



SAR EVALUATION REPORT

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

For
SMARTPHONE

**FCC ID: BCG-E3235A
Model Name: A2102**

**Report Number: 12204524-S1V1
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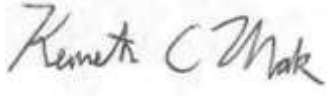
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1. Attestation of Test Results

Applicant Name	APPLE, INC.			
FCC ID	BCG-E3235A			
Model Name	A2102			
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	0.998	1.139	1.156	0.359
Body-worn (Dist.= 5 mm)	1.034	1.079	1.182	0.386
Hotspot (Dist.= 5 mm)	1.034	1.089	1.182	0.418
Simultaneous TX	Head	1.412	1.410	1.142
	Body-worn	1.522	1.426	1.522
	Hotspot	1.522	1.426	1.522
Date Tested	6/26/2018 to 8/1/2018			
Test Results	Pass			
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. 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 any government (NIST Handbook 150, Annex A). This report is written to support regulatory compliance of the applicable standards stated above.				
Approved & Released By:		Prepared By:		
				
Devin Chang Senior Test Engineer UL Verification Services Inc.		Kenneth C. Mak 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](#) April 2015; RF Exposure Procedures Update (Overlapping LTE Bands)
- [TCB workshop](#) October 2014; RF Exposure Procedures Update (Other LTE Considerations)
- [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](#) May 2017; RF Exposure Procedures (LTE Band 41 Power Class 2)
- [TCB workshop](#) October 2016; RF Exposure Procedures (DUT Holder Perturbations)
- [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)

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 F	
SAR Lab G	
SAR Lab H	

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

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: Δx_{Area} , Δy_{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.

Dielectric Property Measurements

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Network Analyzer	Agilent	8753ES	MY40001647	9/15/2018
Dielectric Probe kit	SPEAG	DAK-3.5	1087	11/14/2018
Shorting block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	2/6/2019
Thermometer	Traceable Calibration Control Co.	4242	140493798	12/8/2018
Network Analyzer	Agilent	8753ES	MY40000980	5/14/2019
Dielectric Probe kit	SPEAG	DAK-3.5	1082	10/17/2018
Shorting block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	10/17/2018
Thermometer	Traceable Calibration Control Co.	4242	140562250	11/7/2018

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Synthesized Signal Generator	Agilent	N5181A	MY50140630	5/25/2019
Power Meter	HP	437B	3125U12345	8/10/2018
Power Meter	HP	437B	3125U11347	8/15/2018
Power Sensor	HP	8481A	1926A27048	8/10/2018
Power Sensor	HP	8481A	3318A92374	8/15/2018
Amplifier	MITEQ	AMF-4D-00400600-50-30P	1795092	N/A
Directional coupler	Werlatone	C8060-102	2141	N/A
DC Power Supply	HP	1611	215-02292	N/A
Synthesized Signal Generator	Agilent	N5181A	MY50140610	6/7/2019
Power Meter	Keysight	N1912A	MY50001018	10/17/2019
Power Sensor	Agilent	N1921A	MY53020038	4/23/2019
Power Sensor	Agilent	N1921A	MY52260009	1/8/2019
Amplifier	MITEQ	AMF-4D-00400600-50-30P	1795093	N/A
Directional coupler	Werlatone	C8060-102	2149	N/A
DC Power Supply	HP	6296A	2841A-05955	N/A

Lab Equipment

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
E-Field Probe (SAR Lab A)	SPEAG	EX3DV4	7356	4/24/2019
E-Field Probe (SAR Lab A)	SPEAG	EX3DV4	3991	5/24/2019
E-Field Probe (SAR Lab B)	SPEAG	EX3DV4	3772	2/13/2019
E-Field Probe (SAR Lab C)	SPEAG	EX3DV4	3749	1/16/2019
E-Field Probe (SAR Lab D)	SPEAG	EX3DV4	3902	5/24/2019
E-Field Probe (SAR Lab E)	SPEAG	EX3DV4	3989	1/16/2019
E-Field Probe (SAR Lab F)	SPEAG	EX3DV4	3929	3/16/2019
E-Field Probe (SAR Lab G)	SPEAG	EX3DV4	3773	4/23/2019
E-Field Probe (SAR Lab H)	SPEAG	EX3DV4	7483	12/12/2018
E-Field Probe (SAR Lab 1)	SPEAG	EX3DV4	7448	4/16/2019
E-Field Probe (SAR Lab 3)	SPEAG	EX3DV4	7335	3/16/2019
E-Field Probe (SAR Lab 4)	SPEAG	EX3DV4	3871	8/23/2018
Data Acquisition Electronics (SAR Lab A)	SPEAG	DAE4	1540	2/23/2019
Data Acquisition Electronics (SAR Lab B)	SPEAG	DAE4	1352	11/8/2018
Data Acquisition Electronics (SAR Lab C)	SPEAG	DAE4	1472	3/8/2019
Data Acquisition Electronics (SAR Lab D)	SPEAG	DAE4	1433	3/7/2019
Data Acquisition Electronics (SAR Lab E)	SPEAG	DAE4	1259	1/10/2019
Data Acquisition Electronics (SAR Lab E)	SPEAG	DAE4	1548	5/3/2019
Data Acquisition Electronics (SAR Lab F)	SPEAG	DAE4	1377	10/11/2018
Data Acquisition Electronics (SAR Lab G)	SPEAG	DAE4	1377	10/11/2018
Data Acquisition Electronics (SAR Lab G)	SPEAG	DAE4	1359	2/9/2019
Data Acquisition Electronics (SAR Lab H)	SPEAG	DAE4	1257	10/11/2018
Data Acquisition Electronics (SAR Lab 1)	SPEAG	DAE4	1544	4/12/2019
Data Acquisition Electronics (SAR Lab 3)	SPEAG	DAE4	1434	5/11/2019
Data Acquisition Electronics (SAR Lab 4)	SPEAG	DAE4	1343	8/21/2018
System Validation Dipole	SPEAG	D750V3	1071	11/21/2018
System Validation Dipole	SPEAG	D835V2	4d002	11/21/2018
System Validation Dipole	SPEAG	D835V2	4d142	10/12/2018
System Validation Dipole	SPEAG	D1750V2	1053	8/24/2018
System Validation Dipole	SPEAG	D1750V2	1077	10/5/2018
System Validation Dipole	SPEAG	D1900V2	5d163	10/5/2018
System Validation Dipole	SPEAG	D1900V2	5d140	4/11/2019
System Validation Dipole	SPEAG	D2300V2	1002	3/16/2019
System Validation Dipole	SPEAG	D2300V2	1058	8/31/2018
System Validation Dipole	SPEAG	D2450V2	706	5/18/2019
System Validation Dipole	SPEAG	D2450V2	748	2/14/2019
System Validation Dipole	SPEAG	D2600V2	1006	10/5/2018
System Validation Dipole	SPEAG	D2600V2	1036	3/16/2019
System Validation Dipole	SPEAG	D5GHzV2	1003	3/13/2019
System Validation Dipole	SPEAG	D5GHzV2	1138	10/26/2018

Other

Name of Equipment	Manufacturer	Type/Model	T Number	Serial No.	Cal. Due Date
Power Meter	Agilent	N1912A	T733	MY50001018	10/17/2018
Power Sensor	Agilent	N1921A	T309	MY52270022	12/28/2018
DC Power Supply	HP	6296A	N/A	2841A-05955	N/A
Base station Simulator	R&S	CMW500	T978	137877	2/19/2019
Base station Simulator	R&S	CMW500	T960	135384	2/20/2019
Base station Simulator	R&S	CMW500	T948	135393	2/17/2019
Base station Simulator	R&S	CMW500	T958	134855	2/15/2019
Base station Simulator	R&S	CMW500	T259	124594	2/21/2019
Base station Simulator	R&S	CMW500	T1526	147543	2/17/2019
Base station Simulator	R&S	CMW500	T964	134853	2/16/2019
Base station Simulator	R&S	CMW500	T268	124593	2/22/2019
Base station Simulator	R&S	CMW500	T953	135390	2/16/2019
Base station Simulator	R&S	CMW500	T959	137873	2/17/2019
Base station Simulator	R&S	CMW500	T919	125236	2/21/2019

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, TD-SCDMA, CDMA, IEEE 802.11a/b/g/n/ac, Bluetooth, GPS and NFC. All models support at least one UICC based SIM. The second SIM is either UICC based, electronic SIM (e-SIM), or second SIM is not present. The device has a built-in inductive charging receiver which is not user accessible. The rechargeable battery is not user accessible.

This device has Four WWAN antennas (ANT1 , ANT2, ANT3, and ANT 4) as well as multiple Wi-Fi/Bluetooth antennas (ANT3 and ANT4 for Wi-Fi/BT 2.4GHz, ANT5 and ANT6 for Wi-Fi 5GHz).

The device utilizes two power modes: Mode A and Mode B. 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.

Device Dimension	Overall (Length x Width): 156.6 mm x 77.5 mm Overall Diagonal: 175.26 mm (6.9 inch) Display Diagonal: 165.1 mm (6.5 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 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	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. 9)		100%
LTE ⁴	FDD Band 2 FDD Band 4 FDD Band 5 FDD Band 7 FDD Band 12 FDD Band 13 FDD Band 14 FDD Band 17 FDD Band 25 FDD Band 26 FDD Band 29 (DL Only) FDD Band 30 TDD Band 41 ² TDD Band 46 (DL Only) FDD Band 66 Carrier Aggregation ³ FDD Band 7_2CC TDD Band 41_2CC	QPSK 16QAM 64AQM Carrier Aggregation (2 Uplinks and 4 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				
Wi-Fi	2.4 GHz ¹	802.11b 802.11g 802.11n (HT20)		99.17% (802.11b) 98.82% (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)		98.87% (802.11a/n/ac 20MHz BW) 97.72% (802.11n/ac 40MHz BW) 95.63% (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	Version 5.0 LE		100%

Note(s):

- Duty cycle for Wi-Fi and BT is referenced from the DTS and U-NII and BT reports.
- This device supports Power Class 2 and Power Class 3 for LTE Band 41.
- 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)

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 ²	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 ²	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 ²	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 ²	5 MHz ²	3 MHz	1.4 MHz
	Low				23205/ 779.5		
	Mid			23230/ 782	23230/ 782		
	High				23255/ 784.5		

General LTE SAR Test and Reporting Considerations (Continued)

Frequency range, Channel Bandwidth, Numbers and Frequencies	Band 14	Frequency range: 788 - 798 MHz (BW = 10 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ²	5 MHz ²	3 MHz	1.4 MHz
	Low				23305/ 790.5		
	Mid			23330/ 793	23330/ 793		
	High				23355/ 795.5		
	Band 17	Frequency range: 704 - 716 MHz (BW = 12 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ²	5 MHz ²	3 MHz	1.4 MHz
	Low			23780/ 709	23755/ 706.5		
	Mid			23790/ 710	23790/ 710		
	High			23800/ 711	23825/ 713.5		
	Band 25	Frequency range: 1850 - 1915 MHz (BW = 65 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	26140/ 1860	26115/ 1857.5	26090/ 1855	26065/ 1852.5	26055/ 1851.5	26047/ 1850.7
	Mid	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5
	High	26590/ 1905	26615/ 1907.5	26640/ 1910	26665/ 1912.5	26675/ 1913.5	26683/ 1914.3
	Band 26	Frequency range: 814 - 849 MHz (BW = 35 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low			26740/ 819	26715/ 816.5	26705/ 815.5	26697/ 814.7
	Mid			26865/ 831.5	26865/ 831.5	26865/ 831.5	26865/ 831.5
	High			26990/ 844	27015/ 846.5	27025/ 847.5	27033/ 848.3
	Band 30	Frequency range: 2305 - 2315 MHz (BW = 10 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz ²	5 MHz	3 MHz	1.4 MHz
	Low				27685/ 2307.5		
	Mid			27710/ 2310	27710/ 2310		
	High				27735/ 2312.5		
	Band 41 ¹	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				

General LTE SAR Test and Reporting Considerations (Continued)

Frequency range, Channel Bandwidth, Numbers and Frequencies	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, and ANT4. 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>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>256 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>256 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	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	256 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	256 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																																																													
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																													
256 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																													
256 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.																																																																			

Note(s):

1. LTE band 41 test channels in accordance with October 2014 TCB workshop for all channels bandwidths.
2. 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.
3. 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.

7. RF Exposure Conditions (Test Configurations)

This device has a total of 6 antennas. From Front of the device, antennas and supported frequencies are described and located as follows:

ANT1 (support all WWAN frequency bands) - located at lower right corner of the device.

ANT2 (support WWAN frequencies 663 MHz to 2700 MHz) - located at upper left corner of the device.

ANT3 (support WWAN frequencies 1700 MHz to 2700 MHz and Wi-Fi 2.4 GHz and Bluetooth) – located at lower left corner of the device. CDMA BC1 is not supported for this antenna.

ANT4 (support WWAN frequencies 1700 MHz to 2700 MHz and Wi-Fi 2.4 GHz and Bluetooth) – located at upper right corner of the device. CDMA BC1 is not supported for this antenna.

ANT5 (support Wi-Fi 5GHz Bands) – located at lower left corner of the device.

ANT6 (support Wi-Fi 5GHz Bands) – located at upper left corner of the device.

Refer to separate filing submission document for the proprietary design details of the antenna-to-antenna and antenna-to-edge(s) distances.

The Body-worn accessory test configurations were tested using a conservative minimum test separation distance of 5 mm.

Lower Antenna

Wireless technologies	RF Exposure Conditions	DUT-to-User Separation	Test Position	Antenna-to-edge/surface	SAR Required	Note
WWAN (ANT1)	Head	0 mm	Left Touch	N/A	Yes	
			Left Tilt (15°)	N/A	Yes	
			Right Touch	N/A	Yes	
			Right Tilt (15°)	N/A	Yes	
	Body/Hotspot	5 mm	Rear	< 25 mm	Yes	2
			Front	< 25 mm	Yes	2
	Hotspot	5 mm	Edge 1 (Top)	> 25 mm	No	1
			Edge 2 (Right)	< 25 mm	Yes	
			Edge 3 (Bottom)	< 25 mm	Yes	
			Edge 4 (Left)	< 25 mm	Yes	
WWAN and Wi-Fi 2.4 GHz and Bluetooth (ANT3)	Head	0 mm	Left Touch	N/A	Yes	
			Left Tilt (15°)	N/A	Yes	
			Right Touch	N/A	Yes	
			Right Tilt (15°)	N/A	Yes	
	Body/Hotspot	5 mm	Rear	< 25 mm	Yes	2
			Front	< 25 mm	Yes	2
	Hotspot	5 mm	Edge 1 (Top)	> 25 mm	No	1
			Edge 2 (Right)	> 25 mm	No	1
			Edge 3 (Bottom)	< 25 mm	Yes	
			Edge 4 (Left)	< 25 mm	Yes	
Wi-Fi 5 GHz (ANT5)	Head	0 mm	Left Touch	N/A	Yes	
			Left Tilt (15°)	N/A	Yes	
			Right Touch	N/A	Yes	
			Right Tilt (15°)	N/A	Yes	
	Body/Airplay	5 mm	Rear	< 25 mm	Yes	2
			Front	< 25 mm	Yes	2
	Airplay	5 mm	Edge 1 (Top)	> 25 mm	No	1
			Edge 2 (Right)	> 25 mm	No	1
			Edge 3 (Bottom)	< 25 mm	Yes	
			Edge 4 (Left)	< 25 mm	Yes	

Note(s):

- SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot Mode.
- 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.

Upper Antenna

Wireless technologies	RF Exposure Conditions	DUT-to-User Separation	Test Position	Antenna-to-edge/surface	SAR Required	Note
WWAN (ANT2)	Head	0 mm	Left Touch	N/A	Yes	
			Left Tilt (15°)	N/A	Yes	
			Right Touch	N/A	Yes	
			Right Tilt (15°)	N/A	Yes	
	Body/Hotspot	5 mm	Rear	< 25 mm	Yes	2
			Front	< 25 mm	Yes	2
	Hotspot	5 mm	Edge 1 (Top)	< 25 mm	Yes	
			Edge 2 (Right)	< 25 mm	Yes	
			Edge 3 (Bottom)	> 25 mm	No	1
			Edge 4 (Left)	< 25 mm	Yes	
WWAN and Wi-Fi 2.4 GHz and Bluetooth (ANT4)	Head	0 mm	Left Touch	N/A	Yes	
			Left Tilt (15°)	N/A	Yes	
			Right Touch	N/A	Yes	
			Right Tilt (15°)	N/A	Yes	
	Body/Hotspot	5 mm	Rear	< 25 mm	Yes	2
			Front	< 25 mm	Yes	2
	Hotspot	5 mm	Edge 1 (Top)	< 25 mm	Yes	
			Edge 2 (Right)	< 25 mm	Yes	
			Edge 3 (Bottom)	> 25 mm	No	1
			Edge 4 (Left)	> 25 mm	No	1
Wi-Fi 5 GHz (ANT6)	Head	0 mm	Left Touch	N/A	Yes	
			Left Tilt (15°)	N/A	Yes	
			Right Touch	N/A	Yes	
			Right Tilt (15°)	N/A	Yes	
	Body/Airplay	5 mm	Rear	< 25 mm	Yes	2
			Front	< 25 mm	Yes	2
	Airplay	5 mm	Edge 1 (Top)	< 25 mm	Yes	
			Edge 2 (Right)	> 25 mm	No	1
			Edge 3 (Bottom)	> 25 mm	No	1
			Edge 4 (Left)	< 25 mm	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 Hot Spot SAR.
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

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	6/27/2018	2600	Head	2600	39.10	39.01	0.23	2.03	1.96	3.36
				2495	39.43	39.14	0.73	1.92	1.85	3.70
				2690	38.77	38.90	-0.33	2.13	2.06	3.43
A	7/1/2018	2600	Head	2600	37.35	39.01	-4.26	2.05	1.96	4.48
				2495	37.71	39.14	-3.66	1.94	1.85	4.67
				2690	36.96	38.90	-4.98	2.14	2.06	3.81
A	7/5/2018	2600	Head	2600	39.95	39.01	2.41	1.89	1.96	-3.83
				2495	40.23	39.14	2.78	1.79	1.85	-3.39
				2690	39.65	38.90	1.94	1.99	2.06	-3.52
A	7/8/2018	2600	Body	2600	50.68	52.51	-3.49	2.22	2.16	2.69
				2495	51.07	52.64	-2.99	2.09	2.01	3.76
				2690	50.43	52.40	-3.75	2.32	2.29	1.60
A	7/11/2018	2600	Head	2600	37.42	39.01	-4.08	2.03	1.96	3.30
				2495	37.78	39.14	-3.48	1.91	1.85	3.37
				2690	37.05	38.90	-4.75	2.12	2.06	2.94
A	7/13/2018	2600	Body	2600	50.84	52.51	-3.18	2.14	2.16	-0.78
				2495	51.17	52.64	-2.80	2.02	2.01	0.53
				2690	50.56	52.40	-3.51	2.26	2.29	-1.32
A	7/21/2018	2600	Body	2600	50.41	52.51	-4.00	2.16	2.16	-0.22
				2495	50.79	52.64	-3.52	2.03	2.01	0.88
				2690	50.12	52.40	-4.35	2.27	2.29	-0.93
A	7/21/2018	2600	Head	2600	37.73	39.01	-3.28	1.97	1.96	0.20
				2495	38.12	39.14	-2.61	1.84	1.85	-0.31
				2690	37.38	38.90	-3.90	2.06	2.06	-0.12
A	7/25/2018	2600	Body	2600	50.82	52.51	-3.22	2.15	2.16	-0.32
				2495	51.14	52.64	-2.86	2.03	2.01	0.73
				2690	50.52	52.40	-3.58	2.25	2.29	-1.67
A	7/29/2018	2600	Head	2600	39.79	39.01	2.00	1.99	1.96	1.52
				2495	40.09	39.14	2.42	1.87	1.85	1.26
				2690	39.49	38.90	1.52	2.09	2.06	1.53

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
B	6/27/2018	1750	Head	1750	40.75	40.08	1.66	1.41	1.37	2.85
				1710	40.77	40.15	1.55	1.39	1.35	3.39
				1755	40.72	40.08	1.60	1.41	1.37	3.08
B	6/30/2018	1750	Body	1750	51.18	53.44	-4.23	1.53	1.49	2.68
				1710	51.30	53.54	-4.19	1.48	1.46	1.40
				1755	51.19	53.43	-4.19	1.53	1.49	2.54
B	7/1/2018	1750	Head	1750	40.94	40.08	2.13	1.40	1.37	2.41
				1710	41.01	40.15	2.15	1.38	1.35	2.20
				1755	40.95	40.08	2.18	1.40	1.37	2.20
B	7/5/2018	1750	Body	1750	51.55	53.44	-3.54	1.56	1.49	4.90
				1710	51.71	53.54	-3.42	1.51	1.46	3.52
				1755	55.43	53.43	-3.52	1.56	1.49	4.95
B	7/6/2018	1900	Body	1900	55.52	53.30	4.17	1.52	1.52	0.07
				1850	55.65	53.30	4.41	1.46	1.52	-3.68
				1920	55.54	53.30	4.20	1.54	1.52	1.32
B	7/9/2018	1750	Body	1750	54.08	53.44	1.20	1.47	1.49	-0.95
				1710	54.17	53.54	1.17	1.43	1.46	-2.02
				1755	54.07	53.43	1.20	1.47	1.49	-1.02
B	7/9/2018	1750	Head	1750	38.15	40.08	-4.83	1.42	1.37	3.87
				1710	38.33	40.15	-4.52	1.41	1.35	4.65
				1755	38.13	40.08	-4.86	1.42	1.37	3.59
B	7/13/2018	1750	Body	1750	54.91	53.44	2.75	1.47	1.49	-0.89
				1710	54.98	53.54	2.68	1.43	1.46	-2.50
				1755	54.86	53.43	2.68	1.48	1.49	-0.69
B	7/13/2018	1750	Head	1750	38.80	40.08	-3.20	1.35	1.37	-1.09
				1710	38.86	40.15	-3.20	1.32	1.35	-1.66
				1755	38.80	40.08	-3.19	1.36	1.37	-0.86
B	7/13/2018	2600	Head	2600	39.16	39.01	0.38	1.95	1.96	-0.62
				2495	39.35	39.14	0.53	1.87	1.85	1.05
				2690	38.99	38.90	0.24	2.02	2.06	-1.77
B	7/17/2018	1750	Body	1750	52.94	53.44	-0.94	1.49	1.49	0.19
				1710	53.11	53.54	-0.81	1.45	1.46	-0.65
				1755	52.97	53.43	-0.86	1.49	1.49	0.32
B	7/24/2018	2600	Body	2600	51.69	52.51	-1.56	2.23	2.16	3.02
				2495	51.96	52.64	-1.30	2.11	2.01	4.56
				2690	51.49	52.40	-1.73	2.35	2.29	2.65
B	7/28/2018	2600	Head	2600	37.96	39.01	-2.69	1.98	1.93	1.01
				2495	38.14	39.14	-2.56	1.90	1.85	2.78
				2690	37.78	38.90	-2.87	2.06	2.06	-0.12
B	7/29/2018	2600	Body	2600	50.43	52.51	-3.96	2.23	2.16	3.11
				2495	50.79	52.64	-3.52	2.10	2.01	4.41
				2690	50.10	52.40	-4.38	2.33	2.29	1.95
B	8/1/2018	2450	Body	2450	50.32	52.70	-4.52	2.01	1.95	3.18
				2400	50.46	52.77	-4.38	1.95	1.90	2.95
				2480	50.18	52.66	-4.71	2.05	1.99	2.70

