.81	0.0	20.00	18.14	18.10	17.94	0.0	18.25
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					343000	349000	355000	MFR	Tune-up Limit	343000	349000	355000	MFR	Tune-up Limit
					1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	DFS-s OFDM	PI/2 BPSK	1	1	19.75	19.71	19.88	0.0	20.00	17.91	17.95	17.96	0.0	18.25
			1	1	19.79	19.78	19.83	0.0	20.00	17.94	18.14	17.94	0.0	18.25
		QPSK	1	26	19.70	19.60	19.70	0.0	20.00	17.96	18.00	18.01	0.0	18.25
			1	50	19.84	19.80	19.64	0.0	20.00	18.04	18.04	18.10	0.0	18.25
			25	0	19.69	19.62	19.79	0.0	20.00	18.07	18.11	18.13	0.0	18.25
			25	14	19.63	19.61	19.88	0.0	20.00	17.94	18.04	18.18	0.0	18.25
			25	27	19.83	19.80	19.88	0.0	20.00	18.11	18.04	18.19	0.0	18.25
			50	0	19.77	19.70	19.80	0.0	20.00	17.94	18.10	18.15	0.0	18.25
		16QAM	1	1	19.64	19.89	19.89	0.0	20.00	17.94	17.94	17.97	0.0	18.25
		64QAM	1	1	19.78	19.80	19.65	0.0	20.00	17.96	18.18	17.96	0.0	18.25
		256QAM	1	1	19.74	19.79	19.66	0.0	20.00	18.01	18.02	17.93	0.0	18.25
	CP-OFDM	QPSK	1	1	19.83	19.76	19.88	0.0	20.00	18.02	18.15	18.14	0.0	18.25
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					342500	349000	355500	MFR	Tune-up Limit	342500	349000	355500	MFR	Tune-up Limit
					1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	DFS-s OFDM	PI/2 BPSK	1	1	19.70	19.61	19.89	0.0	20.00	18.07	17.97	18.04	0.0	18.25
			1	1	19.89	19.82	19.77	0.0	20.00	18.09	18.04	18.05	0.0	18.25
		QPSK	1	13	19.87	19.73	19.66	0.0	20.00	17.90	18.06	18.01	0.0	18.25
			1	23	19.79	19.63	19.63	0.0	20.00	18.05	18.15	17.97	0.0	18.25
			12	0	19.89	19.80	19.73	0.0	20.00	18.09	17.96	17.95	0.0	18.25
			12	7	19.75	19.85	19.77	0.0	20.00	17.91	18.14	18.07	0.0	18.25
			12	13	19.65	19.87	19.67	0.0	20.00	18.11	18.16	18.20	0.0	18.25
			25	0	19.72	19.60	19.73	0.0	20.00	17.95	17.90	17.95	0.0	18.25
		16QAM	1	1	19.66	19.63	19.74	0.0	20.00	18.10	17.98	18.08	0.0	18.25
		64QAM	1	1	19.89	19.81	19.64	0.0	20.00	18.08	17.91	18.05	0.0	18.25
		256QAM	1	1	19.61	19.64	19.75	0.0	20.00	17.97	18.02	18.07	0.0	18.25
	CP-OFDM	QPSK	1	1	19.74	19.72	19.62	0.0	20.00	17.90	17.92	18.14	0.0	18.25

NR Band 66 Measured Results (ANT3)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					344000	349000	354000	MPR	Tune-up Limit	344000	349000	354000	MPR	Tune-up Limit
					1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	DFS-s OFDM	P2 BPSK	1	1	24.50	24.41	24.32	0	24.70	20.42	20.64	20.45	0	20.75
			1	1	24.56	24.58	24.31	0	24.70	20.66	20.44	20.62	0	20.75
		QPSK	1	53	24.39	24.60	24.46	0	24.70	20.58	20.52	20.56	0	20.75
			1	104	24.33	24.33	24.57	0	24.70	20.63	20.46	20.50	0	20.75
			50	0	23.42	23.43	23.50	1	23.70	20.50	20.54	20.52	0	20.75
			50	28	24.45	24.36	24.46	0	24.70	20.69	20.56	20.64	0	20.75
			50	56	23.45	23.46	23.52	1	23.70	20.49	20.53	20.52	0	20.75
			100	0	23.34	23.32	23.38	1	23.70	20.47	20.70	20.68	0	20.75
		16QAM	1	1	23.36	23.42	23.53	1	23.70	20.67	20.46	20.55	0	20.75
		64QAM	1	1	22.06	21.86	22.09	2.5	22.20	20.41	20.62	20.58	0	20.75
		256QAM	1	1	19.91	19.96	19.99	4.5	20.20	20.58	20.62	20.56	0	20.75
	CP-OFDM	QPSK	1	1	22.85	22.95	23.00	1.5	23.20	20.67	20.63	20.66	0	20.75
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					343500	349000	354500	MPR	Tune-up Limit	343500	349000	354500	MPR	Tune-up Limit
					1717.5 MHz	1745 MHz	1772.5 MHz			1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	DFS-s OFDM	P2 BPSK	1	1	24.45	24.22	24.37	0	24.70	20.32	20.44	20.36	0	20.75
			1	1	24.46	24.45	24.30	0	24.70	20.45	20.59	20.34	0	20.75
		QPSK	1	40	24.30	24.24	24.45	0	24.70	20.42	20.55	20.48	0	20.75
			1	77	24.41	24.44	24.30	0	24.70	20.47	20.37	20.31	0	20.75
			36	0	23.35	23.49	23.34	1	23.70	20.37	20.33	20.46	0	20.75
			36	22	24.23	24.28	24.35	0	24.70	20.49	20.37	20.32	0	20.75
			36	43	23.45	23.46	23.47	1	23.70	20.40	20.38	20.55	0	20.75
			75	0	23.33	23.20	23.35	1	23.70	20.57	20.44	20.53	0	20.75
		16QAM	1	1	23.46	23.47	23.27	1	23.70	20.44	20.57	20.58	0	20.75
		64QAM	1	1	21.86	21.79	21.71	2.5	22.20	20.57	20.50	20.51	0	20.75
		256QAM	1	1	19.99	19.72	19.73	4.5	20.20	20.31	20.48	20.57	0	20.75
	CP-OFDM	QPSK	1	1	22.72	22.89	22.75	1.5	23.20	20.37	20.47	20.34	0	20.75
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					343000	349000	355000	MPR	Tune-up Limit	343000	349000	355000	MPR	Tune-up Limit
					1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	DFS-s OFDM	P2 BPSK	1	1	24.32	24.38	24.30	0	24.70	20.54	20.45	20.32	0	20.75
			1	1	24.38	24.31	24.38	0	24.70	20.47	20.35	20.46	0	20.75
		QPSK	1	26	24.32	24.46	24.47	0	24.70	20.49	20.51	20.39	0	20.75
			1	50	24.22	24.32	24.43	0	24.70	20.47	20.38	20.55	0	20.75
			25	0	23.44	23.48	23.39	1	23.70	20.45	20.55	20.56	0	20.75
			25	14	24.21	24.29	24.48	0	24.70	20.54	20.43	20.33	0	20.75
			25	27	23.40	23.22	23.36	1	23.70	20.30	20.51	20.34	0	20.75
			50	0	23.42	23.44	23.42	1	23.70	20.41	20.58	20.53	0	20.75
		16QAM	1	1	23.41	23.28	23.50	1	23.70	20.52	20.58	20.58	0	20.75
		64QAM	1	1	21.85	21.91	21.89	2.5	22.20	20.35	20.47	20.56	0	20.75
		256QAM	1	1	19.73	19.73	19.98	4.5	20.20	20.36	20.45	20.32	0	20.75
	CP-OFDM	QPSK	1	1	22.80	22.82	22.77	1.5	23.20	20.42	20.50	20.49	0	20.75
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					342500	349000	355500	MPR	Tune-up Limit	342500	349000	355500	MPR	Tune-up Limit
					1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	DFS-s OFDM	P2 BPSK	1	1	24.43	24.35	24.45	0	24.70	20.53	20.38	20.43	0	20.75
			1	1	24.24	24.27	24.30	0	24.70	20.57	20.51	20.47	0	20.75
		QPSK	1	13	24.43	24.45	24.47	0	24.70	20.35	20.33	20.34	0	20.75
			1	23	24.44	24.48	24.43	0	24.70	20.57	20.58	20.52	0	20.75
			12	0	23.39	23.32	23.22	1	23.70	20.30	20.44	20.52	0	20.75
			12	7	24.44	24.21	24.39	0	24.70	20.52	20.56	20.58	0	20.75
			12	13	23.42	23.21	23.30	1	23.70	20.36	20.60	20.55	0	20.75
			25	0	23.23	23.36	23.29	1	23.70	20.30	20.48	20.38	0	20.75
		16QAM	1	1	23.25	23.26	23.29	1	23.70	20.39	20.56	20.35	0	20.75
		64QAM	1	1	21.96	21.83	21.78	2.5	22.20	20.46	20.38	20.42	0	20.75
		256QAM	1	1	19.94	19.92	19.92	4.5	20.20	20.34	20.54	20.57	0	20.75
	CP-OFDM	QPSK	1	1	22.92	22.72	22.83	1.5	23.20	20.45	20.30	20.59	0	20.75

NR Band 66 Measured Results (ANT4)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					344000	349000	354000	MPR	Tune-up Limit	344000	349000	354000	MPR	Tune-up Limit
					1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	19.86	19.77	19.79	0	20.00	21.07	21.12	21.19	0	21.25
			1	1	19.76	19.79	19.77	0	20.00	21.11	21.00	21.14	0	21.25
		QPSK	1	53	19.82	19.92	19.96	0	20.00	21.03	21.20	21.07	0	21.25
			1	104	19.87	19.81	19.83	0	20.00	21.16	21.13	21.16	0	21.25
			50	0	19.95	19.79	19.79	0	20.00	21.25	21.14	21.13	0	21.25
			50	28	19.80	19.89	19.99	0	20.00	21.05	21.19	21.08	0	21.25
			50	56	19.72	19.84	19.82	0	20.00	21.19	21.17	21.24	0	21.25
			100	0	19.84	19.78	19.75	0	20.00	21.13	21.13	21.11	0	21.25
		16QAM	1	1	19.97	19.86	19.92	0	20.00	21.02	21.13	21.18	0	21.25
		64QAM	1	1	19.79	19.94	19.83	0	20.00	21.21	21.23	21.04	0	21.25
		256QAM	1	1	19.82	19.75	19.77	0	20.00	21.13	21.16	20.98	0	21.25
	CP-OFDM	QPSK	1	1	19.87	19.73	19.81	0	20.00	21.10	21.25	21.08	0	21.25
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					343500	349000	354500	MPR	Tune-up Limit	343500	349000	354500	MPR	Tune-up Limit
					1717.5 MHz	1745 MHz	1772.5 MHz			1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	19.90	19.95	19.81	0	20.00	21.03	21.17	20.96	0	21.25
			1	1	19.95	19.93	19.72	0	20.00	21.01	21.12	21.24	0	21.25
		QPSK	1	40	19.82	19.80	19.85	0	20.00	21.13	21.17	21.10	0	21.25
			1	77	19.98	19.88	19.88	0	20.00	21.14	21.10	21.09	0	21.25
			36	0	19.73	19.76	19.81	0	20.00	21.24	20.99	21.15	0	21.25
			36	22	19.72	19.75	19.70	0	20.00	21.09	21.07	20.97	0	21.25
			36	43	19.97	19.88	19.77	0	20.00	20.96	21.05	20.99	0	21.25
			75	0	19.74	19.73	19.74	0	20.00	20.96	21.13	21.01	0	21.25
		16QAM	1	1	19.88	19.84	19.97	0	20.00	21.08	21.21	21.06	0	21.25
		64QAM	1	1	19.86	19.78	19.93	0	20.00	21.01	21.19	21.02	0	21.25
		256QAM	1	1	19.90	19.86	19.71	0	20.00	20.98	21.23	21.01	0	21.25
	CP-OFDM	QPSK	1	1	19.92	19.89	19.80	0	20.00	21.19	21.00	20.99	0	21.25
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					343000	349000	355000	MPR	Tune-up Limit	343000	349000	355000	MPR	Tune-up Limit
					1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	19.94	19.94	19.84	0	20.00	21.10	21.11	20.98	0	21.25
			1	1	19.91	19.83	19.86	0	20.00	21.15	20.96	21.21	0	21.25
		QPSK	1	26	19.83	19.72	19.83	0	20.00	21.09	21.20	21.17	0	21.25
			1	50	19.94	19.97	19.80	0	20.00	21.09	21.19	21.11	0	21.25
			25	0	19.86	19.80	19.75	0	20.00	21.14	21.14	21.18	0	21.25
			25	14	19.71	19.89	19.84	0	20.00	21.14	21.00	21.18	0	21.25
			25	27	19.73	19.83	19.91	0	20.00	21.16	21.18	21.23	0	21.25
			50	0	19.94	19.77	19.84	0	20.00	21.09	21.02	21.20	0	21.25
		16QAM	1	1	19.99	19.84	19.98	0	20.00	21.00	21.11	21.11	0	21.25
		64QAM	1	1	19.83	19.84	19.82	0	20.00	21.13	21.00	21.20	0	21.25
		256QAM	1	1	19.91	19.76	19.71	0	20.00	21.24	20.99	21.13	0	21.25
	CP-OFDM	QPSK	1	1	19.97	19.85	19.70	0	20.00	21.23	21.15	21.02	0	21.25
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
					342500	349000	355500	MPR	Tune-up Limit	342500	349000	355500	MPR	Tune-up Limit
					1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	DFS-s OFDM	Pi/2 BPSK	1	1	19.71	19.82	19.82	0	20.00	21.19	21.07	21.14	0	21.25
			1	1	19.99	19.80	19.72	0	20.00	20.97	21.14	21.05	0	21.25
		QPSK	1	13	19.77	19.87	19.83	0	20.00	21.20	21.13	20.95	0	21.25
			1	23	19.73	19.84	19.77	0	20.00	21.23	21.13	21.24	0	21.25
			12	0	19.77	19.92	19.74	0	20.00	20.96	21.18	20.96	0	21.25
			12	7	19.77	19.94	19.90	0	20.00	20.99	21.14	21.09	0	21.25
			12	13	19.75	19.97	19.77	0	20.00	21.00	21.16	21.18	0	21.25
			25	0	19.77	19.79	19.99	0	20.00	21.20	21.08	20.99	0	21.25
		16QAM	1	1	19.94	19.87	19.73	0	20.00	21.03	20.98	21.09	0	21.25
		64QAM	1	1	19.96	19.88	19.79	0	20.00	21.07	21.12	20.95	0	21.25
		256QAM	1	1	19.88	19.75	19.96	0	20.00	21.15	20.96	21.24	0	21.25
	CP-OFDM	QPSK	1	1	19.71	19.95	19.91	0	20.00	21.21	21.17	20.96	0	21.25

NR Band 77 Measured Results (ANT7)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					650000	653000	656000	659000	662000	MFR	Tune-up Limit	650000	653000	656000	659000	662000	MFR	Tune-up Limit
					3750 MHz	3795 MHz	3840 MHz	3885 MHz	3930 MHz			3750 MHz	3795 MHz	3840 MHz	3885 MHz	3930 MHz		
100 MHz	DFS-s OFDM	PI/2 BPSK	1	1			25.32			0.0	25.7			19.05			0.0	19.75
			1	1			25.53			0.0	25.7			19.19			0.0	19.75
			1	137			25.57			0.0	25.7			19.44			0.0	19.75
			1	271			25.56			0.0	25.7			19.05			0.0	19.75
			135	0			24.36			1.0	24.7			19.34			0.0	19.75
			135	69			25.38			0.0	25.7			19.66			0.0	19.75
			135	138			24.36			1.0	24.7			19.28			0.0	19.75
			270	0			24.33			1.0	24.7			19.65			0.0	19.75
		QPSK	1	1			24.49			1.0	24.7			19.45			0.0	19.75
			1	1			22.97			2.5	23.2			19.42			0.0	19.75
			1	1			20.83			4.5	21.2			19.24			0.0	19.75
			1	1			24.00			1.5	24.2			19.44			0.0	19.75
90 MHz	DFS-s OFDM	PI/2 BPSK	1	1			25.24			0.0	25.7			19.40			0.0	19.75
			1	1			25.22			0.0	25.70			19.41			0.0	19.75
			1	123			25.04			0.0	25.70			19.28			0.0	19.75
			1	243			25.00			0.0	25.70			19.29			0.0	19.75
			120	0			24.21			1.0	24.70			19.25			0.0	19.75
			120	63			25.04			0.0	25.70			19.21			0.0	19.75
			120	125			24.26			1.0	24.70			19.16			0.0	19.75
			243	0			24.03			1.0	24.70			19.40			0.0	19.75
		QPSK	1	1			24.09			1.0	24.70			19.22			0.0	19.75
			1	1			22.55			2.5	23.20			19.30			0.0	19.75
			1	1			20.75			4.5	21.20			19.39			0.0	19.75
			1	1			23.73			1.5	24.20			19.42			0.0	19.75
80 MHz	DFS-s OFDM	PI/2 BPSK	1	1			25.14			0.0	25.70			19.20			0.0	19.75
			1	1			25.09			0.0	25.70			19.27			0.0	19.75
			1	109			25.13			0.0	25.70			19.18			0.0	19.75
			1	215			25.15			0.0	25.70			19.30			0.0	19.75
			108	0			24.18			1.0	24.70			19.39			0.0	19.75
			108	55			25.20			0.0	25.70			19.32			0.0	19.75
			108	109			24.29			1.0	24.70			19.20			0.0	19.75
			216	0			24.04			1.0	24.70			19.27			0.0	19.75
		QPSK	1	1			24.25			1.0	24.70			19.29			0.0	19.75
			1	1			22.77			2.5	23.20			19.26			0.0	19.75
			1	1			20.74			4.5	21.20			19.25			0.0	19.75
			1	1			23.61			1.5	24.20			19.23			0.0	19.75
60 MHz	DFS-s OFDM	PI/2 BPSK	1	1			25.02			0.0	25.70			19.37			0.0	19.75
			1	1			25.25			0.0	25.70			19.43			0.0	19.75
			1	81			25.10			0.0	25.70			19.36			0.0	19.75
			1	160			25.26			0.0	25.70			19.16			0.0	19.75
			81	0			24.15			1.0	24.70			19.39			0.0	19.75
			81	40			25.15			0.0	25.70			19.29			0.0	19.75
			81	81			24.07			1.0	24.70			19.42			0.0	19.75
			162	0			24.16			1.0	24.70			19.33			0.0	19.75
		QPSK	1	1			24.20			1.0	24.70			19.27			0.0	19.75
			1	1			22.56			2.5	23.20			19.22			0.0	19.75
			1	1			20.55			4.5	21.20			19.28			0.0	19.75
			1	1			23.77			1.5	24.20			19.20			0.0	19.75
50 MHz	DFS-s OFDM	PI/2 BPSK	1	1			25.05			0.0	25.70			19.19			0.0	19.75
			1	1			25.07			0.0	25.70			19.26			0.0	19.75
			1	67			25.22			0.0	25.70			19.35			0.0	19.75
			1	131			25.17			0.0	25.70			19.41			0.0	19.75
			64	0			24.27			1.0	24.70			19.45			0.0	19.75
			64	35			25.17			0.0	25.70			19.34			0.0	19.75
			64	69			24.12			1.0	24.70			19.27			0.0	19.75
			128	0			24.26			1.0	24.70			19.20			0.0	19.75
		QPSK	1	1			24.04			1.0	24.70			19.23			0.0	19.75
			1	1			22.64			2.5	23.20			19.45			0.0	19.75
			1	1			20.53			4.5	21.20			19.20			0.0	19.75
			1	1			23.76			1.5	24.20			19.41			0.0	19.75

NR Band 77 Measured Results (ANT7) (continued)

Power Mode A (dBm)																			Power Mode B (dBm)									
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	648000 3720 MHz	652000 3780 MHz	656000 3840 MHz	660000 3900 MHz	664000 3960 MHz	MFR	Tune-up Limit	648000 3720 MHz	652000 3780 MHz	656000 3840 MHz	660000 3900 MHz	664000 3960 MHz	MFR	Tune-up Limit										
40 MHz	DFS-s OFDM	PI/2 BPSK	1	1	25.20	25.15	25.10	25.29	25.21	0.0	25.70	19.15	19.30	19.27	19.44	19.40	0.0	19.75										
			1	1	25.06	25.10	25.13	25.28	25.01	0.0	25.70	19.31	19.22	19.42	19.20	19.23	0.0	19.75										
		QPSK	1	53	25.11	25.11	25.19	25.27	25.17	0.0	25.70	19.25	19.29	19.44	19.32	19.40	0.0	19.75										
			1	104	25.15	25.19	25.11	25.07	25.06	0.0	25.70	19.17	19.35	19.21	19.39	19.26	0.0	19.75										
			50	0	24.26	24.21	24.01	24.14	24.01	1.0	24.70	19.39	19.24	19.35	19.19	19.35	0.0	19.75										
			50	28	25.06	25.09	25.10	25.22	25.06	0.0	25.70	19.22	19.31	19.38	19.20	19.44	0.0	19.75										
			50	56	24.12	24.27	24.14	24.05	24.19	1.0	24.70	19.25	19.25	19.19	19.45	19.33	0.0	19.75										
			100	0	24.23	24.16	24.13	24.27	24.27	1.0	24.70	19.39	19.39	19.42	19.38	19.31	0.0	19.75										
			16QAM	1	1	24.19	24.27	24.27	24.28	24.20	1.0	24.70	19.37	19.17	19.37	19.22	19.27	0.0	19.75									
			64QAM	1	1	22.58	22.76	22.62	22.54	22.72	2.5	23.20	19.27	19.34	19.28	19.31	19.19	0.0	19.75									
			256QAM	1	1	20.63	20.59	20.51	20.76	20.52	4.5	21.20	19.33	19.31	19.22	19.24	19.20	0.0	19.75									
	CP-OFDM	QPSK	1	1	23.74	23.60	23.52	23.78	23.52	1.5	24.20	19.23	19.43	19.23	19.26	19.19	0.0	19.75										
20 MHz	DFS-s OFDM	PI/2 BPSK	1	1	25.12	25.27	25.01	25.01	25.00	0.0	25.70	19.36	19.21	19.33	19.32	19.32	0.0	19.75										
			1	1	25.16	25.08	25.03	25.08	25.17	0.0	25.70	19.26	19.43	19.20	19.38	19.40	0.0	19.75										
		QPSK	1	26	25.24	25.28	25.01	25.20	25.10	0.0	25.70	19.34	19.37	19.17	19.20	19.32	0.0	19.75										
			1	49	25.19	25.26	25.13	25.11	25.09	0.0	25.70	19.28	19.43	19.30	19.25	19.30	0.0	19.75										
			25	0	24.27	24.29	24.22	24.09	24.13	1.0	24.70	19.31	19.18	19.33	19.36	19.16	0.0	19.75										
			25	13	25.17	25.28	25.23	25.11	25.19	0.0	25.70	19.19	19.41	19.38	19.30	19.26	0.0	19.75										
			25	26	24.27	24.02	24.01	24.13	24.06	1.0	24.70	19.24	19.33	19.22	19.28	19.40	0.0	19.75										
			50	0	24.10	24.01	24.02	24.14	24.23	1.0	24.70	19.36	19.27	19.17	19.40	19.27	0.0	19.75										
			16QAM	1	1	24.29	24.07	24.04	24.18	24.29	1.0	24.70	19.25	19.40	19.39	19.38	19.29	0.0	19.75									
			64QAM	1	1	22.60	22.69	22.76	22.75	22.68	2.5	23.20	19.21	19.41	19.30	19.18	19.29	0.0	19.75									
			256QAM	1	1	20.69	20.77	20.74	20.79	20.58	4.5	21.20	19.36	19.20	19.17	19.39	19.16	0.0	19.75									
	CP-OFDM	QPSK	1	1	23.61	23.57	23.73	23.54	23.73	1.5	24.20	19.35	19.18	19.28	19.21	19.23	0.0	19.75										

NR Band 77 Measured Results (ANT8)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					650000	653000	656000	659000	662000	MFR	Tune-up Limit	650000	653000	656000	659000	662000	MFR	Tune-up Limit
					3750 MHz	3795 MHz	3840 MHz	3885 MHz	3930 MHz			3750 MHz	3795 MHz	3840 MHz	3885 MHz	3930 MHz		
100 MHz	DFS-s OFDM	PI2 BPSK	1	1			17.78			0.0	18.00			18.29			0.0	18.50
			1	1			17.91			0.0	18.00			18.21			0.0	18.50
		QPSK	1	137			17.93			0.0	18.00			18.44			0.0	18.50
			1	271			17.99			0.0	18.00			18.29			0.0	18.50
			135	0			17.85			0.0	18.00			18.24			0.0	18.50
			135	69			17.93			0.0	18.00			18.30			0.0	18.50
			135	138			17.70			0.0	18.00			18.28			0.0	18.50
			270	0			17.79			0.0	18.00			18.37			0.0	18.50
			16QAM	1	1		17.92			0.0	18.00			18.29			0.0	18.50
			64QAM	1	1		17.91			0.0	18.00			18.27			0.0	18.50
			256QAM	1	1		17.89			0.0	18.00			18.29			0.0	18.50
		CP-OFDM	1	1			17.87			0.0	18.00			18.37			0.0	18.50
90 MHz	DFS-s OFDM	PI2 BPSK	1	1			17.93			0.0	18.00			18.44			0.0	18.50
			1	1			17.97			0.0	18.00			18.34			0.0	18.50
		QPSK	1	123			17.70			0.0	18.00			18.31			0.0	18.50
			1	243			17.92			0.0	18.00			18.43			0.0	18.50
			120	0			17.94			0.0	18.00			18.27			0.0	18.50
			120	63			17.95			0.0	18.00			18.43			0.0	18.50
			120	125			17.74			0.0	18.00			18.44			0.0	18.50
			243	0			17.84			0.0	18.00			18.32			0.0	18.50
			16QAM	1	1		17.86			0.0	18.00			18.23			0.0	18.50
			64QAM	1	1		17.90			0.0	18.00			18.39			0.0	18.50
			256QAM	1	1		17.95			0.0	18.00			18.42			0.0	18.50
		CP-OFDM	1	1			17.74			0.0	18.00			18.42			0.0	18.50
80 MHz	DFS-s OFDM	PI2 BPSK	1	1			17.74			0.0	18.00			18.29			0.0	18.50
			1	1			17.84			0.0	18.00			18.24			0.0	18.50
		QPSK	1	109			17.80			0.0	18.00			18.21			0.0	18.50
			1	215			17.82			0.0	18.00			18.32			0.0	18.50
			108	0			17.78			0.0	18.00			18.37			0.0	18.50
			108	55			17.79			0.0	18.00			18.25			0.0	18.50
			108	109			17.94			0.0	18.00			18.30			0.0	18.50
			216	0			17.71			0.0	18.00			18.35			0.0	18.50
			16QAM	1	1		17.76			0.0	18.00			18.45			0.0	18.50
			64QAM	1	1		17.77			0.0	18.00			18.46			0.0	18.50
			256QAM	1	1		17.98			0.0	18.00			18.30			0.0	18.50
		CP-OFDM	1	1			17.82			0.0	18.00			18.31			0.0	18.50
60 MHz	DFS-s OFDM	PI2 BPSK	1	1			17.92			0.0	18.00			18.29			0.0	18.50
			1	1			17.96			0.0	18.00			18.44			0.0	18.50
		QPSK	1	81			17.74			0.0	18.00			18.29			0.0	18.50
			1	160			17.99			0.0	18.00			18.40			0.0	18.50
			81	0			17.72			0.0	18.00			18.48			0.0	18.50
			81	40			17.92			0.0	18.00			18.33			0.0	18.50
			81	81			17.82			0.0	18.00			18.39			0.0	18.50
			162	0			17.72			0.0	18.00			18.25			0.0	18.50
			16QAM	1	1		17.89			0.0	18.00			18.36			0.0	18.50
			64QAM	1	1		17.98			0.0	18.00			18.35			0.0	18.50
			256QAM	1	1		17.84			0.0	18.00			18.28			0.0	18.50
		CP-OFDM	1	1			17.82			0.0	18.00			18.44			0.0	18.50
50 MHz	DFS-s OFDM	PI2 BPSK	1	1			17.80			0.0	18.00			18.47			0.0	18.50
			1	1			17.86			0.0	18.00			18.45			0.0	18.50
		QPSK	1	67			17.98			0.0	18.00			18.43			0.0	18.50
			1	131			17.91			0.0	18.00			18.44			0.0	18.50
			64	0			17.74			0.0	18.00			18.29			0.0	18.50
			64	35			17.82			0.0	18.00			18.36			0.0	18.50
			64	69			17.79			0.0	18.00			18.32			0.0	18.50
			128	0			17.78			0.0	18.00			18.20			0.0	18.50
			16QAM	1	1		17.79			0.0	18.00			18.45			0.0	18.50
			64QAM	1	1		17.89			0.0	18.00			18.26			0.0	18.50
			256QAM	1	1		17.96			0.0	18.00			18.35			0.0	18.50
		CP-OFDM	1	1			17.93			0.0	18.00			18.43			0.0	18.50