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
C	6/27/2018	1900	Head	1900	38.93	40.00	-2.68	1.43	1.40	2.21
				1850	39.02	40.00	-2.45	1.41	1.40	0.50
				1920	38.95	40.00	-2.62	1.45	1.40	3.29
C	7/1/2018	1900	Head	1900	38.87	40.00	-2.83	1.43	1.40	2.29
				1850	39.00	40.00	-2.50	1.40	1.40	-0.21
				1920	38.85	40.00	-2.88	1.44	1.40	2.93
C	7/2/2018	1900	Body	1900	52.50	53.30	-1.50	1.51	1.52	-0.92
				1850	52.63	53.30	-1.26	1.45	1.52	-4.67
				1920	52.42	53.30	-1.65	1.53	1.52	0.33
C	7/6/2018	1900	Head	1900	40.54	40.00	1.35	1.40	1.40	-0.14
				1850	40.48	40.00	1.20	1.37	1.40	-2.21
				1920	40.58	40.00	1.45	1.40	1.40	0.07
C	7/6/2018	1900	Body	1900	51.40	53.30	-3.56	1.56	1.52	2.70
				1850	51.62	53.30	-3.15	1.50	1.52	-1.45
				1920	51.37	53.30	-3.62	1.59	1.52	4.47
C	7/12/2018	1900	Head	1900	40.12	40.00	0.30	1.41	1.40	0.57
				1850	40.25	40.00	0.63	1.39	1.40	-0.86
				1920	40.10	40.00	0.25	1.42	1.40	1.57
C	7/12/2018	1900	Body	1900	52.53	53.30	-1.44	1.55	1.52	2.11
				1850	52.76	53.30	-1.01	1.49	1.52	-1.78
				1920	52.52	53.30	-1.46	1.58	1.52	4.01
C	7/21/2018	1900	Body	1900	51.07	53.30	-4.18	1.56	1.52	2.57
				1850	51.17	53.30	-4.00	1.51	1.52	-0.92
				1920	50.96	53.30	-4.39	1.58	1.52	4.01
C	7/21/2018	1900	Head	1900	40.18	40.00	0.45	1.44	1.40	2.93
				1850	40.21	40.00	0.53	1.40	1.40	0.29
				1920	40.14	40.00	0.35	1.45	1.40	3.43
C	7/24/2018	2600	Head	2600	38.09	39.01	-2.36	1.96	1.96	-0.31
				2495	38.26	39.14	-2.26	1.87	1.85	1.21
				2690	37.99	38.90	-2.33	2.03	2.06	-1.48
D	6/27/2018	2300	Head	2300	38.08	39.47	-3.53	1.72	1.66	3.20
				2350	37.87	39.38	-3.85	1.78	1.71	4.00
				2400	37.75	39.30	-3.94	1.84	1.75	4.82
D	6/27/2018	2600	Head	2600	37.35	39.01	-4.26	2.04	1.96	3.92
				2495	37.74	39.14	-3.58	1.93	1.85	4.45
				2690	36.99	38.90	-4.90	2.14	2.06	3.77
D	7/1/2018	2300	Head	2300	39.38	39.47	-0.23	1.71	1.66	2.78
				2350	39.21	39.38	-0.44	1.76	1.71	3.24
				2400	39.01	39.30	-0.73	1.82	1.75	3.85
D	7/1/2018	2600	Head	2600	38.32	39.01	-1.77	2.04	1.96	4.17
				2495	38.70	39.14	-1.13	1.93	1.85	4.29
				2690	37.99	38.90	-2.33	2.13	2.06	3.57

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
D	7/2/2018	2300	Body	2300	52.30	52.90	-1.14	1.83	1.80	1.52
				2350	52.17	52.84	-1.27	1.88	1.85	1.53
				2400	52.07	52.77	-1.33	1.93	1.90	1.90
D	7/5/2018	2300	Body	2300	53.09	52.90	0.35	1.81	1.80	0.58
				2350	52.99	52.84	0.29	1.86	1.85	0.55
				2400	52.77	52.77	0.00	1.91	1.90	0.53
D	7/5/2018	2600	Body	2600	52.40	52.51	-0.21	2.11	2.16	-2.21
				2495	52.64	52.64	-0.01	2.00	2.01	-0.81
				2690	52.09	52.40	-0.59	2.22	2.29	-3.12
D	7/9/2018	2300	Body	2300	51.50	52.90	-2.65	1.86	1.80	3.19
				2350	51.29	52.84	-2.93	1.92	1.85	3.47
				2400	51.15	52.77	-3.07	1.96	1.90	3.42
D	7/9/2018	2600	Body	2600	50.46	52.51	-3.91	2.23	2.16	3.39
				2495	50.84	52.64	-3.43	2.11	2.01	4.76
				2690	50.17	52.40	-4.25	2.35	2.29	2.52
D	7/13/2018	2300	Body	2300	51.50	52.90	-2.65	1.86	1.80	3.19
				2350	51.34	52.84	-2.84	1.92	1.85	3.52
				2400	51.22	52.77	-2.94	1.97	1.90	4.00
D	7/13/2018	2600	Body	2600	50.60	52.51	-3.64	2.20	2.16	1.86
				2495	50.93	52.64	-3.25	2.07	2.01	3.02
				2690	50.29	52.40	-4.02	2.30	2.29	0.56
D	7/20/2018	2300	Body	2300	51.20	52.90	-3.22	1.86	1.80	2.91
				2350	51.03	52.84	-3.42	1.92	1.85	3.47
				2400	50.94	52.77	-3.47	1.97	1.90	3.74
D	7/20/2018	2300	Head	2300	38.99	39.47	-1.22	1.73	1.66	3.80
				2350	38.77	39.38	-1.56	1.78	1.71	4.41
				2400	38.61	39.30	-1.75	1.84	1.75	4.76
D	7/24/2018	2600	Body	2600	52.56	52.51	0.09	2.14	2.16	-0.78
				2495	52.83	52.64	0.35	2.02	2.01	0.29
				2690	52.35	52.40	-0.09	2.25	2.29	-1.46
D	7/25/2018	2300	Body	2300	50.57	52.90	-4.41	1.86	1.80	3.13
				2350	50.41	52.84	-4.60	1.86	1.85	0.50
				2400	50.25	52.77	-4.78	1.97	1.90	3.79
D	7/25/2018	2300	Head	2300	38.06	39.47	-3.58	1.71	1.66	2.60
				2350	37.83	39.38	-3.95	1.76	1.71	3.06
				2400	37.67	39.30	-4.14	1.81	1.75	3.39
D	8/1/2018	2450	Body	2450	50.27	52.70	-4.61	2.02	1.95	3.38
				2400	50.42	52.77	-4.46	1.95	1.90	2.90
				2480	50.17	52.66	-4.73	2.05	1.99	3.10

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
E	6/28/2018	5750	Head	5750	35.95	35.36	1.66	5.31	5.21	1.79
				5700	36.03	35.42	1.72	5.28	5.16	2.24
				5850	35.87	35.30	1.61	5.43	5.27	2.94
E	6/30/2018	5800	Body	5800	46.28	48.20	-3.98	6.19	6.00	3.17
				5700	46.59	48.34	-3.62	6.08	5.88	3.51
				5850	46.27	48.20	-4.00	6.28	6.00	4.65
E	7/2/2018	5750	Head	5750	33.96	35.36	-3.97	5.25	5.21	0.62
				5700	34.04	35.42	-3.90	5.20	5.16	0.74
				5850	33.79	35.30	-4.28	5.31	5.27	0.74
E	7/5/2018	5800	Body	5800	48.35	48.20	0.31	6.08	6.00	1.32
				5700	48.37	48.34	0.06	5.98	5.88	1.66
				5850	48.34	48.20	0.29	6.22	6.00	3.58
E	7/6/2018	5800	Head	5800	35.60	35.30	0.85	5.02	5.27	-4.76
				5700	35.80	35.42	1.07	4.95	5.16	-4.19
				5850	35.69	35.30	1.10	5.09	5.27	-3.42
E	7/8/2018	5200	Body	5200	48.75	49.02	-0.55	5.14	5.29	-2.85
				5150	48.93	49.09	-0.32	5.09	5.24	-2.87
				5350	48.56	48.82	-0.53	5.35	5.47	-2.13
E	7/9/2018	5200	Head	5200	37.42	35.99	3.97	4.47	4.65	-3.85
				5150	37.52	36.05	4.09	4.41	4.60	-4.17
				5350	37.28	35.82	4.08	4.61	4.80	-4.05
E	7/20/2018	5750	Body	5750	47.64	48.27	-1.31	6.01	5.94	1.23
				5700	47.94	48.34	-0.83	5.99	5.88	1.96
				5850	47.62	48.20	-1.20	6.14	6.00	2.40
E	7/20/2018	5750	Head	5750	34.07	35.36	-3.66	4.99	5.21	-4.35
				5700	34.23	35.42	-3.36	4.98	5.16	-3.54
				5850	33.96	35.30	-3.80	5.09	5.27	-3.51
E	7/24/2018	5750	Head	5750	34.80	35.36	-1.59	5.20	5.21	-0.21
				5700	34.88	35.42	-1.52	5.16	5.16	-0.07
				5850	34.73	35.30	-1.61	5.35	5.27	1.44
E	7/24/2018	5750	Body	5750	48.36	48.27	0.18	5.99	5.94	0.84
				5700	48.55	48.34	0.43	5.91	5.88	0.55
				5850	48.29	48.20	0.19	6.16	6.00	2.60
E	7/27/2018	5200	Head	5200	34.78	35.99	-3.36	4.51	4.65	-3.12
				5150	34.81	36.05	-3.43	4.47	4.60	-2.80
				5350	34.52	35.82	-3.63	4.64	4.80	-3.44
E	7/28/2018	5250	Body	5250	48.90	48.95	-0.11	5.56	5.35	3.94
				5150	49.07	49.09	-0.04	5.44	5.24	3.79
				5350	48.87	48.82	0.11	5.67	5.47	3.57

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
F	6/28/2018	5250	Head	5250	36.57	35.93	1.77	4.69	4.70	-0.32
				5150	36.73	36.05	1.89	4.57	4.60	-0.67
				5350	36.36	35.82	1.51	4.78	4.80	-0.47
F	6/28/2018	5250	Body	5250	46.92	48.95	-4.15	5.51	5.35	2.97
				5150	47.12	49.09	-4.01	5.37	5.24	2.46
				5350	46.64	48.82	-4.46	5.66	5.47	3.39
F	7/2/2018	5250	Body	5250	46.54	48.95	-4.93	5.38	5.35	0.58
				5150	46.65	49.09	-4.97	5.25	5.24	0.30
				5350	46.48	48.82	-4.79	5.51	5.47	0.67
F	7/2/2018	5250	Head	5250	34.33	35.93	-4.46	4.52	4.70	-3.83
				5150	34.53	36.05	-4.21	4.40	4.60	-4.26
				5350	34.24	35.82	-4.41	4.62	4.80	-3.94
F	7/6/2018	5200	Body	5200	48.91	49.02	-0.22	5.24	5.29	-0.98
				5150	49.04	49.09	-0.10	5.17	5.24	-1.36
				5350	48.74	48.82	-0.16	5.43	5.47	-0.80
F	7/6/2018	5200	Head	5200	35.63	35.99	-1.00	4.49	4.65	-3.42
				5150	35.72	36.05	-0.91	4.44	4.60	-3.47
				5350	35.52	35.82	-0.83	4.60	4.80	-4.30
F	7/8/2018	2450	Body	2450	54.44	52.70	3.30	1.91	1.95	-2.10
				2400	54.58	52.77	3.43	1.84	1.90	-2.90
				2480	54.32	52.66	3.15	1.94	1.99	-2.47
F	7/26/2018	5250	Body	5250	49.78	48.95	1.69	5.26	5.35	-1.81
				5150	50.00	49.09	1.86	5.13	5.24	-2.13
				5350	49.67	48.82	1.75	5.37	5.47	-1.78
F	7/27/2018	5200	Head	5200	37.74	35.99	4.86	4.48	4.65	-3.74
				5150	37.37	36.05	3.67	4.37	4.60	-4.93
				5350	37.59	35.82	4.94	4.59	4.80	-4.42
F	7/30/2018	2450	Body	2450	50.48	52.70	-4.21	2.03	1.95	4.21
				2400	50.71	52.77	-3.91	1.96	1.90	3.37
				2480	50.38	52.66	-4.33	2.08	1.99	4.51
G	6/30/2018	2450	Body	2450	50.48	52.70	-4.21	1.97	1.95	3.33
				2400	50.56	52.77	-4.19	1.93	1.90	4.58
				2480	50.47	52.66	-4.16	1.99	1.99	2.55
G	6/30/2018	2450	Head	2450	38.49	39.20	-1.81	1.88	1.80	-0.22
				2400	38.66	39.30	-1.62	1.84	1.75	0.25
				2480	38.51	39.16	-1.67	1.90	1.83	-1.12
G	7/5/2018	2450	Body	2450	52.60	52.70	-0.19	2.00	1.95	4.00
				2400	52.67	52.77	-0.19	1.97	1.90	4.48
				2480	52.55	52.66	-0.21	2.03	1.99	3.41
G	7/8/2018	2450	Head	2450	38.34	39.20	-2.19	1.86	1.80	3.56
				2400	38.40	39.30	-2.28	1.83	1.75	4.19
				2480	38.22	39.16	-2.41	1.88	1.83	2.32

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
G	7/9/2018	2450	Body	2450	51.86	52.70	-1.59	2.02	1.95	3.33
				2400	51.93	52.77	-1.60	1.99	1.90	4.58
				2480	51.77	52.66	-1.69	2.04	1.99	2.55
G	7/12/2018	2450	Head	2450	38.05	39.20	-2.93	1.80	1.80	-0.22
				2400	38.17	39.30	-2.87	1.76	1.75	0.25
				2480	38.00	39.16	-2.97	1.81	1.83	-1.12
G	7/12/2018	2450	Body	2450	51.68	52.70	-1.94	2.03	1.95	4.00
				2400	51.71	52.77	-2.01	1.98	1.90	4.48
				2480	51.64	52.66	-1.94	2.06	1.99	3.41
G	7/20/2018	2450	Body	2450	51.33	52.70	-2.60	2.01	1.95	3.23
				2400	51.39	52.77	-2.62	1.97	1.90	3.90
				2480	51.30	52.66	-2.59	2.03	1.99	2.00
G	7/24/2018	2450	Body	2450	52.37	52.70	-0.63	2.02	1.95	3.49
				2400	52.51	52.77	-0.50	1.98	1.90	4.42
				2480	52.33	52.66	-0.63	2.06	1.99	3.30
G	7/24/2018	2450	Head	2450	38.60	39.20	-1.53	1.85	1.80	2.94
				2400	38.68	39.30	-1.57	1.82	1.75	3.85
				2480	38.57	39.16	-1.51	1.88	1.83	2.60
G	7/27/2018	2450	Head	2450	38.79	39.20	-1.05	1.85	1.80	2.67
				2400	38.86	39.30	-1.11	1.80	1.75	2.93
				2480	38.78	39.16	-0.98	1.87	1.83	2.21
G	7/27/2018	2450	Body	2450	51.89	52.70	-1.54	2.02	1.95	3.49
				2400	51.95	52.77	-1.56	1.96	1.90	3.37
				2480	51.89	52.66	-1.47	2.05	1.99	2.70
H	6/28/2018	5600	Head	5600	34.47	35.53	-2.99	4.88	5.06	-3.52
				5500	34.49	35.65	-3.25	4.83	4.96	-2.62
				5725	34.30	35.39	-3.08	5.05	5.19	-2.74
H	6/29/2018	5600	Body	5600	46.99	48.48	-3.07	5.67	5.76	-1.65
				5500	47.25	48.61	-2.80	5.60	5.64	-0.79
				5725	46.93	48.31	-2.85	5.91	5.91	0.07
H	7/2/2018	5600	Head	5600	33.88	35.53	-4.65	5.10	5.06	0.81
				5500	34.03	35.65	-4.54	5.01	4.96	0.99
				5725	33.77	35.39	-4.58	5.22	5.19	0.52
H	7/5/2018	5600	Body	5600	47.45	48.48	-2.12	5.49	5.76	-4.74
				5500	47.60	48.61	-2.08	5.42	5.64	-3.96
				5725	47.36	48.31	-1.96	5.68	5.91	-3.87
H	7/6/2018	5600	Head	5600	34.54	35.53	-2.80	4.93	5.06	-2.57
				5500	34.59	35.65	-2.97	4.89	4.96	-1.47
				5725	34.52	35.39	-2.46	5.08	5.19	-2.14

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
H	7/9/2018	5600	Body	5600	49.39	48.48	1.88	5.58	5.76	-3.21
				5500	49.47	48.61	1.76	5.47	5.64	-3.16
				5725	49.23	48.31	1.91	5.79	5.91	-1.91
H	7/11/2018	5600	Head	5600	35.17	35.53	-1.02	4.93	5.06	-2.49
				5500	35.28	35.65	-1.03	4.82	4.96	-2.72
				5725	34.94	35.39	-1.28	5.06	5.19	-2.47
H	7/16/2018	5600	Head	5600	34.23	35.53	-3.67	4.90	5.06	-3.19
				5500	34.35	35.65	-3.64	4.83	4.96	-2.68
				5725	34.12	35.39	-3.59	5.03	5.19	-2.99
H	7/21/2018	5600	Body	5600	47.57	48.48	-1.87	5.61	5.76	-2.64
				5500	47.94	48.61	-1.38	5.50	5.64	-2.61
				5725	47.50	48.31	-1.67	5.77	5.91	-2.30
H	7/21/2018	5600	Head	5600	36.87	35.53	3.76	5.13	5.06	1.34
				5500	37.16	35.65	4.24	4.97	4.96	0.22
				5725	36.63	35.39	3.50	5.28	5.19	1.79
H	7/24/2018	5250	Head	5250	37.09	35.93	3.22	4.52	4.70	-3.79
				5150	37.29	36.05	3.45	4.45	4.60	-3.21
				5350	37.00	35.82	3.30	4.64	4.80	-3.34
H	7/25/2018	5600	Head	5600	34.31	35.53	-3.44	4.89	5.06	-3.29
				5500	34.51	35.65	-3.19	4.83	4.96	-2.58
				5725	34.27	35.39	-3.17	5.05	5.19	-2.76
H	7/26/2018	5600	Body	5600	49.42	48.48	1.94	5.72	5.76	-0.80
				5500	49.53	48.61	1.89	5.52	5.64	-2.24
				5725	49.31	48.31	2.07	5.89	5.91	-0.28
H	7/29/2018	5600	Head	5600	37.12	35.53	4.46	5.02	5.06	-0.89
				5500	37.22	35.65	4.41	4.90	4.96	-1.11
				5725	36.91	35.39	4.29	5.20	5.19	0.19
H	7/29/2018	5600	Body	5600	48.30	48.48	-0.37	5.51	5.76	-4.34
				5500	48.46	48.61	-0.32	5.38	5.64	-4.65
				5725	48.12	48.31	-0.39	5.72	5.91	-3.14
1	6/26/2018	750	Body	750	54.85	55.55	-1.25	0.96	0.96	-0.32
				695	55.50	55.76	-0.46	0.91	0.96	-4.80
				790	54.53	55.39	-1.56	1.00	0.97	3.92
1	6/27/2018	750	Head	750	43.38	41.96	3.38	0.90	0.89	1.22
				660	43.77	42.42	3.17	0.87	0.89	-1.74
				790	43.24	41.76	3.55	0.91	0.90	1.86
1	6/30/2018	750	Body	750	56.08	55.55	0.96	0.97	0.96	0.29
				660	56.92	55.89	1.84	0.88	0.96	-7.90
				790	55.63	55.39	0.43	1.01	0.97	4.02

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
1	7/1/2018	750	Body	750	53.52	55.55	-3.65	0.96	0.96	0.02
				660	54.53	55.89	-2.44	0.88	0.96	-8.46
				790	53.12	55.39	-4.10	1.00	0.97	3.81
1	7/2/2018	750	Body	750	56.36	55.55	1.47	0.96	0.96	-0.82
				660	57.14	55.89	2.23	0.87	0.96	-8.84
				790	55.89	55.39	0.90	0.99	0.97	2.63
1	7/3/2018	835	Head	835	42.26	41.50	1.83	0.91	0.90	1.04
				805	42.39	41.68	1.70	0.90	0.90	0.40
				905	42.23	41.50	1.76	0.94	0.97	-3.34
1	7/5/2018	750	Body	750	56.28	55.55	1.32	0.97	0.96	0.35
				695	56.92	55.76	2.08	0.91	0.96	-4.61
				790	55.94	55.39	0.99	1.00	0.97	3.71
1	7/5/2018	835	Body	835	54.02	55.20	-2.14	0.96	0.97	-0.70
				805	54.41	55.33	-1.67	0.92	0.97	-4.38
				905	53.45	55.00	-2.82	1.04	1.05	-1.38
1	7/6/2018	2600	Head	2600	38.85	39.01	-0.41	1.95	1.96	-0.72
				2495	39.01	39.14	-0.34	1.88	1.85	1.59
				2690	38.70	38.90	-0.51	2.02	2.06	-2.16
1	7/9/2018	835	Head	835	40.85	41.50	-1.57	0.91	0.90	1.53
				805	40.89	41.68	-1.89	0.90	0.90	0.71
				905	40.64	41.50	-2.07	0.94	0.97	-3.28
1	7/10/2018	2600	Head	2600	37.77	39.01	-3.18	1.92	1.96	-2.00
				2495	37.90	39.14	-3.18	1.84	1.85	-0.31
				2690	37.62	38.90	-3.28	2.00	2.06	-3.13
1	7/10/2018	2300	Head	2300	38.40	39.47	-2.72	1.71	1.66	2.84
				2350	38.27	39.38	-2.83	1.74	1.71	1.95
				2400	38.20	39.30	-2.79	1.78	1.75	1.85
1	7/20/2018	2300	Body	2300	50.73	52.90	-4.11	1.80	1.80	-0.42
				2350	50.60	52.84	-4.24	1.86	1.85	0.66
				2400	50.43	52.77	-4.44	1.91	1.90	0.79
1	7/22/2018	2600	Body	2600	50.59	52.51	-3.66	2.24	2.16	3.57
				2495	50.88	52.64	-3.35	2.10	2.01	4.46
				2690	50.32	52.40	-3.96	2.35	2.29	2.52
1	7/25/2018	2600	Head	2600	38.65	39.01	-0.92	1.90	1.96	-3.17
				2495	38.79	39.14	-0.90	1.82	1.85	-1.55
				2690	38.49	38.90	-1.05	1.98	2.06	-3.91
1	7/26/2018	2600	Body	2600	50.25	52.51	-4.31	2.24	2.16	3.62
				2495	50.59	52.64	-3.90	2.11	2.01	4.71
				2690	50.00	52.40	-4.58	2.34	2.29	2.48
1	7/27/2018	835	Body	835	53.78	55.20	-2.57	0.96	0.97	-0.69
				805	54.15	55.33	-2.14	0.94	0.97	-2.61
				905	53.11	55.00	-3.44	1.04	1.05	-1.00

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
3	6/26/2018	835	Body	835	53.49	55.20	-3.10	0.98	0.97	0.75
				805	53.79	55.33	-2.79	0.95	0.97	-1.80
				905	52.75	55.00	-4.09	1.06	1.05	0.33
3	6/26/2018	835	Head	835	43.27	41.50	4.27	0.94	0.90	4.02
				805	43.42	41.68	4.18	0.92	0.90	2.83
				905	43.11	41.50	3.88	0.96	0.97	-0.90
3	6/30/2018	835	Body	835	53.33	55.20	-3.39	0.99	0.97	1.68
				805	53.66	55.33	-3.03	0.95	0.97	-1.61
				905	52.60	55.00	-4.36	1.05	1.05	0.14
3	6/30/2018	835	Head	835	42.43	41.50	2.24	0.92	0.90	2.69
				805	42.50	41.68	1.97	0.91	0.90	1.64
				905	42.25	41.50	1.81	0.95	0.97	-2.43
3	7/2/2018	2600	Head	2600	39.78	39.01	1.97	1.97	1.96	0.45
				2495	39.92	39.14	1.98	1.88	1.85	1.91
				2690	39.61	38.90	1.83	2.03	2.06	-1.28
3	7/2/2018	2600	Body	2600	50.42	52.51	-3.98	2.12	2.16	-2.07
				2495	50.70	52.64	-3.69	1.99	2.01	-1.06
				2690	50.13	52.40	-4.33	2.21	2.29	-3.47
3	7/5/2018	2300	Body	2300	52.40	52.90	-0.95	1.87	1.80	3.74
				2350	52.21	52.84	-1.19	1.93	1.85	4.33
				2400	52.03	52.77	-1.41	1.99	1.90	4.58
3	7/6/2018	2600	Head	2600	38.70	39.01	-0.80	1.97	1.96	0.14
				2495	38.88	39.14	-0.67	1.88	1.85	1.91
				2690	38.59	38.90	-0.79	2.03	2.06	-1.24
3	7/8/2018	2600	Body	2600	52.44	52.51	-0.13	2.21	2.16	2.46
				2495	52.80	52.64	0.30	2.09	2.01	3.96
				2690	52.22	52.40	-0.34	2.32	2.29	1.34
3	7/12/2018	2600	Body	2600	53.41	52.51	1.71	2.22	2.16	2.55
				2495	53.65	52.64	1.91	2.09	2.01	3.91
				2690	53.12	52.40	1.38	2.33	2.29	1.65
3	7/20/2018	2300	Body	2300	52.26	52.90	-1.22	1.77	1.80	-2.08
				2350	52.11	52.84	-1.38	1.83	1.85	-1.28
				2400	51.93	52.77	-1.60	1.88	1.90	-1.00
3	7/22/2018	1900	Body	1900	52.24	53.30	-1.99	1.57	1.52	3.09
				1850	52.34	53.30	-1.80	1.51	1.52	-0.53
				1920	52.16	53.30	-2.14	1.59	1.52	4.34
3	7/22/2018	2600	Body	2600	51.98	52.51	-1.01	2.16	2.16	-0.13
				2495	52.28	52.64	-0.69	2.03	2.01	0.73
				2690	51.75	52.40	-1.24	2.26	2.29	-1.06

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
3	7/26/2018	2600	Head	2600	37.14	39.01	-4.80	1.93	1.96	-1.79
				2495	37.26	39.14	-4.81	1.85	1.85	0.02
				2690	37.02	38.90	-4.83	2.00	2.06	-2.98
3	7/26/2018	2300	Body	2300	48.82	52.90	-7.72	1.89	1.80	4.85
				2350	48.64	52.84	-7.95	1.95	1.85	5.15
				2400	48.46	52.77	-8.17	2.00	1.90	5.53
3	7/27/2018	1900	Body	1900	50.78	53.30	-4.73	1.55	1.52	2.04
				1850	51.03	53.30	-4.26	1.51	1.52	-0.59
				1920	50.74	53.30	-4.80	1.57	1.52	3.36
3	7/27/2018	1750	Body	1750	52.58	53.44	-1.61	1.49	1.49	-0.08
				1710	52.66	53.54	-1.65	1.45	1.46	-0.79
				1755	52.66	53.43	-1.44	1.49	1.49	-0.15
4	6/25/2018	835	Body	835	54.08	55.20	-2.03	0.95	0.97	-1.98
				805	54.28	55.33	-1.91	0.92	0.97	-4.68
				905	53.35	55.00	-3.00	1.03	1.05	-2.52
4	6/25/2018	835	Head	835	41.98	41.50	1.16	0.92	0.90	2.53
				805	42.03	41.68	0.84	0.91	0.90	1.50
				905	41.80	41.50	0.72	0.95	0.97	-2.56
4	6/29/2018	835	Body	835	54.03	55.20	-2.12	0.96	0.97	-0.77
				805	54.23	55.33	-2.00	0.93	0.97	-3.38
				905	53.35	55.00	-3.00	1.05	1.05	-0.71
4	6/29/2018	835	Head	835	42.08	41.50	1.40	0.93	0.90	3.76
				805	42.07	41.68	0.94	0.93	0.90	3.78
				905	41.90	41.50	0.96	0.97	0.97	-0.20
4	7/2/2018	1900	Head	1900	40.86	40.00	2.15	1.45	1.40	3.21
				1850	40.97	40.00	2.43	1.42	1.40	1.36
				1920	40.89	40.00	2.23	1.46	1.40	3.93
4	7/2/2018	1900	Body	1900	55.61	53.30	4.33	1.56	1.52	2.43
				1850	55.75	53.30	4.60	1.52	1.52	-0.26
				1920	55.57	53.30	4.26	1.59	1.52	4.28
4	7/6/2018	1900	Head	1900	38.96	40.00	-2.60	1.45	1.40	3.36
				1850	39.05	40.00	-2.38	1.42	1.40	1.43
				1920	38.94	40.00	-2.65	1.46	1.40	4.29
4	7/6/2018	1900	Body	1900	49.69	53.30	-6.77	1.49	1.52	-2.06
				1850	49.92	53.30	-6.34	1.44	1.52	-5.01
				1920	49.62	53.30	-6.91	1.51	1.52	-0.76
4	7/7/2018	1900	Body	1900	48.60	53.30	-8.82	1.63	1.52	6.97
				1850	48.73	53.30	-8.57	1.58	1.52	3.75
				1920	48.50	53.30	-9.01	1.65	1.52	8.29

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity (ϵ_r)			Conductivity (σ)		
					Measured	Target	Delta (%)	Measured	Target	Delta (%)
4	7/8/2018	1900	Body	1900	53.42	53.30	0.23	1.65	1.52	8.68
				1850	53.59	53.30	0.54	1.59	1.52	4.74
				1920	53.37	53.30	0.13	1.67	1.52	9.74
4	7/9/2018	1900	Body	1900	53.45	53.30	0.28	1.59	1.52	4.74
				1850	53.68	53.30	0.71	1.54	1.52	1.38
				1920	53.42	53.30	0.23	1.61	1.52	5.79
4	7/10/2018	1900	Body	1900	55.73	53.30	4.56	1.58	1.52	3.75
				1850	55.87	53.30	4.82	1.53	1.52	0.92
				1920	55.73	53.30	4.56	1.59	1.52	4.87
4	7/11/2018	1900	Head	1900	40.71	40.00	1.78	1.43	1.40	1.93
				1850	40.83	40.00	2.08	1.40	1.40	0.00
				1920	40.67	40.00	1.68	1.44	1.40	2.64
4	7/20/2018	2600	Body	2600	52.05	52.51	-0.88	2.06	2.16	-4.57
				2495	52.30	52.64	-0.65	1.93	2.01	-3.99
				2690	51.80	52.40	-1.14	2.18	2.29	-4.87
4	7/24/2018	2600	Body	2600	54.52	52.51	3.83	2.21	2.16	2.18
				2495	54.81	52.64	4.12	2.10	2.01	4.16
				2690	54.29	52.40	3.61	2.33	2.29	1.78
4	7/27/2018	750	Body	750	57.78	55.55	4.02	0.97	0.96	0.84
				695	58.29	55.76	4.54	0.92	0.96	-4.53
				790	57.35	55.39	3.53	1.01	0.97	4.64

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 Date	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	6/27/2018	Head	D2600V2 SN:1006	10/5/2018	5.880	58.80	55.73	5.51	2.550	25.50	25.08	1.67	
A	7/1/2018	Head	D2600V2 SN:1006	10/5/2018	6.000	60.00	55.73	7.66	2.590	25.90	25.08	3.27	1,2
A	7/5/2018	Head	D2600V2 SN:1006	10/5/2018	5.480	54.80	55.73	-1.67	2.380	23.80	25.08	-5.10	
A	7/8/2018	Body	D2600V2 SN:1006	10/5/2018	5.690	56.90	56.13	1.37	2.480	24.80	25.00	-0.80	
A	7/11/2018	Head	D2600V2 SN:1006	10/5/2018	5.800	58.00	55.73	4.07	2.530	25.30	25.08	0.88	
A	7/13/2018	Body	D2600V2 SN:1006	10/5/2018	5.250	52.50	56.13	-6.47	2.300	23.00	25.00	-8.00	
A	7/21/2018	Body	D2600V2 SN:1006	10/5/2018	5.650	56.50	56.13	0.66	2.450	24.50	25.00	-2.00	
A	7/21/2018	Head	D2600V2 SN:1006	10/5/2018	5.590	55.90	55.73	0.31	2.430	24.30	25.08	-3.11	
A	7/25/2018	Body	D2600V2 SN:1006	10/5/2018	5.520	55.20	56.13	-1.66	2.410	24.10	25.00	-3.60	
A	7/29/2018	Head	D2600V2 SN:1006	10/5/2018	5.910	59.10	55.73	6.05	2.550	25.50	25.08	1.67	
B	6/27/2018	Head	D1750V2 SN:1053	8/24/2018	3.850	38.50	39.45	-2.41	2.050	20.50	20.58	-0.39	
B	6/30/2018	Body	D1750V2 SN:1053	8/24/2018	3.130	31.30	32.44	-3.51	1.650	16.50	17.31	-4.68	
B	7/1/2018	Head	D1750V2 SN:1053	8/24/2018	3.730	37.30	39.45	-5.45	1.980	19.80	20.58	-3.79	
B	7/5/2018	Body	D1750V2 SN:1053	8/24/2018	3.410	34.10	32.44	5.12	1.800	18.00	17.31	3.99	
B	7/6/2018	Body	D1900V2 SN:5d163	10/5/2018	4.120	41.20	42.99	-4.16	2.110	21.10	21.97	-3.96	3,4
B	7/9/2018	Body	D1750V2 SN:1053	8/24/2018	3.190	31.90	32.44	-1.66	1.680	16.80	17.31	-2.95	
B	7/9/2018	Head	D1750V2 SN:1053	8/24/2018	3.920	39.20	39.45	-0.63	2.080	20.80	20.58	1.07	
B	7/13/2018	Body	D1750V2 SN:1053	8/24/2018	3.440	34.40	32.44	6.04	1.820	18.20	17.31	5.14	
B	7/13/2018	Head	D1750V2 SN:1053	8/24/2018	3.690	36.90	39.45	-6.46	1.960	19.60	20.58	-4.76	5,6
B	7/13/2018	Head	D2600V2 SN:1006	10/5/2018	5.520	55.20	55.73	-0.95	2.470	24.70	25.08	-1.52	7,8
B	7/17/2018	Body	D1750V2 SN:1053	8/24/2018	3.220	32.20	32.44	-0.74	1.690	16.90	17.31	-2.37	
B	7/24/2018	Body	D2600V2 SN:1006	10/5/2018	5.770	57.70	56.13	2.80	2.510	25.10	25.00	0.40	
B	7/28/2018	Head	D2600V2 SN:1006	10/5/2018	5.960	59.60	55.73	6.94	2.670	26.70	25.08	6.46	
B	7/29/2018	Body	D2600V2 SN:1006	10/5/2018	5.580	55.80	56.13	-0.59	2.430	24.30	25.00	-2.80	
B	8/1/2018	Body	D2450V2 SN:748	2/14/2019	5.500	55.00	50.95	7.95	2.510	25.10	23.80	5.46	9,10
C	6/27/2018	Head	D1900V2 SN:5d163	10/5/2018	4.260	42.60	38.77	9.88	2.210	22.10	20.10	9.95	11,12
C	7/1/2018	Head	D1900V2 SN:5d163	10/5/2018	3.820	38.20	38.77	-1.47	2.010	20.10	20.10	0.00	
C	7/2/2018	Body	D1900V2 SN:5d163	10/5/2018	4.080	40.80	42.99	-5.09	2.110	21.10	21.97	-3.96	
C	7/6/2018	Head	D1900V2 SN:5d163	10/5/2018	3.850	38.50	38.77	-0.70	1.990	19.90	20.10	-1.00	
C	7/6/2018	Body	D1900V2 SN:5d163	10/5/2018	4.100	41.00	42.99	-4.63	2.130	21.30	21.97	-3.05	
C	7/12/2018	Head	D1900V2 SN:5d140	4/11/2019	3.990	39.90	38.93	2.49	2.070	20.70	20.14	2.78	
C	7/12/2018	Body	D1900V2 SN:5d140	4/11/2019	4.060	40.60	41.00	-0.98	2.120	21.20	21.05	0.71	
C	7/21/2018	Body	D1900V2 SN:5d140	4/11/2019	4.330	43.30	41.00	5.61	2.240	22.40	21.05	6.41	
C	7/21/2018	Head	D1900V2 SN:5d140	4/11/2019	4.170	41.70	38.93	7.12	2.160	21.60	20.14	7.25	13,14
C	7/24/2018	Head	D2600V2 SN:1006	10/5/2018	6.100	61.00	55.73	9.46	2.720	27.20	25.08	8.45	15,16
C	7/30/2018	Head	D1900V2 SN:5d140	4/11/2019	4.180	41.80	38.93	7.37	2.150	21.50	20.14	6.75	

SAR Lab	Date	Tissue Type	Dipole Type Serial #	Dipole Cal. Due Date	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	6/27/2018	Head	D2300V2 SN:1002	3/16/2019	4.840	48.40	51.75	-6.47	2.280	22.80	24.68	-7.62	17,18
D	6/27/2018	Head	D2600V2 SN:1006	10/5/2018	5.680	56.80	55.73	1.92	2.490	24.90	25.08	-0.72	
D	7/1/2018	Head	D2300V2 SN:1058	8/31/2018	4.950	49.50	53.74	-7.89	2.330	23.30	25.31	-7.94	19,20
D	7/1/2018	Head	D2600V2 SN:1006	10/5/2018	5.590	55.90	55.73	0.31	2.440	24.40	25.08	-2.71	
D	7/2/2018	Body	D2300V2 SN:1058	8/31/2018	5.380	53.80	54.14	-0.63	2.590	25.90	24.88	4.10	
D	7/5/2018	Body	D2300V2 SN:1058	8/31/2018	5.480	54.80	54.14	1.22	2.590	25.90	24.88	4.10	
D	7/5/2018	Body	D2600V2 SN:1006	10/5/2018	5.720	57.20	56.13	1.91	2.500	25.00	25.00	0.00	
D	7/9/2018	Body	D2300V2 SN:1058	8/31/2018	5.250	52.50	54.14	-3.03	2.510	25.10	24.88	0.88	
D	7/9/2018	Body	D2600V2 SN:1006	10/5/2018	5.260	52.60	56.13	-6.29	2.310	23.10	25.00	-7.60	21,22
D	7/13/2018	Body	D2600V2 SN:1006	10/5/2018	5.350	53.50	56.13	-4.69	2.460	24.60	25.00	-1.60	
D	7/13/2018	Body	D2300V2 SN:1058	8/31/2018	4.990	49.90	54.14	-7.83	2.370	23.70	24.88	-4.74	
D	7/20/2018	Body	D2300V2 SN:1058	8/31/2018	5.000	50.00	54.14	-7.65	2.380	23.80	24.88	-4.34	
D	7/20/2018	Head	D2300V2 SN:1058	8/31/2018	5.030	50.30	53.74	-6.40	2.360	23.60	25.31	-6.76	
D	7/24/2018	Body	D2600V2 SN:1006	10/5/2018	5.750	57.50	56.13	2.44	2.520	25.20	25.00	0.80	
D	7/25/2018	Body	D2300V2 SN:1058	8/31/2018	5.610	56.10	54.14	3.62	2.690	26.90	24.88	8.12	
D	7/25/2018	Head	D2300V2 SN:1058	8/31/2018	5.000	50.00	53.74	-6.96	2.360	23.60	25.31	-6.76	
D	8/1/2018	Body	D2450V2 SN:748	2/14/2019	5.270	52.70	50.95	3.43	2.410	24.10	23.80	1.26	23,24
E	6/28/2018	Head	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.790	77.90	78.40	-0.64	2.230	22.30	22.20	0.45	
E	6/30/2018	Body	D5GHzV2 SN:1138 (5.8 GHz)	10/26/2018	8.340	83.40	76.80	8.59	2.330	23.30	21.30	9.39	
E	7/2/2018	Head	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.530	75.30	78.40	-3.95	2.150	21.50	22.20	-3.15	
E	7/5/2018	Body	D5GHzV2 SN:1138 (5.8 GHz)	10/26/2018	8.130	81.30	76.80	5.86	2.250	22.50	21.30	5.63	25,26
E	7/6/2018	Head	D5GHzV2 SN:1138 (5.8 GHz)	10/26/2018	7.960	79.60	79.70	-0.13	2.240	22.40	22.70	-1.32	
E	7/8/2018	Body	D5GHzV2 SN:1138 (5.2 GHz)	10/26/2018	7.730	77.30	73.40	5.31	2.190	21.90	20.60	6.31	
E	7/9/2018	Head	D5GHzV2 SN:1138 (5.2 GHz)	10/26/2018	7.380	73.80	77.70	-5.02	2.120	21.20	22.20	-4.50	
E	7/20/2018	Body	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.410	74.10	73.90	0.27	2.070	20.70	20.60	0.49	
E	7/20/2018	Head	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.520	75.20	78.40	-4.08	2.160	21.60	22.20	-2.70	
E	7/24/2018	Head	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	7.800	78.00	78.40	-0.51	2.240	22.40	22.20	0.90	
E	7/24/2018	Body	D5GHzV2 SN:1003 (5.75 GHz)	3/13/2019	8.020	80.20	73.90	8.53	2.240	22.40	20.60	8.74	27,28
E	7/27/2018	Head	D5GHzV2 SN:1138 (5.2 GHz)	10/26/2018	7.440	74.40	77.70	-4.25	2.160	21.60	22.20	-2.70	
E	7/28/2018	Body	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.670	76.70	73.60	4.21	2.160	21.60	20.50	5.37	
F	6/28/2018	Head	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.770	77.70	80.60	-3.60	2.230	22.30	23.20	-3.88	
F	6/28/2018	Body	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	6.760	67.60	73.60	-8.15	1.970	19.70	20.50	-3.90	29,30
F	7/2/2018	Body	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.810	78.10	73.60	6.11	2.230	22.30	20.50	8.78	
F	7/2/2018	Head	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.780	77.80	80.60	-3.47	2.210	22.10	23.20	-4.74	
F	7/6/2018	Body	D5GHzV2 SN:1138 (5.2 GHz)	10/26/2018	7.570	75.70	73.40	3.13	2.160	21.60	20.60	4.85	
F	7/6/2018	Head	D5GHzV2 SN:1138 (5.2 GHz)	10/26/2018	7.130	71.30	77.70	-8.24	2.030	20.30	22.20	-8.56	31,32
F	7/8/2018	Body	D2450V2 SN:706	5/18/2019	4.930	49.30	50.60	-2.57	2.300	23.00	23.70	-2.95	33,34
F	7/26/2018	Body	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	7.880	78.80	73.60	7.07	2.240	22.40	20.50	9.27	
F	7/27/2018	Head	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	8.080	80.80	80.60	0.25	2.320	23.20	23.20	0.00	
F	7/30/2018	Body	D2450V2 SN:748	2/14/2019	5.410	54.10	50.95	6.18	2.520	25.20	23.80	5.88	35,36