NR Band 77 Measured Results (ANT8) (continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					648000 3720 MHz	652000 3780 MHz	656000 3840 MHz	660000 3900 MHz	664000 3960 MHz	MFR	Tune-up Limit	648000 3720 MHz	652000 3780 MHz	656000 3840 MHz	660000 3900 MHz	664000 3960 MHz	MFR	Tune-up Limit
40 MHz	DFS-s OFDM	PI/2 BPSK	1	1	17.84	17.81	17.71	17.90	17.73	0.0	18.00	18.31	18.32	18.32	18.42	18.45	0.0	18.50
			1	1	17.85	17.80	17.73	17.74	17.90	0.0	18.00	18.45	18.32	18.22	18.27	18.22	0.0	18.50
		QPSK	1	53	17.84	17.95	17.79	17.72	17.79	0.0	18.00	18.38	18.29	18.27	18.30	18.25	0.0	18.50
			1	104	17.72	17.87	17.94	17.72	17.93	0.0	18.00	18.48	18.45	18.28	18.46	18.28	0.0	18.50
			50	0	17.86	17.92	17.82	17.89	17.89	0.0	18.00	18.23	18.46	18.27	18.31	18.42	0.0	18.50
			50	28	17.76	17.88	17.87	17.92	17.74	0.0	18.00	18.29	18.34	18.29	18.33	18.45	0.0	18.50
			50	56	17.86	17.89	17.90	17.87	17.82	0.0	18.00	18.28	18.30	18.25	18.47	18.24	0.0	18.50
			100	0	17.87	17.71	17.92	18.00	17.90	0.0	18.00	18.29	18.47	18.33	18.38	18.41	0.0	18.50
			16QAM	1	1	17.99	17.89	17.98	17.75	0.0	18.00	18.49	18.28	18.28	18.32	18.41	0.0	18.50
			64QAM	1	1	17.84	17.81	17.99	17.96	0.0	18.00	18.32	18.45	18.39	18.43	18.22	0.0	18.50
			256QAM	1	1	17.80	17.81	17.92	17.80	0.0	18.00	18.42	18.22	18.35	18.28	18.34	0.0	18.50
		CP-OFDM	QPSK	1	1	17.83	17.71	17.96	17.89	0.0	18.00	18.38	18.30	18.30	18.32	18.32	0.0	18.50
20 MHz	DFS-s OFDM	PI/2 BPSK	1	1	17.95	17.82	17.80	17.71	17.91	0.0	18.00	18.35	18.31	18.45	18.41	18.47	0.0	18.50
			1	1	17.76	17.98	17.78	17.88	17.79	0.0	18.00	18.38	18.45	18.48	18.39	18.26	0.0	18.50
		QPSK	1	26	17.95	17.90	17.93	17.96	17.72	0.0	18.00	18.46	18.32	18.47	18.31	18.43	0.0	18.50
			1	49	17.76	17.92	17.96	17.83	17.90	0.0	18.00	18.43	18.29	18.42	18.33	18.49	0.0	18.50
			25	0	17.88	17.76	17.76	17.94	17.76	0.0	18.00	18.47	18.38	18.20	18.43	18.47	0.0	18.50
			25	13	17.93	17.96	17.74	17.82	17.73	0.0	18.00	18.23	18.35	18.37	18.21	18.50	0.0	18.50
			25	26	17.98	17.96	17.85	17.78	17.93	0.0	18.00	18.25	18.23	18.29	18.46	18.41	0.0	18.50
			50	0	17.91	18.00	17.83	17.73	17.98	0.0	18.00	18.43	18.47	18.38	18.32	18.44	0.0	18.50
			16QAM	1	1	17.82	17.83	17.99	17.85	0.0	18.00	18.39	18.48	18.40	18.40	18.37	0.0	18.50
			64QAM	1	1	17.97	17.91	17.92	17.96	0.0	18.00	18.29	18.23	18.47	18.32	18.22	0.0	18.50
			256QAM	1	1	17.81	17.95	17.83	17.90	0.0	18.00	18.47	18.35	18.35	18.23	18.22	0.0	18.50
		CP-OFDM	QPSK	1	1	17.88	17.79	17.74	17.79	0.0	18.00	18.33	18.32	18.40	18.50	18.35	0.0	18.50

NR Band 77 Measured Results (ANT9)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					650000	653000	656000	659000	662000	MPR	Tune-up Limit	650000	653000	656000	659000	662000	MPR	Tune-up Limit
					3750 MHz	3795 MHz	3840 MHz	3885 MHz	3930 MHz			3750 MHz	3795 MHz	3840 MHz	3885 MHz	3930 MHz		
100 MHz	DFS-s OFDM	PI2 BPSK	1	1			25.51			0	25.70			20.21			0	20.75
			1	1			25.45			0	25.70			20.23			0	20.75
		QPSK	1	137			25.59			0	25.70			20.31			0	20.75
			1	271			25.40			0	25.70			20.05			0	20.75
			135	0			24.35			0.7	25.00			20.07			0	20.75
			135	69			25.49			0	25.70			20.11			0	20.75
			135	138			24.40			0.7	25.00			20.11			0	20.75
			270	0			24.56			0.7	25.00			20.31			0	20.75
		16QAM	1	1			24.39			1	24.70			20.16			0	20.75
		64QAM	1	1			22.86			2.5	23.20			20.20			0	20.75
		256QAM	1	1			20.90			4.5	21.20			20.07			0	20.75
		CP-OFDM	QPSK	1	1		24.07			1.5	24.20			20.25			0	20.75
90 MHz	DFS-s OFDM	PI2 BPSK	1	1			25.33			0	25.70			20.03			0	20.75
			1	1			25.23			0	25.70			20.22			0	20.75
		QPSK	1	123			25.43			0	25.70			20.23			0	20.75
			1	243			25.28			0	25.70			20.09			0	20.75
			120	0			24.33			0.7	25.00			19.99			0	20.75
			120	63			25.28			0	25.70			19.96			0	20.75
			120	125			24.25			0.7	25.00			20.24			0	20.75
			243	0			24.30			0.7	25.00			20.10			0	20.75
		16QAM	1	1			24.37			1	24.70			20.21			0	20.75
		64QAM	1	1			22.91			2.5	23.20			20.24			0	20.75
		256QAM	1	1			20.70			4.5	21.20			20.11			0	20.75
		CP-OFDM	QPSK	1	1		23.88			1.5	24.20			20.18			0	20.75
80 MHz	DFS-s OFDM	PI2 BPSK	1	1			25.38			0	25.70			20.00			0	20.75
			1	1			25.48			0	25.70			20.20			0	20.75
		QPSK	1	109			25.24			0	25.70			20.20			0	20.75
			1	215			25.27			0	25.70			20.08			0	20.75
			108	0			24.21			0.7	25.00			20.08			0	20.75
			108	55			25.21			0	25.70			19.97			0	20.75
			108	109			24.39			0.7	25.00			19.98			0	20.75
			216	0			24.20			0.7	25.00			20.09			0	20.75
		16QAM	1	1			24.33			1	24.70			20.05			0	20.75
		64QAM	1	1			22.90			2.5	23.20			19.95			0	20.75
		256QAM	1	1			20.98			4.5	21.20			20.03			0	20.75
		CP-OFDM	QPSK	1	1		23.82			1.5	24.20			20.03			0	20.75
60 MHz	DFS-s OFDM	PI2 BPSK	1	1			25.34			0	25.70			20.20			0	20.75
			1	1			25.46			0	25.70			20.03			0	20.75
		QPSK	1	81			25.31			0	25.70			20.08			0	20.75
			1	160			25.27			0	25.70			19.97			0	20.75
			81	0			24.44			0.7	25.00			20.10			0	20.75
			81	40			25.30			0	25.70			20.19			0	20.75
			81	81			24.34			0.7	25.00			20.11			0	20.75
			162	0			24.42			0.7	25.00			20.15			0	20.75
		16QAM	1	1			24.40			1	24.70			20.17			0	20.75
		64QAM	1	1			22.71			2.5	23.20			20.12			0	20.75
		256QAM	1	1			20.98			4.5	21.20			20.20			0	20.75
		CP-OFDM	QPSK	1	1		23.91			1.5	24.20			20.02			0	20.75
50 MHz	DFS-s OFDM	PI2 BPSK	1	1			25.50			0	25.70			20.05			0	20.75
			1	1			25.28			0	25.70			20.12			0	20.75
		QPSK	1	67			25.29			0	25.70			20.03			0	20.75
			1	131			25.31			0	25.70			20.20			0	20.75
			64	0			24.40			0.7	25.00			19.98			0	20.75
			64	35			25.23			0	25.70			20.24			0	20.75
			64	69			24.45			0.7	25.00			20.10			0	20.75
			128	0			24.25			0.7	25.00			20.16			0	20.75
		16QAM	1	1			24.48			1	24.70			20.01			0	20.75
		64QAM	1	1			22.82			2.5	23.20			20.10			0	20.75
		256QAM	1	1			20.75			4.5	21.20			20.23			0	20.75
		CP-OFDM	QPSK	1	1		23.99			1.5	24.20			19.99			0	20.75

NR Band 77 Measured Results (ANT9) (continued)

Table 1: Modulated Results (continued)																		
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					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	PI/2 BPSK	1	1	25.36	25.25	25.45	25.31	25.36	0	25.70	20.17	20.19	20.12	20.00	20.05	0	20.75
			1	1	25.26	25.28	25.48	25.36	25.50	0	25.70	20.21	20.12	20.15	20.16	20.18	0	20.75
		QPSK	1	53	25.41	25.23	25.28	25.49	25.48	0	25.70	20.14	20.01	20.17	20.21	20.14	0	20.75
			1	104	25.47	25.27	25.43	25.45	25.50	0	25.70	19.95	20.13	20.02	20.00	20.08	0	20.75
			50	0	24.28	24.25	24.46	24.40	24.44	0.7	25.00	20.01	20.08	20.05	20.09	20.24	0	20.75
			50	28	25.47	25.45	25.38	25.50	25.49	0	25.70	20.00	20.25	20.13	20.01	20.24	0	20.75
			50	56	24.27	24.28	24.44	24.21	24.37	0.7	25.00	20.05	20.21	20.23	20.13	20.09	0	20.75
			100	0	24.43	24.39	24.46	24.33	24.22	0.7	25.00	20.00	20.23	19.98	20.22	20.07	0	20.75
		16QAM	1	1	24.36	24.43	24.41	24.33	24.44	1	24.70	20.23	20.08	20.22	20.20	20.22	0	20.75
		64QAM	1	1	22.86	22.85	22.99	22.70	22.89	2.5	23.20	20.14	20.03	20.00	20.09	20.22	0	20.75
	256QAM	1	1	20.92	20.87	20.81	20.73	20.94	4.5	21.20	20.09	19.98	20.02	20.04	20.01	0	20.75	
	CP-OFDM	QPSK	1	1	23.73	23.75	23.73	23.80	23.84	1.5	24.20	20.01	20.10	20.16	20.02	20.07	0	20.75
BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					647334	651666	656000	660266	664666	MFR	Tune-up Limit	647334	651666	656000	660266	664666	MFR	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	PI/2 BPSK	1	1	25.37	25.45	25.32	25.37	25.41	0	25.70	20.19	20.07	20.02	20.08	20.24	0	20.75
			1	1	25.25	25.46	25.27	25.39	25.23	0	25.70	20.05	20.00	20.07	19.98	20.25	0	20.75
		QPSK	1	26	25.38	25.41	25.21	25.27	25.21	0	25.70	20.00	20.06	20.20	19.97	20.25	0	20.75
			1	49	25.34	25.45	25.29	25.23	25.27	0	25.70	20.21	20.03	20.04	20.22	20.24	0	20.75
			25	0	24.23	24.35	24.27	24.43	24.48	0.7	25.00	20.21	20.08	20.14	20.00	20.05	0	20.75
			25	13	25.25	25.38	25.44	25.29	25.48	0	25.70	20.18	20.18	20.20	20.11	19.97	0	20.75
			25	26	24.47	24.22	24.37	24.31	24.28	0.7	25.00	20.13	20.19	20.22	20.06	20.14	0	20.75
			50	0	24.48	24.43	24.41	24.28	24.45	0.7	25.00	20.23	20.12	20.23	20.15	20.13	0	20.75
		16QAM	1	1	24.30	24.40	24.41	24.27	24.44	1	24.70	20.12	20.03	20.19	20.01	20.07	0	20.75
		64QAM	1	1	22.84	22.82	22.94	22.71	22.99	2.5	23.20	20.12	20.00	20.03	20.23	20.17	0	20.75
	256QAM	1	1	20.76	20.85	21.00	20.96	20.92	4.5	21.20	20.12	20.20	19.97	20.14	20.01	0	20.75	
	CP-OFDM	QPSK	1	1	23.85	23.81	23.95	24.00	23.70	1.5	24.20	20.14	20.09	20.00	20.02	20.15	0	20.75

NR Band 77 Measured Results (ANT4)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
					650000	653000	656000	659000	662000	MFR	Tune-up Limit	650000	653000	656000	659000	662000	MFR	Tune-up Limit
					3750 MHz	3795 MHz	3840 MHz	3885 MHz	3930 MHz			3750 MHz	3795 MHz	3840 MHz	3885 MHz	3930 MHz		
100 MHz	DFS-s OFDM	PI2 BPSK	1	1			15.99			0.0	16.25			16.63			0.0	17.00
			1	1			16.01			0.0	16.25			16.73			0.0	17.00
		QPSK	1	137			16.10			0.0	16.25			16.83			0.0	17.00
			1	271			15.99			0.0	16.25			16.79			0.0	17.00
			135	0			16.07			0.0	16.25			16.73			0.0	17.00
			135	69			16.16			0.0	16.25			16.87			0.0	17.00
			135	138			16.12			0.0	16.25			16.85			0.0	17.00
			270	0			16.19			0.0	16.25			16.71			0.0	17.00
			16QAM	1	1		16.02			0.0	16.25			16.88			0.0	17.00
			64QAM	1	1		16.03			0.0	16.25			16.83			0.0	17.00
			256QAM	1	1		15.95			0.0	16.25			16.68			0.0	17.00
		CP-OFDM	QPSK	1	1		15.99			0.0	16.25			16.79			0.0	17.00
90 MHz	DFS-s OFDM	PI2 BPSK	1	1			15.96			0.0	16.25			16.77			0.0	17.00
			1	1			16.05			0.0	16.25			16.75			0.0	17.00
		QPSK	1	123			16.13			0.0	16.25			16.62			0.0	17.00
			1	243			16.15			0.0	16.25			16.69			0.0	17.00
			120	0			16.02			0.0	16.25			16.84			0.0	17.00
			120	63			15.91			0.0	16.25			16.68			0.0	17.00
			120	125			16.06			0.0	16.25			16.89			0.0	17.00
			243	0			16.16			0.0	16.25			16.63			0.0	17.00
			16QAM	1	1		16.01			0.0	16.25			16.69			0.0	17.00
			64QAM	1	1		16.12			0.0	16.25			16.87			0.0	17.00
			256QAM	1	1		16.19			0.0	16.25			16.83			0.0	17.00
		CP-OFDM	QPSK	1	1		16.16			0.0	16.25			16.80			0.0	17.00
80 MHz	DFS-s OFDM	PI2 BPSK	1	1			16.05			0.0	16.25			16.78			0.0	17.00
			1	1			15.93			0.0	16.25			16.70			0.0	17.00
		QPSK	1	109			15.94			0.0	16.25			16.86			0.0	17.00
			1	215			15.99			0.0	16.25			16.83			0.0	17.00
			108	0			16.19			0.0	16.25			16.77			0.0	17.00
			108	55			16.10			0.0	16.25			16.66			0.0	17.00
			108	109			16.16			0.0	16.25			16.85			0.0	17.00
			216	0			16.19			0.0	16.25			16.90			0.0	17.00
			16QAM	1	1		16.01			0.0	16.25			16.74			0.0	17.00
			64QAM	1	1		16.17			0.0	16.25			16.64			0.0	17.00
			256QAM	1	1		16.19			0.0	16.25			16.76			0.0	17.00
		CP-OFDM	QPSK	1	1		15.95			0.0	16.25			16.67			0.0	17.00
60 MHz	DFS-s OFDM	PI2 BPSK	1	1			15.97			0.0	16.25			16.70			0.0	17.00
			1	1			16.19			0.0	16.25			16.85			0.0	17.00
		QPSK	1	81			16.15			0.0	16.25			16.62			0.0	17.00
			1	160			16.15			0.0	16.25			16.67			0.0	17.00
			81	0			16.08			0.0	16.25			16.79			0.0	17.00
			81	40			16.06			0.0	16.25			16.62			0.0	17.00
			81	81			16.18			0.0	16.25			16.82			0.0	17.00
			162	0			15.93			0.0	16.25			16.69			0.0	17.00
			16QAM	1	1		15.94			0.0	16.25			16.87			0.0	17.00
			64QAM	1	1		15.92			0.0	16.25			16.77			0.0	17.00
			256QAM	1	1		16.17			0.0	16.25			16.66			0.0	17.00
		CP-OFDM	QPSK	1	1		15.91			0.0	16.25			16.63			0.0	17.00
50 MHz	DFS-s OFDM	PI2 BPSK	1	1			16.09			0.0	16.25			16.62			0.0	17.00
			1	1			15.95			0.0	16.25			16.89			0.0	17.00
		QPSK	1	67			16.03			0.0	16.25			16.75			0.0	17.00
			1	131			16.04			0.0	16.25			16.72			0.0	17.00
			64	0			16.12			0.0	16.25			16.84			0.0	17.00
			64	35			16.13			0.0	16.25			16.68			0.0	17.00
			64	69			16.20			0.0	16.25			16.71			0.0	17.00
			128	0			15.94			0.0	16.25			16.89			0.0	17.00
			16QAM	1	1		16.00			0.0	16.25			16.83			0.0	17.00
			64QAM	1	1		15.98			0.0	16.25			16.87			0.0	17.00
			256QAM	1	1		15.98			0.0	16.25			16.80			0.0	17.00
		CP-OFDM	QPSK	1	1		15.99			0.0	16.25			16.87			0.0	17.00

NR Band 77 Measured Results (ANT4) (continued)

BW (MHz)	Modulation	Mode	RB Allocation	RB offset	Power Mode A (dBm)								Power Mode B (dBm)							
					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	PI/2 BPSK	1	1	15.94	16.16	16.16	16.00	16.04	0.0	16.25	16.85	16.74	16.85	16.84	16.88	0.0	17.00		
			1	1	15.92	16.15	16.10	16.03	16.07	0.0	16.25	16.82	16.88	16.71	16.83	16.84	0.0	17.00		
		QPSK	1	53	16.02	16.16	15.93	16.01	15.91	0.0	16.25	16.65	16.87	16.87	16.67	16.68	0.0	17.00		
			1	104	16.05	16.05	16.06	16.20	15.91	0.0	16.25	16.64	16.76	16.85	16.87	16.90	0.0	17.00		
			50	0	15.91	15.96	16.14	15.90	15.93	0.0	16.25	16.62	16.74	16.61	16.67	16.66	0.0	17.00		
			50	28	16.00	16.00	15.96	16.16	15.94	0.0	16.25	16.75	16.71	16.65	16.84	16.73	0.0	17.00		
			50	56	15.94	15.97	16.10	16.08	16.05	0.0	16.25	16.88	16.83	16.75	16.69	16.83	0.0	17.00		
			100	0	15.91	16.08	16.10	16.01	15.92	0.0	16.25	16.87	16.88	16.85	16.69	16.63	0.0	17.00		
		16QAM	1	1	15.97	15.98	15.95	16.16	16.17	0.0	16.25	16.63	16.74	16.63	16.63	16.69	0.0	17.00		
		64QAM	1	1	16.10	15.95	15.96	16.00	16.08	0.0	16.25	16.79	16.66	16.78	16.80	16.84	0.0	17.00		
	256QAM	1	1	16.12	15.92	15.95	16.18	16.00	0.0	16.25	16.82	16.78	16.66	16.70	16.90	0.0	17.00			
	CP-OFDM	QPSK	1	1	16.00	16.09	16.11	16.12	16.14	0.0	16.25	16.78	16.82	16.66	16.85	16.87	0.0	17.00		
20 MHz	DFS-s OFDM	PI/2 BPSK	1	1	16.19	16.05	16.03	15.96	15.93	0.0	16.25	16.65	16.77	16.68	16.67	16.61	0.0	17.00		
			1	1	15.99	16.14	15.98	16.02	15.99	0.0	16.25	16.73	16.68	16.80	16.85	16.74	0.0	17.00		
		QPSK	1	26	16.07	15.90	15.99	16.12	16.11	0.0	16.25	16.82	16.73	16.69	16.61	16.66	0.0	17.00		
			1	49	15.97	15.94	16.10	16.06	16.16	0.0	16.25	16.83	16.77	16.67	16.90	16.82	0.0	17.00		
			25	0	16.12	16.16	16.17	16.00	16.01	0.0	16.25	16.81	16.78	16.75	16.77	16.75	0.0	17.00		
			25	13	16.13	15.95	16.10	16.07	16.01	0.0	16.25	16.72	16.63	16.76	16.77	16.61	0.0	17.00		
			25	26	16.00	16.12	15.94	16.07	16.05	0.0	16.25	16.77	16.79	16.67	16.84	16.83	0.0	17.00		
			50	0	15.97	16.16	15.94	16.18	15.98	0.0	16.25	16.78	16.75	16.70	16.73	16.80	0.0	17.00		
		16QAM	1	1	16.12	16.06	16.13	16.13	15.90	0.0	16.25	16.87	16.87	16.64	16.68	16.77	0.0	17.00		
		64QAM	1	1	16.06	16.01	16.11	15.99	16.06	0.0	16.25	16.70	16.86	16.77	16.88	16.63	0.0	17.00		
	256QAM	1	1	16.11	16.01	16.08	15.96	16.12	0.0	16.25	16.81	16.78	16.88	16.72	16.79	0.0	17.00			
	CP-OFDM	QPSK	1	1	16.11	15.97	15.95	15.96	16.01	0.0	16.25	16.76	16.81	16.60	16.75	16.66	0.0	17.00		

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	22.00	17.50	17.50	16.00	16.00	16.00	16.00	16.50	15.00	15.00	15.00	15.00	
2	2417	22.00	19.50	19.50	18.00	18.00	18.00	18.00	18.50	17.00	17.00	17.00	17.00	
3	2422	22.00	21.50	21.50	21.50	21.50	21.50	21.50	20.00	19.00	19.00	19.00	19.00	
4	2427	22.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	20.00	
5	2432	22.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	20.00	
6	2437	22.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	20.00	
7	2442	22.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	20.00	
8	2447	22.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	21.50	20.00	
9	2452	22.00	21.00	21.00	21.50	21.50	21.50	21.50	19.50	18.50	18.50	18.50	18.50	
10	2457	22.00	19.50	19.50	18.00	18.00	18.00	18.00	18.50	17.00	17.00	17.00	17.00	
11	2462	22.00	17.50	17.50	16.00	16.00	16.00	16.00	16.50	15.00	15.00	15.00	15.00	
12	2467	22.00	15.50	15.50	14.00	14.00	14.00	14.00	14.00	13.00	13.00	13.00	13.00	
13	2472	21.00	15.50	15.50	10.00	6.00	3.00	1.00	14.00	8.50	4.00	1.00	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	21.00	17.50	17.50	16.00	16.00	16.00	16.00	16.50	15.00	15.00	15.00	15.00	
2	2417	21.00	19.50	19.50	18.00	18.00	18.00	18.00	18.50	17.00	17.00	17.00	17.00	
3	2422	21.00	21.00	21.00	21.00	21.00	21.00	21.00	20.00	19.00	19.00	19.00	19.00	
4	2427	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	20.00	
5	2432	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	20.00	
6	2437	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	20.00	
7	2442	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	20.00	
8	2447	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	20.00	
9	2452	21.00	21.00	21.00	21.00	21.00	21.00	21.00	19.50	18.50	18.50	18.50	18.50	
10	2457	21.00	19.50	19.50	18.00	18.00	18.00	18.00	18.50	17.00	17.00	17.00	17.00	
11	2462	21.00	17.50	17.50	16.00	16.00	16.00	16.00	16.50	15.00	15.00	15.00	15.00	
12	2467	21.00	15.50	15.50	14.00	14.00	14.00	14.00	14.00	13.00	13.00	13.00	13.00	
13	2472	21.00	15.50	15.50	10.00	6.00	3.00	1.00	14.00	8.50	4.00	1.00	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	22.00	20.25	19.50	21.00	19.00	17.25	14.75	17.75
	2	2417	22.00	20.25	19.50	21.00	19.00	17.25	14.75	17.75
	3	2422	22.00	20.25	19.50	21.00	19.00	17.25	14.75	17.75
	4	2427	22.50	20.25	19.50	21.00	19.00	17.25	14.75	17.75
	5	2432	22.50	20.25	19.50	21.00	19.00	17.25	14.75	17.75
	6	2437	22.50	20.25	19.50	21.00	19.00	17.25	14.75	17.75
	7	2442	22.50	20.25	19.50	21.00	19.00	17.25	14.75	17.75
	8	2447	22.50	20.25	19.50	21.00	19.00	17.25	14.75	17.75
	9	2452	22.00	20.25	19.50	21.00	19.00	17.25	14.75	17.75
	10	2457	22.00	20.25	19.50	21.00	19.00	17.25	14.75	17.75
	11	2462	22.00	20.25	19.50	21.00	19.00	17.25	14.75	17.75
	12	2467	22.00	20.25	19.50	21.00	19.00	17.25	14.75	17.75
	13	2472	21.00	20.25	19.50	21.00	19.00	17.25	14.75	17.75