SAR Lab	Date	Tissue Type	Dipole Type Serial #	Dipole Cal. Due Date	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	6/30/2018	Body	D2450V2 SN:706	5/18/2019	5.360	53.60	50.60	5.93	2.470	24.70	23.70	4.22	
G	6/30/2018	Head	D2450V2 SN:706	5/18/2019	5.480	54.80	52.60	4.18	2.540	25.40	24.60	3.25	
G	7/5/2018	Body	D2450V2 SN:706	5/18/2019	5.460	54.60	50.60	7.91	2.510	25.10	23.70	5.91	37,38
G	7/8/2018	Head	D2450V2 SN:706	5/18/2019	5.480	54.80	52.60	4.18	2.540	25.40	24.60	3.25	
G	7/9/2018	Body	D2450V2 SN:706	5/18/2019	5.370	53.70	50.60	6.13	2.450	24.50	23.70	3.38	
G	7/12/2018	Head	D2450V2 SN:706	5/18/2019	5.100	51.00	52.60	-3.04	2.430	24.30	24.60	-1.22	
G	7/12/2018	Body	D2450V2 SN:748	2/14/2019	5.550	55.50	50.95	8.93	2.580	25.80	23.80	8.40	39,40
G	7/20/2018	Body	D2450V2 SN:748	2/14/2019	5.330	53.30	50.95	4.61	2.460	24.60	23.80	3.36	
G	7/24/2018	Body	D2450V2 SN:748	2/14/2019	5.500	55.00	50.95	7.95	2.530	25.30	23.80	6.30	
G	7/24/2018	Head	D2450V2 SN:748	2/14/2019	5.430	54.30	52.94	2.57	2.500	25.00	24.60	1.63	
G	7/27/2018	Head	D2450V2 SN:748	2/14/2019	5.530	55.30	52.94	4.46	2.550	25.50	24.60	3.66	
G	7/27/2018	Body	D2450V2 SN:748	2/14/2019	5.410	54.10	50.95	6.18	2.510	25.10	23.80	5.46	
H	6/28/2018	Head	D5GHzV2 SN:1003 (5.6 GHz)	3/13/2019	8.120	81.20	84.50	-3.91	2.290	22.90	24.00	-4.58	
H	6/29/2018	Body	D5GHzV2 SN:1138 (5.6 GHz)	10/26/2018	7.850	78.50	79.50	-1.26	2.220	22.20	22.30	-0.45	
H	7/2/2018	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	7.790	77.90	84.50	-7.81	2.190	21.90	24.00	-8.75	
H	7/5/2018	Body	D5GHzV2 SN:1138 (5.6 GHz)	10/26/2018	8.410	84.10	79.50	5.79	2.400	24.00	22.30	7.62	
H	7/6/2018	Head	D5GHzV2 SN:1138 (5.6 GHz)	10/26/2018	8.320	83.20	83.20	0.00	2.340	23.40	23.70	-1.27	
H	7/9/2018	Body	D5GHzV2 SN:1138 (5.6 GHz)	10/26/2018	7.310	73.10	79.50	-8.05	2.080	20.80	22.30	-6.73	41,42
H	7/11/2018	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	8.420	84.20	84.50	-0.36	2.380	23.80	24.00	-0.83	
H	7/16/2018	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	7.860	78.60	84.50	-6.98	2.210	22.10	24.00	-7.92	
H	7/21/2018	Body	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	7.720	77.20	77.70	-0.64	2.190	21.90	21.70	0.92	
H	7/21/2018	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	7.950	79.50	84.50	-5.92	2.250	22.50	24.00	-6.25	
H	7/24/2018	Head	D5GHzV2 SN:1003 (5.25 GHz)	3/13/2019	8.520	85.20	80.60	5.71	2.470	24.70	23.20	6.47	
H	7/25/2018	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	7.720	77.20	84.50	-8.64	2.190	21.90	24.00	-8.75	43,44
H	7/26/2018	Body	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	8.010	80.10	77.70	3.09	2.260	22.60	21.70	4.15	
H	7/29/2018	Head	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	8.020	80.20	84.50	-5.09	2.270	22.70	24.00	-5.42	
H	7/29/2018	Body	D5GHzV2 SN:1003 (5.60 GHz)	3/13/2019	8.400	84.00	77.70	8.11	2.370	23.70	21.70	9.22	
1	6/26/2018	Body	D750V3 SN:1071	11/21/2018	0.797	7.97	8.52	-6.46	0.532	5.32	5.69	-6.50	45,46
1	6/27/2018	Head	D750V3 SN:1071	11/21/2018	0.812	8.12	8.59	-5.47	0.538	5.38	5.73	-6.11	
1	6/30/2018	Body	D750V3 SN:1071	11/21/2018	0.892	8.92	8.52	4.69	0.596	5.96	5.69	4.75	
1	6/30/2018	Head	D750V3 SN:1071	11/21/2018	0.825	8.25	8.59	-3.96	0.544	5.44	5.73	-5.06	
1	7/3/2018	Head	D835V2 SN:4d002	11/21/2018	0.964	9.64	10.27	-6.13	0.632	6.32	6.76	-6.51	
1	7/5/2018	Body	D750V3 SN:1071	11/21/2018	0.885	8.85	8.52	3.87	0.591	5.91	5.69	3.87	
1	7/5/2018	Body	D835V2 SN:4d002	11/21/2018	0.959	9.59	10.23	-6.26	0.632	6.32	6.80	-7.06	47,48
1	7/6/2018	Head	D2600V2 SN:1036	3/16/2019	5.630	56.30	54.54	3.23	2.520	25.20	24.56	2.61	
1	7/9/2018	Head	D835V2 SN:4d002	11/21/2018	0.988	9.88	10.27	-3.80	0.646	6.46	6.76	-4.44	
1	7/10/2018	Head	D2600V2 SN:1036	3/16/2019	5.730	57.30	54.54	5.06	2.560	25.60	24.56	4.23	49,50
1	7/10/2018	Head	D2300V2 SN:1002	3/16/2019	4.870	48.70	51.75	-5.89	2.310	23.10	24.68	-6.40	51,52
1	7/20/2018	Body	D2300V2 SN:1002	3/16/2019	4.990	49.90	50.16	-0.52	2.320	23.20	23.72	-2.19	
1	7/22/2018	Body	D2600V2 SN:1036	3/16/2019	5.660	56.60	56.13	0.84	2.430	24.30	25.04	-2.96	
1	7/25/2018	Head	D2600V2 SN:1036	3/16/2019	5.620	56.20	54.54	3.04	2.530	25.30	24.56	3.01	
1	7/26/2018	Body	D2600V2 SN:1006	10/5/2018	5.460	54.60	56.13	-2.73	2.350	23.50	25.00	-6.00	
1	7/27/2018	Body	D835V2 SN:4d002	11/21/2018	0.977	9.77	10.23	-4.50	0.644	6.44	6.80	-5.29	

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	6/26/2018	Body	D835V2 SN:4d142	10/12/2018	1.030	10.30	9.63	6.96	0.676	6.76	6.27	7.81	53,54
3	6/26/2018	Head	D835V2 SN:4d142	10/12/2018	0.960	9.60	9.64	-0.41	0.630	6.30	6.22	1.29	
3	6/30/2018	Body	D835V2 SN:4d002	11/21/2018	1.030	10.30	10.23	0.68	0.678	6.78	6.80	-0.29	
3	6/30/2018	Head	D835V2 SN:4d002	11/21/2018	1.000	10.00	10.27	-2.63	0.657	6.57	6.76	-2.81	55,56
3	7/2/2018	Head	D2600V2 SN:1036	3/16/2019	5.580	55.80	54.54	2.31	2.500	25.00	24.56	1.79	
3	7/2/2018	Body	D2600V2 SN:1036	3/16/2019	5.650	56.50	56.13	0.66	2.490	24.90	25.04	-0.56	
3	7/5/2018	Body	D2300V2 SN:1058	8/31/2018	4.990	49.90	54.14	-7.83	2.320	23.20	24.88	-6.75	57,58
3	7/6/2018	Head	D2600V2 SN:1036	3/16/2019	5.370	53.70	54.54	-1.54	2.410	24.10	24.56	-1.87	
3	7/8/2018	Body	D2600V2 SN:1036	3/16/2019	5.410	54.10	56.13	-3.62	2.320	23.20	25.04	-7.35	59,60
3	7/12/2018	Body	D2600V2 SN:1036	3/16/2019	5.470	54.70	56.13	-2.55	2.340	23.40	25.04	-6.55	
3	7/20/2018	Body	D2300V2 SN:1002	3/16/2019	4.600	46.00	50.16	-8.29	2.230	22.30	23.72	-5.99	61,62
3	7/22/2018	Body	D1900V2 SN:5d163	10/5/2018	4.100	41.00	42.99	-4.63	2.110	21.10	21.97	-3.96	63,64
3	7/22/2018	Body	D2600V2 SN:1036	3/16/2019	5.710	57.10	56.13	1.73	2.520	25.20	25.04	0.64	
3	7/26/2018	Head	D2600V2 SN:1006	10/5/2018	5.270	52.70	55.73	-5.44	2.350	23.50	25.08	-6.30	65,66
3	7/26/2018	Body	D2300V2 SN:1002	3/16/2019	5.070	50.70	50.16	1.08	2.480	24.80	23.72	4.55	
3	7/27/2018	Body	D1900V2 SN:5d163	10/5/2018	4.230	42.30	42.99	-1.61	2.180	21.80	21.97	-0.77	
3	7/27/2018	Body	D1750V2 SN:1077	10/5/2018	3.820	38.20	37.34	2.30	2.030	20.30	19.98	1.60	67,68
4	6/25/2018	Body	D835V2 SN:4d142	10/12/2018	0.983	9.83	9.63	2.08	0.651	6.51	6.27	3.83	69,70
4	6/25/2018	Head	D835V2 SN:4d142	10/12/2018	0.976	9.76	9.64	1.24	0.638	6.38	6.22	2.57	
4	6/29/2018	Body	D835V2 SN:4d002	11/21/2018	0.966	9.66	10.23	-5.57	0.641	6.41	6.80	-5.74	71,72
4	6/29/2018	Head	D835V2 SN:4d002	11/21/2018	0.971	9.71	10.27	-5.45	0.635	6.35	6.76	-6.07	
4	7/2/2018	Head	D1900V2 SN:5d140	4/11/2019	4.210	42.10	38.93	8.14	2.190	21.90	20.14	8.74	
4	7/2/2018	Body	D1900V2 SN:5d140	4/11/2019	4.090	40.90	41.00	-0.24	2.110	21.10	21.05	0.24	
4	7/6/2018	Head	D1900V2 SN:5d140	4/11/2019	3.780	37.80	38.93	-2.90	1.960	19.60	20.14	-2.68	
4	7/6/2018	Body	D1900V2 SN:5d163	10/5/2018	4.210	42.10	42.99	-2.07	2.170	21.70	21.97	-1.23	73,74
4	7/10/2018	Body	D1900V2 SN:5d140	4/11/2019	3.720	37.20	41.00	-9.27	1.910	19.10	21.05	-9.26	75,76
4	7/11/2018	Head	D1900V2 SN:5d140	4/11/2019	3.820	38.20	38.93	-1.88	1.980	19.80	20.14	-1.69	
4	7/20/2018	Body	D2600V2 SN:1036	3/16/2019	5.540	55.40	56.13	-1.30	2.450	24.50	25.04	-2.16	77,78
4	7/24/2018	Body	D2600V2 SN:1036	3/16/2019	5.580	55.80	56.13	-0.59	2.420	24.20	25.04	-3.35	
4	7/27/2018	Body	D750V3 SN:1071	11/21/2018	0.781	7.81	8.52	-8.33	0.525	5.25	5.69	-7.73	79,80

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 ANT1, ANT2, ANT3, ANT4, ANT5, and ANT6 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 of ± 0.5 dB for modulations other than LTE 2CA, where a ± 1.0 dB tolerance is included. 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 for GSM:

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)	30.00	30.00	28.00	28.00				
	GPRS 2 slots	29.00	29.00	27.00	27.00				
	EGPRS 1 slot	24.50	24.50	22.50	22.50				
	EGPRS 2 slots	23.50	23.50	21.50	21.50				
GSM1900	Voice/GPRS (1 slot)	30.00	29.50	27.50	27.50	29.50	29.50	27.50	27.50
	GPRS 2 slots	29.00	26.50	26.50	26.50	28.50	26.70	26.50	26.50
	EGPRS 1 slot	25.00	25.00	22.50	22.50	24.50	24.50	22.50	22.50
	EGPRS 2 slots	24.00	24.00	21.50	21.50	23.50	23.50	21.50	21.50

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	28.98	19.95	30.00	20.97	28.98	19.95	30.00	20.97
			190	836.6	28.85	19.82			28.85	19.82		
			251	848.8	28.83	19.80			28.83	19.80		
		2	128	824.2	29.00	22.98	29.00	22.98	29.00	22.98	29.00	22.98
			190	836.6	28.95	22.93			28.95	22.93		
			251	848.8	28.94	22.92			28.94	22.92		
EDGE (8PSK)	MCS5	1	128	824.2	24.50	15.47	24.50	15.47	24.50	15.47	24.50	15.47
			190	836.6	24.50	15.47			24.50	15.47		
			251	848.8	24.50	15.47			24.50	15.47		
		2	128	824.2	23.00	16.98	23.50	17.48	23.00	16.98	23.50	17.48
			190	836.6	23.00	16.98			23.00	16.98		
			251	848.8	23.00	16.98			23.00	16.98		

Note(s):

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

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	27.00	17.97	28.00	18.97	27.00	17.97	28.00	18.97
			190	836.6	27.00	17.97			27.00	17.97		
			251	848.8	27.00	17.97			27.00	17.97		
		2	128	824.2	27.00	20.98	27.00	20.98	27.00	20.98	27.00	20.98
			190	836.6	27.00	20.98			27.00	20.98		
			251	848.8	27.00	20.98			27.00	20.98		
EDGE (8PSK)	MCS5	1	128	824.2	22.50	13.47	22.50	13.47	22.50	13.47	22.50	13.47
			190	836.6	22.50	13.47			22.50	13.47		
			251	848.8	22.50	13.47			22.50	13.47		
		2	128	824.2	21.50	15.48	21.50	15.48	21.50	15.48	21.50	15.48
			190	836.6	21.50	15.48			21.50	15.48		
			251	848.8	21.50	15.48			21.50	15.48		

Note(s):

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

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	28.93	19.90	30.00	20.97	28.93	19.90	29.50	20.47
			661	1880.0	28.87	19.84			28.87	19.84		
			810	1909.8	28.84	19.80			28.84	19.80		
		2	512	1850.2	28.99	22.97	29.00	22.98	26.43	20.41	26.50	20.48
			661	1880.0	28.89	22.87			26.34	20.32		
			810	1909.8	28.89	22.87			26.36	20.34		
EDGE (8PSK)	MCS5	1	512	1850.2	25.00	15.97	25.00	15.97	25.00	15.97	25.00	15.97
			661	1880.0	25.00	15.97			25.00	15.97		
			810	1909.8	25.00	15.97			25.00	15.97		
		2	512	1850.2	24.00	17.98	24.00	17.98	24.00	17.98	24.00	17.98
			661	1880.0	24.00	17.98			24.00	17.98		
			810	1909.8	24.00	17.98			24.00	17.98		

Note(s):

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

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	26.50	17.47	27.50	18.47	26.50	17.47	27.50	18.47
			661	1880.0	26.50	17.47			26.50	17.47		
			810	1909.8	26.50	17.47			26.50	17.47		
		2	512	1850.2	25.50	19.48	26.50	20.48	25.50	19.48	26.50	20.48
			661	1880.0	25.50	19.48			25.50	19.48		
			810	1909.8	25.50	19.48			25.50	19.48		
EDGE (8PSK)	MCS5	1	512	1850.2	22.50	13.47	22.50	13.47	22.50	13.47	22.50	13.47
			661	1880.0	22.50	13.47			22.50	13.47		
			810	1909.8	22.50	13.47			22.50	13.47		
		2	512	1850.2	21.50	15.48	21.50	15.48	21.50	15.48	21.50	15.48
			661	1880.0	21.50	15.48			21.50	15.48		
			810	1909.8	21.50	15.48			21.50	15.48		

Note(s):

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

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	28.50	19.47	29.50	20.47	28.50	19.47	29.50	20.47
			661	1880.0	28.50	19.47			28.50	19.47		
			810	1909.8	28.50	19.47			28.50	19.47		
		2	512	1850.2	28.50	22.48	28.50	22.48	26.36	20.34	26.70	20.68
			661	1880.0	28.50	22.48			26.60	20.58		
			810	1909.8	28.50	22.48			26.40	20.38		
EDGE (8PSK)	MCS5	1	512	1850.2	24.50	15.47	24.50	15.47	24.50	15.47	24.50	15.47
			661	1880.0	24.50	15.47			24.50	15.47		
			810	1909.8	24.50	15.47			24.50	15.47		
		2	512	1850.2	23.50	17.48	23.50	17.48	23.50	17.48	23.50	17.48
			661	1880.0	23.50	17.48			23.50	17.48		
			810	1909.8	23.50	17.48			23.50	17.48		

Note(s):

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

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	26.59	17.56	27.50	18.47	26.67	17.64	27.50	18.47
			661	1880.0	26.57	17.54			26.57	17.54		
			810	1909.8	26.60	17.57			26.60	17.57		
		2	512	1850.2	26.50	20.48	26.50	20.48	26.50	20.48	26.50	20.48
			661	1880.0	26.30	20.28			26.30	20.28		
			810	1909.8	26.40	20.38			26.40	20.38		
EDGE (8PSK)	MCS5	1	512	1850.2	22.50	13.47	22.50	13.47	22.50	13.47	22.50	13.47
			661	1880.0	22.50	13.47			22.50	13.47		
			810	1909.8	22.50	13.47			22.50	13.47		
		2	512	1850.2	21.50	15.48	21.50	15.48	21.50	15.48	21.50	15.48
			661	1880.0	21.50	15.48			21.50	15.48		
			810	1909.8	21.50	15.48			21.50	15.48		

Note(s):

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

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 DPDCCH, 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_{ES} (Note 4) (Note 5)	β_{ES} (SF)	β_{ES} (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	8/15	15/15	64	8/15	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	$\beta_{ES1}: 47/15$ $\beta_{ES2}: 47/15$	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 DPDCCH, 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 $\beta_d = 15/15$. In case of testing by UE using E-DPCCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 4: β_{ES} can not be set directly; it is set by Absolute Grant Value.

Note 5: For subtests 2, 3 and 4, UE may perform E-DPCCH 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 $\Delta_{CGI} = 30/15$ with $\beta_{HS} = 30/15 \cdot \beta_c$. 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	25.50	19.50	20.50	18.50	25.00	20.00	21.20	21.00
	HSDPA	25.50	19.50	20.50	18.50	25.00	20.00	21.20	21.00
	HSUPA	25.50	19.50	20.50	18.50	25.00	20.00	21.20	21.00
	DC-HSDPA	25.50	19.50	20.50	18.50	25.00	20.00	21.20	21.00
	HSPA+	25.50	19.50	20.50	18.50	25.00	20.00	21.20	21.00
W-CDMA Band 4	R99	25.50	18.70	21.50	20.50	25.00	21.50	21.50	22.00
	HSDPA	25.50	18.70	21.50	20.50	25.00	21.50	21.50	22.00
	HSUPA	25.50	18.70	21.50	20.50	25.00	21.50	21.50	22.00
	DC-HSDPA	25.50	18.70	21.50	20.50	25.00	21.50	21.50	22.00
	HSPA+	25.50	18.70	21.50	20.50	25.00	21.50	21.50	22.00
W-CDMA Band 5	R99	25.50	25.50	24.50	24.50				
	HSDPA	25.50	25.50	24.50	24.50				
	HSUPA	25.50	25.50	24.50	24.50				
	DC-HSDPA	25.50	25.50	24.50	24.50				
	HSPA+	25.50	25.50	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	25.43	N/A	25.50	19.45	N/A	19.50
		9400	1880.0	25.49			19.48		
		9538	1907.6	25.29			19.50		
HSDPA	Subtest 1	9262	1852.4	25.35	0	25.50	19.44	0	19.50
		9400	1880.0	25.31			19.50		
		9538	1907.6	25.22			19.29		
	Subtest 2	9262	1852.4	24.50	0	25.50	19.46	0	19.50
		9400	1880.0	25.20			19.46		
		9538	1907.6	24.90			19.24		
	Subtest 3	9262	1852.4	24.00	0.5	25.00	18.85	0.5	19.00
		9400	1880.0	24.97			18.88		
		9538	1907.6	24.67			18.66		
	Subtest 4	9262	1852.4	24.00	0.5	25.00	18.82	0.5	19.00
		9400	1880.0	24.74			18.88		
		9538	1907.6	24.43			18.65		
HSUPA	Subtest 1	9262	1852.4	25.50	0	25.50	19.45	0	19.50
		9400	1880.0	25.49			19.47		
		9538	1907.6	25.30			19.25		
	Subtest 2	9262	1852.4	22.50	2	23.50	17.42	2	17.50
		9400	1880.0	22.99			17.47		
		9538	1907.6	22.76			17.23		
	Subtest 3	9262	1852.4	23.50	1	24.50	18.34	1	18.50
		9400	1880.0	23.53			18.47		
		9538	1907.6	23.50			18.22		
	Subtest 4	9262	1852.4	22.47	2	23.50	17.42	2	17.50
		9400	1880.0	23.47			17.49		
		9538	1907.6	23.25			17.23		
	Subtest 5	9262	1852.4	24.96	0	25.50	19.41	0	19.50
		9400	1880.0	24.95			19.46		
		9538	1907.6	24.76			19.25		
DC-HSDPA	Subtest 1	9262	1852.4	25.34	0	25.50	19.45	0	19.50
		9400	1880.0	25.36			19.44		
		9538	1907.6	25.26			19.24		
	Subtest 2	9262	1852.4	24.69	0	25.50	19.18	0	19.50
		9400	1880.0	25.23			19.23		
		9538	1907.6	24.65			19.25		
	Subtest 3	9262	1852.4	24.50	0.5	25.00	18.86	0.5	19.00
		9400	1880.0	24.21			18.89		
		9538	1907.6	24.89			18.68		
	Subtest 4	9262	1852.4	24.47	0.5	25.00	18.85	0.5	19.00
		9400	1880.0	25.00			18.90		
		9538	1907.6	24.89			18.66		
HSPA+	Subtest 1	9262	1852.4	22.88	2.5	23.00	16.07	2.5	17.00
		9400	1880.0	22.86			16.06		
		9538	1907.6	22.81			16.05		

W-CDMA Band 2 Measured Results (ANT2)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	20.39	N/A	20.50	18.40	N/A	18.50
		9400	1880.0	20.50			18.50		
		9538	1907.6	20.38			18.40		
HSDPA	Subtest 1	9262	1852.4	20.42	0	20.50	18.39	0	18.50
		9400	1880.0	20.50			18.50		
		9538	1907.6	20.38			18.41		
	Subtest 2	9262	1852.4	20.11	0	20.50	18.36	0	18.50
		9400	1880.0	20.50			18.50		
		9538	1907.6	20.31			18.36		
	Subtest 3	9262	1852.4	19.62	0.5	20.00	17.77	0.5	18.00
		9400	1880.0	19.50			17.90		
		9538	1907.6	19.31			17.77		
	Subtest 4	9262	1852.4	19.34	0.5	20.00	17.79	0.5	18.00
		9400	1880.0	19.53			17.96		
		9538	1907.6	19.31			17.76		
HSUPA	Subtest 1	9262	1852.4	20.07	0	20.50	18.35	0	18.50
		9400	1880.0	20.48			18.50		
		9538	1907.6	20.30			18.38		
	Subtest 2	9262	1852.4	17.81	2	18.50	16.33	2	16.50
		9400	1880.0	18.00			16.40		
		9538	1907.6	18.10			16.36		
	Subtest 3	9262	1852.4	18.55	1	19.50	17.34	1	17.50
		9400	1880.0	19.24			17.46		
		9538	1907.6	19.32			17.34		
	Subtest 4	9262	1852.4	18.07	2	18.50	16.36	2	16.50
		9400	1880.0	18.28			16.37		
		9538	1907.6	18.09			16.38		
	Subtest 5	9262	1852.4	19.56	0	20.50	18.37	0	18.50
		9400	1880.0	19.77			18.38		
		9538	1907.6	19.59			18.41		
DC-HSDPA	Subtest 1	9262	1852.4	20.39	0	20.50	18.42	0	18.50
		9400	1880.0	20.50			18.39		
		9538	1907.6	20.36			18.39		
	Subtest 2	9262	1852.4	20.09	0	20.50	18.13	0	18.50
		9400	1880.0	20.26			18.33		
		9538	1907.6	19.81			18.06		
	Subtest 3	9262	1852.4	19.31	0.5	20.00	17.70	0.5	18.00
		9400	1880.0	19.19			17.80		
		9538	1907.6	20.00			18.00		
	Subtest 4	9262	1852.4	19.01	0.5	20.00	17.80	0.5	18.00
		9400	1880.0	19.21			17.98		
		9538	1907.6	20.00			17.77		
HSPA+	Subtest 1	9262	1852.4	17.85	2.5	18.00	15.91	2.5	16.00
		9400	1880.0	17.93			15.99		
		9538	1907.6	17.88			15.96		

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	25.00	N/A	25.00	19.83	N/A	20.00
		9400	1880.0	25.00			19.85		
		9538	1907.6	24.95			19.62		
HSDPA	Subtest 1	9262	1852.4	25.00	0	25.00	19.85	0	20.00
		9400	1880.0	25.00			19.85		
		9538	1907.6	24.95			19.63		
	Subtest 2	9262	1852.4	24.31	0	25.00	19.77	0	20.00
		9400	1880.0	25.00			19.82		
		9538	1907.6	24.63			19.60		
	Subtest 3	9262	1852.4	23.83	0.5	24.50	19.50	0.5	19.50
		9400	1880.0	24.50			19.50		
		9538	1907.6	24.38			19.50		
	Subtest 4	9262	1852.4	24.00	0.5	24.50	19.50	0.5	19.50
		9400	1880.0	24.50			19.50		
		9538	1907.6	24.18			19.50		
HSUPA	Subtest 1	9262	1852.4	24.00	0	25.00	19.63	0	20.00
		9400	1880.0	24.00			19.66		
		9538	1907.6	24.00			19.41		
	Subtest 2	9262	1852.4	23.00	2	23.00	18.00	2	18.00
		9400	1880.0	23.00			18.00		
		9538	1907.6	22.82			18.00		
	Subtest 3	9262	1852.4	23.07	1	24.00	19.00	1	19.00
		9400	1880.0	23.69			19.00		
		9538	1907.6	23.44			19.00		
	Subtest 4	9262	1852.4	22.28	2	23.00	18.00	2	18.00
		9400	1880.0	23.00			18.00		
		9538	1907.6	23.00			18.00		
	Subtest 5	9262	1852.4	24.00	0	25.00	19.83	0	20.00
		9400	1880.0	24.00			19.82		
		9538	1907.6	24.00			19.58		
DC-HSDPA	Subtest 1	9262	1852.4	25.00	0	25.00	19.82	0	20.00
		9400	1880.0	25.00			19.85		
		9538	1907.6	25.00			19.61		
	Subtest 2	9262	1852.4	24.50	0	25.00	19.56	0	20.00
		9400	1880.0	25.00			19.53		
		9538	1907.6	24.83			19.34		
	Subtest 3	9262	1852.4	23.96	0.5	24.50	19.48	0.5	19.50
		9400	1880.0	24.50			19.49		
		9538	1907.6	24.50			19.27		
	Subtest 4	9262	1852.4	24.31	0.5	24.50	19.50	0.5	19.50
		9400	1880.0	24.50			19.49		
		9538	1907.6	24.50			19.27		
HSPA+	Subtest 1	9262	1852.4	22.50	2.5	22.50	17.50	2.5	17.50
		9400	1880.0	22.50			17.50		
		9538	1907.6	22.50			17.50		

W-CDMA Band 2 Measured Results (ANT4)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	20.60	N/A	21.20	20.85	N/A	21.00
		9400	1880.0	20.75			21.00		
		9538	1907.6	20.57			20.90		
HSDPA	Subtest 1	9262	1852.4	20.63	0	21.20	20.88	0	21.00
		9400	1880.0	20.70			21.00		
		9538	1907.6	20.59			20.84		
	Subtest 2	9262	1852.4	20.52	0	21.20	20.77	0	21.00
		9400	1880.0	20.70			20.95		
		9538	1907.6	20.52			20.77		
	Subtest 3	9262	1852.4	20.53	0.5	20.70	20.50	0.5	20.50
		9400	1880.0	20.70			20.50		
		9538	1907.6	20.50			20.50		
	Subtest 4	9262	1852.4	20.28	0.5	20.70	20.50	0.5	20.50
		9400	1880.0	20.70			20.50		
		9538	1907.6	20.51			20.50		
HSUPA	Subtest 1	9262	1852.4	20.55	0	21.20	20.80	0	21.00
		9400	1880.0	20.66			20.91		
		9538	1907.6	20.46			20.71		
	Subtest 2	9262	1852.4	18.74	2	19.20	18.99	2	19.00
		9400	1880.0	19.20			19.00		
		9538	1907.6	19.20			19.00		
	Subtest 3	9262	1852.4	19.51	1	20.20	19.76	1	20.00
		9400	1880.0	20.20			20.00		
		9538	1907.6	20.20			20.00		
	Subtest 4	9262	1852.4	19.03	2	19.20	19.00	2	19.00
		9400	1880.0	19.20			19.00		
		9538	1907.6	19.20			19.00		
	Subtest 5	9262	1852.4	20.51	0	21.20	20.76	0	21.00
		9400	1880.0	20.69			20.94		
		9538	1907.6	20.51			20.76		
DC-HSDPA	Subtest 1	9262	1852.4	20.64	0	21.20	20.89	0	21.00
		9400	1880.0	20.74			20.99		
		9538	1907.6	20.56			20.81		
	Subtest 2	9262	1852.4	20.29	0	21.20	20.54	0	21.00
		9400	1880.0	20.44			20.69		
		9538	1907.6	20.24			20.49		
	Subtest 3	9262	1852.4	20.20	0.5	20.70	20.45	0.5	20.50
		9400	1880.0	20.37			20.50		
		9538	1907.6	20.16			20.41		
	Subtest 4	9262	1852.4	20.01	0.5	20.70	20.26	0.5	20.50
		9400	1880.0	20.38			20.50		
		9538	1907.6	20.16			20.41		
HSPA+	Subtest 1	9262	1852.4	18.70	2.5	18.70	18.50	2.5	18.50
		9400	1880.0	18.70			18.50		
		9538	1907.6	18.70			18.50		

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	25.49	N/A	25.50	18.66	N/A	18.70
		1413	1732.6	25.50			18.56		
		1513	1752.6	25.43			18.66		
HSDPA	Subtest 1	1312	1712.4	25.31	0	25.50	18.66	0	18.70
		1413	1732.6	25.36			18.54		
		1513	1752.6	25.40			18.64		
	Subtest 2	1312	1712.4	24.63	0	25.50	18.58	0	18.70
		1413	1732.6	25.26			18.51		
		1513	1752.6	25.40			18.66		
	Subtest 3	1312	1712.4	24.10	0.5	25.00	18.18	0.5	18.20
		1413	1732.6	24.01			18.11		
		1513	1752.6	24.16			18.11		
	Subtest 4	1312	1712.4	24.00	0.5	25.00	18.18	0.5	18.20
		1413	1732.6	24.78			18.11		
		1513	1752.6	24.88			18.15		
HSUPA	Subtest 1	1312	1712.4	25.28	0	25.50	18.59	0	18.70
		1413	1732.6	25.28			18.43		
		1513	1752.6	25.45			18.62		
	Subtest 2	1312	1712.4	22.50	2	23.50	16.60	2	16.70
		1413	1732.6	23.08			16.52		
		1513	1752.6	23.28			16.68		
	Subtest 3	1312	1712.4	23.50	1	24.50	17.55	1	17.70
		1413	1732.6	23.71			17.47		
		1513	1752.6	23.88			17.67		
	Subtest 4	1312	1712.4	22.56	2	23.50	16.58	2	16.70
		1413	1732.6	23.37			16.52		
		1513	1752.6	23.34			16.69		
	Subtest 5	1312	1712.4	24.09	0	25.50	18.56	0	18.70
		1413	1732.6	24.11			18.48		
		1513	1752.6	24.29			18.66		
DC-HSDPA	Subtest 1	1312	1712.4	25.40	0	25.50	18.66	0	18.70
		1413	1732.6	25.49			18.57		
		1513	1752.6	25.47			18.65		
	Subtest 2	1312	1712.4	25.15	0	25.50	18.62	0	18.70
		1413	1732.6	25.46			18.53		
		1513	1752.6	25.47			18.62		
	Subtest 3	1312	1712.4	24.64	0.5	25.00	18.12	0.5	18.20
		1413	1732.6	24.53			18.14		
		1513	1752.6	24.39			18.14		
	Subtest 4	1312	1712.4	24.65	0.5	25.00	18.20	0.5	18.20
		1413	1732.6	24.00			18.13		
		1513	1752.6	24.38			18.20		
HSPA+	Subtest 1	1312	1712.4	22.90	2.5	23.00	15.43	2.5	16.20
		1413	1732.6	22.80			15.55		
		1513	1752.6	22.80			15.67		

W-CDMA Band 4 Measured Results (ANT2)

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Tune-up Limit	Measured Pwr	MPR	Tune-up Limit
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	21.50	N/A	21.50	20.30	N/A	20.50
		1413	1732.6	21.50			20.30		
		1513	1752.6	21.50			20.50		
HSDPA	Subtest 1	1312	1712.4	21.50	0	21.50	20.21	0	20.50
		1413	1732.6	21.50			20.21		
		1513	1752.6	21.50			20.50		
	Subtest 2	1312	1712.4	21.50	0	21.50	20.21	0	20.50
		1413	1732.6	21.50			20.21		
		1513	1752.6	21.50			20.50		
	Subtest 3	1312	1712.4	21.00	0.5	21.00	19.87	0.5	20.00
		1413	1732.6	21.00			19.86		
		1513	1752.6	21.00			20.00		
	Subtest 4	1312	1712.4	21.00	0.5	21.00	19.87	0.5	20.00
		1413	1732.6	21.00			19.86		
		1513	1752.6	21.00			20.00		
HSUPA	Subtest 1	1312	1712.4	21.50	0	21.50	20.21	0	20.50
		1413	1732.6	21.50			20.21		
		1513	1752.6	21.50			20.50		
	Subtest 2	1312	1712.4	19.50	2	19.50	18.44	2	18.50
		1413	1732.6	19.50			18.38		
		1513	1752.6	19.50			18.50		
	Subtest 3	1312	1712.4	20.50	1	20.50	19.44	1	19.50
		1413	1732.6	20.50			19.41		
		1513	1752.6	20.50			19.50		
	Subtest 4	1312	1712.4	19.50	2	19.50	18.44	2	18.50
		1413	1732.6	19.50			18.38		
		1513	1752.6	19.50			18.50		
	Subtest 5	1312	1712.4	21.50	0	21.50	20.21	0	20.50
		1413	1732.6	21.50			20.21		
		1513	1752.6	21.50			20.50		
DC-HSDPA	Subtest 1	1312	1712.4	21.50	0	21.50	20.21	0	20.50
		1413	1732.6	21.50			20.21		
		1513	1752.6	21.50			20.50		
	Subtest 2	1312	1712.4	21.50	0	21.50	20.21	0	20.50
		1413	1732.6	21.50			20.21		
		1513	1752.6	21.50			20.50		
	Subtest 3	1312	1712.4	21.00	0.5	21.00	19.87	0.5	20.00
		1413	1732.6	21.00			19.86		
		1513	1752.6	21.00			20.00		
	Subtest 4	1312	1712.4	21.00	0.5	21.00	19.87	0.5	20.00
		1413	1732.6	21.00			19.86		
		1513	1752.6	21.00			20.00		
HSPA+	Subtest 1	1312	1712.4	19.00	2.5	19.00	18.00	2.5	18.00
		1413	1732.6	19.00			18.00		
		1513	1752.6	19.00			18.00		

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	25.00	N/A	25.00	21.50	N/A	21.50
		1413	1732.6	25.00			21.50		
		1513	1752.6	25.00			21.50		
HSDPA	Subtest 1	1312	1712.4	24.13	0	25.00	21.50	0	21.50
		1413	1732.6	24.91			21.50		
		1513	1752.6	24.81			21.50		
	Subtest 2	1312	1712.4	24.13	0	25.00	21.47	0	21.50
		1413	1732.6	24.91			21.50		
		1513	1752.6	24.81			21.50		
	Subtest 3	1312	1712.4	23.70	0.5	24.50	21.00	0.5	21.00
		1413	1732.6	24.50			21.00		
		1513	1752.6	24.50			21.00		
	Subtest 4	1312	1712.4	23.44	0.5	24.50	21.00	0.5	21.00
		1413	1732.6	24.50			21.00		
		1513	1752.6	24.39			21.00		
HSUPA	Subtest 1	1312	1712.4	23.48	0	25.00	21.41	0	21.50
		1413	1732.6	23.68			21.50		
		1513	1752.6	23.60			21.50		
	Subtest 2	1312	1712.4	21.91	2	23.00	19.50	2	19.50
		1413	1732.6	23.00			19.50		
		1513	1752.6	23.00			19.50		
	Subtest 3	1312	1712.4	22.91	1	24.00	20.50	1	20.50
		1413	1732.6	23.79			20.50		
		1513	1752.6	23.69			20.50		
	Subtest 4	1312	1712.4	22.16	2	23.00	19.50	2	19.50
		1413	1732.6	23.00			19.50		
		1513	1752.6	23.00			19.50		
	Subtest 5	1312	1712.4	23.68	0	25.00	21.44	0	21.50
		1413	1732.6	23.88			21.50		
		1513	1752.6	23.78			21.50		
DC-HSDPA	Subtest 1	1312	1712.4	24.13	0	25.00	21.50	0	21.50
		1413	1732.6	24.91			21.50		
		1513	1752.6	24.81			21.50		
	Subtest 2	1312	1712.4	24.51	0	25.00	21.20	0	21.50
		1413	1732.6	24.91			21.41		
		1513	1752.6	24.81			21.31		
	Subtest 3	1312	1712.4	24.17	0.5	24.50	21.00	0.5	21.00
		1413	1732.6	24.50			21.00		
		1513	1752.6	24.50			21.00		
	Subtest 4	1312	1712.4	24.18	0.5	24.50	21.00	0.5	21.00
		1413	1732.6	24.50			21.00		
		1513	1752.6	24.50			21.00		
HSPA+	Subtest 1	1312	1712.4	22.50	2.5	22.50	19.00	2.5	19.00
		1413	1732.6	22.50			19.00		
		1513	1752.6	22.50			19.00		

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	21.44	N/A	21.50	21.84	N/A	22.00
		1413	1732.6	21.41			22.00		
		1513	1752.6	21.50			22.00		
HSDPA	Subtest 1	1312	1712.4	21.40	0	21.50	21.84	0	22.00
		1413	1732.6	21.43			21.91		
		1513	1752.6	21.50			21.78		
	Subtest 2	1312	1712.4	21.00	0	21.50	21.60	0	22.00
		1413	1732.6	21.14			21.62		
		1513	1752.6	21.31			21.51		
	Subtest 3	1312	1712.4	20.50	0.5	21.00	21.00	0.5	21.50
		1413	1732.6	20.89			21.35		
		1513	1752.6	21.00			21.22		
	Subtest 4	1312	1712.4	20.50	0.5	21.00	21.00	0.5	21.50
		1413	1732.6	20.64			21.11		
		1513	1752.6	20.76			21.01		
HSUPA	Subtest 1	1312	1712.4	21.00	0	21.50	21.50	0	22.00
		1413	1732.6	21.15			21.62		
		1513	1752.6	21.29			21.50		
	Subtest 2	1312	1712.4	19.00	2	19.50	19.50	2	20.00
		1413	1732.6	19.12			19.56		
		1513	1752.6	19.29			19.45		
	Subtest 3	1312	1712.4	19.80	1	20.50	20.20	1	21.00
		1413	1732.6	19.89			20.33		
		1513	1752.6	20.05			20.21		
	Subtest 4	1312	1712.4	19.00	2	19.50	19.70	2	20.00
		1413	1732.6	19.36			19.88		
		1513	1752.6	19.50			19.78		
	Subtest 5	1312	1712.4	21.00	0	21.50	21.60	0	22.00
		1413	1732.6	21.14			21.62		
		1513	1752.6	21.31			21.51		
DC-HSDPA	Subtest 1	1312	1712.4	21.37	0	21.50	21.84	0	22.00
		1413	1732.6	21.37			21.90		
		1513	1752.6	21.50			21.78		
	Subtest 2	1312	1712.4	21.00	0	21.50	21.07	0	22.00
		1413	1732.6	21.12			21.62		
		1513	1752.6	21.07			21.50		
	Subtest 3	1312	1712.4	20.50	0.5	21.00	20.90	0.5	21.50
		1413	1732.6	20.55			21.06		
		1513	1752.6	20.75			20.94		
	Subtest 4	1312	1712.4	20.30	0.5	21.00	20.70	0.5	21.50
		1413	1732.6	20.30			20.79		
		1513	1752.6	20.47			20.68		
HSPA+	Subtest 1	1312	1712.4	19.00	2.5	19.00	19.50	2.5	19.50
		1413	1732.6	19.00			19.50		
		1513	1752.6	19.00			19.50		

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	25.24	N/A	25.50	25.24	N/A	25.50
		4183	836.6	25.30			25.30		
		4233	846.6	25.14			25.14		
HSDPA	Subtest 1	4132	826.4	25.25	0	25.50	25.25	0	25.50
		4183	836.6	25.17			25.17		
		4233	846.6	25.16			25.16		
	Subtest 2	4132	826.4	24.23	0	25.50	24.23	0	25.50
		4183	836.6	24.92			24.92		
		4233	846.6	24.86			24.86		
	Subtest 3	4132	826.4	24.77	0.5	25.00	24.77	0.5	25.00
		4183	836.6	24.67			24.67		
		4233	846.6	24.55			24.55		
	Subtest 4	4132	826.4	24.50	0.5	25.00	24.50	0.5	25.00
		4183	836.6	24.42			24.42		
		4233	846.6	24.29			24.29		
HSUPA	Subtest 1	4132	826.4	24.57	0	25.50	24.57	0	25.50
		4183	836.6	24.45			24.45		
		4233	846.6	24.39			24.39		
	Subtest 2	4132	826.4	22.05	2	23.50	22.05	2	23.50
		4183	836.6	22.89			22.89		
		4233	846.6	22.80			22.80		
	Subtest 3	4132	826.4	23.04	1	24.50	23.04	1	24.50
		4183	836.6	23.51			23.51		
		4233	846.6	23.43			23.43		
	Subtest 4	4132	826.4	22.27	2	23.50	22.27	2	23.50
		4183	836.6	23.11			23.11		
		4233	846.6	23.04			23.04		
	Subtest 5	4132	826.4	24.80	0	25.50	24.80	0	25.50
		4183	836.6	24.65			24.65		
		4233	846.6	24.59			24.59		
DC-HSDPA	Subtest 1	4132	826.4	25.23	0	25.50	25.23	0	25.50
		4183	836.6	25.14			25.14		
		4233	846.6	25.11			25.11		
	Subtest 2	4132	826.4	24.45	0	25.50	24.45	0	25.50
		4183	836.6	24.83			24.83		
		4233	846.6	24.81			24.81		
	Subtest 3	4132	826.4	23.89	0.5	25.00	23.89	0.5	25.00
		4183	836.6	24.57			24.57		
		4233	846.6	23.26			23.26		
	Subtest 4	4132	826.4	23.16	0.5	25.00	23.16	0.5	25.00
		4183	836.6	24.05			24.05		
		4233	846.6	24.02			24.02		
HSPA+	Subtest 1	4132	826.4	22.39	2.5	23.00	22.39	2.5	23.00
		4183	836.6	22.22			22.22		
		4233	846.6	22.30			22.30		

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	24.50	N/A	24.50	24.50	N/A	24.50
		4183	836.6	24.50			24.50		
		4233	846.6	24.50			24.50		
HSDPA	Subtest 1	4132	826.4	24.50	0	24.50	24.50	0	24.50
		4183	836.6	24.50			24.50		
		4233	846.6	24.50			24.50		
	Subtest 2	4132	826.4	24.06	0	24.50	24.06	0	24.50
		4183	836.6	24.50			24.50		
		4233	846.6	24.50			24.50		
	Subtest 3	4132	826.4	23.54	0.5	24.00	23.54	0.5	24.00
		4183	836.6	24.00			24.00		
		4233	846.6	24.00			24.00		
	Subtest 4	4132	826.4	23.27	0.5	24.00	23.27	0.5	24.00
		4183	836.6	24.00			24.00		
		4233	846.6	24.00			24.00		
HSUPA	Subtest 1	4132	826.4	23.58	0	24.50	23.58	0	24.50
		4183	836.6	23.39			23.39		
		4233	846.6	23.51			23.51		
	Subtest 2	4132	826.4	22.50	2	22.50	22.50	2	22.50
		4183	836.6	22.50			22.50		
		4233	846.6	22.50			22.50		
	Subtest 3	4132	826.4	22.80	1	23.50	22.80	1	23.50
		4183	836.6	23.43			23.43		
		4233	846.6	23.50			23.50		
	Subtest 4	4132	826.4	22.50	2	22.50	22.50	2	22.50
		4183	836.6	22.50			22.50		
		4233	846.6	22.50			22.50		
	Subtest 5	4132	826.4	23.58	0	24.50	23.58	0	24.50
		4183	836.6	23.50			23.50		
		4233	846.6	23.50			23.50		
DC-HSDPA	Subtest 1	4132	826.4	24.50	0	24.50	24.50	0	24.50
		4183	836.6	24.50			24.50		
		4233	846.6	24.50			24.50		
	Subtest 2	4132	826.4	24.50	0	24.50	24.50	0	24.50
		4183	836.6	24.50			24.50		
		4233	846.6	24.50			24.50		
	Subtest 3	4132	826.4	24.00	0.5	24.00	24.00	0.5	24.00
		4183	836.6	24.00			24.00		
		4233	846.6	24.00			24.00		
	Subtest 4	4132	826.4	24.00	0.5	24.00	24.00	0.5	24.00
		4183	836.6	23.86			23.86		
		4233	846.6	24.00			24.00		
HSPA+	Subtest 1	4132	826.4	22.00	2.5	22.00	22.00	2.5	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	25.5	25.5	24.5	24.5				
	1xAdvanced	25.5	25.5	24.5	24.5				
	1xEVDO Rel. 0	25.5	25.5	24.5	24.5				
	1xEVDO Rev. A	25.5	25.5	24.5	24.5				
CDMA BC1	1xRTT	25.5	19.5	20.5	18.5				
	1xAdvanced	25.5	19.5	20.5	18.5				
	1xEVDO Rel. 0	25.5	19.5	20.5	18.5				
	1xEVDO Rev. A	25.5	19.5	20.5	18.5				
CDMA BC10	1xRTT	25.5	25.5	24.5	24.5				
	1xAdvanced	25.5	25.5	24.5	24.5				
	1xEVDO Rel. 0	25.5	25.5	24.5	24.5				
	1xEVDO Rev. A	25.5	25.5	24.5	24.5				

CDMA BC1 is not supported for ANT3 and ANT 4.