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	4	2427	22.50	22.50	Yes	1	2412	20.25	20.25	Yes
			6	2437	22.50	22.50		6	2437	20.25	20.25	
			8	2447	22.50	22.50		11	2462	20.25	20.25	
	ANT4	DSSS 802.11b	1	2412	19.50	19.50	Yes	1	2412	21.00	21.00	Yes
			6	2437	19.50	19.50		6	2437	21.00	21.00	
			11	2462	19.50	19.50		11	2462	21.00	21.00	
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	19.00	19.00	Yes	1	2412	17.25	17.25	Yes
			6	2437	19.00	19.00		6	2437	17.25	17.25	
			11	2462	19.00	19.00		11	2462	17.25	17.25	
	ANT4	DSSS 802.11b	1	2412	14.75	14.75	Yes	1	2412	17.75	17.75	Yes
			6	2437	14.75	14.75		6	2437	17.75	17.75	
			11	2462	14.75	14.75		11	2462	17.75	17.75	

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		21.00	21.00	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
	80 MHz	42	5210		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-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		21.00	21.00	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		62	5310		17.50	16.00	16.00	15.00	12.00	16.50	15.50	15.00	12.00	9.00
	80 MHz	58	5290		16.50	16.00	16.00	15.00	12.00	16.00	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	15.50	15.50	15.00	12.00	9.00
		110	5550		21.00	21.00	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		118	5590		21.00	21.00	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		126	5630		21.00	21.00	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
	80 MHz	134	5670		19.00	19.00	18.00	15.00	12.00	18.50	18.50	15.00	12.00	9.00
		142	5710		21.00	21.00	18.00	15.00	12.00	20.00	20.00	15.00	12.00	9.00
		106	5530		16.50	14.00	15.00	15.00	12.00	15.50	13.00	14.00	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	21.50	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		21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00
		159	5795		21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00
	80 MHz	155	5775		20.50	20.50	20.50	20.50	20.50	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	19.75	19.75	19.75	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		44	5220	19.75	19.75	19.75	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		48	5240	19.75	19.75	19.75	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		19.75	19.75	18.00	15.00	12.00	19.75	19.75	15.00	12.00	9.00
	80 MHz	42	5210		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-2A	20 MHz	52	5260	19.00	19.00	19.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		56	5280	19.00	19.00	19.00	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		60	5300	19.00	19.00	19.00	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		19.00	19.00	18.00	15.00	12.00	19.00	19.00	15.00	12.00	9.00
		62	5310		17.50	16.00	16.00	15.00	12.00	16.50	15.50	15.00	12.00	9.00
	80 MHz	58	5290		16.50	16.00	16.00	15.00	12.00	16.00	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	18.50	18.50	18.00	18.00	15.00	12.00	18.00	17.00	15.00	12.00	9.00
		104	5520	18.50	18.50	18.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		108	5540	18.50	18.50	18.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		112	5560	18.50	18.50	18.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		116	5580	18.50	18.50	18.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		120	5600	18.50	18.50	18.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		124	5620	18.50	18.50	18.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		128	5640	18.50	18.50	18.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		132	5660	18.50	18.50	18.50	18.00	15.00	12.00	18.00	18.00	15.00	12.00	9.00
		136	5680	18.50	18.50	18.50	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	18.50	18.50	18.50	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	15.50	15.50	15.00	12.00	9.00
		110	5550		18.50	18.50	18.00	15.00	12.00	18.50	18.50	15.00	12.00	9.00
		118	5590		18.50	18.50	18.00	15.00	12.00	18.50	18.50	15.00	12.00	9.00
	80 MHz	126	5630		18.50	18.50	18.00	15.00	12.00	18.50	18.50	15.00	12.00	9.00
		134	5670		18.50	18.50	18.00	15.00	12.00	18.50	18.50	15.00	12.00	9.00
		142	5710		18.50	18.50	18.00	15.00	12.00	18.50	18.50	15.00	12.00	9.00
		106	5530		16.50	14.00	15.00	15.00	12.00	15.50	13.00	14.00	12.00	9.00
		122	5610		18.50	18.50	18.00	15.00	12.00	18.50	18.50	15.00	12.00	9.00
		138	5690		18.50	18.50	18.00	15.00	12.00	18.50	18.50	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-3	20 MHz	149	5745	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00
		153	5765	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00
		157	5785	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00
		161	5805	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00
		165	5825	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00
	40 MHz	151	5755		18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00
		159	5795		18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00
	80 MHz	155	5775		18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00

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	17.75	19.00	19.00	19.00	14.00	13.00	15.75
		40	5200	21.00	17.75	19.50	19.75	21.00	14.00	13.00	15.75
		44	5220	21.00	17.75	19.50	19.75	21.00	14.00	13.00	15.75
		48	5240	21.00	17.75	19.50	19.75	21.00	14.00	13.00	15.75
	802.11n/ac 40 MHz	38	5190	16.50	16.50	16.50	16.50	16.50	14.00	13.00	15.75
		46	5230	21.00	17.75	19.50	19.75	21.00	14.00	13.00	15.75
	802.11ac 80 MHz	42	5210	16.00	16.00	16.00	16.00	16.00	14.00	13.00	15.75
U-NII-2A 5.3 GHz (SISO)	802.11a/n/ac 20 MHz	52	5260	21.00	17.50	19.00	18.75	21.00	13.50	12.75	14.75
		56	5280	21.00	17.50	19.00	18.75	21.00	13.50	12.75	14.75
		60	5300	21.00	17.50	19.00	18.75	21.00	13.50	12.75	14.75
		64	5320	19.00	17.50	19.00	18.75	19.00	13.50	12.75	14.75
	802.11n/ac 40 MHz	54	5270	21.00	17.50	19.00	18.75	21.00	13.50	12.75	14.75
		62	5310	17.50	17.50	17.50	17.50	17.50	13.50	12.75	14.75
	802.11ac 80 MHz	58	5290	16.50	16.50	16.50	16.50	16.50	13.50	12.75	14.75
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	18.00	18.50	18.00	19.00	14.00	12.50	14.00
		104	5520	21.00	18.00	18.50	18.00	21.00	14.00	12.50	14.00
		108	5540	21.00	18.00	18.50	18.00	21.00	14.00	12.50	14.00
		112	5560	21.00	18.00	18.50	18.00	21.00	14.00	12.50	14.00
		116	5580	21.00	18.00	18.50	18.00	21.00	14.00	12.50	14.00
		120	5600	21.00	18.00	18.50	18.00	21.00	14.00	12.50	14.00
		124	5620	21.00	18.00	18.50	18.00	21.00	14.00	12.50	14.00
		128	5640	21.00	18.00	18.50	18.00	21.00	14.00	12.50	14.00
		132	5660	21.00	18.00	18.50	18.00	21.00	14.00	12.50	14.00
		136	5680	21.00	18.00	18.50	18.00	21.00	14.00	12.50	14.00
	802.11n/ac 40 MHz	140	5700	17.00	17.00	17.00	17.00	17.00	14.00	12.50	14.00
		144	5720	21.00	18.00	18.50	18.00	21.00	14.00	12.50	14.00
		102	5510	16.00	16.00	16.00	16.00	16.00	14.00	12.50	14.00
		110	5550	21.00	18.00	18.50	18.00	21.00	14.00	12.50	14.00
	802.11ac 80 MHz	118	5590	21.00	18.00	18.50	18.00	21.00	14.00	12.50	14.00
		126	5630	21.00	18.00	18.50	18.00	21.00	14.00	12.50	14.00
		134	5670	19.00	18.00	18.50	18.00	19.00	14.00	12.50	14.00
		142	5710	21.00	18.00	18.50	18.00	21.00	14.00	12.50	14.00
U-NII-3 5.8 GHz (SISO)	802.11a/n/ac 20 MHz	106	5530	16.50	16.50	16.50	16.50	16.50	14.00	12.50	14.00
		122	5610	20.50	18.00	18.50	18.00	20.50	14.00	12.50	14.00
		138	5690	20.50	18.00	18.50	18.00	20.50	14.00	12.50	14.00
	802.11ac 80 MHz	149	5745	21.50	17.00	18.00	18.00	21.50	13.25	12.00	14.25
		153	5765	21.50	17.00	18.00	18.00	21.50	13.25	12.00	14.25
		157	5785	21.50	17.00	18.00	18.00	21.50	13.25	12.00	14.25
		161	5805	21.50	17.00	18.00	18.00	21.50	13.25	12.00	14.25
		165	5825	21.50	17.00	18.00	18.00	21.50	13.25	12.00	14.25
	802.11n/ac 40 MHz	151	5755	21.00	17.00	18.00	18.00	21.00	13.25	12.00	14.25
		159	5795	21.00	17.00	18.00	18.00	21.00	13.25	12.00	14.25
	802.11ac 80 MHz	155	5775	20.50	17.00	18.00	18.00	20.50	13.25	12.00	14.25

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	21.00	21.00	Yes	U-NII-1	802.11n HT40	38	5190	16.50	16.50	Yes
				62	5310	17.50	17.50				46	5230	17.75	17.75	
		U-NII-2C	802.11n HT40	110	5550	21.00	21.00	Yes	U-NII-2C	802.11ac VHT80	106	5530	16.50	16.50	Yes
				126	5630	21.00	21.00				122	5610	18.00	18.00	
				142	5710	21.00	21.00				138	5690	18.00	18.00	
		U-NII-3	802.11a	149	5745	21.50	21.50	Yes	U-NII-3	802.11ac VHT80	155	5775	17.00	17.00	Yes
				157	5785	21.50	21.50								
	ANT6	U-NII-1	802.11n HT40	38	5190	16.50	16.50	Yes	U-NII-1	802.11n HT40	38	5190	16.50	16.50	Yes
				46	5230	19.50	19.50				46	5230	19.75	19.75	
		U-NII-2C	802.11ac VHT80	106	5530	16.50	16.50	Yes	U-NII-2C	802.11ac VHT80	106	5530	16.50	16.50	Yes
				122	5610	18.50	18.50				122	5610	18.00	18.00	
				138	5690	18.50	18.50				138	5690	18.00	18.00	
		U-NII-3	802.11ac VHT80	155	5775	18.00	18.00	Yes	U-NII-3	802.11ac VHT80	155	5775	18.00	18.00	Yes
Pcell ON	ANT5	U-NII-2A	802.11n HT40	54	5270	21.00	21.00	Yes	U-NII-1	802.11ac VHT80	42	5120	14.00	14.00	Yes
				62	5310	17.50	17.50								
		U-NII-2C	802.11n HT40	110	5550	21.00	21.00	Yes	U-NII-2C	802.11ac VHT80	106	5530	14.00	14.00	Yes
				126	5630	21.00	21.00				122	5610	14.00	14.00	
				142	5710	21.00	21.00				138	5690	14.00	14.00	
		U-NII-3	802.11a	149	5745	21.50	21.50	Yes	U-NII-3	802.11ac VHT80	155	5775	13.25	13.25	Yes
				157	5785	21.50	21.50								
	ANT6	U-NII-1	802.11ac VHT80	42	5210	13.00	13.00	Yes	U-NII-1	802.11ac VHT80	42	5210	15.75	15.75	Yes
		U-NII-2C	802.11ac VHT80	106	5530	12.50	12.50	Yes	U-NII-2C	802.11ac VHT80	106	5530	14.00	14.00	Yes
				122	5610	12.50	12.50				122	5610	14.00	14.00	
				138	5690	12.50	12.50				138	5690	14.00	14.00	
		U-NII-3	802.11ac VHT80	155	5775	12.00	12.00	Yes	U-NII-3	802.11ac VHT80	155	5775	14.25	14.25	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	12.0	9.5	9.0	9.5	17.0	14.0	14.0	15.0	20.0	20.0	19.5	20.0
EDR	12.0	9.5	9.0	9.5	16.0	14.0	14.0	15.0	16.0	16.0	16.0	16.0
LE	12.0	9.5	9.0	9.5	17.0	14.0	14.0	15.0	20.0	20.0	19.5	20.0
HDR	12.0	9.5	9.0	9.5	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}	ANT 3	GFSK	0	2402	12.00	12.00	Yes	9.50	9.50	Yes
			39	2441	12.00	12.00		9.50	9.50	
			78	2480	12.00	12.00		9.50	9.50	
	ANT 4	GFSK	0	2402	9.00	9.00	Yes	9.50	9.50	Yes
			39	2441	9.00	9.00		9.50	9.50	
			78	2480	9.00	9.00		9.50	9.50	
Bluetooth P_{high}	ANT 3	GFSK	0	2402	17.00	17.00	Yes	14.00	14.00	Yes
			39	2441	17.00	17.00		14.00	14.00	
			78	2480	17.00	17.00		14.00	14.00	
	ANT 4	GFSK	0	2402	14.00	14.00	Yes	15.00	15.00	Yes
			39	2441	14.00	14.00		15.00	15.00	
			78	2480	14.00	14.00		15.00	15.00	
Bluetooth $P_{\text{standalone}}$	ANT 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	
	ANT 4	GFSK	0	2402	19.50	19.50	Yes	20.00	20.00	Yes
			39	2441	19.50	19.50		20.00	20.00	
			78	2480	19.50	19.50		20.00	20.00	

Duty Factor Measured Results

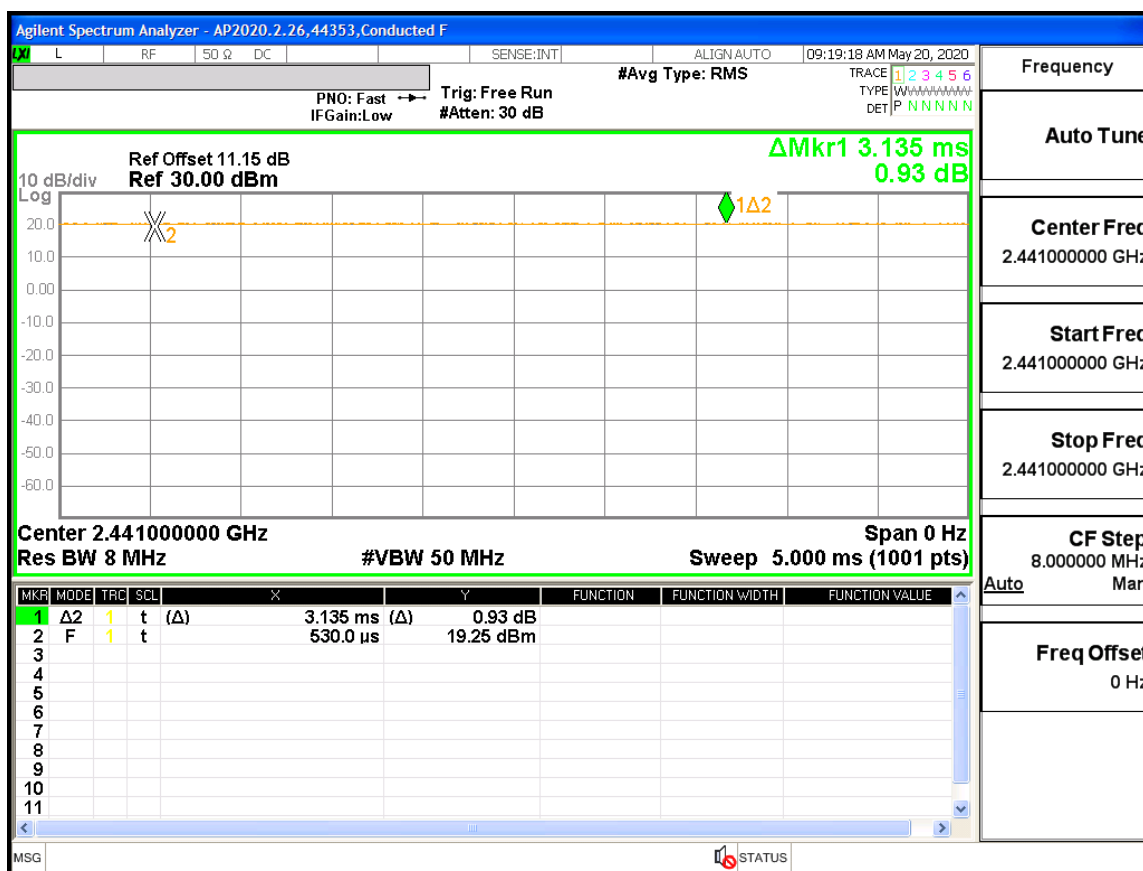
Mode	Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
GFSK	DH5	1	1	100.00%	1.00

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	31.71	0.260	0.312	0.213	0.255	1
					Left Tilt	190	836.6	32.50	31.71	0.201	0.241	0.167	0.200	
					Right Touch	190	836.6	32.50	31.71	0.330	0.396	0.241	0.289	
					Right Tilt	190	836.6	32.50	31.71	0.208	0.249	0.172	0.206	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	190	836.6	31.50	31.25	0.667	0.707	0.408	0.432	2
					Front	190	836.6	31.50	31.25	0.391	0.414	0.256	0.271	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	190	836.6	31.50	31.25	0.747	0.791	0.513	0.543	3
					Edge 3	190	836.6	31.50	31.25	0.438	0.464	0.224	0.237	
ANT2	Head	GPRS 2 Slots	Mode A	0	Edge 4	190	836.6	31.50	31.25	0.283	0.300	0.200	0.212	
					Left Touch	190	836.6	31.00	30.11	0.493	0.605	0.381	0.468	
					Left Tilt	190	836.6	31.00	30.11	0.437	0.536	0.270	0.331	
					Right Touch	190	836.6	31.00	30.11	0.597	0.733	0.438	0.538	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Right Tilt	190	836.6	31.00	30.11	0.495	0.608	0.316	0.388	
					Rear	190	836.6	31.00	30.11	0.347	0.426	0.236	0.290	
	Hotspot	GPRS 2 Slots	Mode B	5	Front	190	836.6	31.00	30.11	0.251	0.308	0.188	0.231	
					Edge 1	190	836.6	31.00	30.11	0.158	0.194	0.097	0.119	
					Edge 2	190	836.6	31.00	30.11	0.151	0.185	0.114	0.140	
					Edge 4	190	836.6	31.00	30.11	0.247	0.303	0.178	0.218	

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	30.83	0.157	0.163	0.102	0.106	6
					Left Tilt	661	1880.0	31.00	30.83	0.114	0.119	0.064	0.067	
					Right Touch	661	1880.0	31.00	30.83	0.332	0.345	0.204	0.212	
					Right Tilt	661	1880.0	31.00	30.83	0.078	0.081	0.048	0.050	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	661	1880.0	23.75	23.06	0.673	0.789	0.326	0.382	7
					Front	661	1880.0	23.75	23.06	0.519	0.608	0.233	0.273	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	661	1880.0	23.75	23.06	0.163	0.191	0.090	0.105	8
					Edge 3	512	1850.2	23.75	23.36	0.693	0.758	0.307	0.336	
						661	1880.0	23.75	23.36	0.836	0.915	0.370	0.405	
					Edge 4	661	1880.0	23.75	23.06	0.023	0.027	0.012	0.013	
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	27.75	27.25	0.436	0.489	0.191	0.214	9
					Left Tilt	661	1880.0	27.75	27.25	0.520	0.583	0.230	0.258	
					Right Touch	661	1880.0	27.75	27.25	0.499	0.560	0.262	0.294	
					Right Tilt	512	1850.2	27.75	27.25	0.792	0.889	0.368	0.413	
						661	1880.0	27.75	27.25	0.820	0.920	0.381	0.427	
						810	1909.8	27.75	27.25	0.828	0.929	0.386	0.433	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	661	1880.0	25.50	25.00	0.576	0.646	0.223	0.250	10
					Front	661	1880.0	25.50	25.00	0.325	0.365	0.158	0.177	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	512	1850.2	25.50	25.00	0.821	0.921	0.333	0.374	11
						661	1880.0	25.50	25.00	0.775	0.870	0.312	0.350	
						810	1909.8	25.50	25.25	0.906	0.960	0.365	0.387	
					Edge 2	661	1880.0	25.50	25.00	0.005	0.006	0.003	0.003	
					Edge 4	661	1880.0	25.50	25.00	0.152	0.171	0.082	0.092	
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	29.43	0.424	0.483	0.268	0.306	12
					Left Tilt	661	1880.0	30.00	29.43	0.221	0.252	0.127	0.145	
					Right Touch	661	1880.0	30.00	29.43	0.194	0.221	0.132	0.151	
					Right Tilt	661	1880.0	30.00	29.43	0.145	0.165	0.089	0.101	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	27.50	27.00	0.703	0.789	0.397	0.445	13
						661	1880.0	27.50	27.00	0.814	0.913	0.453	0.508	
						810	1909.8	27.50	27.00	0.796	0.893	0.440	0.494	
					Front	661	1880.0	27.50	27.00	0.603	0.677	0.352	0.395	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 3	661	1880.0	27.50	27.00	0.166	0.186	0.076	0.085	
					Edge 4	512	1850.2	27.50	27.00	0.741	0.831	0.391	0.439	
						661	1880.0	27.50	27.00	0.856	0.960	0.448	0.503	
						810	1909.8	27.50	27.00	0.814	0.913	0.424	0.476	
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	26.75	26.50	0.908	0.962	0.455	0.482	14
						661	1880.0	26.75	26.22	0.839	0.948	0.428	0.484	
						810	1909.8	26.75	26.04	0.800	0.942	0.407	0.479	
					Left Tilt	661	1880.0	26.75	26.22	0.405	0.458	0.198	0.224	
					Right Touch	661	1880.0	26.75	26.22	0.175	0.198	0.106	0.120	
					Right Tilt	661	1880.0	26.75	26.22	0.131	0.148	0.075	0.085	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	661	1880.0	28.00	27.60	0.289	0.317	0.154	0.169	15
					Front	661	1880.0	28.00	27.60	0.243	0.266	0.124	0.136	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	661	1880.0	28.00	27.60	0.152	0.167	0.066	0.072	16
					Edge 2	512	1850.2	28.00	27.61	0.632	0.691	0.313	0.342	
						661	1880.0	28.00	27.60	0.824	0.903	0.393	0.431	
						810	1909.8	28.00	27.52	0.551	0.615	0.263	0.294	

10.3. W-CDMA Band 2

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	9400	1880.0	25.70	25.17	0.179	0.202	0.119	0.134	17
					Left Tilt	9400	1880.0	25.70	25.17	0.147	0.166	0.081	0.091	
					Right Touch	9400	1880.0	25.70	25.17	0.526	0.594	0.332	0.375	
					Right Tilt	9400	1880.0	25.70	25.17	0.096	0.108	0.058	0.065	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9400	1880.0	17.50	16.85	0.510	0.593	0.248	0.288	18
					Front	9400	1880.0	17.50	16.85	0.356	0.414	0.165	0.192	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	9400	1880.0	17.50	16.85	0.126	0.146	0.070	0.081	19
					Edge 3	9262	1852.4	17.50	16.76	0.684	0.812	0.305	0.362	
						9400	1880.0	17.50	16.85	0.784	0.911	0.358	0.416	
					Edge 4	9400	1880.0	17.50	16.77	0.788	0.933	0.351	0.415	
ANT2	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	9400	1880.0	21.50	21.40	0.446	0.456	0.209	0.214	20
					Left Tilt	9400	1880.0	21.50	21.40	0.498	0.510	0.234	0.239	
					Right Touch	9400	1880.0	21.50	21.40	0.771	0.789	0.403	0.412	
					Right Tilt	9262	1852.4	21.50	21.23	0.854	0.909	0.391	0.416	
						9400	1880.0	21.50	21.40	0.860	0.880	0.395	0.404	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9400	1880.0	19.25	18.81	0.663	0.735	0.319	0.353	21
					Front	9400	1880.0	19.25	18.81	0.215	0.238	0.105	0.116	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	9262	1852.4	19.25	18.92	0.764	0.825	0.333	0.359	22
						9400	1880.0	19.25	18.81	0.728	0.807	0.318	0.352	
					Edge 2	9538	1907.6	19.25	18.82	0.860	0.948	0.368	0.406	
						9400	1880.0	19.25	18.81	0.005	0.006	0.002	0.002	
ANT3	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	9400	1880.0	24.70	24.55	0.502	0.519	0.313	0.324	23
					Left Tilt	9400	1880.0	24.70	24.55	0.350	0.362	0.203	0.210	
					Right Touch	9400	1880.0	24.70	24.55	0.306	0.316	0.204	0.211	
					Right Tilt	9400	1880.0	24.70	24.55	0.200	0.207	0.122	0.126	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9400	1880.0	21.00	20.85	0.771	0.798	0.419	0.434	24
					Front	9400	1880.0	21.00	20.85	0.586	0.607	0.337	0.349	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 3	9400	1880.0	21.00	20.85	0.129	0.134	0.059	0.061	25
					Edge 4	9262	1852.4	21.00	20.69	0.704	0.755	0.372	0.399	
						9400	1880.0	21.00	20.85	0.886	0.917	0.455	0.471	
					Edge 4	9538	1907.6	21.00	20.67	0.769	0.830	0.399	0.431	
ANT4	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	9262	1852.4	20.25	19.98	0.932	0.993	0.457	0.487	26
						9400	1880.0	20.25	20.16	0.951	0.971	0.467	0.477	
					Left Tilt	9538	1907.6	20.25	20.10	0.957	0.991	0.467	0.483	
						9400	1880.0	20.25	20.16	0.504	0.515	0.232	0.237	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Right Touch	9400	1880.0	20.25	20.16	0.201	0.205	0.117	0.120	27
					Right Tilt	9400	1880.0	20.25	20.16	0.113	0.115	0.058	0.059	
					Rear	9400	1880.0	22.50	22.41	0.523	0.534	0.277	0.283	
					Front	9400	1880.0	22.50	22.41	0.351	0.359	0.188	0.192	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	9400	1880.0	22.50	22.41	0.246	0.251	0.109	0.111	28
					Edge 2	9262	1852.4	22.50	22.23	0.853	0.908	0.425	0.453	
						9400	1880.0	22.50	22.41	0.943	0.963	0.460	0.470	
					Edge 2	9538	1907.6	22.50	22.29	0.799	0.839	0.386	0.405	

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	25.37	0.140	0.151	0.089	0.096	29
					Left Tilt	1413	1732.6	25.70	25.37	0.103	0.111	0.065	0.070	
					Right Touch	1413	1732.6	25.70	25.37	0.315	0.340	0.202	0.218	
					Right Tilt	1413	1732.6	25.70	25.37	0.115	0.124	0.066	0.071	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1413	1732.6	18.50	17.85	0.634	0.736	0.319	0.371	30
					Front	1413	1732.6	18.50	17.85	0.631	0.733	0.291	0.338	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	1413	1732.6	18.50	17.85	0.180	0.209	0.098	0.113	31
					Edge 3	1312	1712.4	18.50	17.86	0.612	0.710	0.280	0.325	
						1413	1732.6	18.50	17.85	0.727	0.844	0.331	0.384	
						1513	1752.6	18.50	17.87	0.801	0.927	0.365	0.422	
					Edge 4	1413	1732.6	18.50	17.85	0.016	0.018	0.008	0.009	
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	20.00	19.47	0.610	0.689	0.281	0.318	32
					Left Tilt	1413	1732.6	20.00	19.47	0.543	0.614	0.243	0.275	
					Right Touch	1413	1732.6	20.00	19.47	0.690	0.780	0.326	0.368	
					Right Tilt	1312	1712.4	20.00	19.70	0.927	0.993	0.414	0.444	
						1413	1732.6	20.00	19.47	0.819	0.926	0.366	0.414	
						1513	1752.6	20.00	19.50	0.785	0.880	0.356	0.399	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1413	1732.6	18.25	18.01	0.588	0.621	0.283	0.299	33
					Front	1413	1732.6	18.25	18.01	0.563	0.595	0.258	0.273	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	1312	1712.4	18.25	18.05	0.888	0.929	0.387	0.405	34
						1413	1732.6	18.25	18.01	0.806	0.852	0.348	0.368	
					Edge 2	1513	1752.6	18.25	18.20	0.973	0.984	0.429	0.434	
						1413	1732.6	18.25	18.01	0.017	0.018	0.009	0.009	
					Edge 4	1413	1732.6	18.25	18.01	0.116	0.123	0.059	0.062	
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	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	1413	1732.6	24.70	24.50	0.481	0.503	0.306	0.320	35
					Left Tilt	1413	1732.6	24.70	24.50	0.122	0.128	0.072	0.075	
					Right Touch	1413	1732.6	24.70	24.50	0.244	0.255	0.155	0.162	
					Right Tilt	1413	1732.6	24.70	24.50	0.101	0.106	0.060	0.063	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1312	1712.4	20.75	20.48	0.904	0.961	0.538	0.572	36
						1413	1732.6	20.75	20.33	0.811	0.894	0.486	0.536	
						1513	1752.6	20.75	20.46	0.788	0.843	0.448	0.479	
					Front	1413	1732.6	20.75	20.33	0.621	0.684	0.355	0.391	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 3	1413	1732.6	20.75	20.33	0.296	0.326	0.139	0.153	37
					Edge 4	1413	1732.6	20.75	20.33	0.693	0.764	0.364	0.401	
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	20.00	19.77	0.771	0.813	0.381	0.402	37
						1413	1732.6	20.00	19.58	0.829	0.912	0.404	0.445	
						1513	1752.6	20.00	19.59	0.867	0.954	0.422	0.464	
					Left Tilt	1413	1732.6	20.00	19.58	0.493	0.542	0.224	0.246	
					Right Touch	1413	1732.6	20.00	19.58	0.241	0.265	0.141	0.155	
					Right Tilt	1413	1732.6	20.00	19.58	0.152	0.167	0.088	0.097	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1413	1732.6	21.25	20.83	0.256	0.282	0.141	0.155	38
					Front	1413	1732.6	21.25	20.83	0.260	0.286	0.139	0.153	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	1413	1732.6	21.25	20.83	0.164	0.180	0.076	0.083	39
					Edge 2	1312	1712.4	21.25	21.02	0.733	0.773	0.349	0.368	
						1413	1732.6	21.25	20.83	0.811	0.892	0.386	0.425	
						1513	1752.6	21.25	20.84	0.882	0.970	0.423	0.465	

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	25.40	0.255	0.273	0.210	0.225	40
					Left Tilt	4183	836.6	25.70	25.40	0.180	0.193	0.148	0.159	
					Right Touch	4183	836.6	25.70	25.40	0.323	0.346	0.252	0.270	
					RightTilt	4183	836.6	25.70	25.40	0.168	0.180	0.137	0.147	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	4183	836.6	25.25	25.00	0.722	0.765	0.429	0.454	41
					Front	4183	836.6	25.25	25.00	0.402	0.426	0.263	0.279	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	4183	836.6	25.25	25.00	0.695	0.736	0.481	0.510	
					Edge 3	4183	836.6	25.25	25.00	0.437	0.463	0.228	0.242	
					Edge 4	4183	836.6	25.25	25.00	0.282	0.299	0.200	0.212	
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	24.50	24.32	0.557	0.581	0.429	0.447	42
					Left Tilt	4183	836.6	24.50	24.32	0.542	0.565	0.321	0.335	
					Right Touch	4183	836.6	24.50	24.32	0.653	0.681	0.480	0.500	
					Right Tilt	4183	836.6	24.50	24.32	0.513	0.535	0.342	0.357	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	4183	836.6	24.50	24.32	0.348	0.363	0.239	0.249	43
					Front	4183	836.6	24.50	24.32	0.275	0.287	0.207	0.216	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	4183	836.6	24.50	24.32	0.181	0.189	0.109	0.114	
					Edge 2	4183	836.6	24.50	24.32	0.230	0.240	0.168	0.175	
					Edge 4	4183	836.6	24.50	24.32	0.336	0.350	0.238	0.248	

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	25.63	0.218	0.222	0.165	0.168	
					Left Tilt	384	836.5	25.70	25.63	0.151	0.153	0.116	0.118	
					Right Touch	384	836.5	25.70	25.63	0.242	0.246	0.181	0.184	
					Right Tilt	384	836.5	25.70	25.63	0.154	0.156	0.119	0.121	
		1xEVDO Rel. 0	Mode A	0	Left Touch	384	836.5	25.70	25.54	0.213	0.221	0.160	0.166	
					Left Tilt	384	836.5	25.70	25.54	0.129	0.134	0.098	0.102	
					Right Touch	384	836.5	25.70	25.54	0.254	0.264	0.195	0.203	
					Right Tilt	384	836.5	25.70	25.54	0.117	0.122	0.088	0.092	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	384	836.5	25.25	25.21	0.700	0.706	0.423	0.426	45
					Front	384	836.5	25.25	25.21	0.399	0.402	0.260	0.262	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	384	836.5	25.25	25.21	0.784	0.790	0.538	0.542	46
					Edge 3	384	836.5	25.25	25.21	0.420	0.423	0.216	0.218	
					Edge 4	384	836.5	25.25	25.21	0.334	0.337	0.234	0.236	
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	24.50	24.29	0.640	0.672	0.471	0.494	
					Left Tilt	384	836.5	24.50	24.29	0.625	0.656	0.340	0.357	
					Right Touch	1013	824.7	24.50	24.39	0.789	0.809	0.530	0.543	
						384	836.5	24.50	24.29	0.812	0.852	0.560	0.588	
					Right Tilt	777	848.3	24.50	24.26	0.805	0.852	0.535	0.566	
						384	836.5	24.50	24.29	0.547	0.574	0.336	0.353	
		1xEVDO Rel. 0	Mode A	0	Left Touch	384	836.5	24.50	24.37	0.709	0.731	0.519	0.535	
					Left Tilt	384	836.5	24.50	24.37	0.643	0.663	0.381	0.393	
					Right Touch	1013	824.7	24.50	24.50	0.880	0.880	0.558	0.558	
						384	836.5	24.50	24.37	0.833	0.859	0.566	0.584	
					Right Tilt	777	848.3	24.50	24.31	0.832	0.869	0.555	0.580	
						384	836.5	24.50	24.37	0.676	0.697	0.408	0.421	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	384	836.5	24.50	24.31	0.414	0.433	0.264	0.276	48
					Front	384	836.5	24.50	24.31	0.334	0.349	0.227	0.237	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	384	836.5	24.50	24.31	0.173	0.181	0.087	0.091	
					Edge 2	384	836.5	24.50	24.31	0.155	0.162	0.101	0.106	
					Edge 4	384	836.5	24.50	24.31	0.308	0.322	0.200	0.209	

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	25.40	0.165	0.177	0.108	0.116	
					Left Tilt	600	1880.0	25.70	25.40	0.145	0.155	0.085	0.091	
					Right Touch	600	1880.0	25.70	25.40	0.346	0.371	0.222	0.238	
					Right Tilt	600	1880.0	25.70	25.40	0.113	0.121	0.069	0.074	
		1xEVDO Rel. 0	Mode A	0	Left Touch	600	1880.0	25.70	25.56	0.169	0.175	0.111	0.115	
					Left Tilt	600	1880.0	25.70	25.56	0.150	0.155	0.082	0.085	
					Right Touch	600	1880.0	25.70	25.56	0.377	0.389	0.239	0.247	49
					Right Tilt	600	1880.0	25.70	25.56	0.109	0.113	0.065	0.067	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	600	1880.0	17.50	16.91	0.552	0.633	0.269	0.308	50
					Front	600	1880.0	17.50	16.91	0.385	0.441	0.184	0.211	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	600	1880.0	17.50	16.91	0.157	0.180	0.084	0.096	
					Edge 3	25	1851.3	17.50	16.95	0.814	0.923	0.366	0.415	
						600	1880.0	17.50	16.91	0.820	0.940	0.368	0.422	51
						1175	1908.8	17.50	16.95	0.824	0.935	0.369	0.419	
					Edge 4	600	1880.0	17.50	16.91	0.024	0.028	0.012	0.014	
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	600	1880.0	21.50	21.23	0.397	0.422	0.194	0.206	
					Left Tilt	600	1880.0	21.50	21.23	0.696	0.741	0.331	0.352	
					Right Touch	600	1880.0	21.50	21.23	0.615	0.654	0.322	0.343	
					Right Tilt	25	1851.3	21.50	21.26	0.882	0.932	0.419	0.443	
						600	1880.0	21.50	21.23	0.918	0.977	0.439	0.467	
						1175	1908.8	21.50	21.37	0.785	0.808	0.382	0.393	
		1xEVDO Rel. 0	Mode A	0	Left Touch	600	1880.0	21.50	21.50	0.635	0.635	0.303	0.303	
					Left Tilt	600	1880.0	21.50	21.50	0.697	0.697	0.332	0.332	
					Right Touch	600	1880.0	21.50	21.50	0.778	0.778	0.402	0.402	
					Right Tilt	25	1851.3	21.50	21.37	0.951	0.980	0.446	0.460	
						600	1880.0	21.50	21.50	0.974	0.974	0.466	0.466	
						1175	1908.8	21.50	21.50	0.993	0.993	0.477	0.477	52
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	600	1880.0	19.25	18.85	0.465	0.510	0.222	0.243	53
					Front	600	1880.0	19.25	18.85	0.282	0.309	0.134	0.147	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	25	1851.3	19.25	18.73	0.810	0.913	0.324	0.365	
						600	1880.0	19.25	18.85	0.825	0.905	0.331	0.363	
						1175	1908.8	19.25	18.76	0.870	0.973	0.346	0.387	54
					Edge 2	600	1880.0	19.25	18.85	0.003	0.004	0.001	0.001	
					Edge 4	600	1880.0	19.25	18.85	0.179	0.196	0.090	0.099	

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	25.69	0.188	0.189	0.143	0.143	
					Left Tilt	560	820.0	25.70	25.69	0.136	0.136	0.105	0.105	
					Right Touch	560	820.0	25.70	25.69	0.242	0.243	0.187	0.188	
					Right Tilt	560	820.0	25.70	25.69	0.122	0.122	0.096	0.097	
		1xEVDO Rel. 0	Mode A	0	Left Touch	560	820.0	25.70	25.46	0.193	0.204	0.146	0.154	
					Left Tilt	560	820.0	25.70	25.46	0.143	0.151	0.109	0.115	
					Right Touch	560	820.0	25.70	25.46	0.237	0.250	0.183	0.193	55
					Right Tilt	560	820.0	25.70	25.46	0.144	0.152	0.109	0.115	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	560	820.0	25.25	25.15	0.510	0.522	0.283	0.290	56
					Front	560	820.0	25.25	25.15	0.284	0.291	0.177	0.181	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	560	820.0	25.25	25.15	0.605	0.620	0.392	0.401	57
					Edge 3	560	820.0	25.25	25.15	0.285	0.292	0.127	0.130	
					Edge 4	560	820.0	25.25	25.15	0.213	0.218	0.137	0.140	
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	24.50	24.21	0.658	0.704	0.484	0.518	
					Left Tilt	560	820.0	24.50	24.21	0.613	0.656	0.355	0.380	
					Right Touch	560	820.0	24.50	24.21	0.794	0.849	0.515	0.551	
					Right Tilt	560	820.0	24.50	24.21	0.657	0.703	0.374	0.400	
		1xEVDO Rel. 0	Mode A	0	Left Touch	560	820.0	24.50	24.20	0.682	0.730	0.500	0.535	
					Left Tilt	560	820.0	24.50	24.20	0.642	0.687	0.388	0.415	
					Right Touch	560	820.0	24.50	24.20	0.855	0.915	0.578	0.619	58
					Right Tilt	560	820.0	24.50	24.20	0.745	0.798	0.438	0.469	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	560	820.0	24.50	24.40	0.353	0.361	0.222	0.227	59
					Front	560	820.0	24.50	24.40	0.238	0.243	0.164	0.168	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	560	820.0	24.50	24.40	0.137	0.140	0.068	0.070	
					Edge 2	560	820.0	24.50	24.40	0.139	0.142	0.092	0.094	
					Edge 4	560	820.0	24.50	24.40	0.296	0.303	0.193	0.197	

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	25.22	0.233	0.260	0.189	0.211	60
								25	12	24.70	24.29	0.197	0.216	0.160	0.176	
					Left Tilt	20525	836.5	1	25	25.70	25.22	0.151	0.169	0.125	0.140	
								25	12	24.70	24.29	0.127	0.140	0.106	0.116	
					Right Touch	20525	836.5	1	25	25.70	25.22	0.302	0.337	0.239	0.267	
								25	12	24.70	24.29	0.247	0.271	0.194	0.213	
					Right Tilt	20525	836.5	1	25	25.70	25.22	0.162	0.181	0.132	0.147	
								25	12	24.70	24.29	0.138	0.152	0.114	0.125	
	Body & Hotspot	QPSK	Mode B	5	Rear	20525	836.5	1	25	25.25	25.06	0.721	0.753	0.432	0.451	61
								25	12	24.70	24.41	0.566	0.605	0.340	0.363	
					Front	20525	836.5	1	25	25.25	25.06	0.368	0.384	0.238	0.249	
								25	12	24.70	24.41	0.306	0.327	0.201	0.215	
					Edge 2	20525	836.5	1	25	25.25	25.06	0.689	0.720	0.476	0.497	
								25	12	24.70	24.41	0.525	0.561	0.361	0.386	
					Edge 3	20525	836.5	1	25	25.25	25.06	0.366	0.382	0.191	0.200	
								25	12	24.70	24.41	0.312	0.334	0.164	0.175	
					Edge 4	20525	836.5	1	25	25.25	25.06	0.246	0.257	0.175	0.183	
								25	12	24.70	24.41	0.207	0.221	0.148	0.158	
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	24.50	24.41	0.551	0.563	0.426	0.435	62
								25	12	23.50	23.44	0.467	0.473	0.360	0.365	
					Left Tilt	20525	836.5	1	25	24.50	24.41	0.543	0.554	0.328	0.335	
								25	12	23.50	23.44	0.456	0.462	0.276	0.280	
					Right Touch	20525	836.5	1	25	24.50	24.41	0.655	0.669	0.476	0.486	
								25	12	23.50	23.44	0.552	0.560	0.402	0.408	
					Right Tilt	20525	836.5	1	25	24.50	24.41	0.526	0.537	0.342	0.349	
								25	12	23.50	23.44	0.438	0.444	0.284	0.288	
	Body & Hotspot	QPSK	Mode B	5	Rear	20525	836.5	1	25	24.50	24.41	0.403	0.411	0.271	0.277	63
								25	12	23.50	23.44	0.340	0.345	0.231	0.234	
					Front	20525	836.5	1	25	24.50	24.41	0.264	0.270	0.204	0.208	
								25	12	23.50	23.44	0.223	0.226	0.174	0.176	
					Edge 1	20525	836.5	1	25	24.50	24.41	0.175	0.179	0.106	0.108	
								25	12	23.50	23.44	0.150	0.152	0.092	0.093	
					Edge 2	20525	836.5	1	25	24.50	24.41	0.244	0.249	0.176	0.180	
								25	12	23.50	23.44	0.209	0.212	0.153	0.155	
					Edge 4	20525	836.5	1	25	24.50	24.41	0.349	0.356	0.245	0.250	
								25	12	23.50	23.44	0.293	0.297	0.208	0.211	

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	25.43	0.198	0.211	0.152	0.162	
ANT 1	Body	QPSK	Mode B	5	Rear	20476	831.6	1	49	20575	841.5	1	0	25.25	24.98	0.502	0.534	0.273	0.290	
ANT 2	Head	QPSK	Mode A	0	Right Touch	20476	831.6	1	49	20575	841.5	1	0	24.50	24.39	0.547	0.562	0.361	0.371	
ANT 2	Body	QPSK	Mode B	5	Rear	20476	831.6	1	49	20575	841.5	1	0	24.50	24.18	0.400	0.431	0.256	0.276	

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	25.25	24.92	0.354	0.382	0.193	0.208	
								50	24	24.70	24.10	0.312	0.358	0.167	0.192	
					Left Tilt	21100	2535.0	1	49	25.25	24.92	0.185	0.200	0.105	0.113	
								50	24	24.70	24.10	0.155	0.178	0.088	0.100	
					Right Touch	20850	2510.0	1	49	25.25	25.03	0.784	0.825	0.401	0.422	
						21100	2535.0	1	49	25.25	24.92	0.826	0.891	0.429	0.463	
								50	24	24.70	24.10	0.688	0.790	0.344	0.395	
						21350	2560.0	1	49	25.25	25.01	0.798	0.843	0.412	0.435	
					Right Tilt	21100	2535.0	1	49	25.25	24.92	0.163	0.176	0.090	0.097	
								50	24	24.70	24.10	0.123	0.141	0.066	0.076	
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	1	49	19.00	18.79	0.826	0.867	0.333	0.349	
						21100	2535.0	50	24	19.00	18.77	0.854	0.900	0.344	0.363	
								1	49	19.00	18.77	0.876	0.923	0.354	0.373	
								50	24	19.00	18.75	0.914	0.968	0.368	0.390	
						21350	2560.0	100	0	19.00	18.60	0.909	0.997	0.366	0.401	65
					Front	21100	2535.0	1	49	19.00	18.70	0.926	0.992	0.371	0.398	
								50	24	19.00	18.73	0.936	0.996	0.374	0.398	
								1	49	19.00	18.77	0.411	0.433	0.182	0.192	
								50	24	19.00	18.75	0.362	0.383	0.154	0.163	
	Hotspot	QPSK	Mode B	5	Edge 2	20850	2510.0	1	49	19.00	18.79	0.845	0.887	0.343	0.360	
						21100	2535.0	50	24	19.00	18.77	0.847	0.893	0.345	0.364	
								1	49	19.00	18.77	0.839	0.884	0.346	0.365	
								50	24	19.00	18.75	0.887	0.940	0.364	0.386	
						21350	2560.0	100	0	19.00	18.60	0.898	0.985	0.366	0.401	
					Edge 3	21100	2535.0	1	49	19.00	18.70	0.807	0.865	0.335	0.359	
								50	24	19.00	18.73	0.820	0.873	0.340	0.362	
								1	49	19.00	18.77	0.101	0.106	0.040	0.042	
								50	24	19.00	18.75	0.100	0.105	0.040	0.042	
					Edge 4	21100	2535.0	1	49	19.00	18.77	0.020	0.022	0.008	0.008	
								50	24	19.00	18.75	0.018	0.019	0.006	0.006	
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	21100	2535.0	1	49	19.00	18.46	0.285	0.323	0.154	0.174	
								50	24	19.00	18.83	0.292	0.304	0.158	0.164	
					Left Tilt	21100	2535.0	1	49	19.00	18.46	0.297	0.337	0.141	0.160	
								50	24	19.00	18.83	0.303	0.315	0.144	0.150	
					Right Touch	20850	2510.0	1	49	19.00	18.75	0.712	0.754	0.374	0.396	
								50	24	19.00	18.80	0.725	0.760	0.374	0.392	
						21100	2535.0	1	49	19.00	18.46	0.823	0.933	0.420	0.476	
								50	24	19.00	18.83	0.795	0.827	0.409	0.426	
								100	0	19.00	18.85	0.801	0.829	0.411	0.425	
						21350	2560.0	1	49	19.00	18.82	0.852	0.888	0.434	0.452	
								50	24	19.00	18.79	0.877	0.920	0.445	0.467	
					Right Tilt	20850	2510.0	1	49	19.00	18.75	0.639	0.677	0.288	0.305	
								50	24	19.00	18.80	0.660	0.691	0.296	0.310	
						21100	2535.0	1	49	19.00	18.46	0.746	0.845	0.320	0.363	
								50	24	19.00	18.83	0.734	0.764	0.323	0.336	
								100	0	19.00	18.85	0.710	0.735	0.315	0.326	
						21350	2560.0	1	49	19.00	18.82	0.789	0.822	0.347	0.362	
								50	24	19.00	18.79	0.797	0.836	0.350	0.367	
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	1	49	19.25	18.85	0.620	0.680	0.248	0.272	
						21100	2535.0	50	24	19.25	19.00	0.642	0.680	0.258	0.273	
								1	49	19.25	18.70	0.793	0.900	0.311	0.353	
								50	24	19.25	18.55	0.721	0.847	0.290	0.341	
						21350	2560.0	100	0	19.25	18.61	0.723	0.839	0.291	0.338	
					Front	21100	2535.0	1	49	19.25	19.05	0.870	0.911	0.340	0.356	
								50	24	19.25	18.92	0.887	0.957	0.346	0.373	
								1	49	19.25	18.70	0.427	0.485	0.215	0.244	
								50	24	19.25	18.55	0.445	0.523	0.224	0.263	
	Hotspot	QPSK	Mode B	5	Edge 1	21100	2535.0	1	49	19.25	18.70	0.186	0.211	0.086	0.097	
								50	24	19.25	18.55	0.225	0.264	0.100	0.117	
					Edge 2	21100	2535.0	1	49	19.25	18.70	0.025	0.028	0.013	0.015	
								50	24	19.25	18.55	0.023	0.027	0.012	0.014	
					Edge 4	21100	2535.0	1	49	19.25	18.70	0.476	0.540	0.221	0.251	
								50	24	19.25	18.55	0.452	0.531	0.222	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	24.50	24.25	0.265	0.281	0.138	0.146	
								50	24	23.70	23.60	0.222	0.227	0.111	0.114	
					Left Tilt	21100	2535.0	1	49	24.50	24.25	0.172	0.182	0.087	0.092	
								50	24	23.70	23.60	0.166	0.170	0.079	0.080	
					Right Touch	21100	2535.0	1	49	24.50	24.25	0.339	0.359	0.186	0.197	68
								50	24	23.70	23.60	0.351	0.359	0.192	0.196	
					Right Tilt	21100	2535.0	1	49	24.50	24.25	0.215	0.228	0.108	0.114	
								50	24	23.70	23.60	0.291	0.298	0.151	0.155	
	Body & Hotspot	QPSK	Mode B	5	Rear	21100	2535.0	1	49	19.00	18.96	0.684	0.691	0.331	0.334	
								50	24	19.00	18.97	0.737	0.742	0.370	0.373	
					Front	21100	2535.0	1	49	19.00	18.96	0.483	0.488	0.246	0.248	
								50	24	19.00	18.97	0.504	0.507	0.255	0.257	
	Hotspot	QPSK	Mode B	5	Edge 3	21100	2535.0	1	49	19.00	18.96	0.162	0.164	0.084	0.085	
								50	24	19.00	18.97	0.163	0.164	0.085	0.085	
					Edge 4	20850	2510.0	1	49	19.00	18.91	0.916	0.935	0.416	0.425	70
								50	24	19.00	18.82	0.932	0.971	0.423	0.441	
								1	49	19.00	18.96	0.857	0.866	0.385	0.389	
								50	24	19.00	18.97	0.861	0.867	0.387	0.390	
						21100	2535.0	100	0	19.00	18.95	0.815	0.824	0.370	0.374	
								1	49	19.00	19.00	0.815	0.815	0.376	0.376	
								50	24	19.00	18.97	0.926	0.933	0.412	0.415	
								21350	2560.0							

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	25.25	25.08	0.800	0.832	0.403	0.419	
ANT 1	Body	QPSK	Mode B	5	Rear	21001	2525.1	1	99	21199	2544.9	1	0	19.00	18.63	0.645	0.703	0.266	0.290	
ANT 2	Head	QPSK	Mode A	0	Right Touch	21152	2540.2	1	99	21350	2560.0	1	0	19.00	18.62	0.684	0.747	0.358	0.391	
ANT 2	Body	QPSK	Mode B	5	Rear	21152	2540.2	1	99	21350	2560.0	1	0	19.25	18.85	0.342	0.375	0.137	0.150	
ANT 3	Head	QPSK	Mode A	0	Left Touch	20850	2510.0	1	99	21048	2529.8	1	0	24.50	24.06	0.812	0.899	0.415	0.460	
ANT 3	Body	QPSK	Mode B	5	Rear	20850	2510.0	1	99	21048	2529.8	1	0	19.00	18.76	0.655	0.692	0.327	0.346	
ANT 3	Body	QPSK	Mode B	5	Edge 4	20850	2510.0	1	99	21048	2529.8	1	0	19.00	18.88	0.793	0.814	0.366	0.376	
ANT 4	Head	QPSK	Mode A	0	Left Touch	21001	2525.1	1	99	21199	2544.9	1	0	19.50	19.33	0.900	0.936	0.428	0.445	
ANT 4	Body	QPSK	Mode B	5	Rear	21001	2525.1	1	99	21199	2544.9	1	0	20.25	20.00	0.515	0.545	0.235	0.249	
ANT 4	Body	QPSK	Mode B	5	Edge 2	21001	2525.1	1	99	21199	2544.9	1	0	20.25	19.75	0.728	0.817	0.339	0.380	