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	25.50	25.50	25.50	25.50
		384	836.52	25.30		25.30	
		777	848.31	25.40		25.40	
	RC3, SO55 (Loopback)	1013	824.70	25.50		25.50	
		384	836.52	25.30		25.30	
		777	848.31	25.40		25.40	
	RC3, SO32 (+F-SCH)	1013	824.70	25.40		25.40	
		384	836.52	25.20		25.20	
		777	848.31	25.30		25.30	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	1013	824.70	25.40	25.50	25.40	25.50
		384	836.52	25.30		25.30	
		777	848.31	25.30		25.30	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	1013	824.70	25.50	25.50	25.50	25.50
		384	836.52	25.30		25.30	
		777	848.31	25.40		25.40	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	1013	824.70	25.10	25.50	25.10	25.50
		384	836.52	25.00		25.00	
		777	848.31	25.00		25.00	

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	24.50	24.50	24.50	24.50
		384	836.52	24.50		24.50	
		777	848.31	24.50		24.50	
	RC3, SO55 (Loopback)	1013	824.70	24.50		24.50	
		384	836.52	24.50		24.50	
		777	848.31	24.50		24.50	
	RC3, SO32 (+F-SCH)	1013	824.70	24.50		24.50	
		384	836.52	24.50		24.50	
		777	848.31	24.50		24.50	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	1013	824.70	24.50	24.50	24.50	24.50
		384	836.52	24.50		24.50	
		777	848.31	24.50		24.50	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	1013	824.70	24.50	24.50	24.50	24.50
		384	836.52	24.50		24.50	
		777	848.31	24.50		24.50	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	1013	824.70	24.50	24.50	24.50	24.50
		384	836.52	24.50		24.50	
		777	848.31	24.50		24.50	

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	25.50	25.50	19.30	19.50
		600	1880.00	25.50		19.10	
		1175	1908.75	25.40		18.90	
	RC3, SO55 (Loopback)	25	1851.25	25.50		19.30	
		600	1880.00	25.50		19.00	
		1175	1908.75	25.30		18.80	
	RC3, SO32 (+F-SCH)	25	1851.25	25.50		19.50	
		600	1880.00	25.50		19.30	
		1175	1908.75	25.30		19.30	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	25	1851.25	25.50	25.50	19.30	19.50
		600	1880	25.50		19.00	
		1175	1908.75	25.50		18.90	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	25	1851.25	25.50	25.50	19.30	19.50
		600	1880.00	25.50		19.00	
		1175	1908.75	25.30		18.80	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	25	1851.25	25.30	25.50	19.20	19.50
		600	1880	24.90		18.90	
		1175	1908.75	24.80		19.00	

CDMA BC1 Measured Results (ANT2)

Mode		Channel	Freq. (MHz)	Power Mode A (dBm)		Power Mode B (dBm)	
				Measured Pwr	Tune-up Limit	Measured Pwr	Tune-up Limit
1xRTT	RC1, SO55 (Loopback)	25	1851.25	20.20	20.50	18.50	18.50
		600	1880.00	20.20		18.40	
		1175	1908.75	20.00		18.30	
	RC3, SO55 (Loopback)	25	1851.25	20.20		18.40	
		600	1880.00	20.20		18.40	
		1175	1908.75	20.00		18.30	
	RC3, SO32 (+F-SCH)	25	1851.25	20.20		18.50	
		600	1880.00	20.20		18.40	
		1175	1908.75	20.00		18.20	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	25	1851.25	20.20	20.50	18.40	18.50
		600	1880	20.20		18.30	
		1175	1908.75	20.00		18.30	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	25	1851.25	20.20	20.50	18.40	18.50
		600	1880.00	20.20		18.20	
		1175	1908.75	20.00		18.20	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	25	1851.25	20.20	20.50	18.40	18.50
		600	1880	20.20		18.20	
		1175	1908.75	20.00		18.20	

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)	450	817.25	25.40	25.50	25.40	25.50
		560	820.00	25.50		25.50	
		670	822.75	25.50		25.50	
	RC3, SO55 (Loopback)	450	817.25	25.40		25.40	
		560	820.00	25.50		25.50	
		670	822.75	25.50		25.50	
	RC3, SO32 (+F-SCH)	450	817.25	25.30		25.30	
		560	820.00	25.50		25.50	
		670	822.75	25.50		25.50	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	450	817.25	25.30	25.50	25.30	25.50
		560	820	25.40		25.40	
		670	822.75	25.40		25.40	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	450	817.25	25.40	25.50	25.30	25.50
		560	820.00	25.50		25.40	
		670	822.75	25.50		25.40	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	450	817.25	25.40	25.50	25.40	25.50
		560	820	25.50		25.50	
		670	822.75	25.50		25.50	

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)	450	817.25	24.50	24.50	24.50	24.50
		560	820.00	24.50		24.50	
		670	822.75	24.50		24.50	
	RC3, SO55 (Loopback)	450	817.25	24.50		24.50	
		560	820.00	24.50		24.50	
		670	822.75	24.50		24.50	
	RC3, SO32 (+F-SCH)	450	817.25	24.50		24.50	
		560	820.00	24.50		24.50	
		670	822.75	24.50		24.50	
1xAdvanced	Fwd11/Rvs8 SO75 (Loopback)	450	817.25	24.50	24.50	24.50	24.50
		560	820	24.50		24.50	
		670	822.75	24.50		24.50	
1xEv-Do Rel. 0	307.2 kbps (2 slot, QPSK)	450	817.25	24.50	24.50	24.50	24.50
		560	820.00	24.50		24.50	
		670	822.75	24.50		24.50	
1xEv-Do Rev. A	307.2k, QPSK/ ACK channel is transmitted at all the slots	450	817.25	24.50	24.50	24.50	24.50
		560	820	24.50		24.50	
		670	822.75	24.50		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
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
256 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
256 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 5 (824-849 MHz) is covered by LTE Band 26 (814-849 MHz)
 - LTE Band 17 (704-716 MHz) is covered by LTE Band 12 (699-716 MHz)

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

SAR measurement is not required for the 16QAM and 64QAM. 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.

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	25.50	19.50	20.50	18.50	25.00	20.00	21.20	21.00
LTE Band 4	QPSK	25.50	18.70	21.50	20.50	25.00	21.50	21.50	22.00
LTE Band 5	QPSK	25.50	25.50	24.50	24.50				
LTE Band 7	QPSK	25.50	20.20	19.50	20.00				
LTE Band 12	QPSK	25.50	25.50	24.50	24.50				
LTE Band 13	QPSK	25.50	25.50	24.50	24.50				
LTE Band 14	QPSK	25.50	25.50	24.50	24.50				
LTE Band 17	QPSK	25.50	25.50	24.50	24.50				
LTE Band 25	QPSK	25.50	19.50	20.50	18.50	25.00	20.00	21.20	21.00
LTE Band 26	QPSK	25.50	25.50	24.50	24.50				
LTE Band 30	QPSK	23.50	20.20	20.50	20.20	23.50	20.20	19.50	20.00
LTE Band 41 (PC 3)	QPSK	25.50	23.50	22.00	22.20	25.50	23.70	21.70	22.50
LTE Band 41 (PC 2)	QPSK	27.00	23.50	22.00	22.20	26.50	23.70	21.70	22.50
LTE Band 66	QPSK	25.50	18.70	21.50	20.50	25.00	21.50	21.50	22.00

Note(s):

* From May 2017 TCB Workshop, Rel. 14 has introduced HPUE Power Class 2 for Band 41 allows 26 ± 2 dBm and does not support uplink-downlink configurations 0 and 6 or inter-band CA. The highest time averaged power for UL-DL configurations is 1 the duty cycle is 43.3%. Please refer to section 6.4. LTE (TDD) Considerations.

LTE Band 7 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20850	21100	21350	MPR	Tune-up Limit	20850	21100	21350	MPR	Tune-up Limit
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20 MHz	QPSK	1	0	24.97	25.04	25.05	0	25.5	20.11	20.20	20.17	0	20.2
		1	49	25.50	25.50	25.50	0	25.5	20.20	20.20	20.20	0	20.2
		1	99	25.12	25.11	25.08	0	25.5	20.17	20.18	20.18	0	20.2
		50	0	24.10	24.20	24.06	1	24.5	20.06	20.12	20.10	0	20.2
		50	24	24.40	24.50	24.50	1	24.5	20.20	20.20	20.17	0	20.2
		50	50	24.39	24.33	24.36	1	24.5	20.13	20.19	20.13	0	20.2
		100	0	24.33	24.50	24.18	1	24.5	20.13	20.17	20.15	0	20.2
	16QAM	1	0	24.18	24.38	24.19	1	24.5	19.91	20.17	20.13	0	20.2
		1	49	24.19	24.33	23.96	1	24.5	19.96	20.06	20.11	0	20.2
		1	99	24.41	24.40	24.30	1	24.5	20.02	20.16	20.15	0	20.2
		50	0	23.11	23.15	23.04	2	23.5	20.05	20.15	19.77	0	20.2
		50	24	23.28	23.22	23.11	2	23.5	20.12	20.17	19.81	0	20.2
		50	50	23.31	23.34	23.30	2	23.5	20.13	19.72	19.84	0	20.2
		100	0	23.31	23.26	23.17	2	23.5	20.15	20.20	19.79	0	20.2
	64QAM	1	0	23.33	23.45	23.22	2	23.5	20.01	19.85	20.15	0	20.2
		1	49	23.36	23.49	23.36	2	23.5	20.07	19.75	20.15	0	20.2
		1	99	23.37	23.37	23.36	2	23.5	20.05	19.87	20.18	0	20.2
		50	0	22.33	22.14	22.21	3	22.5	19.90	19.93	20.03	0	20.2
		50	24	22.35	22.18	22.30	3	22.5	19.96	19.98	20.07	0	20.2
		50	50	22.30	22.26	22.33	3	22.5	19.95	20.04	20.08	0	20.2
		100	0	22.37	22.22	22.37	3	22.5	19.98	19.99	20.12	0	20.2
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20825	21100	21375	MPR	Tune-up Limit	20825	21100	21375	MPR	Tune-up Limit
				2507.5 MHz	2535 MHz	2562.5 MHz			2507.5 MHz	2535 MHz	2562.5 MHz		
15 MHz	QPSK	1	0	25.15	25.26	25.23	0	25.5	20.00	20.01	20.15	0	20.2
		1	37	25.14	25.23	25.32	0	25.5	20.07	20.00	20.13	0	20.2
		1	74	25.25	25.33	25.31	0	25.5	20.01	20.03	20.19	0	20.2
		36	0	24.29	24.39	24.34	1	24.5	19.96	19.94	20.17	0	20.2
		36	20	24.42	24.45	24.46	1	24.5	20.08	19.95	20.14	0	20.2
		36	39	24.49	24.49	24.29	1	24.5	20.05	19.99	20.16	0	20.2
		75	0	24.40	24.48	24.45	1	24.5	20.11	20.02	20.16	0	20.2
	16QAM	1	0	24.21	24.35	24.27	1	24.5	19.99	19.93	20.06	0	20.2
		1	37	24.17	24.33	24.02	1	24.5	20.05	19.92	20.09	0	20.2
		1	74	24.45	24.43	24.45	1	24.5	20.01	19.94	20.11	0	20.2
		36	0	23.08	23.25	23.18	2	23.5	20.00	20.01	20.14	0	20.2
		36	20	23.26	23.32	23.32	2	23.5	20.12	20.01	20.17	0	20.2
		36	39	23.33	23.34	23.43	2	23.5	20.09	20.03	20.18	0	20.2
		75	0	23.27	23.33	23.26	2	23.5	20.12	20.05	20.18	0	20.2
	64QAM	1	0	23.35	23.24	23.46	2	23.5	19.90	19.99	19.94	0	20.2
		1	37	22.96	23.29	23.22	2	23.5	19.97	19.98	19.97	0	20.2
		1	74	23.32	23.33	23.37	2	23.5	19.94	19.99	19.96	0	20.2
		36	0	22.20	22.09	22.29	3	22.5	19.81	19.80	19.97	0	20.2
		36	20	22.35	22.25	22.39	3	22.5	19.93	19.81	19.98	0	20.2
		36	39	22.26	22.26	22.31	3	22.5	19.90	19.84	19.99	0	20.2
		75	0	22.35	22.15	22.33	3	22.5	19.92	19.84	19.97	0	20.2
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	24.97	25.03	25.16	0	25.5	20.11	20.13	19.84	0	20.2
		1	25	24.83	24.96	25.15	0	25.5	20.07	20.09	19.80	0	20.2
		1	49	25.06	25.06	25.09	0	25.5	19.72	19.74	19.80	0	20.2
		25	0	23.96	24.11	24.16	1	24.5	20.06	20.05	19.76	0	20.2
		25	12	23.96	24.16	24.33	1	24.5	20.06	20.03	19.78	0	20.2
		25	25	24.09	24.20	24.32	1	24.5	20.15	20.11	19.81	0	20.2
		50	0	23.99	24.18	24.28	1	24.5	20.08	20.12	19.81	0	20.2
	16QAM	1	0	24.39	24.22	24.29	1	24.5	19.98	19.89	20.17	0	20.2
		1	25	24.32	24.20	24.16	1	24.5	19.93	19.84	20.11	0	20.2
		1	49	24.42	24.39	24.49	1	24.5	20.10	19.99	20.14	0	20.2
		25	0	23.16	23.34	23.35	2	23.5	20.10	20.11	19.81	0	20.2
		25	12	23.23	23.37	23.50	2	23.5	20.09	20.08	19.81	0	20.2
		25	25	23.36	23.39	23.34	2	23.5	20.19	20.16	19.84	0	20.2
		50	0	23.24	23.37	23.45	2	23.5	20.02	20.16	19.81	0	20.2
	64QAM	1	0	23.41	23.19	23.37	2	23.5	19.88	19.84	20.02	0	20.2
		1	25	22.94	23.24	22.76	2	23.5	19.84	19.76	20.04	0	20.2
		1	49	23.15	23.38	23.29	2	23.5	19.99	19.91	20.03	0	20.2
		25	0	22.17	22.12	22.27	3	22.5	19.85	19.89	20.04	0	20.2
		25	12	22.20	22.11	22.20	3	22.5	19.86	19.87	20.03	0	20.2
		25	25	22.31	22.13	22.23	3	22.5	19.97	19.92	20.05	0	20.2
		50	0	22.21	22.11	22.22	3	22.5	19.86	19.93	20.06	0	20.2

LTE Band 7 Measured Results (ANT1) (continued)

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	25.37	25.45	25.26	0	25.5	20.04	20.05	20.07	0	20.2
		1	12	25.15	25.40	25.17	0	25.5	19.98	20.06	20.06	0	20.2
		1	24	25.20	25.42	25.12	0	25.5	20.00	20.08	20.06	0	20.2
		12	0	24.38	24.00	24.23	1	24.5	19.96	19.95	20.08	0	20.2
		12	7	24.30	24.00	24.23	1	24.5	19.89	19.94	20.09	0	20.2
		12	13	24.30	24.01	24.20	1	24.5	19.89	20.02	20.03	0	20.2
		25	0	24.33	24.04	24.26	1	24.5	19.93	20.04	20.08	0	20.2
	16QAM	1	0	24.14	24.38	24.23	1	24.5	19.94	19.87	20.17	0	20.2
		1	12	24.03	24.39	24.31	1	24.5	19.88	19.89	20.17	0	20.2
		1	24	24.07	24.43	24.37	1	24.5	19.92	19.92	20.12	0	20.2
		12	0	23.04	23.15	23.33	2	23.5	20.01	20.06	19.98	0	20.2
		12	7	23.01	23.15	23.38	2	23.5	19.99	20.04	19.96	0	20.2
		12	13	23.03	23.16	23.37	2	23.5	19.98	20.12	19.92	0	20.2
		25	0	23.02	23.14	23.34	2	23.5	19.97	20.09	19.98	0	20.2
	64QAM	1	0	23.12	23.16	22.81	2	23.5	19.90	19.80	20.06	0	20.2
		1	12	23.01	23.17	23.06	2	23.5	19.79	19.85	20.02	0	20.2
		1	24	22.88	23.21	23.19	2	23.5	19.82	19.88	20.00	0	20.2
		12	0	21.98	21.83	21.99	3	22.5	19.70	19.77	20.08	0	20.2
		12	7	21.92	21.81	21.95	3	22.5	19.69	19.74	20.08	0	20.2
		12	13	21.92	21.84	21.90	3	22.5	19.69	19.81	20.02	0	20.2
		25	0	21.88	21.83	22.00	3	22.5	19.70	19.85	20.06	0	20.2

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	19.45	19.32	19.37	0	19.5	20.00	19.92	19.97	0	20
		1	49	19.50	19.50	19.40	0	19.5	20.00	20.00	20.00	0	20
		1	99	19.35	19.32	19.39	0	19.5	19.95	19.92	19.99	0	20
		50	0	19.36	19.21	19.26	0	19.5	19.96	19.81	19.86	0	20
		50	24	19.50	19.50	19.50	0	19.5	20.00	20.00	20.00	0	20
		50	50	19.27	19.33	19.34	0	19.5	19.87	19.93	19.94	0	20
	16QAM	100	0	19.50	19.50	19.50	0	19.5	20.00	20.00	20.00	0	20
		1	0	19.42	19.14	19.21	0	19.5	19.92	19.64	19.71	0	20
		1	49	19.23	19.11	19.15	0	19.5	19.73	19.61	19.65	0	20
		1	99	19.28	19.18	19.25	0	19.5	19.78	19.68	19.75	0	20
		50	0	19.39	19.28	19.33	0	19.5	19.99	19.88	19.93	0	20
		50	24	19.29	19.29	19.31	0	19.5	19.89	19.89	19.91	0	20
	64QAM	50	50	19.30	19.35	19.31	0	19.5	19.90	19.95	19.91	0	20
		100	0	19.33	19.31	19.34	0	19.5	19.93	19.91	19.94	0	20
		1	0	19.14	19.37	19.20	0	19.5	19.94	19.57	20.00	0	20
		1	49	19.05	19.35	18.96	0	19.5	19.85	19.55	19.76	0	20
		1	99	19.09	19.47	19.23	0	19.5	19.89	19.67	20.00	0	20
		50	0	19.14	19.08	19.09	0	19.5	19.14	19.08	19.09	0	20
15 MHz	QPSK	50	24	19.17	19.14	19.11	0	19.5	19.17	19.14	19.11	0	20
		50	50	19.24	19.21	19.19	0	19.5	19.24	19.21	19.19	0	20
		100	0	19.21	19.19	19.11	0	19.5	19.21	19.19	19.11	0	20
	16QAM	1	0	19.37	19.17	19.32	0	19.5	20.00	19.87	20.00	0	20
		1	37	19.26	19.22	19.38	0	19.5	19.96	19.92	20.00	0	20
		1	74	19.17	19.26	19.41	0	19.5	19.87	19.96	20.00	0	20
	64QAM	36	0	19.27	19.11	19.26	0	19.5	19.97	19.81	19.96	0	20
		36	20	19.26	19.20	19.29	0	19.5	19.96	19.90	19.99	0	20
		36	39	19.21	19.21	19.31	0	19.5	19.91	19.91	20.00	0	20
	16QAM	75	0	19.28	19.14	19.24	0	19.5	19.98	19.84	19.94	0	20
		1	0	19.33	19.46	19.19	0	19.5	19.93	19.66	19.79	0	20
		1	37	19.25	19.11	19.18	0	19.5	19.85	19.71	19.78	0	20
	64QAM	1	74	19.14	19.16	19.22	0	19.5	19.74	19.76	19.82	0	20
		36	0	19.31	19.14	19.24	0	19.5	20.00	19.84	19.94	0	20
		36	20	19.30	19.17	19.26	0	19.5	20.00	19.87	19.96	0	20
10 MHz	QPSK	36	39	19.24	19.15	19.26	0	19.5	19.94	19.85	19.96	0	20
		75	0	19.30	19.18	19.27	0	19.5	20.00	19.88	19.97	0	20
	16QAM	1	0	19.49	19.38	19.47	0	19.5	19.99	19.88	19.97	0	20
		1	37	19.37	19.39	19.31	0	19.5	19.87	19.89	20.00	0	20
		1	74	19.48	19.43	19.35	0	19.5	19.98	19.93	20.00	0	20
	64QAM	36	0	19.18	19.12	19.11	0	19.5	19.18	19.12	19.11	0	20
		36	20	19.19	19.20	19.18	0	19.5	19.19	19.20	19.18	0	20
		36	39	19.21	19.18	19.24	0	19.5	19.21	19.18	19.24	0	20
	16QAM	75	0	19.15	19.16	19.16	0	19.5	19.15	19.17	19.16	0	20
		1	0	19.50	19.22	19.37	0	19.5	20.00	19.72	19.87	0	20
		1	25	19.41	19.26	19.36	0	19.5	19.91	19.76	19.86	0	20
	QPSK	1	49	19.42	19.33	19.40	0	19.5	19.92	19.83	19.90	0	20
		25	0	19.37	19.25	19.27	0	19.5	19.87	19.75	19.77	0	20
		25	12	19.37	19.24	19.29	0	19.5	19.87	19.74	19.79	0	20
	16QAM	25	25	19.33	19.25	19.33	0	19.5	19.83	19.75	19.83	0	20
		50	0	19.32	19.26	19.31	0	19.5	19.82	19.76	19.81	0	20
		1	0	19.42	19.22	19.20	0	19.5	19.92	19.92	19.90	0	20
	64QAM	1	25	19.30	19.18	19.16	0	19.5	19.80	19.88	19.86	0	20
		1	49	19.34	19.28	19.25	0	19.5	19.84	19.98	19.95	0	20
		25	0	19.35	19.29	19.32	0	19.5	19.85	19.79	19.82	0	20
		25	12	19.35	19.28	19.32	0	19.5	19.85	19.78	19.82	0	20
		25	25	19.33	19.29	19.34	0	19.5	19.83	19.79	19.84	0	20
		50	0	19.30	19.28	19.33	0	19.5	19.80	19.78	19.83	0	20
	64QAM	1	0	19.41	19.23	19.31	0	19.5	19.91	19.73	19.81	0	20
		1	25	19.25	19.18	19.32	0	19.5	19.75	19.68	19.82	0	20
		1	49	19.32	19.30	19.41	0	19.5	19.82	19.80	19.91	0	20
		25	0	19.23	19.20	19.21	0	19.5	19.23	19.20	19.21	0	20
		25	12	19.21	19.23	19.31	0	19.5	19.21	19.23	19.31	0	20
		25	25	19.23	19.24	19.34	0	19.5	19.23	19.24	19.34	0	20
		50	0	19.20	19.17	19.27	0	19.5	19.20	19.17	19.27	0	20

LTE Band 7 Measured Results (ANT2) (continued)

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	19.50	19.41	19.42	0	19.5	19.90	19.81	19.92	0	20
		1	12	19.39	19.36	19.43	0	19.5	19.79	19.76	19.83	0	20
		1	24	19.43	19.38	19.48	0	19.5	19.83	19.78	19.88	0	20
		12	0	19.36	19.32	19.45	0	19.5	19.76	19.72	19.85	0	20
		12	7	19.31	19.31	19.45	0	19.5	19.71	19.71	19.85	0	20
		12	13	19.32	19.30	19.47	0	19.5	19.72	19.70	19.87	0	20
		25	0	19.35	19.33	19.43	0	19.5	19.75	19.73	19.83	0	20
	16QAM	1	0	19.42	19.24	19.34	0	19.5	20.00	19.84	19.94	0	20
		1	12	19.32	19.18	19.31	0	19.5	19.92	19.78	19.91	0	20
		1	24	19.36	19.23	19.39	0	19.5	19.96	19.83	19.99	0	20
		12	0	19.46	19.40	19.49	0	19.5	19.86	19.80	19.89	0	20
		12	7	19.41	19.39	19.48	0	19.5	19.81	19.79	19.88	0	20
		12	13	19.40	19.40	19.49	0	19.5	19.80	19.80	19.89	0	20
		25	0	19.39	19.38	19.50	0	19.5	19.79	19.78	19.90	0	20
	64QAM	1	0	19.24	19.15	19.15	0	19.5	19.84	19.75	19.75	0	20
		1	12	19.12	19.05	19.15	0	19.5	19.72	19.65	19.75	0	20
		1	24	19.15	19.05	19.19	0	19.5	19.75	19.65	19.79	0	20
		12	0	19.27	19.26	19.43	0	19.5	19.27	19.26	19.43	0	20
		12	7	19.23	19.26	19.41	0	19.5	19.23	19.26	19.41	0	20
		12	13	19.24	19.26	19.42	0	19.5	19.24	19.26	19.42	0	20
		25	0	19.19	19.27	19.38	0	19.5	19.19	19.27	19.38	0	20

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	24.63	24.58	24.49	0	25	21.19	21.05	21.00	0	21.5
		1	49	24.70	24.60	24.50	0	25	21.40	21.10	21.10	0	21.5
		1	99	24.59	24.52	24.22	0	25	21.18	21.03	21.02	0	21.5
		50	0	23.69	23.73	23.49	1	24	21.08	20.98	20.95	0	21.5
		50	24	23.89	23.80	23.70	1	24	21.40	21.10	21.10	0	21.5
		50	50	23.80	23.76	23.63	1	24	21.24	21.04	21.00	0	21.5
	16QAM	100	0	23.82	23.73	23.69	1	24	21.19	21.10	21.01	0	21.5
		1	0	24.00	24.00	23.92	1	24	21.50	21.40	21.40	0	21.5
		1	49	24.00	24.00	23.80	1	24	21.46	21.30	21.39	0	21.5
		1	99	24.00	24.00	23.42	1	24	21.50	21.38	21.42	0	21.5
		50	0	23.00	23.00	22.80	2	23	21.06	21.05	20.92	0	21.5
		50	24	23.00	23.00	22.93	2	23	21.12	20.99	20.98	0	21.5
	64QAM	50	50	23.00	23.00	22.95	2	23	21.21	21.06	20.96	0	21.5
		100	0	23.00	23.00	22.93	2	23	21.16	21.01	21.02	0	21.5
		1	0	23.00	23.00	23.00	2	23	21.37	21.50	21.38	0	21.5
		1	49	23.00	23.00	23.00	2	23	21.25	21.35	21.30	0	21.5
		1	99	23.00	23.00	22.35	2	23	21.27	21.42	21.32	0	21.5
		50	0	22.00	22.00	22.00	3	22	21.10	21.08	20.91	0	21.5
		50	24	22.00	22.00	21.85	3	22	21.19	21.00	20.97	0	21.5
		50	50	22.00	22.00	22.00	3	22	21.23	21.07	20.92	0	21.5
		100	0	22.00	22.00	22.00	3	22	21.23	20.99	20.98	0	21.5
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20825	21100	21375	MPR	Tune-up Limit	20825	21100	21375	MPR	Tune-up Limit
				2507.5 MHz	2535 MHz	2562.5 MHz			2507.5 MHz	2535 MHz	2562.5 MHz		
15 MHz	QPSK	1	0	24.73	24.73	24.62	0	25	21.17	21.03	20.91	0	21.5
		1	37	24.54	24.65	24.63	0	25	21.05	20.97	21.01	0	21.5
		1	74	24.72	24.61	24.37	0	25	21.21	20.99	20.95	0	21.5
		36	0	23.86	23.87	23.76	1	24	21.11	20.97	20.93	0	21.5
		36	20	23.82	23.91	23.80	1	24	21.02	20.96	20.98	0	21.5
		36	39	23.91	23.94	23.80	1	24	21.10	20.98	20.96	0	21.5
		75	0	23.85	23.81	23.83	1	24	21.04	20.96	21.00	0	21.5
	16QAM	1	0	24.00	24.00	24.00	1	24	21.50	21.32	21.26	0	21.5
		1	37	24.00	24.00	24.00	1	24	21.38	21.26	21.34	0	21.5
		1	74	24.00	24.00	23.62	1	24	21.50	21.30	21.33	0	21.5
		36	0	23.00	23.00	23.00	2	23	21.12	21.03	20.97	0	21.5
		36	20	23.00	23.00	23.00	2	23	21.04	20.99	21.01	0	21.5
		36	39	23.00	23.00	23.00	2	23	21.13	21.00	20.99	0	21.5
	64QAM	75	0	23.00	23.00	23.00	2	23	21.06	20.99	21.02	0	21.5
		1	0	23.00	23.00	22.71	2	23	21.47	21.33	21.16	0	21.5
		1	37	23.00	23.00	23.00	2	23	21.33	21.23	21.18	0	21.5
		1	74	23.00	23.00	22.46	2	23	21.46	21.26	21.16	0	21.5
		36	0	22.00	22.00	22.00	3	22	21.22	21.01	20.99	0	21.5
		36	20	22.00	22.00	22.00	3	22	21.14	20.96	20.95	0	21.5
		36	39	22.00	22.00	22.00	3	22	21.23	20.96	20.92	0	21.5
		75	0	22.00	22.00	21.96	3	22	21.14	20.96	20.95	0	21.5
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	25.00	24.95	24.91	0	25	21.24	21.05	20.97	0	21.5
		1	25	24.86	24.81	24.82	0	25	21.11	20.98	20.95	0	21.5
		1	49	24.91	24.94	24.74	0	25	21.17	21.08	20.98	0	21.5
		25	0	24.00	23.93	23.99	1	24	21.16	20.93	20.95	0	21.5
		25	12	23.98	24.00	23.95	1	24	21.09	20.93	20.93	0	21.5
		25	25	23.99	24.00	23.99	1	24	21.05	20.96	20.98	0	21.5
		50	0	23.95	23.95	23.92	1	24	21.06	20.95	20.98	0	21.5
	16QAM	1	0	24.00	24.00	24.00	1	24	21.50	21.30	21.35	0	21.5
		1	25	24.00	24.00	24.00	1	24	21.49	21.23	21.33	0	21.5
		1	49	24.00	24.00	23.77	1	24	21.50	21.32	21.36	0	21.5
		25	0	23.00	23.00	23.00	2	23	21.20	20.98	21.00	0	21.5
		25	12	23.00	23.00	23.00	2	23	21.13	20.98	20.97	0	21.5
		25	25	23.00	23.00	23.00	2	23	21.08	20.99	21.01	0	21.5
		50	0	23.00	23.00	23.00	2	23	21.09	20.97	20.97	0	21.5
	64QAM	1	0	23.00	23.00	23.00	2	23	21.50	21.29	21.14	0	21.5
		1	25	23.00	23.00	23.00	2	23	21.39	21.14	21.12	0	21.5
		1	49	23.00	23.00	22.62	2	23	21.47	21.26	21.18	0	21.5
		25	0	22.00	22.00	21.80	3	22	21.23	21.02	20.96	0	21.5
		25	12	22.00	22.00	21.66	3	22	21.17	21.00	20.91	0	21.5
		25	25	22.00	22.00	21.90	3	22	21.15	21.03	20.95	0	21.5
		50	0	22.00	22.00	22.00	3	22	21.08	21.01	20.94	0	21.5

LTE Band 7 Measured Results (ANT3) (continued)

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	25.00	25.00	25.00	0	25	21.19	21.01	21.03	0	21.5
		1	12	25.00	25.00	25.00	0	25	21.12	20.99	20.98	0	21.5
		1	24	25.00	25.00	25.00	0	25	21.08	21.02	21.00	0	21.5
		12	0	24.00	24.00	24.00	1	24	21.11	20.94	21.00	0	21.5
		12	7	24.00	24.00	24.00	1	24	21.10	20.94	21.01	0	21.5
		12	13	24.00	24.00	24.00	1	24	21.06	20.96	20.98	0	21.5
		25	0	24.00	24.00	24.00	1	24	21.13	20.97	20.97	0	21.5
	16QAM	1	0	24.00	24.00	24.00	1	24	21.50	21.32	21.38	0	21.5
		1	12	24.00	24.00	24.00	1	24	21.50	21.31	21.37	0	21.5
		1	24	24.00	24.00	24.00	1	24	21.50	21.37	21.41	0	21.5
		12	0	23.00	23.00	23.00	2	23	21.19	21.00	21.04	0	21.5
		12	7	23.00	23.00	23.00	2	23	21.18	21.02	21.04	0	21.5
		12	13	23.00	23.00	23.00	2	23	21.14	21.03	21.00	0	21.5
		25	0	23.00	23.00	23.00	2	23	21.17	21.00	21.04	0	21.5
	64QAM	1	0	23.00	23.00	23.00	2	23	21.50	21.42	21.25	0	21.5
		1	12	23.00	23.00	23.00	2	23	21.41	21.36	21.30	0	21.5
		1	24	23.00	23.00	22.78	2	23	21.43	21.38	21.22	0	21.5
		12	0	22.00	22.00	22.00	3	22	21.27	21.05	20.96	0	21.5
		12	7	22.00	22.00	22.00	3	22	21.22	21.03	20.96	0	21.5
		12	13	22.00	22.00	22.00	3	22	21.21	21.03	20.90	0	21.5
		25	0	22.00	22.00	22.00	3	22	21.18	21.04	21.01	0	21.5

LTE Band 7 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20850	21100	21350	MPR	Tune-up Limit	20850	21100	21350	MPR	Tune-up Limit
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20 MHz	QPSK	1	0	18.51	18.12	18.15	0	18.7	19.18	18.90	18.93	0	19.5
		1	49	18.60	18.20	18.25	0	18.7	19.20	19.40	19.03	0	19.5
		1	99	18.26	18.11	18.23	0	18.7	18.96	18.88	19.01	0	19.5
		50	0	18.23	18.05	18.15	0	18.7	18.89	18.81	18.93	0	19.5
		50	24	18.40	18.09	18.40	0	18.7	19.10	18.86	18.97	0	19.5
		50	50	18.34	18.03	18.31	0	18.7	19.02	18.81	19.05	0	19.5
	16QAM	100	0	18.23	18.13	18.23	0	18.7	18.95	18.84	19.01	0	19.5
		1	0	18.70	18.50	18.44	0	18.7	19.50	19.35	19.22	0	19.5
		1	49	18.64	18.46	18.51	0	18.7	19.31	19.33	19.31	0	19.5
		1	99	18.70	18.50	18.56	0	18.7	19.29	19.35	19.36	0	19.5
		50	0	18.21	18.08	18.20	0	18.7	18.91	18.81	18.91	0	19.5
		50	24	18.22	18.12	18.21	0	18.7	18.94	18.82	18.95	0	19.5
	64QAM	50	50	18.31	18.07	18.25	0	18.7	19.03	18.79	19.04	0	19.5
		100	0	18.26	18.17	18.21	0	18.7	18.98	18.86	18.93	0	19.5
		1	0	18.70	18.29	18.51	0	18.7	19.50	19.50	19.50	0	19.5
		1	49	18.67	18.27	18.64	0	18.7	19.50	19.50	19.50	0	19.5
		1	99	18.61	18.27	18.62	0	18.7	19.50	19.50	19.50	0	19.5
		50	0	18.25	18.11	18.20	0	18.7	18.61	18.60	18.72	0	19.5
15 MHz	QPSK	50	24	18.27	18.13	18.22	0	18.7	18.63	18.62	18.75	0	19.5
		50	50	18.35	18.07	18.33	0	18.7	18.71	18.58	18.83	0	19.5
		100	0	18.30	18.14	18.27	0	18.7	18.70	18.64	18.81	0	19.5
	16QAM	1	0	18.70	18.49	18.53	0	18.7	19.50	19.50	19.50	0	19.5
		1	37	18.51	18.51	18.58	0	18.7	19.50	19.50	19.50	0	19.5
		1	74	18.64	18.45	18.48	0	18.7	19.50	19.50	19.50	0	19.5
	64QAM	36	0	18.38	18.14	18.32	0	18.7	18.73	18.60	18.75	0	19.5
		36	20	18.29	18.23	18.33	0	18.7	18.64	18.64	18.77	0	19.5
		36	39	18.35	18.22	18.42	0	18.7	18.68	18.65	18.86	0	19.5
10 MHz	QPSK	75	0	18.26	18.21	18.31	0	18.7	18.63	18.63	18.79	0	19.5
		1	0	18.63	18.17	18.30	0	18.7	19.41	18.93	19.12	0	19.5
		1	25	18.30	18.20	18.41	0	18.7	19.09	18.97	19.14	0	19.5
		1	49	18.34	18.14	18.32	0	18.7	19.10	18.91	19.06	0	19.5
		25	0	18.37	18.16	18.26	0	18.7	19.11	18.91	19.00	0	19.5
		25	12	18.29	18.14	18.35	0	18.7	19.03	18.89	19.10	0	19.5
	16QAM	25	25	18.22	18.17	18.27	0	18.7	18.96	18.91	19.01	0	19.5
		50	0	18.23	18.17	18.38	0	18.7	18.98	18.91	19.12	0	19.5
		1	0	18.70	18.43	18.70	0	18.7	19.50	19.21	19.44	0	19.5
		1	25	18.70	18.49	18.70	0	18.7	19.41	19.20	19.50	0	19.5
		1	49	18.70	18.41	18.67	0	18.7	19.38	19.16	19.47	0	19.5
		25	0	18.41	18.21	18.32	0	18.7	19.15	18.95	19.04	0	19.5
	64QAM	25	12	18.33	18.19	18.40	0	18.7	19.07	18.93	19.14	0	19.5
		25	25	18.26	18.20	18.30	0	18.7	19.00	18.94	19.05	0	19.5
		50	0	18.26	18.20	18.36	0	18.7	19.00	18.94	19.13	0	19.5
		1	0	18.70	18.40	18.51	0	18.7	19.50	19.50	19.50	0	19.5
		1	25	18.61	18.44	18.51	0	18.7	19.50	19.50	19.50	0	19.5
		1	49	18.66	18.39	18.48	0	18.7	19.50	19.50	19.50	0	19.5
	64QAM	25	0	18.41	18.22	18.29	0	18.7	18.87	18.65	18.79	0	19.5
		25	12	18.36	18.21	18.37	0	18.7	18.82	18.63	18.84	0	19.5
		25	25	18.30	18.22	18.28	0	18.7	18.72	18.64	18.78	0	19.5
		50	0	18.25	18.22	18.38	0	18.7	18.73	18.62	18.85	0	19.5

LTE Band 7 Measured Results (ANT4) (continued)

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	18.70	18.27	18.48	0	18.7	19.43	19.09	19.29	0	19.5
		1	12	18.40	18.22	18.38	0	18.7	19.15	19.04	19.17	0	19.5
		1	24	18.39	18.26	18.41	0	18.7	19.12	19.08	19.13	0	19.5
		12	0	18.52	18.17	18.42	0	18.7	19.25	18.99	19.17	0	19.5
		12	7	18.37	18.16	18.34	0	18.7	19.11	18.97	19.12	0	19.5
		12	13	18.36	18.16	18.27	0	18.7	19.09	18.97	19.07	0	19.5
		25	0	18.41	18.20	18.34	0	18.7	19.15	19.00	19.13	0	19.5
	16QAM	1	0	18.70	18.59	18.70	0	18.7	19.50	19.41	19.50	0	19.5
		1	12	18.70	18.52	18.70	0	18.7	19.50	19.37	19.50	0	19.5
		1	24	18.70	18.58	18.70	0	18.7	19.50	19.39	19.50	0	19.5
		12	0	18.53	18.25	18.42	0	18.7	19.38	19.07	19.25	0	19.5
		12	7	18.42	18.23	18.37	0	18.7	19.21	19.05	19.17	0	19.5
		12	13	18.41	18.23	18.32	0	18.7	19.20	19.07	19.12	0	19.5
		25	0	18.38	18.23	18.32	0	18.7	19.17	19.05	19.18	0	19.5
	64QAM	1	0	18.70	18.59	18.70	0	18.7	19.50	19.50	19.50	0	19.5
		1	12	18.70	18.56	18.67	0	18.7	19.50	19.50	19.50	0	19.5
		1	24	18.70	18.51	18.69	0	18.7	19.50	19.50	19.50	0	19.5
		12	0	18.53	18.22	18.47	0	18.7	19.03	18.67	18.91	0	19.5
		12	7	18.39	18.20	18.41	0	18.7	18.87	18.66	18.86	0	19.5
		12	13	18.37	18.22	18.34	0	18.7	18.83	18.66	18.82	0	19.5
		25	0	18.39	18.24	18.37	0	18.7	18.87	18.69	18.83	0	19.5

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		24.94		0	25.5		24.94		0	25.5
		1	24		25.00		0	25.5		25.00		0	25.5
		1	49		24.82		0	25.5		24.82		0	25.5
		25	0		23.82		1	24.5		23.82		1	24.5
		25	12		24.00		1	24.5		24.00		1	24.5
		25	25		23.90		1	24.5		23.90		1	24.5
	16QAM	50	0		23.84		1	24.5		23.84		1	24.5
		1	0		24.32		1	24.5		24.32		1	24.5
		1	25		24.22		1	24.5		24.22		1	24.5
		1	49		24.27		1	24.5		24.27		1	24.5
		25	0		22.91		2	23.5		22.91		2	23.5
		25	12		22.91		2	23.5		22.91		2	23.5
	64QAM	25	25		22.98		2	23.5		22.98		2	23.5
		50	0		22.91		2	23.5		22.91		2	23.5
		1	0		23.31		2	23.5		23.31		2	23.5
		1	25		23.23		2	23.5		23.23		2	23.5
		1	49		23.26		2	23.5		23.26		2	23.5
		25	0		22.01		3	22.5		22.01		3	22.5
		25	12		22.00		3	22.5		22.00		3	22.5
		25	25		22.08		3	22.5		22.08		3	22.5
		50	0		22.01		3	22.5		22.01		3	22.5
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				23035	23095	23155	MPR	Tune-up Limit	23035	23095	23155	MPR	Tune-up Limit
					701.5 MHz					701.5 MHz			
5 MHz	QPSK	1	0		25.01		0	25.5		25.01		0	25.5
		1	12		24.89		0	25.5		24.89		0	25.5
		1	24		24.98		0	25.5		24.98		0	25.5
		12	0		23.90		1	24.5		23.90		1	24.5
		12	7		23.88		1	24.5		23.88		1	24.5
		12	13		23.88		1	24.5		23.88		1	24.5
	16QAM	25	0		23.91		1	24.5		23.91		1	24.5
		1	0		24.31		1	24.5		24.31		1	24.5
		1	12		24.26		1	24.5		24.26		1	24.5
		1	24		24.30		1	24.5		24.30		1	24.5
		12	0		22.95		2	23.5		22.95		2	23.5
		12	7		23.00		2	23.5		23.00		2	23.5
	64QAM	12	13		23.00		2	23.5		23.00		2	23.5
		25	0		23.00		2	23.5		23.00		2	23.5
		1	0		23.43		2	23.5		23.43		2	23.5
		1	12		23.39		2	23.5		23.39		2	23.5
		1	24		23.45		2	23.5		23.45		2	23.5
		12	0		22.05		3	22.5		22.05		3	22.5
		12	7		22.02		3	22.5		22.02		3	22.5
		12	13		22.01		3	22.5		22.01		3	22.5
		25	0		22.00		3	22.5		22.00		3	22.5
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					700.5 MHz			
3 MHz	QPSK	1	0		24.98		0	25.5		24.98		0	25.5
		1	8		24.96		0	25.5		24.96		0	25.5
		1	14		24.91		0	25.5		24.91		0	25.5
		8	0		23.96		1	24.5		23.96		1	24.5
		8	4		23.96		1	24.5		23.96		1	24.5
		8	7		23.97		1	24.5		23.97		1	24.5
	16QAM	15	0		23.96		1	24.5		23.96		1	24.5
		1	0		24.34		1	24.5		24.34		1	24.5
		1	8		24.41		1	24.5		24.41		1	24.5
		1	14		24.31		1	24.5		24.31		1	24.5
		8	0		23.04		2	23.5		23.04		2	23.5
		8	4		23.09		2	23.5		23.09		2	23.5
	64QAM	8	7		23.08		2	23.5		23.08		2	23.5
		15	0		23.04		2	23.5		23.04		2	23.5
		1	0		23.25		2	23.5		23.25		2	23.5
		1	8		23.29		2	23.5		23.29		2	23.5
		1	14		23.30		2	23.5		23.30		2	23.5
		8	0		22.10		3	22.5		22.10		3	22.5
		8	4		22.09		3	22.5		22.09		3	22.5
		8	7		22.11		3	22.5		22.11		3	22.5
		15	0		22.03		3	22.5		22.03		3	22.5