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	24.92	0.125	0.150	0.096	0.115	74
								25	12	24.70	24.18	0.098	0.110	0.075	0.085	
					Left Tilt	23095	707.5	1	25	25.70	24.92	0.081	0.097	0.064	0.077	
								25	12	24.70	24.18	0.067	0.076	0.052	0.059	
					Right Touch	23095	707.5	1	25	25.70	24.92	0.133	0.159	0.103	0.123	
								25	12	24.70	24.18	0.108	0.122	0.084	0.095	
					Right Tilt	23095	707.5	1	25	25.70	24.92	0.100	0.120	0.078	0.093	
								25	12	24.70	24.18	0.079	0.089	0.062	0.070	
	Body & Hotspot	QPSK	Mode B	5	Rear	23095	707.5	1	25	25.70	24.92	0.562	0.673	0.340	0.407	75
								25	12	24.70	24.18	0.469	0.529	0.278	0.313	
					Front	23095	707.5	1	25	25.70	24.92	0.274	0.328	0.206	0.247	
								25	12	24.70	24.18	0.227	0.256	0.171	0.193	
	Hotspot	QPSK	Mode B	5	Edge 2	23095	707.5	1	25	25.70	24.92	0.548	0.656	0.350	0.419	
								25	12	24.70	24.18	0.523	0.590	0.336	0.379	
					Edge 3	23095	707.5	1	25	25.70	24.92	0.338	0.404	0.152	0.182	
								25	12	24.70	24.18	0.288	0.325	0.129	0.145	
					Edge 4	23095	707.5	1	25	25.70	24.92	0.192	0.230	0.121	0.145	
								25	12	24.70	24.18	0.150	0.169	0.095	0.107	
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	24.50	24.45	0.506	0.512	0.321	0.325	76
								25	12	23.50	23.45	0.417	0.422	0.263	0.266	
					Left Tilt	23095	707.5	1	25	24.50	24.45	0.629	0.636	0.318	0.322	
								25	12	23.50	23.45	0.524	0.530	0.265	0.268	
					Right Touch	23095	707.5	1	25	24.50	24.45	0.550	0.556	0.377	0.381	
								25	12	23.50	23.45	0.451	0.456	0.310	0.313	
					Right Tilt	23095	707.5	1	25	24.50	24.45	0.564	0.571	0.334	0.338	
								25	12	23.50	23.45	0.465	0.470	0.277	0.280	
	Body & Hotspot	QPSK	Mode B	5	Rear	23095	707.5	1	25	24.50	24.45	0.424	0.429	0.253	0.256	77
								25	12	23.50	23.45	0.352	0.356	0.209	0.211	
					Front	23095	707.5	1	25	24.50	24.45	0.258	0.261	0.182	0.184	
								25	12	23.50	23.45	0.263	0.266	0.144	0.146	
	Hotspot	QPSK	Mode B	5	Edge 1	23095	707.5	1	25	24.50	24.45	0.196	0.198	0.091	0.092	
								25	12	23.50	23.45	0.161	0.163	0.075	0.076	
					Edge 2	23095	707.5	1	25	24.50	24.45	0.146	0.148	0.094	0.095	
								25	12	23.50	23.45	0.119	0.120	0.077	0.078	
					Edge 4	23095	707.5	1	25	24.50	24.45	0.380	0.384	0.239	0.242	
								25	12	23.50	23.45	0.317	0.320	0.201	0.203	

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	25.40	0.260	0.279	0.195	0.209	78
								25	12	24.70	24.20	0.210	0.236	0.158	0.177	
					Left Tilt	23230	782.0	1	25	25.70	25.40	0.216	0.231	0.166	0.178	
								25	12	24.70	24.20	0.177	0.199	0.136	0.153	
					Right Touch	23230	782.0	1	25	25.70	25.40	0.295	0.316	0.220	0.236	
								25	12	24.70	24.20	0.240	0.269	0.179	0.201	
					Right Tilt	23230	782.0	1	25	25.70	25.40	0.200	0.214	0.157	0.168	
								25	12	24.70	24.20	0.163	0.183	0.128	0.144	
	Body & Hotspot	QPSK	Mode B	5	Rear	23230	782.0	1	25	25.70	25.40	0.627	0.672	0.364	0.390	79
								25	12	24.70	24.20	0.524	0.588	0.295	0.331	
					Front	23230	782.0	1	25	25.70	25.40	0.335	0.359	0.213	0.228	
								25	12	24.70	24.20	0.274	0.307	0.175	0.196	
					Edge 2	23230	782.0	1	25	25.70	25.40	0.865	0.927	0.546	0.585	
								25	12	24.70	24.20	0.700	0.785	0.440	0.494	
	Hotspot	QPSK	Mode B	5	Edge 3	23230	782.0	1	25	25.70	25.40	0.366	0.392	0.157	0.168	80
								25	12	24.70	24.20	0.283	0.318	0.123	0.138	
					Edge 4	23230	782.0	1	25	25.70	25.40	0.293	0.314	0.187	0.200	
								25	12	24.70	24.20	0.242	0.272	0.155	0.174	

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	24.50	24.50	0.318	0.318	0.229	0.229	81
								25	12	23.50	23.50	0.265	0.265	0.191	0.191	
					Left Tilt	23230	782.0	1	25	24.50	24.50	0.399	0.399	0.211	0.211	
								25	12	23.50	23.50	0.319	0.319	0.167	0.167	
					Right Touch	23230	782.0	1	25	24.50	24.50	0.399	0.399	0.278	0.278	
								25	12	23.50	23.50	0.332	0.332	0.231	0.231	
					Right Tilt	23230	782.0	1	25	24.50	24.50	0.315	0.315	0.205	0.205	
								25	12	23.50	23.50	0.257	0.257	0.177	0.177	
	Body & Hotspot	QPSK	Mode B	5	Rear	23230	782.0	1	25	24.50	24.50	0.366	0.366	0.215	0.215	82
								25	12	23.50	23.50	0.299	0.299	0.176	0.176	
					Front	23230	782.0	1	25	24.50	24.50	0.240	0.240	0.161	0.161	
								25	12	23.50	23.50	0.193	0.193	0.131	0.131	
					Edge 1	23230	782.0	1	25	24.50	24.50	0.153	0.153	0.072	0.072	
								25	12	23.50	23.50	0.126	0.126	0.059	0.059	
	Hotspot	QPSK	Mode B	5	Edge 2	23230	782.0	1	25	24.50	24.50	0.180	0.180	0.116	0.116	83
								25	12	23.50	23.50	0.145	0.145	0.094	0.094	
					Edge 4	23230	782.0	1	25	24.50	24.50	0.275	0.275	0.178	0.178	
								25	12	23.50	23.50	0.228	0.228	0.146	0.146	

10.13. 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	25.54	0.162	0.168	0.110	0.114	83
								50	24	24.70	24.46	0.105	0.111	0.070	0.074	
					Left Tilt	26365	1882.5	1	49	25.70	25.54	0.079	0.082	0.046	0.048	
								50	24	24.70	24.46	0.053	0.056	0.030	0.032	
					Right Touch	26365	1882.5	1	49	25.70	25.54	0.306	0.317	0.195	0.202	
								50	24	24.70	24.46	0.240	0.254	0.153	0.162	
					Right Tilt	26365	1882.5	1	49	25.70	25.54	0.059	0.061	0.037	0.038	
								50	24	24.70	24.46	0.039	0.041	0.024	0.025	
	Body & Hotspot	QPSK	Mode B	5	Rear	26365	1882.5	1	49	17.50	17.10	0.505	0.554	0.248	0.272	84
								50	24	17.50	17.10	0.518	0.568	0.254	0.279	
					Front	26365	1882.5	1	49	17.50	17.10	0.414	0.454	0.195	0.214	
								50	24	17.50	17.10	0.424	0.465	0.200	0.219	
	Hotspot	QPSK	Mode B	5	Edge 2	26365	1882.5	1	49	17.50	17.10	0.122	0.134	0.063	0.069	85
								50	24	17.50	17.10	0.126	0.138	0.065	0.071	
					Edge 3	26140	1860.0	1	49	17.50	17.10	0.689	0.755	0.313	0.343	
								50	24	17.50	17.10	0.733	0.804	0.332	0.364	
						26365	1882.5	1	49	17.50	17.10	0.852	0.934	0.384	0.421	
								50	24	17.50	17.10	0.865	0.948	0.389	0.427	
						26590	1905.0	100	0	17.50	17.10	0.858	0.941	0.387	0.424	
								1	49	17.50	17.10	0.760	0.833	0.340	0.373	
								50	24	17.50	17.10	0.782	0.857	0.350	0.384	
					Edge 4	26365	1882.5	1	49	17.50	17.10	0.008	0.009	0.003	0.004	
								50	24	17.50	17.10	0.006	0.006	0.002	0.003	
ANT2	Head	QPSK	Mode A	0	Left Touch	26365	1882.5	1	49	21.50	21.05	0.487	0.540	0.227	0.252	86
								50	24	21.50	21.02	0.446	0.498	0.206	0.230	
					Left Tilt	26365	1882.5	1	49	21.50	21.05	0.602	0.668	0.280	0.311	
								50	24	21.50	21.02	0.510	0.570	0.238	0.266	
					Right Touch	26365	1882.5	1	49	21.50	21.05	0.675	0.749	0.357	0.396	
								50	24	21.50	21.02	0.590	0.659	0.311	0.347	
					Right Tilt	26140	1860.0	1	49	21.50	20.98	0.831	0.937	0.371	0.418	
								50	24	21.50	21.08	0.736	0.811	0.329	0.362	
						26365	1882.5	1	49	21.50	21.05	0.850	0.943	0.382	0.424	
								50	24	21.50	21.02	0.755	0.843	0.339	0.379	
						26590	1905.0	100	0	21.50	20.99	0.747	0.840	0.336	0.378	
								1	49	21.50	20.99	0.853	0.959	0.388	0.436	
	Body & Hotspot	QPSK	Mode B	5	Rear	26365	1882.5	1	49	19.25	19.15	0.663	0.678	0.310	0.317	87
								50	24	19.25	19.22	0.672	0.677	0.314	0.316	
					Front	26365	1882.5	1	49	19.25	19.15	0.383	0.392	0.187	0.191	
								50	24	19.25	19.22	0.389	0.392	0.190	0.191	
					Edge 1	26140	1860.0	1	49	19.25	19.20	0.843	0.853	0.364	0.368	
								50	24	19.25	19.15	0.879	0.899	0.378	0.387	
						26365	1882.5	1	49	19.25	19.15	0.880	0.900	0.381	0.390	
								50	24	19.25	19.22	0.911	0.918	0.393	0.396	
						26590	1905.0	100	0	19.25	19.21	0.913	0.921	0.392	0.396	
								1	49	19.25	19.12	0.901	0.927	0.389	0.400	
	Hotspot	QPSK	Mode B	5	Edge 2	26365	1882.5	50	24	19.25	19.22	0.915	0.921	0.393	0.396	88
								1	49	19.25	19.15	0.004	0.004	0.002	0.002	
					Edge 3	26365	1882.5	50	24	19.25	19.22	0.005	0.005	0.003	0.003	
								1	49	19.25	19.15	0.252	0.258	0.126	0.129	
					Edge 4	26365	1882.5	50	24	19.25	19.22	0.251	0.253	0.125	0.126	
								1	49	19.25	19.15	0.004	0.004	0.002	0.002	
					Edge 5	26365	1882.5	50	24	19.25	19.22	0.251	0.253	0.125	0.126	
								1	49	19.25	19.15	0.004	0.004	0.002	0.002	

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	26365	1882.5	1	49	24.70	24.67	0.516	0.520	0.320	0.322	89
								50	24	23.70	23.69	0.414	0.415	0.256	0.257	
					Left Tilt	26365	1882.5	1	49	24.70	24.67	0.203	0.204	0.124	0.125	
								50	24	23.70	23.69	0.163	0.163	0.099	0.099	
					Right Touch	26365	1882.5	1	49	24.70	24.67	0.259	0.261	0.169	0.170	
								50	24	23.70	23.69	0.204	0.204	0.133	0.133	
					Right Tilt	26365	1882.5	1	49	24.70	24.67	0.177	0.178	0.107	0.108	
								50	24	23.70	23.69	0.140	0.140	0.085	0.085	
	Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	21.25	20.85	0.852	0.934	0.466	0.511	90
								50	24	21.25	20.88	0.880	0.958	0.481	0.524	
						26365	1882.5	1	49	21.25	20.78	0.812	0.905	0.449	0.500	
								50	24	21.25	20.86	0.820	0.897	0.453	0.496	
					Front	26590	1905.0	100	0	21.25	20.84	0.817	0.898	0.451	0.496	
								1	49	21.25	20.91	0.752	0.813	0.419	0.453	
						26140	1860.0	50	24	21.25	20.87	0.762	0.832	0.424	0.463	
								1	49	21.25	20.78	0.550	0.613	0.325	0.362	
						26365	1882.5	50	24	21.25	20.86	0.553	0.605	0.327	0.358	
								1	49	21.25	20.78	0.134	0.149	0.062	0.069	
ANT4	Head	QPSK	Mode A	0	Edge 3	26365	1882.5	1	49	21.25	20.78	0.134	0.149	0.062	0.069	91
								50	24	21.25	20.86	0.137	0.150	0.063	0.069	
					Edge 4	26140	1860.0	1	49	21.25	20.85	0.760	0.833	0.397	0.435	
								50	24	21.25	20.88	0.779	0.848	0.405	0.441	
						26365	1882.5	1	49	21.25	20.78	0.834	0.929	0.434	0.484	
								50	24	21.25	20.86	0.811	0.887	0.420	0.459	
						26590	1905.0	100	0	21.25	20.84	0.801	0.881	0.415	0.456	
								1	49	21.25	20.91	0.863	0.933	0.447	0.483	
								50	24	21.25	20.87	0.856	0.934	0.442	0.482	
	Body & Hotspot	QPSK	Mode B	5	Left Touch	26140	1860.0	1	49	20.50	20.46	0.858	0.866	0.428	0.432	92
								50	24	20.50	20.39	0.900	0.923	0.448	0.459	
						26365	1882.5	1	49	20.50	20.31	0.951	0.994	0.464	0.485	
								50	24	20.50	20.45	0.876	0.886	0.444	0.449	
					Left Tilt	26590	1905.0	100	0	20.50	20.43	0.913	0.928	0.451	0.458	
								1	49	20.50	20.47	0.922	0.928	0.456	0.459	
						26365	1882.5	50	24	20.50	20.48	0.938	0.942	0.463	0.465	
								1	49	20.50	20.31	0.399	0.417	0.189	0.197	
					Right Touch	26365	1882.5	50	24	20.50	20.45	0.404	0.409	0.190	0.192	
								1	49	20.50	20.31	0.147	0.154	0.088	0.092	
	Hotspot	QPSK	Mode B	5	Right Tilt	26365	1882.5	50	24	20.50	20.45	0.146	0.148	0.088	0.089	93
								1	49	20.50	20.31	0.099	0.103	0.055	0.057	
					Rear	26365	1882.5	50	24	20.50	20.45	0.099	0.100	0.056	0.057	
								1	49	21.75	21.25	0.560	0.628	0.295	0.331	
						26365	1882.5	50	24	21.70	21.20	0.471	0.528	0.245	0.275	
								1	49	21.75	21.25	0.382	0.429	0.198	0.222	
					Front	26365	1882.5	50	24	21.70	21.20	0.322	0.361	0.163	0.183	
								1	49	21.75	21.25	0.223	0.250	0.098	0.110	
					Edge 1	26365	1882.5	50	24	21.70	21.20	0.190	0.213	0.083	0.093	
								1	49	21.75	21.22	0.830	0.938	0.400	0.452	
					Edge 2	26140	1860.0	50	24	21.70	21.30	0.687	0.754	0.331	0.363	
								1	49	21.75	21.25	0.837	0.939	0.405	0.454	
						26365	1882.5	50	24	21.70	21.20	0.714	0.801	0.341	0.383	
								100	0	21.70	21.30	0.727	0.797	0.348	0.382	
						26590	1905.0	1	49	21.75	21.34	0.865	0.950	0.417	0.458	
								50	24	21.70	21.26	0.727	0.804	0.348	0.385	

10.14. 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	25.50	0.226	0.237	0.184	0.193	94
								25	12	24.70	24.30	0.193	0.212	0.157	0.172	
					Left Tilt	26865	831.5	1	25	25.70	25.50	0.148	0.155	0.122	0.128	
								25	12	24.70	24.30	0.125	0.137	0.104	0.114	
					Right Touch	26865	831.5	1	25	25.70	25.50	0.282	0.295	0.223	0.234	
								25	12	24.70	24.30	0.213	0.234	0.166	0.182	
					Right Tilt	26865	831.5	1	25	25.70	25.50	0.148	0.155	0.121	0.127	
								25	12	24.70	24.30	0.127	0.139	0.103	0.113	
	Body & Hotspot	QPSK	Mode B	5	Rear	26865	831.5	1	25	25.25	25.09	0.703	0.729	0.420	0.436	95
								25	12	24.70	24.49	0.585	0.613	0.352	0.369	
					Front	26865	831.5	1	25	25.25	25.09	0.355	0.368	0.236	0.245	
								25	12	24.70	24.49	0.294	0.308	0.197	0.207	
	Hotspot	QPSK	Mode B	5	Edge 2	26740	819.0	1	25	25.25	25.09	0.926	0.961	0.633	0.657	96
								25	12	24.70	24.49	0.773	0.810	0.530	0.556	
						26865	831.5	1	25	25.25	24.96	0.895	0.957	0.609	0.651	
								25	12	24.70	24.28	0.740	0.815	0.504	0.555	
					Edge 3	26990	844.0	1	25	25.25	24.92	0.778	0.839	0.531	0.573	
								25	12	24.70	24.33	0.630	0.686	0.430	0.468	
						26865	831.5	1	25	25.25	25.50	0.429	0.405	0.218	0.206	
								25	12	24.70	24.30	0.382	0.419	0.195	0.214	
					Edge 4	26865	831.5	1	25	25.25	25.50	0.317	0.299	0.224	0.211	
								25	12	24.70	24.30	0.249	0.273	0.177	0.194	

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	24.50	24.40	0.531	0.543	0.409	0.419	97
								25	12	23.50	23.38	0.444	0.456	0.343	0.353	
					Left Tilt	26865	831.5	1	25	24.50	24.40	0.614	0.628	0.348	0.356	
								25	12	23.50	23.38	0.517	0.531	0.296	0.304	
					Right Touch	26865	831.5	1	25	24.50	24.40	0.633	0.648	0.464	0.475	
								25	12	23.50	23.38	0.575	0.591	0.409	0.420	
					Right Tilt	26865	831.5	1	25	24.50	24.40	0.618	0.632	0.375	0.384	
								25	12	23.50	23.38	0.537	0.552	0.327	0.336	
	Body & Hotspot	QPSK	Mode B	5	Rear	26865	831.5	1	25	24.50	24.40	0.408	0.418	0.275	0.281	98
								25	12	23.50	23.38	0.310	0.319	0.213	0.219	
					Front	26865	831.5	1	25	24.50	24.40	0.283	0.290	0.212	0.217	
								25	12	23.50	23.38	0.242	0.249	0.181	0.186	
	Hotspot	QPSK	Mode B	5	Edge 1	26865	831.5	1	25	24.50	24.40	0.170	0.174	0.101	0.103	
								25	12	23.50	23.38	0.150	0.154	0.090	0.093	
					Edge 2	26865	831.5	1	25	24.50	24.40	0.232	0.237	0.168	0.172	
								25	12	23.50	23.38	0.195	0.200	0.142	0.146	
					Edge 4	26865	831.5	1	25	24.50	24.40	0.352	0.360	0.249	0.255	
								25	12	23.50	23.38	0.298	0.306	0.211	0.217	

10.15. 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	25.58	0.183	0.188	0.106	0.109	99
								25	12	24.70	24.45	0.147	0.156	0.085	0.090	
					Left Tilt	27710	2310.0	1	25	25.70	25.58	0.083	0.085	0.046	0.047	
								25	12	24.70	24.45	0.069	0.073	0.038	0.040	
					Right Touch	27710	2310.0	1	25	25.70	25.58	0.401	0.412	0.203	0.209	
								25	12	24.70	24.45	0.342	0.362	0.178	0.189	
					Right Tilt	27710	2310.0	1	25	25.70	25.58	0.093	0.096	0.051	0.052	
								25	12	24.70	24.45	0.070	0.074	0.039	0.041	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	25	22.25	21.80	0.717	0.795	0.288	0.319	100
								25	12	22.25	21.92	0.739	0.797	0.299	0.323	
					Front	27710	2310.0	1	25	22.25	21.80	0.346	0.384	0.159	0.176	
								25	12	22.25	21.92	0.361	0.389	0.166	0.179	
	Hotspot	QPSK	Mode B	5	Edge 2	27710	2310.0	1	25	22.25	21.80	0.795	0.882	0.331	0.367	101
								25	12	22.25	21.92	0.828	0.893	0.346	0.373	
								50	0	22.25	21.70	0.796	0.903	0.322	0.365	
					Edge 3	27710	2310.0	1	25	22.25	21.80	0.190	0.211	0.086	0.095	
								25	12	22.25	21.92	0.201	0.217	0.091	0.098	
								1	25	22.25	21.80	0.044	0.048	0.018	0.020	
					Edge 4	27710	2310.0	1	25	22.25	21.80	0.044	0.048	0.018	0.020	
								25	12	22.25	21.92	0.043	0.046	0.018	0.020	
ANT2	Head	QPSK	Mode A	0	Left Touch	27710	2310.0	1	25	18.50	18.47	0.349	0.351	0.188	0.189	102
								25	12	18.50	18.38	0.320	0.329	0.167	0.172	
					Left Tilt	27710	2310.0	1	25	18.50	18.47	0.402	0.405	0.202	0.203	
								25	12	18.50	18.38	0.385	0.396	0.193	0.198	
					Right Touch	27710	2310.0	1	25	18.50	18.47	0.882	0.888	0.451	0.454	
								25	12	18.50	18.38	0.899	0.924	0.441	0.453	
								50	0	18.50	18.32	0.911	0.950	0.446	0.465	
					Right Tilt	27710	2310.0	1	25	18.50	18.47	0.801	0.807	0.368	0.371	
								25	12	18.50	18.38	0.814	0.837	0.374	0.384	
								50	0	18.50	18.32	0.750	0.782	0.352	0.367	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	25	19.50	19.39	0.887	0.910	0.376	0.386	103
								25	12	19.50	19.49	0.931	0.933	0.393	0.394	
								50	0	19.50	19.23	0.665	0.707	0.281	0.299	
					Front	27710	2310.0	1	25	19.50	19.39	0.430	0.441	0.214	0.220	
								25	12	19.50	19.49	0.443	0.444	0.222	0.223	
								25	12	19.50	19.49	0.723	0.725	0.316	0.317	
	Hotspot	QPSK	Mode B	5	Edge 1	27710	2310.0	1	25	19.50	19.39	0.689	0.707	0.301	0.309	
								25	12	19.50	19.49	0.723	0.725	0.316	0.317	
					Edge 2	27710	2310.0	1	25	19.50	19.39	0.019	0.019	0.007	0.007	
								25	12	19.50	19.49	0.020	0.020	0.007	0.007	
					Edge 4	27710	2310.0	1	25	19.50	19.39	0.555	0.569	0.275	0.282	
								25	12	19.50	19.49	0.544	0.545	0.258	0.259	

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	24.50	24.50	0.669	0.669	0.372	0.372	104
								25	12	23.70	23.70	0.617	0.617	0.341	0.341	
					Left Tilt	27710	2310.0	1	25	24.50	24.50	0.172	0.172	0.094	0.094	
								25	12	23.70	23.70	0.139	0.139	0.076	0.076	
					Right Touch	27710	2310.0	1	25	24.50	24.50	0.319	0.319	0.186	0.186	
								25	12	23.70	23.70	0.324	0.324	0.191	0.191	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	27710	2310.0	1	25	24.50	24.50	0.134	0.134	0.072	0.072	
								25	12	23.70	23.70	0.110	0.110	0.060	0.060	
					Rear	27710	2310.0	1	25	20.75	20.48	0.811	0.863	0.419	0.446	
								25	12	20.75	20.42	0.851	0.917	0.439	0.473	
					Front	27710	2310.0	50	0	20.75	20.51	0.809	0.854	0.419	0.442	105
								1	25	20.75	20.48	0.438	0.466	0.232	0.247	
ANT4	Head	QPSK	Mode A	0	Edge 3	27710	2310.0	1	25	20.75	20.48	0.304	0.323	0.148	0.157	
								25	12	20.75	20.42	0.310	0.334	0.151	0.163	
					Edge 4	27710	2310.0	1	25	20.75	20.48	0.849	0.903	0.405	0.431	
								25	12	20.75	20.42	0.899	0.969	0.426	0.459	
	Body & Hotspot	QPSK	Mode B	5	Edge 3	27710	2310.0	50	0	20.75	20.51	0.882	0.931	0.419	0.442	106
								1	25	20.75	20.48	0.849	0.903	0.405	0.431	
					Rear	27710	2310.0	1	25	20.75	20.48	0.849	0.903	0.405	0.431	
								25	12	20.75	20.42	0.899	0.969	0.426	0.459	
	Hotspot	QPSK	Mode B	5	Edge 3	27710	2310.0	50	0	20.75	20.51	0.882	0.931	0.419	0.442	
								1	25	20.75	20.48	0.849	0.903	0.405	0.431	
ANT4	Head	QPSK	Mode A	0	Left Touch	27710	2310.0	1	25	20.75	20.70	0.953	0.964	0.442	0.447	
								25	12	20.75	20.69	0.922	0.935	0.429	0.435	
					Left Tilt	27710	2310.0	50	0	20.75	20.70	0.976	0.987	0.463	0.468	107
								1	25	20.75	20.70	0.513	0.519	0.233	0.236	
					Right Touch	27710	2310.0	25	12	20.75	20.69	0.501	0.508	0.227	0.230	
								1	25	20.75	20.70	0.180	0.182	0.097	0.098	
ANT4	Body & Hotspot	QPSK	Mode B	5	Right Tilt	27710	2310.0	25	12	20.75	20.69	0.177	0.179	0.096	0.097	
								1	25	20.75	20.70	0.173	0.175	0.092	0.093	
					Rear	27710	2310.0	25	12	20.75	20.69	0.163	0.165	0.087	0.088	
								1	25	21.25	20.66	0.400	0.458	0.209	0.239	
					Front	27710	2310.0	25	12	21.20	20.80	0.340	0.373	0.178	0.195	
								1	25	21.25	20.66	0.320	0.367	0.164	0.188	
ANT4	Hotspot	QPSK	Mode B	5	Edge 1	27710	2310.0	25	12	21.20	20.80	0.277	0.304	0.141	0.155	
								1	25	21.25	20.66	0.253	0.290	0.124	0.142	
					Edge 2	27710	2310.0	25	12	21.20	20.80	0.218	0.239	0.106	0.116	
								1	25	21.25	20.66	0.829	0.950	0.370	0.424	
					Edge 2	27710	2310.0	25	12	21.20	20.80	0.762	0.836	0.338	0.371	
								50	0	21.20	20.66	0.749	0.847	0.336	0.380	

10.16. LTE Band 41 Power Class 3 (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	40620	2593.0	1	49	25.70	25.53	0.200	0.208	0.104	0.108	
								50	24	24.70	24.55	0.166	0.172	0.086	0.089	
					Left Tilt	40620	2593.0	1	49	25.70	25.53	0.152	0.158	0.080	0.083	
								50	24	24.70	24.55	0.150	0.155	0.083	0.086	
					Right Touch	40620	2593.0	1	49	25.70	25.53	0.459	0.477	0.230	0.239	110
								50	24	24.70	24.55	0.403	0.417	0.204	0.211	
					Right Tilt	40620	2593.0	1	49	25.70	25.53	0.095	0.098	0.051	0.053	
								50	24	24.70	24.55	0.080	0.083	0.043	0.045	
	Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	49	22.50	21.92	0.769	0.879	0.324	0.370	
								50	24	22.50	21.87	0.787	0.910	0.333	0.385	
						40185	2549.5	1	49	22.50	21.84	0.730	0.850	0.305	0.355	
								50	24	22.50	21.96	0.762	0.864	0.318	0.360	
						40620	2593.0	1	49	22.50	21.95	0.782	0.888	0.324	0.368	
								50	24	22.50	21.96	0.808	0.915	0.334	0.378	
								100	0	22.50	21.99	0.855	0.962	0.350	0.394	111
						41055	2636.5	1	49	22.50	21.93	0.801	0.913	0.332	0.379	
								50	24	22.50	21.93	0.840	0.958	0.347	0.396	
						41490	2680.0	1	49	22.50	21.98	0.687	0.774	0.285	0.321	
								50	24	22.50	21.98	0.722	0.814	0.299	0.337	
					Front	40620	2593.0	1	49	22.50	21.95	0.430	0.488	0.190	0.216	
								50	24	22.50	21.96	0.447	0.506	0.198	0.224	
	Hotspot	QPSK	Mode B	5	Edge 2	39750	2506.0	1	49	22.50	21.92	0.525	0.600	0.235	0.269	
								50	24	22.50	21.87	0.666	0.770	0.287	0.332	
						40185	2549.5	1	49	22.50	21.84	0.561	0.653	0.254	0.296	
								50	24	22.50	21.96	0.570	0.646	0.260	0.295	
						40620	2593.0	1	49	22.50	21.95	0.784	0.890	0.338	0.384	
								50	24	22.50	21.96	0.745	0.844	0.327	0.370	
								100	0	22.50	21.99	0.720	0.810	0.318	0.358	
						41055	2636.5	1	49	22.50	21.93	0.498	0.568	0.232	0.265	
								50	24	22.50	21.93	0.640	0.730	0.280	0.319	
						41490	2680.0	1	49	22.50	21.98	0.452	0.509	0.199	0.224	
								50	24	22.50	21.98	0.442	0.498	0.196	0.221	
					Edge 3	40620	2593.0	1	49	22.50	21.95	0.150	0.170	0.062	0.070	
								50	24	22.50	21.96	0.157	0.178	0.065	0.073	
					Edge 4	40620	2593.0	1	49	22.50	21.95	0.022	0.025	0.011	0.013	
								50	24	22.50	21.96	0.021	0.024	0.011	0.012	

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	40620	2593.0	1	49	19.75	19.51	0.257	0.272	0.136	0.144	
								50	24	19.75	19.54	0.265	0.278	0.140	0.147	
					Left Tilt	40620	2593.0	1	49	19.75	19.51	0.260	0.275	0.127	0.134	
								50	24	19.75	19.54	0.272	0.286	0.132	0.139	
					Right Tilt	39750	2506.0	1	49	19.75	19.47	0.404	0.431	0.201	0.215	
								50	24	19.75	19.43	0.424	0.456	0.211	0.227	
						40185	2549.5	1	49	19.75	19.48	0.507	0.540	0.247	0.263	
								50	24	19.75	19.56	0.529	0.553	0.256	0.267	
						40620	2593.0	1	49	19.75	19.51	0.774	0.819	0.366	0.387	
								50	24	19.75	19.54	0.803	0.844	0.378	0.397	
								100	0	19.75	19.52	0.799	0.843	0.378	0.399	
						41055	2636.5	1	49	19.75	19.40	0.867	0.940	0.406	0.440	
								50	24	19.75	19.43	0.909	0.979	0.424	0.456	112
					Right Tilt	41490	2680.0	1	49	19.75	19.56	0.664	0.694	0.300	0.313	
								50	24	19.75	19.52	0.695	0.733	0.314	0.331	
						40620	2593.0	1	49	19.75	19.51	0.558	0.590	0.239	0.253	
								50	24	19.75	19.54	0.581	0.610	0.247	0.260	
	Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	49	21.00	20.90	0.731	0.748	0.279	0.286	
								50	24	21.00	20.79	0.699	0.734	0.266	0.279	
						40185	2549.5	1	49	21.00	20.75	0.933	0.988	0.357	0.378	
								50	24	21.00	20.89	0.842	0.865	0.322	0.331	
						40620	2593.0	1	49	21.00	20.90	0.965	0.987	0.386	0.395	
								50	24	21.00	20.86	0.915	0.945	0.365	0.377	
					Front	41055	2636.5	1	49	21.00	20.89	0.948	0.971	0.380	0.389	113
								50	24	21.00	21.00	0.993	0.993	0.397	0.397	
						41490	2680.0	1	49	21.00	20.92	0.973	0.991	0.365	0.372	
								50	24	21.00	20.82	0.929	0.968	0.348	0.362	
						40620	2593.0	1	49	21.00	20.90	0.359	0.367	0.183	0.187	
								50	24	21.00	20.86	0.340	0.351	0.174	0.180	
ANT3	Head	QPSK	Mode A	0	Edge 1	40620	2593.0	1	49	21.00	20.90	0.200	0.205	0.088	0.090	
								50	24	21.00	20.86	0.192	0.198	0.085	0.087	
					Edge 2	40620	2593.0	1	49	21.00	20.90	0.048	0.049	0.022	0.023	
								50	24	21.00	20.86	0.052	0.054	0.025	0.026	
					Edge 4	40620	2593.0	1	49	21.00	20.90	0.547	0.560	0.252	0.258	
								50	24	21.00	20.86	0.568	0.587	0.259	0.267	
	Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	49	21.75	21.59	0.871	0.903	0.434	0.450	
								50	24	21.75	21.57	0.879	0.917	0.437	0.456	
						40185	2549.5	1	49	21.75	21.54	0.545	0.572	0.282	0.296	
								50	24	21.75	21.56	0.560	0.585	0.288	0.301	
						40620	2593.0	1	49	21.75	21.54	0.848	0.890	0.414	0.435	
								50	24	21.75	21.44	0.880	0.945	0.429	0.461	115
					Front	41055	2636.5	1	49	21.75	21.56	0.525	0.548	0.262	0.273	
								50	24	21.75	21.57	0.537	0.560	0.268	0.280	
						41490	2680.0	1	49	21.75	21.60	0.532	0.551	0.265	0.274	
								50	24	21.75	21.57	0.439	0.458	0.218	0.227	
						40620	2593.0	1	49	21.75	21.54	0.311	0.326	0.160	0.168	
								50	24	21.75	21.44	0.307	0.330	0.157	0.169	
	Hotspot	QPSK	Mode B	5	Edge 3	40620	2593.0	1	49	21.75	21.54	0.030	0.032	0.015	0.016	
								50	24	21.75	21.44	0.030	0.032	0.015	0.016	
					Edge 4	40620	2593.0	1	49	21.75	21.54	0.533	0.559	0.257	0.270	
								50	24	21.75	21.44	0.555	0.596	0.266	0.286	

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	39750	2506.0	1	49	21.25	21.19	0.812	0.823	0.356	0.361	116
						40185	2549.5	1	49	21.25	21.09	0.949	0.985	0.437	0.453	
						40620	2593.0	1	49	21.25	21.23	0.798	0.802	0.367	0.369	
								50	24	21.20	21.06	0.698	0.720	0.314	0.324	
						41055	2636.5	1	49	21.25	21.21	0.622	0.628	0.298	0.301	
						41490	2680.0	1	49	21.25	21.08	0.583	0.606	0.277	0.288	
					Left Tilt	40620	2593.0	1	49	21.25	21.23	0.419	0.421	0.187	0.188	
								50	24	21.20	21.06	0.368	0.380	0.163	0.168	
					Right Touch	40620	2593.0	1	49	21.25	21.23	0.138	0.139	0.069	0.070	
								50	24	21.20	21.06	0.120	0.124	0.061	0.063	
					Right Tilt	40620	2593.0	1	49	21.25	21.23	0.098	0.099	0.047	0.047	
								50	24	21.20	21.06	0.087	0.090	0.040	0.042	
	Body & Hotspot	QPSK	Mode B	5	Rear	40620	2593.0	1	49	22.20	21.30	0.433	0.533	0.201	0.247	117
								50	24	21.20	21.06	0.357	0.368	0.165	0.170	
					Front	40620	2593.0	1	49	22.20	21.30	0.172	0.212	0.092	0.113	
								50	24	21.20	21.06	0.145	0.150	0.077	0.080	
	Hotspot	QPSK	Mode B	5	Edge 1	40620	2593.0	1	49	22.20	21.30	0.067	0.083	0.032	0.039	
								50	24	21.20	21.06	0.053	0.055	0.026	0.027	
					Edge 2	39750	2506.0	1	49	22.20	21.44	0.677	0.806	0.298	0.355	118
						40185	2549.5	1	49	22.20	21.42	0.731	0.876	0.323	0.387	
						40620	2593.0	1	49	22.20	21.30	0.773	0.951	0.354	0.436	
								50	24	21.20	21.06	0.614	0.634	0.281	0.290	
						41055	2636.5	1	49	22.20	21.40	0.510	0.613	0.227	0.273	
						41490	2680.0	1	49	22.20	21.46	0.461	0.547	0.206	0.245	

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	25.38	0.385	0.414	0.193	0.208	
ANT 1	Body	QPSK	Mode B	5	Rear	40521	2583.1	1	99	40719	2602.9	1	0	22.50	21.91	0.717	0.822	0.297	0.341	
ANT 2	Head	QPSK	Mode A	0	Right Touch	41292	2660.2	1	99	41490	2680.0	1	0	19.75	19.34	0.743	0.816	0.293	0.322	
ANT 2	Body	QPSK	Mode B	5	Rear	41292	2660.2	1	99	41490	2680.0	1	0	21.00	20.82	0.743	0.775	0.293	0.306	
ANT 3	Head	QPSK	Mode A	0	Left Touch	40521	2583.1	1	99	40719	2602.9	1	0	24.70	24.48	0.449	0.473	0.220	0.232	
ANT 3	Body	QPSK	Mode B	5	Rear	40521	2583.1	1	99	40719	2602.9	1	0	21.75	21.50	0.801	0.849	0.392	0.415	
ANT 4	Head	QPSK	Mode A	0	Left Touch	39750	2506.0	1	99	39948	2525.8	1	0	21.25	20.95	0.587	0.629	0.282	0.302	
ANT 4	Body	QPSK	Mode B	5	Rear	40521	2583.1	1	99	40719	2602.9	1	0	22.20	21.30	0.285	0.351	0.126	0.155	
ANT 4	Body	QPSK	Mode B	5	Edge 2	39750	2506.0	1	99	39948	2525.8	1	0	22.20	21.64	0.553	0.629	0.252	0.287	

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.

10.17. 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%	27.25	229.87	63.3%	25.70	235.18	0.477	0.466	-2.26%
ANT3	Head	43.3%	25.70	160.87	63.3%	24.70	186.81	0.667	0.574	-13.88%
ANT4	Body	43.3%	22.25	72.69	63.3%	22.20	105.05	0.951	0.658	-30.80%

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%.

10.18. LTE Band 48 (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	
ANT7	Head	QPSK	Mode A	0	Left Touch	56207	3646.7	1	49	25.70	25.46	0.362	0.383	0.144	0.152	
								50	24	24.70	24.43	0.300	0.319	0.121	0.129	
					Left Tilt	56207	3646.7	1	49	25.70	25.46	0.177	0.187	0.085	0.090	
								50	24	24.70	24.43	0.138	0.147	0.068	0.072	
					Right Touch	56207	3646.7	1	49	25.70	25.46	0.491	0.519	0.197	0.208	119
								50	24	24.70	24.43	0.424	0.451	0.160	0.170	
					Right Tilt	56207	3646.7	1	49	25.70	25.46	0.133	0.141	0.072	0.076	
								50	24	24.70	24.43	0.104	0.111	0.057	0.061	
	Body & Hotspot	QPSK	Mode B	5	Rear	55340	3560.0	1	49	21.50	21.50	0.841	0.841	0.337	0.337	
								50	24	21.50	21.50	0.863	0.863	0.354	0.354	
						55773	3603.3	1	49	21.50	21.50	0.834	0.834	0.343	0.343	
								50	24	21.50	21.50	0.852	0.852	0.352	0.352	
						56207	3646.7	1	49	21.50	21.50	0.873	0.873	0.356	0.356	120
								50	24	21.50	21.50	0.802	0.802	0.332	0.332	
					Front	56640	3690.0	100	0	21.50	21.50	0.814	0.814	0.337	0.337	
								1	49	21.50	21.50	0.757	0.757	0.309	0.309	
						56207	3646.7	50	24	21.50	21.50	0.799	0.799	0.306	0.306	
								1	49	21.50	21.50	0.414	0.414	0.178	0.178	
						56207	3646.7	50	24	21.50	21.50	0.420	0.420	0.179	0.179	
								50	24	21.50	21.50	0.420	0.420	0.179	0.179	
	Hotspot	QPSK	Mode B	5	Edge 2	55340	3560.0	1	49	21.50	21.50	0.930	0.930	0.357	0.357	
								50	24	21.50	21.50	0.974	0.974	0.373	0.373	
						55773	3603.3	1	49	21.50	21.50	0.901	0.901	0.353	0.353	
								50	24	21.50	21.50	0.906	0.906	0.352	0.352	
						56207	3646.7	1	49	21.50	21.50	0.966	0.966	0.374	0.374	
								50	24	21.50	21.50	0.977	0.977	0.377	0.377	121
					Edge 3	56640	3690.0	100	0	21.50	21.50	0.965	0.965	0.372	0.372	
								1	49	21.50	21.50	0.853	0.853	0.324	0.324	
						56207	3646.7	50	24	21.50	21.50	0.851	0.851	0.347	0.347	
								1	49	21.50	21.50	0.267	0.267	0.119	0.119	
								50	24	21.50	21.50	0.260	0.260	0.117	0.117	

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	
ANT8	Head	QPSK	Mode A	0	Left Touch	56207	3646.7	1	49	20.25	19.95	0.213	0.228	0.084	0.090	
								50	24	20.25	20.00	0.221	0.234	0.086	0.091	
					Left Tilt	56207	3646.7	1	49	20.25	19.95	0.292	0.313	0.109	0.117	
								50	24	20.25	20.00	0.305	0.323	0.114	0.121	
					Right Touch	55340	3560.0	1	49	20.25	19.90	0.713	0.773	0.284	0.308	
								50	24	20.25	19.98	0.746	0.793	0.298	0.317	
						55773	3603.3	1	49	20.25	19.95	0.716	0.767	0.282	0.302	
								50	24	20.25	19.87	0.744	0.812	0.292	0.319	
						56207	3646.7	1	49	20.25	19.95	0.760	0.813	0.290	0.310	
								50	24	20.25	20.00	0.783	0.829	0.297	0.315	
								100	0	20.25	19.93	0.710	0.765	0.272	0.293	
						56640	3690.0	1	49	20.25	20.13	0.929	0.955	0.349	0.359	
								50	24	20.25	20.25	0.953	0.953	0.356	0.356	
					Right Tilt	55340	3560.0	1	49	20.25	19.90	0.852	0.923	0.314	0.340	
								50	24	20.25	19.98	0.889	0.946	0.327	0.348	
						55773	3603.3	1	49	20.25	19.95	0.860	0.922	0.313	0.335	
								50	24	20.25	19.87	0.903	0.986	0.329	0.359	122
						56207	3646.7	1	49	20.25	19.95	0.846	0.906	0.305	0.326	
								50	24	20.25	20.00	0.872	0.924	0.314	0.333	
								100	0	20.25	19.93	0.888	0.956	0.320	0.345	
						56640	3690.0	1	49	20.25	20.13	0.831	0.855	0.299	0.307	
								50	24	20.25	20.25	0.856	0.856	0.307	0.307	
	Body & Hotspot	QPSK	Mode B	5	Rear	55340	3560.0	1	49	21.50	21.42	0.930	0.947	0.337	0.343	
								50	24	21.50	21.38	0.824	0.847	0.298	0.306	
						55773	3603.3	1	49	21.50	21.41	0.941	0.961	0.336	0.343	123
								50	24	21.50	21.36	0.836	0.863	0.297	0.307	
						56207	3646.7	1	49	21.50	21.48	0.827	0.831	0.289	0.290	
								50	24	21.50	21.11	0.745	0.816	0.260	0.285	
								100	0	21.50	21.44	0.804	0.815	0.281	0.285	
						56640	3690.0	1	49	21.50	21.50	0.882	0.882	0.312	0.312	
								50	24	21.50	21.47	0.855	0.861	0.294	0.296	
					Front	56207	3646.7	1	49	21.50	21.48	0.605	0.608	0.246	0.247	
								50	24	21.50	21.11	0.545	0.597	0.220	0.241	
	Hotspot	QPSK	Mode B	5	Edge 1	56207	3646.7	1	49	21.50	21.48	0.602	0.605	0.189	0.190	
								50	24	21.50	21.11	0.537	0.588	0.169	0.185	
					Edge 4	55340	3560.0	1	49	21.50	21.42	0.935	0.952	0.376	0.383	
								50	24	21.50	21.38	0.831	0.854	0.334	0.343	
						55773	3603.3	1	49	21.50	21.41	0.959	0.979	0.383	0.391	124
								50	24	21.50	21.36	0.820	0.847	0.329	0.340	
						56207	3646.7	1	49	21.50	21.48	0.887	0.891	0.349	0.351	
								50	24	21.50	21.11	0.791	0.866	0.311	0.340	
								100	0	21.50	21.44	0.804	0.815	0.322	0.326	
						56640	3690.0	1	49	21.50	21.50	0.864	0.864	0.345	0.345	
								50	24	21.50	21.47	0.721	0.726	0.290	0.292	

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	
ANT9	Head	QPSK	Mode A	0	Left Touch	56207	3646.7	1	49	25.70	25.70	0.331	0.331	0.118	0.118	125
								50	24	24.70	24.62	0.322	0.328	0.110	0.112	
					Left Tilt	56207	3646.7	1	49	25.70	25.70	0.111	0.111	0.064	0.064	
								50	24	24.70	24.62	0.092	0.094	0.056	0.057	
					Right Touch	56207	3646.7	1	49	25.70	25.70	0.239	0.239	0.092	0.092	
								50	24	24.70	24.62	0.182	0.185	0.072	0.073	
					Right Tilt	56207	3646.7	1	49	25.70	25.70	0.149	0.149	0.074	0.074	
								50	24	24.70	24.62	0.138	0.141	0.072	0.073	
	Body & Hotspot	QPSK	Mode B	5	Rear	55340	3560.0	50	24	23.00	23.00	0.935	0.935	0.381	0.381	126
						55773	3603.3	50	24	23.00	23.00	0.931	0.931	0.405	0.405	
						56207	3646.7	1	49	23.00	23.00	0.774	0.774	0.321	0.321	
								50	24	23.00	23.00	0.820	0.820	0.341	0.341	
					Front	56640	3690.0	50	24	23.00	23.00	0.763	0.763	0.327	0.327	
								1	49	23.00	23.00	0.655	0.655	0.274	0.274	
						56207	3646.7	50	24	23.00	23.00	0.674	0.674	0.280	0.280	
								1	49	23.00	23.00	0.655	0.655	0.274	0.274	
						56640	3690.0	50	24	23.00	23.00	0.934	0.934	0.371	0.371	127
								1	49	23.00	23.00	0.934	0.934	0.371	0.371	
	Hotspot	QPSK	Mode B	5	Edge 3	56207	3646.7	1	49	23.00	23.00	0.194	0.194	0.093	0.093	
								50	24	23.00	23.00	0.199	0.199	0.095	0.095	
					Edge 4	55340	3560.0	1	49	23.00	23.00	0.939	0.939	0.370	0.370	
								50	24	23.00	23.00	0.931	0.931	0.340	0.340	
						55773	3603.3	1	49	23.00	23.00	0.970	0.970	0.386	0.386	
								50	24	23.00	23.00	0.971	0.971	0.357	0.357	
						56207	3646.7	1	49	23.00	23.00	0.977	0.977	0.384	0.384	
								50	24	23.00	23.00	0.969	0.969	0.365	0.365	
						56640	3690.0	100	0	23.00	23.00	0.944	0.944	0.367	0.367	
								1	49	23.00	23.00	0.980	0.980	0.374	0.374	
								50	24	23.00	23.00	0.934	0.934	0.371	0.371	
ANT4	Head	QPSK	Mode A	0	Left Touch	55340	3560.0	1	49	20.00	19.90	0.948	0.970	0.372	0.381	
								50	24	20.00	19.88	0.962	0.989	0.377	0.388	
						55773	3603.3	1	49	20.00	19.92	0.701	0.714	0.253	0.258	
								50	24	20.00	19.82	0.719	0.749	0.256	0.267	
						56207	3646.7	1	49	20.00	19.43	0.741	0.845	0.284	0.324	
								50	24	20.00	19.66	0.755	0.816	0.276	0.298	
								100	0	20.00	19.55	0.774	0.859	0.302	0.335	
					56640	3690.0	3690.0	1	49	20.00	19.89	0.968	0.993	0.337	0.346	128
								50	24	20.00	19.89	0.861	0.883	0.326	0.334	
					Left Tilt	56207	3646.7	1	49	20.00	19.73	0.656	0.698	0.250	0.266	
								50	24	20.00	19.96	0.645	0.651	0.246	0.248	
					Right Touch	56207	3646.7	1	49	20.00	19.73	0.292	0.311	0.123	0.131	
								50	24	20.00	19.96	0.288	0.291	0.128	0.129	
					Right Tilt	56207	3646.7	1	49	20.00	19.73	0.232	0.247	0.100	0.106	
								50	24	20.00	19.96	0.232	0.234	0.099	0.100	
	Body & Hotspot	QPSK	Mode B	5	Rear	56207	3646.7	1	49	21.50	21.40	0.577	0.591	0.232	0.238	129
								50	24	21.50	21.37	0.433	0.446	0.184	0.190	
					Front	56207	3646.7	1	49	21.50	21.40	0.395	0.405	0.169	0.173	
								50	24	21.50	21.37	0.335	0.345	0.152	0.157	
	Hotspot	QPSK	Mode B	5	Edge 1	56207	3646.7	1	49	21.50	21.40	0.107	0.110	0.044	0.045	
								50	24	21.50	21.37	0.105	0.108	0.042	0.043	
					Edge 2	55340	3560.0	1	49	21.50	21.43	0.615	0.625	0.249	0.253	
								50	24	21.50	21.32	0.605	0.630	0.250	0.260	
						55773	3603.3	1	49	21.50	21.45	0.610	0.617	0.247	0.250	
								50	24	21.50	21.44	0.616	0.625	0.249	0.252	
						56207	3646.7	1	49	21.50	21.40	0.856	0.877	0.345	0.353	
								50	24	21.50	21.30	0.774	0.810	0.305	0.319	
						56640	3690.0	100	0	21.50	21.44	0.847	0.859	0.325	0.330	
								1	49	21.50	21.37	0.887	0.914	0.359	0.370	
								50	24	21.50	21.48	0.975	0.980	0.387	0.389	130

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 Allocatio	RB offset	Ch #.	Freq. (MHz)	RB Allocatio	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	25.31	0.787	0.861	0.312	0.342	
ANT 7	Body	QPSK	Mode B	5	Rear	55340	3560.0	1	99	55538	3579.8	1	0	21.50	21.28	0.777	0.818	0.317	0.334	
ANT 7	Body	QPSK	Mode B	5	Edge 2	55340	3560.0	1	99	55538	3579.8	1	0	21.50	21.31	0.954	0.997	0.401	0.419	
ANT 4	Head	QPSK	Mode A	0	Left Touch	56442	3607.2	1	99	56640	3690.0	1	0	20.00	19.92	0.819	0.834	0.271	0.276	
ANT 4	Body	QPSK	Mode B	5	Rear	55891	3615.1	1	99	56089	3634.9	1	0	21.50	21.46	0.879	0.886	0.350	0.353	
ANT 4	Hotspot	QPSK	Mode B	5	Edge 2	56442	3607.2	1	99	56640	3690.0	1	0	21.50	21.36	0.909	0.940	0.318	0.329	
ANT 9	Head	QPSK	Mode A	0	Left Touch	55891	3615.1	1	99	56089	3634.9	1	0	25.70	25.69	0.263	0.264	0.096	0.096	
ANT 9	Body	QPSK	Mode B	5	Edge 4	55340	3560.0	1	99	55538	3579.8	1	0	23.00	22.76	0.869	0.918	0.359	0.379	
ANT 8	Head	QPSK	Mode A	0	Right Tilt	55891	3615.1	1	99	56089	3634.9	1	0	20.25	20.07	0.800	0.835	0.299	0.312	
ANT 8	Body	QPSK	Mode B	5	Rear	55891	3615.1	1	99	56089	3634.9	1	0	21.50	21.25	0.474	0.502	0.167	0.177	
ANT 8	Hotspot	QPSK	Mode B	5	Edge 4	55891	3615.1	1	99	56089	3634.9	1	0	21.50	21.25	0.529	0.560	0.222	0.235	

Note(s):

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

10.19. 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	25.60	0.199	0.204	0.133	0.136	
								50	24	24.70	24.58	0.163	0.168	0.108	0.111	
					Left Tilt	132322	1745.0	1	49	25.70	25.60	0.175	0.179	0.107	0.109	
								50	24	24.70	24.58	0.141	0.145	0.086	0.088	
					Right Touch	132322	1745.0	1	49	25.70	25.60	0.398	0.407	0.253	0.259	131
								50	24	24.70	24.58	0.320	0.329	0.203	0.209	
					Right Tilt	132322	1745.0	1	49	25.70	25.60	0.150	0.153	0.092	0.094	
								50	24	24.70	24.58	0.123	0.126	0.075	0.077	
	Body & Hotspot	QPSK	Mode B	5	Rear	132322	1745.0	1	49	18.50	18.15	0.700	0.759	0.353	0.383	132
								50	24	18.50	18.20	0.704	0.754	0.354	0.379	
					Front	132322	1745.0	1	49	18.50	18.15	0.552	0.598	0.263	0.285	
								50	24	18.50	18.20	0.590	0.632	0.280	0.300	
	Hotspot	QPSK	Mode B	5	Edge 2	132322	1745.0	1	49	18.50	18.15	0.261	0.283	0.136	0.147	
								50	24	18.50	18.20	0.279	0.299	0.147	0.158	
					Edge 3	132072	1720.0	1	49	18.50	18.18	0.772	0.831	0.362	0.390	
								50	24	18.50	18.27	0.799	0.842	0.374	0.394	
						132322	1745.0	1	49	18.50	18.15	0.875	0.948	0.366	0.397	
								50	24	18.50	18.20	0.892	0.956	0.418	0.448	133
						132572	1770.0	100	0	18.50	18.22	0.864	0.922	0.405	0.432	
								1	49	18.50	18.21	0.848	0.906	0.397	0.424	
						132572	1770.0	50	24	18.50	18.17	0.850	0.917	0.398	0.429	
								1	49	18.50	18.15	0.011	0.012	0.006	0.007	
					Edge 4	132322	1745.0	1	49	18.50	18.15	0.011	0.012	0.006	0.007	
								50	24	18.50	18.20	0.010	0.011	0.006	0.006	
ANT2	Head	QPSK	Mode A	0	Left Touch	132322	1745.0	1	49	20.00	19.60	0.549	0.602	0.259	0.284	
								50	24	20.00	19.60	0.553	0.606	0.263	0.288	
					Left Tilt	132322	1745.0	1	49	20.00	19.60	0.628	0.689	0.285	0.313	
								50	24	20.00	19.60	0.665	0.729	0.300	0.329	
					Right Touch	132072	1720.0	1	49	20.00	19.48	0.857	0.966	0.405	0.457	
								50	24	20.00	19.60	0.884	0.969	0.416	0.456	
						132322	1745.0	1	49	20.00	19.50	0.738	0.828	0.342	0.384	
								50	24	20.00	19.60	0.738	0.809	0.350	0.384	
						132572	1770.0	100	0	20.00	19.55	0.732	0.812	0.342	0.379	
								1	49	20.00	19.60	0.662	0.726	0.318	0.349	
					Right Tilt	132072	1720.0	50	24	20.00	19.53	0.674	0.751	0.324	0.361	
								1	49	20.00	19.48	0.877	0.989	0.406	0.458	
						132322	1745.0	50	24	20.00	19.60	0.902	0.989	0.416	0.456	134
								1	49	20.00	19.50	0.713	0.800	0.334	0.375	
						132572	1770.0	50	24	20.00	19.60	0.733	0.804	0.343	0.376	
								100	0	20.00	19.55	0.729	0.809	0.342	0.379	
						132572	1770.0	1	49	20.00	19.60	0.649	0.712	0.307	0.337	
								50	24	20.00	19.53	0.665	0.741	0.305	0.340	
	Body & Hotspot	QPSK	Mode B	5	Rear	132322	1745.0	1	49	18.25	17.89	0.656	0.713	0.317	0.345	
								50	24	18.25	17.90	0.672	0.729	0.324	0.352	135
					Front	132322	1745.0	1	49	18.25	17.89	0.494	0.537	0.231	0.251	
								50	24	18.25	17.90	0.518	0.562	0.243	0.264	
	Hotspot	QPSK	Mode B	5	Edge 1	132072	1720.0	1	49	18.25	17.87	0.834	0.910	0.370	0.404	
								50	24	18.25	17.93	0.864	0.930	0.383	0.412	136
						132322	1745.0	1	49	18.25	17.89	0.818	0.889	0.364	0.396	
								50	24	18.25	17.90	0.846	0.918	0.376	0.408	
					Edge 2	132572	1770.0	100	0	18.25	17.90	0.846	0.918	0.374	0.406	
								1	49	18.25	17.82	0.841	0.927	0.372	0.410	
						132322	1745.0	50	24	18.25	17.86	0.845	0.925	0.375	0.411	
								1	49	18.25	17.89	0.011	0.011	0.005	0.006	
					Edge 4	132322	1745.0	50	24	18.25	17.90	0.011	0.012	0.006	0.006	
						132322	1745.0	1	49	18.25	17.89	0.120	0.130	0.061	0.066	
								50	24	18.25	17.90	0.130	0.141	0.070	0.076	

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	24.49	0.578	0.607	0.363	0.381	137
								50	24	23.70	23.62	0.510	0.519	0.322	0.328	
					Left Tilt	132322	1745.0	1	49	24.70	24.49	0.063	0.066	0.038	0.040	
								50	24	23.70	23.62	0.066	0.067	0.040	0.041	
					Right Touch	132322	1745.0	1	49	24.70	24.49	0.230	0.241	0.156	0.164	
								50	24	23.70	23.62	0.184	0.187	0.126	0.128	
	Body & Hotspot	QPSK	Mode B	5	Rear	132072	1720.0	1	49	20.75	20.17	0.779	0.890	0.436	0.498	
								50	24	20.75	20.01	0.801	0.949	0.447	0.530	138
						132322	1745.0	1	49	20.75	20.24	0.800	0.900	0.447	0.503	
								50	24	20.75	20.38	0.818	0.891	0.458	0.499	
						132572	1770.0	1	49	20.75	20.30	0.726	0.805	0.409	0.454	
								50	24	20.75	20.36	0.747	0.817	0.419	0.458	
					Front	132322	1745.0	1	49	20.75	20.24	0.325	0.365	0.196	0.220	
								50	24	20.75	20.38	0.338	0.368	0.204	0.222	
	Hotspot	QPSK	Mode B	5	Edge 3	132322	1745.0	1	49	20.75	20.24	0.142	0.160	0.067	0.075	
								50	24	20.75	20.38	0.147	0.160	0.069	0.075	
					Edge 4	132322	1745.0	1	49	20.75	20.24	0.462	0.520	0.212	0.238	
								50	24	20.75	20.38	0.541	0.589	0.288	0.314	
ANT4	Head	QPSK	Mode A	0	Left Touch	132072	1720.0	1	49	20.00	19.67	0.701	0.756	0.345	0.372	
								50	24	20.00	19.59	0.680	0.747	0.336	0.369	
						132322	1745.0	1	49	20.00	19.68	0.883	0.950	0.425	0.457	
								50	24	20.00	19.62	0.901	0.983	0.431	0.470	139
					Left Tilt	132572	1770.0	1	49	20.00	19.61	0.802	0.877	0.394	0.431	
								50	24	20.00	19.67	0.820	0.886	0.403	0.435	
					Right Touch	132322	1745.0	1	49	20.00	19.68	0.385	0.414	0.181	0.195	
								50	24	20.00	19.62	0.400	0.436	0.186	0.203	
	Body & Hotspot	QPSK	Mode B	5	Right Tilt	132322	1745.0	1	49	20.00	19.68	0.209	0.225	0.125	0.135	
								50	24	20.00	19.62	0.213	0.232	0.126	0.137	
					Rear	132322	1745.0	1	49	20.00	19.68	0.139	0.150	0.077	0.083	
								50	24	20.00	19.62	0.141	0.154	0.079	0.086	
					Front	132322	1745.0	1	49	21.25	21.23	0.643	0.646	0.331	0.333	140
								50	24	21.25	20.90	0.522	0.566	0.271	0.294	
	Hotspot	QPSK	Mode B	5	Edge 1	132322	1745.0	1	49	21.25	21.23	0.444	0.446	0.227	0.228	
								50	24	21.25	20.90	0.358	0.388	0.183	0.198	
					Edge 2	132072	1720.0	1	49	21.25	21.12	0.249	0.250	0.110	0.111	
								50	24	21.25	20.90	0.198	0.215	0.087	0.095	
					Edge 2	132322	1745.0	1	49	21.25	21.23	0.800	0.825	0.386	0.398	
								50	24	21.25	20.90	0.657	0.712	0.317	0.344	
					Edge 2	132572	1770.0	1	49	21.25	21.23	0.899	0.903	0.435	0.437	
								50	24	21.25	20.87	0.740	0.802	0.357	0.387	
					Edge 2	132572	1770.0	1	49	21.25	21.25	0.728	0.795	0.351	0.383	
								50	24	21.25	20.88	0.954	0.954	0.462	0.462	141
					Edge 2	132572	1770.0	1	49	21.25	21.25	0.954	0.954	0.462	0.462	
								50	24	21.25	20.88	0.782	0.851	0.377	0.410	

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.

10.20. 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	836.6	1	53	25.70	25.46	0.202	0.213	0.168	0.178	197
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	167300	836.6	1	53	25.25	25.18	0.516	0.524	0.320	0.325	198
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 2	167300	836.6	1	53	25.25	25.18	0.418	0.425	0.297	0.302	199
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	836.6	1	53	24.50	24.40	0.652	0.667	0.454	0.465	200
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	167300	836.6	1	53	24.50	24.33	0.354	0.368	0.245	0.255	201
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 4	167300	836.6	1	53	24.50	24.33	0.274	0.285	0.202	0.210	202

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.

10.21. 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	25.51	0.112	0.117	0.085	0.089	203
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	141500	707.5	1	40	25.70	25.51	0.330	0.345	0.193	0.202	204
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 2	141500	707.5	1	40	25.70	25.51	0.330	0.345	0.180	0.188	205
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	Left Tilt	141500	707.5	1	40	24.50	24.26	0.388	0.410	0.197	0.208	206
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	141500	707.5	1	40	24.50	24.26	0.239	0.253	0.141	0.149	207
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 4	141500	707.5	1	40	24.50	24.26	0.181	0.191	0.100	0.106	208

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.

10.22. 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	25.51	0.278	0.290	0.173	0.181	209
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	376500	1882.5	50	28	17.50	17.36	0.504	0.520	0.248	0.256	210
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 3	376500	1882.5	50	28	17.50	17.36	0.822	0.848	0.362	0.373	211
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	381000	1905.0	1	53	21.50	21.10	0.608	0.666	0.296	0.324	212
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	376500	1882.5	50	28	19.25	19.04	0.581	0.609	0.280	0.294	213
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 1	381000	1905.0	50	28	19.25	18.90	0.759	0.822	0.325	0.352	214
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	376500	1882.5	1	53	24.70	24.64	0.393	0.398	0.243	0.246	215
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	372000	1860.0	50	28	21.25	20.95	0.791	0.848	0.441	0.473	216
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 4	381000	1905.0	1	53	21.25	20.95	0.791	0.847	0.413	0.442	217
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	376500	1882.5	1	53	20.50	20.34	0.936	0.971	0.464	0.481	218
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	376500	1882.5	1	53	21.75	21.49	0.429	0.455	0.217	0.230	219
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 2	381000	1905.0	1	53	21.75	21.47	0.684	0.729	0.323	0.344	220

10.23. 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	25.25	25.01	0.442	0.467	0.223	0.235	221
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	518600	2593.0	270	0	20.50	20.29	0.579	0.608	0.250	0.262	222
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	518600	2593.0	135	69	17.75	17.55	0.660	0.691	0.305	0.319	223
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	518600	2593.0	135	69	19.00	18.86	0.699	0.721	0.276	0.285	224
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	518600	2593.0	1	137	24.50	24.39	0.586	0.601	0.236	0.242	225
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	518600	2593.0	135	69	19.75	19.63	0.659	0.678	0.327	0.336	226
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	518600	2593.0	1	137	19.25	19.14	0.518	0.532	0.252	0.259	227
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	518600	2593.0	1	137	20.25	20.15	0.253	0.259	0.119	0.122	228
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 2	518600	2593.0	1	137	20.25	20.15	0.471	0.482	0.218	0.223	229

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 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	Mode A	0	Right Touch	349000	1745.0	1	53	25.70	25.61	0.168	0.171	0.107	0.109	230
	Body & Hotspot	DFT-s-OFDM	Mode B	5	Rear	349000	1745.0	50	28	18.50	18.36	0.527	0.544	0.259	0.268	231
	Hotspot	DFT-s-OFDM	Mode B	5	Edge 3	349000	1745.0	50	28	18.50	18.36	0.764	0.789	0.343	0.354	232
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	Mode A	0	Right Tilt	349000	1745.0	50	28	20.00	19.73	0.534	0.568	0.240	0.255	233
	Body & Hotspot	DFT-s-OFDM	Mode B	5	Rear	349000	1745.0	50	28	18.25	18.09	0.501	0.520	0.240	0.249	234
	Hotspot	DFT-s-OFDM	Mode B	5	Edge 1	349000	1745.0	50	28	18.25	18.09	0.686	0.711	0.297	0.308	235
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	Mode A	0	Left Touch	349000	1745.0	1	53	24.70	24.60	0.286	0.293	0.178	0.182	236
	Body & Hotspot	DFT-s-OFDM	Mode B	5	Rear	349000	1745.0	50	28	20.75	20.56	0.626	0.653	0.336	0.351	237
	Hotspot	DFT-s-OFDM	Mode B	5	Edge 4	349000	1745.0	50	28	20.75	20.56	0.534	0.557	0.274	0.286	238
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	Mode A	0	Left Touch	349000	1745.0	50	28	20.00	19.89	0.705	0.723	0.344	0.353	239
	Body & Hotspot	DFT-s-OFDM	Mode B	5	Rear	349000	1745.0	1	53	21.25	21.20	0.317	0.321	0.162	0.164	240
	Hotspot	DFT-s-OFDM	Mode B	5	Edge 2	349000	1745.0	1	53	21.25	21.20	0.534	0.541	0.262	0.265	241

10.25. 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	25.57	0.534	0.550	0.185	0.191	
								135	69	25.70	25.38	0.557	0.600	0.190	0.205	
					Left Tilt	650000	3750.0	1	137	25.70	25.57	0.247	0.255	0.094	0.097	
								135	69	25.70	25.38	0.226	0.243	0.085	0.092	
					Right Touch	650000	3750.0	1	137	25.70	25.57	0.878	0.905	0.297	0.306	242
								135	69	25.70	25.38	0.827	0.890	0.295	0.318	
								270	0	24.70	24.33	0.745	0.811	0.252	0.274	
					Right Tilt	650000	3750.0	1	137	25.70	25.57	0.131	0.135	0.052	0.054	
								135	69	25.70	25.38	0.146	0.157	0.060	0.064	
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	650000	3750.0	1	137	19.75	19.44	0.700	0.751	0.256	0.275	
								135	69	19.75	19.66	0.740	0.755	0.255	0.260	243
					Front	650000	3750.0	1	137	19.75	19.44	0.372	0.399	0.140	0.150	
								135	69	19.75	19.66	0.363	0.370	0.136	0.139	
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 2	650000	3750.0	1	137	19.75	19.44	0.870	0.934	0.315	0.338	244
								135	69	19.75	19.66	0.859	0.877	0.310	0.316	
					Edge 3	650000	3750.0	270	0	19.75	19.65	0.877	0.898	0.317	0.325	
								1	137	19.75	19.44	0.310	0.333	0.106	0.114	
								135	69	19.75	19.66	0.280	0.286	0.094	0.096	
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.
ANT8	Head	DFT-s-OFDM QPSK	Mode A	0	Left Touch	650000	3750.0	1	137	18.00	17.93	0.317	0.322	0.120	0.122	
								135	69	18.00	17.93	0.392	0.398	0.122	0.124	
					Left Tilt	650000	3750.0	1	137	18.00	17.93	0.567	0.576	0.172	0.175	
								135	69	18.00	17.93	0.503	0.511	0.151	0.153	
					Right Touch	650000	3750.0	1	137	18.00	17.93	0.929	0.944	0.346	0.351	
								135	69	18.00	17.93	0.931	0.946	0.343	0.348	245
								270	0	18.00	17.79	0.868	0.910	0.319	0.335	
					Right Tilt	650000	3750.0	1	137	18.00	17.93	0.660	0.670	0.248	0.252	
								135	69	18.00	17.93	0.615	0.625	0.236	0.240	
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	650000	3750.0	1	137	18.50	18.44	0.846	0.857	0.290	0.294	
								135	69	18.50	18.30	0.882	0.924	0.304	0.318	246
					Front	650000	3750.0	270	0	18.50	18.37	0.817	0.841	0.281	0.289	
								1	137	18.50	18.44	0.441	0.447	0.172	0.174	
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 1	650000	3750.0	135	69	18.50	18.30	0.432	0.452	0.168	0.176	
								1	137	18.50	18.44	0.788	0.798	0.235	0.238	
					Edge 4	650000	3750.0	135	69	18.50	18.30	0.796	0.834	0.245	0.257	
								1	137	18.50	18.44	0.649	0.657	0.264	0.267	
								135	69	18.50	18.30	0.565	0.592	0.216	0.226	

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	
ANT9	Head	DFT-s-OFDM QPSK	Mode A	0	Left Touch	650000	3750.0	1	137	25.70	25.59	0.509	0.522	0.161	0.165	247
								135	69	25.70	25.49	0.451	0.473	0.168	0.176	
								1	137	25.70	25.59	0.173	0.177	0.061	0.062	
					Left Tilt	650000	3750.0	135	69	25.70	25.49	0.129	0.135	0.046	0.048	
								1	137	25.70	25.59	0.344	0.353	0.132	0.135	
								135	69	25.70	25.49	0.359	0.376	0.134	0.141	
					Right Touch	650000	3750.0	1	137	25.70	25.59	0.337	0.345	0.120	0.123	
								135	69	25.70	25.49	0.243	0.255	0.091	0.095	
					Right Tilt	650000	3750.0	1	137	25.70	25.59	0.337	0.345	0.120	0.123	
								135	69	25.70	25.49	0.243	0.255	0.091	0.095	
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	650000	3750.0	1	137	20.75	20.31	0.567	0.627	0.220	0.243	
								135	69	20.75	20.11	0.682	0.791	0.267	0.310	248
					Front	650000	3750.0	1	137	20.75	20.31	0.415	0.459	0.163	0.180	
								135	69	20.75	20.11	0.473	0.548	0.185	0.214	
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 3	650000	3750.0	1	137	20.75	20.31	0.347	0.384	0.132	0.146	
								135	69	20.75	20.11	0.324	0.376	0.126	0.146	
					Edge 4	650000	3750.0	1	137	20.75	20.31	0.813	0.899	0.272	0.301	
								135	69	20.75	20.11	0.826	0.958	0.276	0.320	249
								270	0	20.75	20.31	0.795	0.879	0.267	0.295	
								270	0	20.75	20.31	0.795	0.879	0.267	0.295	

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	16.25	16.10	0.914	0.946	0.345	0.357	250
								135	69	16.25	16.16	0.906	0.925	0.344	0.351	
								270	0	16.25	16.19	0.797	0.808	0.278	0.282	
					Left Tilt	650000	3750.0	1	137	16.25	16.10	0.327	0.339	0.118	0.122	
								135	69	16.25	16.16	0.414	0.423	0.150	0.153	
								1	137	16.25	16.10	0.238	0.246	0.095	0.098	
					Right Touch	650000	3750.0	135	69	16.25	16.16	0.129	0.132	0.050	0.051	
								1	137	16.25	16.10	0.211	0.218	0.088	0.092	
					Right Tilt	650000	3750.0	135	69	16.25	16.16	0.131	0.134	0.052	0.053	
	Body & Hotspot	DFT-s-OFDM QPSK	Mode B	5	Rear	650000	3750.0	1	137	17.00	16.83	0.461	0.480	0.170	0.177	
								135	69	17.00	16.87	0.524	0.540	0.203	0.209	251
					Front	650000	3750.0	1	137	17.00	16.83	0.316	0.329	0.116	0.121	
								135	69	17.00	16.87	0.285	0.294	0.102	0.105	
	Hotspot	DFT-s-OFDM QPSK	Mode B	5	Edge 1	650000	3750.0	1	137	17.00	16.83	0.094	0.097	0.037	0.038	
								135	69	17.00	16.87	0.095	0.098	0.039	0.040	
					Edge 2	650000	3750.0	1	137	17.00	16.83	0.953	0.992	0.357	0.372	252
								135	69	17.00	16.87	0.898	0.925	0.326	0.336	
								270	0	17.00	16.71	0.763	0.815	0.290	0.310	
								270	0	17.00	16.71	0.763	0.815	0.290	0.310	

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. 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.

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	1.010	100.0%	22.50	22.50	0.637	0.637	0.345	0.345	142
						Left Tilt	6	2437	1.082	100.0%	22.50	22.50					
						Right Touch	6	2437	0.476	100.0%	22.50	22.50	0.321	0.321	0.162	0.162	
						Right Tilt	6	2437	0.208	100.0%	22.50	22.50					
		Body & Hotspot	802.11b	Mode B	5	Rear	1	2412	1.410	100.0%	20.25	20.25	1.010	1.010	0.487	0.487	
							6	2437	1.300	100.0%	20.25	20.25	1.020	1.020	0.490	0.490	143
							11	2462	1.690	100.0%	20.25	20.25	0.924	0.924	0.469	0.469	
						Front	6	2437	0.917	100.0%	20.25	20.25	0.568	0.568	0.289	0.289	
		Hotspot	802.11b	Mode B	5	Edge 3	6	2437	0.184	100.0%	20.25	20.25					
							1	2412	1.330	100.0%	20.25	20.25	1.110	1.110	0.474	0.474	
							6	2437	1.530	100.0%	20.25	20.25	1.160	1.160	0.494	0.494	144
							11	2462	1.560	100.0%	20.25	20.25	1.070	1.070	0.500	0.500	
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	1.350	100.0%	19.50	19.50	0.988	0.988	0.438	0.438	
							6	2437	1.378	100.0%	19.50	19.50	0.978	0.978	0.432	0.432	
							11	2462	1.490	100.0%	19.50	19.50	1.060	1.060	0.462	0.462	145
						Left Tilt	6	2437	0.849	100.0%	19.50	19.50	0.558	0.558	0.237	0.237	
		Body & Hotspot	802.11b	Mode B	5	Right Touch	6	2437	0.397	100.0%	19.50	19.50					
						Right Tilt	6	2437	0.289	100.0%	19.50	19.50					
						Rear	6	2437	0.773	100.0%	21.00	21.00	0.537	0.537	0.251	0.251	146
						Front	6	2437	0.786	100.0%	21.00	21.00					
		Hotspot	802.11b	Mode B	5	Edge 1	6	2437	0.285	100.0%	21.00	21.00					
							1	2412	1.170	100.0%	21.00	21.00	1.010	1.010	0.429	0.429	
							6	2437	1.310	100.0%	21.00	21.00	1.090	1.090	0.458	0.458	147
							11	2462	1.190	100.0%	21.00	21.00	1.050	1.050	0.444	0.444	
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	Head	802.11b	Mode A	0	Left Touch	6	2437	0.493	100.0%	19.00	19.00	0.398	0.398	0.199	0.199	148
						Left Tilt	6	2437	0.128	100.0%	19.00	19.00					
						Right Touch	6	2437	0.249	100.0%	19.00	19.00	0.167	0.167	0.071	0.071	
						Right Tilt	6	2437	0.110	100.0%	19.00	19.00					
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.631	100.0%	17.25	17.25	0.396	0.396	0.191	0.191	149
						Front	6	2437	0.478	100.0%	17.25	17.25					
		Hotspot	802.11b	Mode B	5	Edge 3	6	2437	0.107	100.0%	17.25	17.25					
						Edge 4	6	2437	0.654	100.0%	17.25	17.25	0.557	0.557	0.232	0.232	150
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	0.427	100.0%	14.75	14.75	0.276	0.276	0.121	0.121	151
						Left Tilt	6	2437	0.213	100.0%	14.75	14.75					
						Right Touch	6	2437	0.109	100.0%	14.75	14.75					
						Right Tilt	6	2437	0.083	100.0%	14.75	14.75					
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.481	100.0%	17.75	17.75	0.265	0.265	0.123	0.123	152
						Front	6	2437	0.319	100.0%	17.75	17.75					
		Hotspot	802.11b	Mode B	5	Edge 1	6	2437	0.105	100.0%	17.75	17.75					
						Edge 2	6	2437	0.688	100.0%	17.75	17.75	0.432	0.432	0.182	0.182	153

10.27. 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	0.035	97.9%	21.00	21.00					154			
							Left Tilt	54	5270	0.042	97.9%	21.00	21.00								
							Right Touch	54	5270	0.067	97.9%	21.00	21.00	0.013	0.013	0.004	0.004				
							Right Tilt	54	5270	0.065	97.9%	21.00	21.00								
		U-NII-1	Body & Airplay	802.11n (HT40)	Mode B	5	Rear	38	5190	1.710	97.9%	16.50	16.50	0.865	0.883	0.273	0.279	155			
								46	5230	1.610	97.9%	17.75	17.75	1.150	1.174	0.363	0.371				
							Front	46	5230	0.478	97.9%	17.75	17.75								
			Airplay	802.11n (HT40)	Mode B	5	Edge 3	46	5230	0.881	97.9%	17.75	17.75	0.432	0.441	0.158	0.161				
							Edge 4	46	5230	0.704	97.9%	17.75	17.75								
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.			
ANT5	Cell OFF	U-NII-2C	Head	802.11n (HT40)	Mode A	0	Left Touch	126	5630	0.065	97.9%	21.00	21.00	0.029	0.030	0.013	0.013	156			
							Left Tilt	126	5630	0.038	97.9%	21.00	21.00								
							Right Touch	126	5630	0.043	97.9%	21.00	21.00								
							Right Tilt	126	5630	0.036	97.9%	21.00	21.00								
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	106	5530	1.640	95.8%	16.50	16.50	0.753	0.786	0.248	0.259	157			
								122	5610	2.180	95.8%	18.00	18.00	1.110	1.158	0.366	0.382				
								138	5690	2.030	95.8%	18.00	18.00	1.010	1.054	0.302	0.315				
							Front	122	5610	0.451	95.8%	18.00	18.00								
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	122	5610	0.831	95.8%	18.00	18.00	0.398	0.415	0.148	0.154				
							Edge 4	122	5610	0.549	95.8%	18.00	18.00								
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.			
ANT5	Cell OFF	U-NII-3	Head	802.11a	Mode A	0	Left Touch	157	5785	0.033	98.9%	21.50	21.50	0.013	0.013	0.000	0.000	158			
							Left Tilt	157	5785	0.009	98.9%	21.50	21.50								
							Right Touch	157	5785	0.013	98.9%	21.50	21.50								
							Right Tilt	157	5785	0.012	98.9%	21.50	21.50								
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	1.830	95.8%	17.00	17.00	1.050	1.096	0.317	0.331	159			
							Front	155	5775	0.116	95.8%	17.00	17.00								
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	155	5775	0.430	95.8%	17.00	17.00	0.201	0.210	0.0702	0.073				
							Edge 4	155	5775	0.203	95.8%	17.00	17.00								
			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.
			ANT6	Cell OFF	U-NII-1	Head	802.11n (HT40)	Mode A	0	Left Touch	46	5230	0.866	97.9%	19.50	19.50					160
Left Tilt	46	5230								0.792	97.9%	19.50	19.50								
Right Touch	38	5230								1.908	97.9%	16.50	16.50	0.689	0.704	0.245	0.250				
	46	5230								2.000	97.9%	19.50	19.50	1.160	1.185	0.378	0.386				
Right Tilt	38	5230								0.894	97.9%	16.50	16.50	0.516	0.527	0.149	0.152				
	46	5230								0.924	97.9%	19.50	19.50	1.010	1.031	0.292	0.298				
U-NII-1	Body & Airplay	802.11n (HT40)			Mode B	5	Rear	38	5230	1.840	97.9%	16.50	16.50	0.800	0.817	0.258	0.263	161			
								46	5230	1.797	97.9%	19.75	19.75	1.080	1.103	0.337	0.344				
							Front	46	5230	0.781	97.9%	19.75	19.75	0.195	0.199	0.069	0.070				
	Airplay	802.11n (HT40)			Mode B	5	Edge 1	46	5230	1.000	97.9%	19.75	19.75	0.336	0.343	0.123	0.126	162			
								38	5230	1.550	97.9%	16.50	16.50	0.848	0.866	0.269	0.275				
								46	5230	2.290	97.9%	19.75	19.75	1.110	1.133	0.370	0.378				
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.			
ANT6	Cell OFF	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	122	5610	1.300	95.8%	18.50	18.50					163			
							Left Tilt	122	5610	1.380	95.8%	18.50	18.50	0.683	0.713	0.217	0.226				
							Right Touch	122	5610	3.370	95.8%	18.50	18.50	1.100	1.148	0.346	0.361				
								138	5690	3.230	95.8%	18.50	18.50	1.100	1.148	0.328	0.342				
							Right Tilt	122	5610	2.200	95.8%	18.50	18.50	1.090	1.138	1.138	1.188				
								138	5690	2.208	95.8%	16.50	16.50	1.030	1.075	1.075	1.122				
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	106	5530	1.320	95.8%	16.50	16.50	0.781	0.815	0.246	0.257	164			
								122	5610	2.080	95.8%	18.00	18.00	1.140	1.190	0.348	0.363				
								138	5690	1.380	95.8%	18.00	18.00	1.100	1.148	0.350	0.365				
							Front	122	5610	1.732	95.8%	18.00	18.00	0.558	0.582	0.195	0.204				
							Edge 1	122	5610	2.272	95.8%	18.00	18.00	0.642	0.670	0.242	0.253				
							Edge 4	122	5610	2.250	95.8%	18.00	18.00	1.130	1.179	0.381	0.398				
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.			
ANT6	Cell OFF	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.778	95.8%	18.00	18.00					165			
							Left Tilt	155	5775	0.571	95.8%	18.00	18.00								
							Right Touch	155	5775	1.830	95.8%	18.00	18.00	0.906	0.946	0.210	0.219				
							Right Tilt	155	5775	1.350	95.8%	18.00	18.00	0.622	0.649	0.183	0.191				
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	1.350	95.8%	18.00	18.00	0.905	0.944	0.270	0.282	166			
							Front	155	5775	1.114	95.8%	18.00	18.00								
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	155	5775	1.309	95.8%	18.00	18.00	0.408	0.426	0.124	0.129	167			
							Edge 4	155	5775	1.450	95.8%	18.00	18.00	1.010	1.054	0.301	0.314				

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-NII-2A	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	42	5210	0.235	95.8%	14.00	14.00	0.117	0.122	0.029	0.031	168
							Front	42	5210	0.232	95.8%	14.00	14.00					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	42	5210	0.376	95.8%	14.00	14.00	0.187	0.195	0.066	0.069	169
							Edge 4	42	5210	0.313	95.8%	14.00	14.00					
ANT5	Cell ON	U-NII-2C	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	1.010	95.8%	14.00	14.00	0.393	0.410	0.117	0.122	170
							Front	122	5610	0.318	95.8%	14.00	14.00					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	122	5610	0.316	95.8%	14.00	14.00	0.137	0.143	0.048	0.051	
							Edge 4	122	5610	0.214	95.8%	14.00	14.00					
ANT5	Cell ON	U-NII-3	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	0.626	95.8%	13.25	13.25	0.363	0.379	0.102	0.106	171
							Front	155	5775	0.029	95.8%	13.25	13.25					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	155	5775	0.123	95.8%	13.25	13.25	0.064	0.067	0.025	0.026	
							Edge 4	155	5775	0.051	95.8%	13.25	13.25					
ANT6	Cell ON	U-NII-1	Head	802.11ac (VHT80)	Mode A	0	Left Touch	42	5210	0.175	95.8%	13.00	13.00					
							Left Tilt	42	5210	0.219	95.8%	13.00	13.00					
							Right Touch	42	5210	0.605	95.8%	13.00	13.00	0.263	0.274	0.083	0.086	172
							Right Tilt	42	5210	0.523	95.8%	13.00	13.00					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	42	5210	0.706	95.8%	15.75	15.75	0.366	0.382	0.135	0.141	173
							Front	42	5210	0.334	95.8%	15.75	15.75					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	42	5210	0.379	95.8%	15.75	15.75					
							Edge 4	42	5210	0.582	95.8%	15.75	15.75	0.374	0.390	0.122	0.127	174
ANT6	Cell ON	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	122	5610	0.305	95.8%	12.50	12.50					
							Left Tilt	122	5610	0.282	95.8%	12.50	12.50					
							Right Touch	122	5610	0.81	95.8%	12.50	12.50	0.270	0.282	0.076	0.079	175
							Right Tilt	122	5610	0.526	95.8%	12.50	12.50					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	122	5610	0.702	95.8%	14.00	14.00	0.338	0.353	0.103	0.107	176
							Front	122	5610	0.425	95.8%	14.00	14.00					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	122	5610	0.448	95.8%	14.00	14.00					
							Edge 4	122	5610	0.653	95.8%	14.00	14.00	0.312	0.326	0.100	0.104	
ANT6	Cell ON	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.232	95.8%	12.00	12.00					
							Left Tilt	155	5775	0.169	95.8%	12.00	12.00					
							Right Touch	155	5775	0.864	95.8%	12.00	12.00	0.256	0.267	0.079	0.082	177
							Right Tilt	155	5775	0.585	95.8%	12.00	12.00					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	0.718	95.8%	14.25	14.25	0.361	0.377	0.104	0.109	178
							Front	155	5775	0.396	95.8%	14.25	14.25					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	155	5775	0.524	95.8%	14.25	14.25					
							Edge 4	155	5775	2.24	95.8%	14.25	14.25	0.464	0.484	0.132	0.138	179

10.28. Bluetooth

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%	12.00	12.00	0.089	0.089	0.043	0.043	180	
					Left Tilt	39	2441	100.0%	12.00	12.00	0.014	0.014	0.005	0.005		
					Right Touch	39	2441	100.0%	12.00	12.00	0.023	0.023	0.010	0.010		
					Right Tilt	39	2441	100.0%	12.00	12.00	0.010	0.010	0.003	0.003		
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	9.50	9.50	0.079	0.079	0.037	0.037	181	
					Front	39	2441	100.0%	9.50	9.50	0.029	0.029	0.012	0.012		
	Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	9.50	9.50	0.007	0.007	0.002	0.002		
Edge 4	39	2441	100.0%	9.50	9.50	0.078	0.078	0.033	0.033							
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 Phigh	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	17.00	17.00	0.238	0.238	0.114	0.114	182	
					Left Tilt	39	2441	100.0%	17.00	17.00	0.043	0.043	0.018	0.018		
					Right Touch	39	2441	100.0%	17.00	17.00	0.055	0.055	0.027	0.027		
					Right Tilt	39	2441	100.0%	17.00	17.00	0.019	0.019	0.007	0.007		
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	14.00	14.00	0.294	0.294	0.136	0.136	183	
					Front	39	2441	100.0%	14.00	14.00	0.106	0.106	0.054	0.054		
	Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	14.00	14.00	0.035	0.035	0.014	0.014		
Edge 4	39	2441	100.0%	14.00	14.00	0.358	0.358	0.160	0.160			184				
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 Pstandalone	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	20.00	20.00	0.347	0.347	0.179	0.179	185	
					Left Tilt	39	2441	100.0%	20.00	20.00	0.089	0.089	0.044	0.044		
					Right Touch	39	2441	100.0%	20.00	20.00	0.170	0.170	0.094	0.094		
					Right Tilt	39	2441	100.0%	20.00	20.00	0.074	0.074	0.038	0.038		
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	20.00	20.00	0.782	0.782	0.403	0.403	186	
					Front	39	2441	100.0%	20.00	20.00	0.437	0.437	0.227	0.227		
	Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	20.00	20.00	0.135	0.135	0.062	0.062		
					Edge 4	0	2402	100.0%	20.00	20.00	0.966	0.966	0.409	0.409	187	
						39	2441	100.0%	20.00	20.00	0.950	0.950	0.403	0.403		
78	2480	100.0%	20.00	20.00	0.910	0.910	0.398	0.398								
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		
ANT4 Flow	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	9.00	9.00	0.082	0.082	0.035	0.035	188	
					Left Tilt	39	2441	100.0%	9.00	9.00	0.036	0.036	0.012	0.012		
					Right Touch	39	2441	100.0%	9.00	9.00	0.009	0.009	0.003	0.003		
					Right Tilt	39	2441	100.0%	9.00	9.00	0.007	0.007	0.002	0.002		
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	9.50	9.50	0.050	0.050	0.022	0.022	189	
					Front	39	2441	100.0%	9.50	9.50	0.026	0.026	0.010	0.010		
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	9.50	9.50	0.012	0.012	0.003	0.003		
Edge 2	39	2441	100.0%	9.50	9.50	0.087	0.087	0.037	0.037			190				
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		
ANT4 Phigh	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	14.00	14.00	0.341	0.341	0.148	0.148	191	
					Left Tilt	39	2441	100.0%	14.00	14.00	0.154	0.154	0.066	0.066		
					Right Touch	39	2441	100.0%	14.00	14.00	0.075	0.075	0.036	0.036		
					Right Tilt	39	2441	100.0%	14.00	14.00	0.049	0.049	0.024	0.024		
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	15.00	15.00	0.160	0.160	0.076	0.076	192	
					Front	39	2441	100.0%	15.00	15.00	0.101	0.101	0.048	0.048		
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	15.00	15.00	0.057	0.057	0.026	0.026		
					Edge 2	39	2441	100.0%	15.00	15.00	0.350	0.350	0.149	0.149	193	
	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	
ANT4 Pstandalone	Head	GFSK	Mode A	0		0	2402	100.0%	19.50	19.50	0.713	0.713	0.329	0.329		
						Left Touch	39	2441	100.0%	19.50	19.50	0.816	0.816	0.357	0.357	
					78	2480	100.0%	19.50	19.50	0.827	0.827	0.372	0.372	194		
					Left Tilt	39	2441	100.0%	19.50	19.50	0.420	0.420	0.166	0.166		
					Right Touch	39	2441	100.0%	19.50	19.50	0.165	0.165	0.083	0.083		
					Right Tilt	39	2441	100.0%	19.50	19.50	0.121	0.121	0.060	0.060		
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	20.00	20.00	0.492	0.492	0.227	0.227	195	
					Front	39	2441	100.0%	20.00	20.00	0.328	0.328	0.152	0.152		
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	20.00	20.00	0.142	0.142	0.068	0.068		
					Edge 2	0	2402	100.0%	20.00	20.00	0.803	0.803	0.347	0.347		
39	2441	100.0%	20.00	20.00		0.943	0.943	0.413	0.413	196						
78	2480	100.0%	20.00	20.00	0.700	0.700	0.334	0.334								

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
700	LTE Band 13	Hotspot	Edge 2	Yes	0.865	0.858	1.01
850	LTE Band 26	Hotspot	Edge 2	Yes	0.926	0.836	1.11
1700	WCDMA Band IV	Hotspot	Edge 1	Yes	0.973	0.966	1.01
1900	CDMA BC1	Head	Right Tilt	Yes	0.993	0.921	1.08
2300	LTE Band 30	Head	Left Touch	Yes	0.976	0.869	1.12
2400	Wi-Fi 802.11b/g/n	Body & Hotspot	Edge 4	Yes	1.160	1.110	1.05
2500	LTE Band 7	Head	Left Touch	Yes	0.938	0.917	1.02
2600	LTE Band 41	Body & Hotspot	Rear	Yes	0.993	0.936	1.06
3600	LTE Band 48	Hotspot	Edge 2	Yes	0.996	0.892	1.12
5200	Wi-Fi 802.11a/n/ac	Head	Right Touch	Yes	1.160	1.110	1.05
5500	Wi-Fi 802.11a/n/ac	Body & Hotspot	Rear	Yes	1.140	1.120	1.02
5800	Wi-Fi 802.11a/n/ac	Body & Hotspot	Rear	Yes	1.050	1.05	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):

1. Wi-Fi 2.4GHz & Bluetooth cannot transmit simultaneously.
2. Wi-Fi 2.4GHz & Wi-Fi 5GHz cannot transmit simultaneously.
3. WWAN cannot transmit simultaneously.
4. Bluetooth P_{Low} is used with Wi-Fi and WWAN antennas are active.
5. 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.
6. Bluetooth P_{standalone} is used with Wi-Fi and WWAN antennas are inactive.
7. 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.
8. 5G NR only supported NSA mode.
9. 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	0.030	0.713	0.238	0.341	0.268	0.371	0.951	1.054
	Left Tilt	0.014	0.713	0.043	0.154	0.057	0.168	0.755	0.867
	Right Touch	0.014	1.185	0.055	0.075	0.069	0.089	1.240	1.260
	Right Tilt	0.014	1.138	0.019	0.049	0.033	0.063	1.157	1.186
Body-worn & Hotspot	Rear	1.174	1.190	0.294	0.160	1.468	1.334	1.484	1.350
	Front	0.441	0.582	0.106	0.101	0.547	0.542	0.688	0.683
Hotspot	Edge 1		0.670		0.057		0.057	0.670	0.727
	Edge 2				0.350		0.350		0.350
	Edge 3	0.441		0.035		0.476	0.441	0.035	
	Edge 4	0.441	1.179	0.358		0.799	0.441	1.537	1.179

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	0.382	0.398	0.276	0.238	0.341	0.780	0.658	0.620	0.723
	Left Tilt	0.241	0.167	0.276	0.043	0.154	0.408	0.517	0.284	0.395
	Right Touch	0.891	0.167	0.276	0.055	0.075	1.058	1.167	0.946	0.966
	Right Tilt	0.249	0.167	0.276	0.019	0.049	0.416	0.525	0.269	0.298
Body-worn & Hptspot	Rear	0.997	0.396	0.265	0.294	0.160	1.393	1.262	1.291	1.157
	Front	0.733	0.396	0.265	0.106	0.101	1.129	0.998	0.839	0.834
Hotspot	Edge 1			0.265		0.057		0.265		0.057
	Edge 2	0.985		0.432		0.350	0.985	1.417	0.985	1.335
	Edge 3	0.956	0.396		0.035		1.352	0.956	0.990	0.956
	Edge 4	0.337	0.557		0.358		0.894	0.337	0.695	0.337
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	0.382	0.030	0.282	0.089	0.082	0.500	0.494	0.753	0.746
	Left Tilt	0.241	0.014	0.282	0.014	0.036	0.269	0.291	0.537	0.559
	Right Touch	0.891	0.014	0.282	0.023	0.009	0.928	0.914	1.196	1.182
	Right Tilt	0.249	0.014	0.282	0.010	0.007	0.274	0.271	0.541	0.539
Body-worn & Hptspot	Rear	0.997	0.410	0.382	0.079	0.050	1.486	1.457	1.458	1.428
	Front	0.733	0.195	0.382	0.029	0.026	0.957	0.954	1.144	1.141
Hotspot	Edge 1			0.382		0.012		0.012	0.382	0.394
	Edge 2	0.985				0.087	0.985	1.072	0.985	1.072
	Edge 3	0.956	0.195		0.007		1.158	1.151	0.963	0.956
	Edge 4	0.337	0.195	0.484	0.078		0.610	0.532	0.899	0.821

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	0.731	0.398	0.276	0.238	0.341	1.129	1.007	0.969	1.072
	Left Tilt	0.741	0.167	0.276	0.043	0.154	0.908	1.017	0.783	0.895
	Right Touch	0.979	0.167	0.276	0.055	0.075	1.146	1.255	1.034	1.054
	Right Tilt	0.993	0.167	0.276	0.019	0.049	1.160	1.269	1.012	1.042
Body-worn & Hptspot	Rear	0.993	0.396	0.265	0.294	0.160	1.389	1.258	1.287	1.153
	Front	0.595	0.396	0.265	0.106	0.101	0.991	0.860	0.701	0.696
Hotspot	Edge 1	0.984		0.265		0.057	0.984	1.249	0.984	1.041
	Edge 2	0.249		0.432		0.350	0.249	0.681	0.249	0.599
	Edge 3		0.396		0.035		0.396		0.035	
	Edge 4	0.587	0.557		0.358		1.144	0.587	0.945	0.587
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	0.731	0.030	0.282	0.089	0.082	0.850	0.843	1.102	1.095
	Left Tilt	0.741	0.014	0.282	0.014	0.036	0.769	0.791	1.036	1.058
	Right Touch	0.979	0.014	0.282	0.023	0.009	1.016	1.002	1.283	1.269
	Right Tilt	0.993	0.014	0.282	0.010	0.007	1.017	1.015	1.285	1.282
Body-worn & Hptspot	Rear	0.993	0.410	0.382	0.079	0.050	1.482	1.453	1.454	1.425
	Front	0.595	0.195	0.382	0.029	0.026	0.819	0.816	1.006	1.003
Hotspot	Edge 1	0.984		0.382		0.012	0.984	0.996	1.366	1.378
	Edge 2	0.249				0.087	0.249	0.336	0.249	0.336
	Edge 3		0.195		0.007		0.202	0.195	0.007	
	Edge 4	0.587	0.195	0.484	0.078		0.860	0.782	1.149	1.071

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	0.669	0.398	0.276	0.238	0.341	1.067	0.945	0.907	1.010
	Left Tilt	0.362	0.167	0.276	0.043	0.154	0.529	0.638	0.405	0.516
	Right Touch	0.427	0.167	0.276	0.055	0.075	0.594	0.703	0.482	0.502
	Right Tilt	0.298	0.167	0.276	0.019	0.049	0.465	0.574	0.317	0.346
Body-worn & Hptspot	Rear	0.961	0.396	0.265	0.294	0.160	1.357	1.226	1.255	1.121
	Front	0.684	0.396	0.265	0.106	0.101	1.080	0.949	0.790	0.785
Hotspot	Edge 1			0.265		0.057		0.265		0.057
	Edge 2			0.432		0.350		0.432		0.350
	Edge 3	0.334	0.396		0.035		0.730	0.334	0.369	0.334
	Edge 4	0.971	0.557		0.358		1.528	0.971	1.329	0.971
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	0.669	0.030	0.282	0.089	0.082	0.787	0.781	1.040	1.033
	Left Tilt	0.362	0.014	0.282	0.014	0.036	0.390	0.412	0.658	0.680
	Right Touch	0.427	0.014	0.282	0.023	0.009	0.464	0.450	0.732	0.718
	Right Tilt	0.298	0.014	0.282	0.010	0.007	0.322	0.319	0.590	0.587
Body-worn & Hptspot	Rear	0.961	0.410	0.382	0.079	0.050	1.450	1.421	1.422	1.393
	Front	0.684	0.195	0.382	0.029	0.026	0.909	0.906	1.095	1.093
Hotspot	Edge 1			0.382		0.012		0.012	0.382	0.394
	Edge 2					0.087		0.087		0.087
	Edge 3	0.334	0.195		0.007		0.536	0.529	0.341	0.334
	Edge 4	0.971	0.195	0.484	0.078		1.244	1.166	1.533	1.455

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	0.994	0.398	0.276	0.238	0.341	1.392	1.270	1.232	1.335
	Left Tilt	0.698	0.167	0.276	0.043	0.154	0.865	0.974	0.741	0.852
	Right Touch	0.400	0.167	0.276	0.055	0.075	0.567	0.676	0.455	0.475
	Right Tilt	0.259	0.167	0.276	0.019	0.049	0.426	0.535	0.278	0.307
Body-worn & Hptspot	Rear	0.646	0.396	0.265	0.294	0.160	1.042	0.911	0.940	0.806
	Front	0.446	0.396	0.265	0.106	0.101	0.842	0.711	0.552	0.547
Hotspot	Edge 1	0.290		0.265		0.057	0.290	0.555	0.290	0.347
	Edge 2	0.992		0.432		0.350	0.992	1.424	0.992	1.342
	Edge 3		0.396		0.035		0.396		0.035	
	Edge 4		0.557		0.358		0.557		0.358	
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	0.994	0.030	0.282	0.089	0.082	1.112	1.105	1.364	1.357
	Left Tilt	0.698	0.014	0.282	0.014	0.036	0.726	0.748	0.994	1.016
	Right Touch	0.400	0.014	0.282	0.023	0.009	0.437	0.423	0.705	0.691
	Right Tilt	0.259	0.014	0.282	0.010	0.007	0.283	0.280	0.550	0.548
Body-worn & Hptspot	Rear	0.646	0.410	0.382	0.079	0.050	1.135	1.106	1.107	1.078
	Front	0.446	0.195	0.382	0.029	0.026	0.670	0.667	0.857	0.854
Hotspot	Edge 1	0.290		0.382		0.012	0.290	0.302	0.672	0.684
	Edge 2	0.992				0.087	0.992	1.079	0.992	1.079
	Edge 3		0.195		0.007		0.202	0.195	0.007	
	Edge 4		0.195	0.484	0.078		0.273	0.195	0.562	0.484

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	0.600	0.398	0.276	0.238	0.341	0.998	0.876	0.838	0.941
	Left Tilt	0.255	0.167	0.276	0.043	0.154	0.422	0.531	0.297	0.409
	Right Touch	0.905	0.167	0.276	0.055	0.075	1.072	1.181	0.960	0.980
	Right Tilt	0.157	0.167	0.276	0.019	0.049	0.324	0.433	0.176	0.206
Body-worn & Hptspot	Rear	0.873	0.396	0.265	0.294	0.160	1.269	1.138	1.167	1.033
	Front	0.420	0.396	0.265	0.106	0.101	0.816	0.685	0.526	0.521
Hotspot	Edge 1			0.265		0.057		0.265		0.057
	Edge 2	0.977		0.432		0.350	0.977	1.409	0.977	1.327
	Edge 3	0.333	0.396		0.035		0.729	0.333	0.367	0.333
	Edge 4		0.557		0.358		0.557		0.358	
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	0.600	0.030	0.282	0.089	0.082	0.718	0.711	0.970	0.963
	Left Tilt	0.255	0.014	0.282	0.014	0.036	0.283	0.305	0.550	0.572
	Right Touch	0.905	0.014	0.282	0.023	0.009	0.942	0.928	1.210	1.196
	Right Tilt	0.157	0.014	0.282	0.010	0.007	0.181	0.179	0.449	0.446
Body-worn & Hptspot	Rear	0.873	0.410	0.382	0.079	0.050	1.362	1.333	1.334	1.305
	Front	0.420	0.195	0.382	0.029	0.026	0.644	0.641	0.831	0.828
Hotspot	Edge 1			0.382		0.012		0.012	0.382	0.394
	Edge 2	0.977				0.087	0.977	1.064	0.977	1.064
	Edge 3	0.333	0.195		0.007		0.535	0.528	0.339	0.333
	Edge 4		0.195	0.484	0.078		0.273	0.195	0.562	0.484

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	0.398	0.398	0.276	0.238	0.341	0.796	0.674	0.636	0.739
	Left Tilt	0.576	0.167	0.276	0.043	0.154	0.743	0.852	0.619	0.730
	Right Touch	0.955	0.167	0.276	0.055	0.075	1.122	1.231	1.010	1.030
	Right Tilt	0.986	0.167	0.276	0.019	0.049	1.153	1.262	1.005	1.034
Body-worn & Hptspot	Rear	0.961	0.396	0.265	0.294	0.160	1.357	1.226	1.255	1.121
	Front	0.608	0.396	0.265	0.106	0.101	1.004	0.873	0.714	0.709
Hotspot	Edge 1	0.834		0.265		0.057	0.834	1.099	0.834	0.891
	Edge 2			0.432		0.350		0.432		0.350
	Edge 3		0.396		0.035		0.396		0.035	
	Edge 4	0.979	0.557		0.358		1.536	0.979	1.337	0.979
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	0.398	0.030	0.282	0.089	0.082	0.517	0.510	0.769	0.762
	Left Tilt	0.576	0.014	0.282	0.014	0.036	0.604	0.626	0.872	0.894
	Right Touch	0.955	0.014	0.282	0.023	0.009	0.993	0.979	1.260	1.246
	Right Tilt	0.986	0.014	0.282	0.010	0.007	1.010	1.007	1.277	1.275
Body-worn & Hptspot	Rear	0.961	0.410	0.382	0.079	0.050	1.450	1.421	1.422	1.392
	Front	0.608	0.195	0.382	0.029	0.026	0.832	0.829	1.019	1.016
Hotspot	Edge 1	0.834		0.382		0.012	0.834	0.846	1.215	1.227
	Edge 2					0.087		0.087		0.087
	Edge 3		0.195		0.007		0.202	0.195	0.007	
	Edge 4	0.979	0.195	0.484	0.078		1.252	1.174	1.541	1.463

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	0.522	0.398	0.276	0.238	0.341	0.920	0.798	0.760	0.863
	Left Tilt	0.177	0.167	0.276	0.043	0.154	0.344	0.453	0.220	0.331
	Right Touch	0.376	0.167	0.276	0.055	0.075	0.543	0.652	0.431	0.451
	Right Tilt	0.345	0.167	0.276	0.019	0.049	0.512	0.621	0.364	0.394
Body-worn & Hptspot	Rear	0.935	0.396	0.265	0.294	0.160	1.331	1.200	1.229	1.095
	Front	0.674	0.396	0.265	0.106	0.101	1.070	0.939	0.780	0.775
Hotspot	Edge 1			0.265		0.057		0.265		0.057
	Edge 2			0.432		0.350		0.432		0.350
	Edge 3	0.384	0.396		0.035		0.780	0.384	0.419	0.384
	Edge 4	0.980	0.557		0.358		1.537	0.980	1.338	0.980
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	0.522	0.030	0.282	0.089	0.082	0.640	0.633	0.892	0.885
	Left Tilt	0.177	0.014	0.282	0.014	0.036	0.205	0.227	0.473	0.495
	Right Touch	0.376	0.014	0.282	0.023	0.009	0.414	0.400	0.681	0.667
	Right Tilt	0.345	0.014	0.282	0.010	0.007	0.369	0.367	0.637	0.635
Body-worn & Hptspot	Rear	0.935	0.410	0.382	0.079	0.050	1.424	1.395	1.396	1.367
	Front	0.674	0.195	0.382	0.029	0.026	0.898	0.895	1.085	1.082
Hotspot	Edge 1			0.382		0.012		0.012	0.382	0.394
	Edge 2					0.087		0.087		0.087
	Edge 3	0.384	0.195		0.007		0.586	0.579	0.391	0.384
	Edge 4	0.980	0.195	0.484	0.078		1.253	1.175	1.542	1.464

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