LTE Band 12 Measured Results (ANT1) (continued)

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	25.05	25.01	25.12	0	25.5	25.05	25.01	25.12	0	25.5
		1	3	24.96	25.00	25.10	0	25.5	24.96	25.00	25.10	0	25.5
		1	5	24.98	24.98	25.12	0	25.5	24.98	24.98	25.12	0	25.5
		3	0	24.96	24.91	25.05	0	25.5	24.96	24.91	25.05	0	25.5
		3	1	24.96	24.90	25.04	0	25.5	24.96	24.90	25.04	0	25.5
		3	3	24.96	24.91	25.03	0	25.5	24.96	24.91	25.03	0	25.5
	16QAM	6	0	23.98	23.93	24.02	1	24.5	23.98	23.93	24.02	1	24.5
		1	0	24.24	24.25	24.48	1	24.5	24.24	24.25	24.48	1	24.5
		1	3	24.22	24.24	24.45	1	24.5	24.22	24.24	24.45	1	24.5
		1	5	24.25	24.27	24.41	1	24.5	24.25	24.27	24.41	1	24.5
		3	0	24.13	24.11	24.20	1	24.5	24.13	24.11	24.20	1	24.5
		3	1	24.12	24.11	24.18	1	24.5	24.12	24.11	24.18	1	24.5
	64QAM	3	3	24.14	24.12	24.20	1	24.5	24.14	24.12	24.20	1	24.5
		6	0	23.11	23.10	23.13	2	23.5	23.11	23.10	23.13	2	23.5
		1	0	23.25	23.23	23.49	2	23.5	23.25	23.23	23.49	2	23.5
		1	3	23.21	23.20	23.47	2	23.5	23.21	23.20	23.47	2	23.5
		1	5	23.29	23.29	23.46	2	23.5	23.29	23.29	23.46	2	23.5
		3	0	23.18	23.07	23.28	2	23.5	23.18	23.07	23.28	2	23.5
	64QAM	3	1	23.16	23.07	23.26	2	23.5	23.16	23.07	23.26	2	23.5
		3	3	23.16	23.05	23.25	2	23.5	23.16	23.05	23.25	2	23.5
		6	0	22.14	22.03	22.14	3	22.5	22.14	22.03	22.14	3	22.5

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		24.39		0	24.5		24.39		0	24.5
		1	25		24.50		0	24.5		24.50		0	24.5
		1	49		24.37		0	24.5		24.37		0	24.5
		25	0		23.38		1	23.5		23.38		1	23.5
		25	12		23.50		1	23.5		23.50		1	23.5
		25	25		23.38		1	23.5		23.38		1	23.5
	16QAM	50	0		23.50		1	23.5		23.50		1	23.5
		1	0		23.29		1	23.5		23.29		1	23.5
		1	25		23.00		1	23.5		23.00		1	23.5
		1	49		22.92		1	23.5		22.92		1	23.5
		25	0		21.69		2	22.5		21.69		2	22.5
		25	12		21.71		2	22.5		21.71		2	22.5
	64QAM	25	25		21.71		2	22.5		21.71		2	22.5
		50	0		21.72		2	22.5		21.72		2	22.5
		1	0		22.13		2	22.5		22.13		2	22.5
		1	25		22.18		2	22.5		22.18		2	22.5
		1	49		22.07		2	22.5		22.07		2	22.5
		25	0		20.93		3	21.5		20.93		3	21.5
		25	12		20.90		3	21.5		20.90		3	21.5
		25	25		20.89		3	21.5		20.89		3	21.5
		50	0		20.90		3	21.5		20.90		3	21.5
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				23035	23095	23155	MPR	Tune-up Limit	23035	23095	23155	MPR	Tune-up Limit
				701.5 MHz	707.5 MHz	713.5 MHz			701.5 MHz	707.5 MHz	713.5 MHz		
5 MHz	QPSK	1	0		24.46	24.38	0	24.5		24.46	24.38	0	24.5
		1	12		24.24	24.29	0	24.5		24.24	24.29	0	24.5
		1	24		24.30	24.30	0	24.5		24.30	24.30	0	24.5
		12	0		23.29	23.33	1	23.5		23.29	23.33	1	23.5
		12	7		23.23	23.31	1	23.5		23.23	23.31	1	23.5
		12	13		23.28	23.36	1	23.5		23.28	23.36	1	23.5
	16QAM	25	0		23.28	23.39	1	23.5		23.28	23.39	1	23.5
		1	0		23.23	23.26	1	23.5		23.23	23.26	1	23.5
		1	12		23.12	23.23	1	23.5		23.12	23.23	1	23.5
		1	24		23.13	23.25	1	23.5		23.13	23.25	1	23.5
		12	0		22.43	22.44	2	22.5		22.43	22.44	2	22.5
		12	7		22.35	22.41	2	22.5		22.35	22.41	2	22.5
	64QAM	12	13		22.41	22.49	2	22.5		22.41	22.49	2	22.5
		25	0		22.33	22.40	2	22.5		22.33	22.40	2	22.5
		1	0		22.12	21.95	2	22.5		22.12	21.95	2	22.5
		1	12		21.97	21.93	2	22.5		21.97	21.93	2	22.5
		1	24		22.06	21.95	2	22.5		22.06	21.95	2	22.5
		12	0		20.65	20.66	3	21.5		20.65	20.66	3	21.5
		12	7		20.56	20.65	3	21.5		20.56	20.65	3	21.5
		12	13		20.65	20.66	3	21.5		20.65	20.66	3	21.5
		25	0		20.55	20.65	3	21.5		20.55	20.65	3	21.5
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		24.40	24.44	0	24.5		24.40	24.44	0	24.5
		1	8		24.39	24.49	0	24.5		24.39	24.49	0	24.5
		1	14		24.28	24.33	0	24.5		24.28	24.33	0	24.5
		8	0		23.39	23.41	1	23.5		23.39	23.41	1	23.5
		8	4		23.40	23.44	1	23.5		23.40	23.44	1	23.5
		8	7		23.40	23.46	1	23.5		23.40	23.46	1	23.5
	16QAM	15	0		23.41	23.44	1	23.5		23.41	23.44	1	23.5
		1	0		23.42	23.39	1	23.5		23.42	23.39	1	23.5
		1	8		23.41	23.43	1	23.5		23.41	23.43	1	23.5
		1	14		23.29	23.37	1	23.5		23.29	23.37	1	23.5
		8	0		22.06	22.19	2	22.5		22.06	22.19	2	22.5
		8	4		22.15	22.17	2	22.5		22.15	22.17	2	22.5
	64QAM	8	7		22.17	22.17	2	22.5		22.17	22.17	2	22.5
		15	0		22.11	22.12	2	22.5		22.11	22.12	2	22.5
		1	0		22.42	22.40	2	22.5		22.42	22.40	2	22.5
		1	8		22.48	22.34	2	22.5		22.48	22.34	2	22.5
		1	14		22.29	22.32	2	22.5		22.29	22.32	2	22.5
		8	0		21.23	21.20	3	21.5		21.23	21.20	3	21.5
		8	4		21.21	21.19	3	21.5		21.21	21.19	3	21.5
		8	7		21.21	21.20	3	21.5		21.21	21.20	3	21.5
		15	0		21.15	21.15	3	21.5		21.15	21.15	3	21.5

LTE Band 12 Measured Results (ANT2) (continued)

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	24.30	24.32	24.45	0	24.5	24.30	24.32	24.45	0	24.5
		1	3	24.48	24.45	24.31	0	24.5	24.48	24.45	24.31	0	24.5
		1	5	24.43	24.41	24.33	0	24.5	24.43	24.41	24.33	0	24.5
		3	0	24.46	24.38	24.32	0	24.5	24.46	24.38	24.32	0	24.5
		3	1	24.45	24.39	24.32	0	24.5	24.45	24.39	24.32	0	24.5
		3	3	24.37	24.37	24.31	0	24.5	24.37	24.37	24.31	0	24.5
	16QAM	6	0	23.39	23.43	23.49	1	23.5	23.39	23.43	23.49	1	23.5
		1	0	23.38	23.49	23.49	1	23.5	23.38	23.49	23.49	1	23.5
		1	3	23.35	23.41	23.50	1	23.5	23.35	23.41	23.50	1	23.5
		1	5	23.32	23.46	23.30	1	23.5	23.32	23.46	23.30	1	23.5
		3	0	23.43	23.40	23.38	1	23.5	23.43	23.40	23.38	1	23.5
		3	1	23.43	23.37	23.34	1	23.5	23.43	23.37	23.34	1	23.5
	64QAM	3	3	23.37	23.37	23.37	1	23.5	23.37	23.37	23.37	1	23.5
		6	0	22.30	22.29	22.40	2	22.5	22.30	22.29	22.40	2	22.5
		1	0	22.35	22.30	22.48	2	22.5	22.35	22.30	22.48	2	22.5
		1	3	22.34	22.43	22.47	2	22.5	22.34	22.43	22.47	2	22.5
		1	5	22.38	22.43	22.48	2	22.5	22.38	22.43	22.48	2	22.5
		3	0	22.39	22.47	22.49	2	22.5	22.39	22.47	22.49	2	22.5
		3	1	22.38	22.47	22.47	2	22.5	22.38	22.47	22.47	2	22.5
		3	3	22.34	22.47	22.49	2	22.5	22.34	22.47	22.49	2	22.5
		6	0	21.30	21.34	21.35	3	21.5	21.30	21.34	21.35	3	21.5

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	24.99		0	25.5	24.99		0	25.5
		1	24	25.10		0	25.5	25.10		0	25.5
		1	49	24.90		0	25.5	24.90		0	25.5
		25	0	23.90		1	24.5	23.90		1	24.5
		25	12	24.00		1	24.5	24.00		1	24.5
		25	25	23.82		1	24.5	23.82		1	24.5
	16QAM	50	0	23.87		1	24.5	23.87		1	24.5
		1	0	24.30		1	24.5	24.30		1	24.5
		1	25	24.29		1	24.5	24.29		1	24.5
		1	49	24.31		1	24.5	24.31		1	24.5
		25	0	22.96		2	23.5	22.96		2	23.5
		25	12	22.97		2	23.5	22.97		2	23.5
	64QAM	25	25	22.93		2	23.5	22.93		2	23.5
		50	0	22.92		2	23.5	22.92		2	23.5
		1	0	23.35		2	23.5	23.35		2	23.5
		1	25	23.31		2	23.5	23.31		2	23.5
		1	49	23.33		2	23.5	23.33		2	23.5
		25	0	22.04		3	22.5	22.04		3	22.5
5 MHz	QPSK	25	12	22.05		3	22.5	22.05		3	22.5
		25	25	22.02		3	22.5	22.02		3	22.5
		50	0	22.01		3	22.5	22.01		3	22.5
	16QAM	1	0	25.04		0	25.5	25.04		0	25.5
		1	12	24.91		0	25.5	24.91		0	25.5
		1	24	24.92		0	25.5	24.92		0	25.5
	64QAM	12	0	24.01		1	24.5	24.01		1	24.5
		12	7	23.94		1	24.5	23.94		1	24.5
		12	13	23.87		1	24.5	23.87		1	24.5
	16QAM	25	0	23.92		1	24.5	23.92		1	24.5
		1	0	24.31		1	24.5	24.31		1	24.5
		1	12	24.23		1	24.5	24.23		1	24.5
		1	24	24.25		1	24.5	24.25		1	24.5
	64QAM	12	0	23.07		2	23.5	23.07		2	23.5
		12	7	23.04		2	23.5	23.04		2	23.5
		12	13	23.02		2	23.5	23.02		2	23.5
		25	0	22.98		2	23.5	22.98		2	23.5
	16QAM	1	0	23.37		2	23.5	23.37		2	23.5
		1	12	23.29		2	23.5	23.29		2	23.5
		1	24	23.33		2	23.5	23.33		2	23.5
	64QAM	12	0	22.05		3	22.5	22.05		3	22.5
		12	7	21.99		3	22.5	21.99		3	22.5
		12	13	21.90		3	22.5	21.90		3	22.5
		25	0	21.91		3	22.5	21.91		3	22.5

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	24.33		0	24.5	24.33		0	24.5
		1	25	24.50		0	24.5	24.50		0	24.5
		1	49	24.43		0	24.5	24.43		0	24.5
		25	0	23.36		1	23.5	23.36		1	23.5
		25	12	23.50		1	23.5	23.50		1	23.5
		25	25	23.36		1	23.5	23.36		1	23.5
	16QAM	50	0	23.50		1	23.5	23.50		1	23.5
		1	0	23.40		1	23.5	23.40		1	23.5
		1	25	23.38		1	23.5	23.38		1	23.5
		1	49	23.43		1	23.5	23.43		1	23.5
		25	0	22.10		2	22.5	22.10		2	22.5
		25	12	22.11		2	22.5	22.11		2	22.5
	64QAM	25	25	22.13		2	22.5	22.13		2	22.5
		50	0	22.09		2	22.5	22.09		2	22.5
		1	0	22.45		2	22.5	22.45		2	22.5
		1	25	22.36		2	22.5	22.36		2	22.5
		1	49	22.45		2	22.5	22.45		2	22.5
		25	0	21.17		3	21.5	21.17		3	21.5
5 MHz	QPSK	25	12	21.22		3	21.5	21.22		3	21.5
		25	25	21.25		3	21.5	21.25		3	21.5
		50	0	21.17		3	21.5	21.17		3	21.5
	16QAM	1	0	24.46		0	24.5	24.46		0	24.5
		1	12	24.34		0	24.5	24.34		0	24.5
		1	24	24.32		0	24.5	24.32		0	24.5
		12	0	23.31		1	23.5	23.31		1	23.5
		12	7	23.33		1	23.5	23.33		1	23.5
		12	13	23.29		1	23.5	23.29		1	23.5
	64QAM	25	0	23.34		1	23.5	23.34		1	23.5
		1	0	23.41		1	23.5	23.41		1	23.5
		1	12	23.25		1	23.5	23.25		1	23.5
		1	24	23.37		1	23.5	23.37		1	23.5
		12	0	22.42		2	22.5	22.42		2	22.5
		12	7	22.47		2	22.5	22.47		2	22.5
	16QAM	12	13	22.46		2	22.5	22.46		2	22.5
		25	0	22.41		2	22.5	22.41		2	22.5
	64QAM	1	0	22.46		2	22.5	22.46		2	22.5
		1	12	22.35		2	22.5	22.35		2	22.5
		1	24	22.46		2	22.5	22.46		2	22.5
		12	0	21.48		3	21.5	21.48		3	21.5
	64QAM	12	7	21.41		3	21.5	21.41		3	21.5
		12	13	21.37		3	21.5	21.37		3	21.5
		25	0	21.37		3	21.5	21.37		3	21.5

LTE Band 14 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				23330	793 MHz	MPR	Tune-up Limit	23330	793 MHz	MPR	Tune-up Limit
10 MHz	QPSK	1	0	24.90		0	25.5	24.90		0	25.5
		1	24	24.93		0	25.5	24.93		0	25.5
		1	49	24.86		0	25.5	24.86		0	25.5
		25	0	23.85		1	24.5	23.85		1	24.5
		25	12	24.00		1	24.5	24.00		1	24.5
		25	25	23.93		1	24.5	23.93		1	24.5
	16QAM	50	0	23.89		1	24.5	23.89		1	24.5
		1	0	24.20		1	24.5	24.20		1	24.5
		1	25	24.22		1	24.5	24.22		1	24.5
		1	49	24.15		1	24.5	24.15		1	24.5
		25	0	22.95		2	23.5	22.95		2	23.5
		25	12	23.01		2	23.5	23.01		2	23.5
	64QAM	25	25	23.01		2	23.5	23.01		2	23.5
		50	0	22.95		2	23.5	22.95		2	23.5
		1	0	23.24		2	23.5	23.24		2	23.5
		1	25	23.29		2	23.5	23.29		2	23.5
		1	49	23.18		2	23.5	23.18		2	23.5
		25	0	22.05		3	22.5	22.05		3	22.5
5 MHz	QPSK	25	12	22.09		3	22.5	22.09		3	22.5
		25	25	22.08		3	22.5	22.08		3	22.5
		50	0	22.04		3	22.5	22.04		3	22.5
	16QAM	1	0	25.03		0	25.5	25.03		0	25.5
		1	12	24.96		0	25.5	24.96		0	25.5
		1	24	25.02		0	25.5	25.02		0	25.5
		12	0	23.93		1	24.5	23.93		1	24.5
		12	7	24.01		1	24.5	24.01		1	24.5
		12	13	23.92		1	24.5	23.92		1	24.5
	64QAM	25	0	23.92		1	24.5	23.92		1	24.5
		1	0	24.42		1	24.5	24.42		1	24.5
		1	12	24.38		1	24.5	24.38		1	24.5
		1	24	24.46		1	24.5	24.46		1	24.5
		12	0	23.02		2	23.5	23.02		2	23.5
		12	7	23.08		2	23.5	23.08		2	23.5
	16QAM	12	13	23.00		2	23.5	23.00		2	23.5
		25	0	23.02		2	23.5	23.02		2	23.5
	64QAM	1	0	23.31		2	23.5	23.31		2	23.5
		1	12	23.26		2	23.5	23.26		2	23.5
		1	24	23.34		2	23.5	23.34		2	23.5
		12	0	22.00		3	22.5	22.00		3	22.5
	QPSK	12	7	22.03		3	22.5	22.03		3	22.5
		12	13	21.98		3	22.5	21.98		3	22.5
		25	0	21.99		3	22.5	21.99		3	22.5

LTE Band 14 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				23330 793 MHz		MPR	Tune-up Limit	23330 793 MHz		MPR	Tune-up Limit
10 MHz	QPSK	1	0	24.38		0	24.5	24.38		0	24.5
		1	25	24.50		0	24.5	24.50		0	24.5
		1	49	24.30		0	24.5	24.30		0	24.5
		25	0	23.31		1	23.5	23.31		1	23.5
		25	12	23.50		1	23.5	23.50		1	23.5
		25	25	23.36		1	23.5	23.36		1	23.5
	16QAM	50	0	23.50		1	23.5	23.50		1	23.5
		1	0	22.88		1	23.5	22.88		1	23.5
		1	25	22.82		1	23.5	22.82		1	23.5
		1	49	22.84		1	23.5	22.84		1	23.5
		25	0	22.44		2	22.5	22.44		2	22.5
		25	12	22.41		2	22.5	22.41		2	22.5
	64QAM	25	25	22.48		2	22.5	22.48		2	22.5
		50	0	22.42		2	22.5	22.42		2	22.5
		1	0	22.11		2	22.5	22.11		2	22.5
		1	25	22.13		2	22.5	22.13		2	22.5
		1	49	22.04		2	22.5	22.04		2	22.5
		25	0	20.89		3	21.5	20.89		3	21.5
		25	12	20.87		3	21.5	20.87		3	21.5
		25	25	20.90		3	21.5	20.90		3	21.5
		50	0	20.86		3	21.5	20.86		3	21.5
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)			
				23330 793 MHz		MPR	Tune-up Limit	23330 793 MHz		MPR	Tune-up Limit
5 MHz	QPSK	1	0	24.42		0	24.5	24.42		0	24.5
		1	12	24.34		0	24.5	24.34		0	24.5
		1	24	24.32		0	24.5	24.32		0	24.5
		12	0	23.35		1	23.5	23.35		1	23.5
		12	7	23.35		1	23.5	23.35		1	23.5
		12	13	23.35		1	23.5	23.35		1	23.5
	16QAM	25	0	23.34		1	23.5	23.34		1	23.5
		1	0	23.47		1	23.5	23.47		1	23.5
		1	12	23.40		1	23.5	23.40		1	23.5
		1	24	23.40		1	23.5	23.40		1	23.5
		12	0	22.46		2	22.5	22.46		2	22.5
		12	7	22.45		2	22.5	22.45		2	22.5
	64QAM	12	13	22.46		2	22.5	22.46		2	22.5
		25	0	22.10		2	22.5	22.10		2	22.5
		1	0	22.49		2	22.5	22.49		2	22.5
		1	12	22.46		2	22.5	22.46		2	22.5
		1	24	22.40		2	22.5	22.40		2	22.5
		12	0	21.23		3	21.5	21.23		3	21.5
		12	7	21.23		3	21.5	21.23		3	21.5
		12	13	21.22		3	21.5	21.22		3	21.5
		25	0	21.23		3	21.5	21.23		3	21.5

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	24.91	24.86	24.98	0	25.5	19.42	19.36	19.39	0	19.5
		1	49	25.00	25.00	25.00	0	25.5	19.50	19.50	19.50	0	19.5
		1	99	24.84	24.79	24.62	0	25.5	19.38	19.38	19.42	0	19.5
		50	0	23.94	23.92	23.89	1	24.5	19.41	19.42	19.43	0	19.5
		50	24	24.20	24.30	24.00	1	24.5	19.50	19.50	19.50	0	19.5
		50	50	23.77	23.89	23.93	1	24.5	19.29	19.30	19.32	0	19.5
	16QAM	1	0	23.50	23.50	23.50	1	24.5	19.30	19.22	19.26	0	19.5
		1	49	23.50	23.50	23.50	1	24.5	19.25	19.31	19.26	0	19.5
		1	99	23.50	23.50	23.50	1	24.5	19.23	19.23	19.35	0	19.5
		50	0	22.50	22.50	22.50	2	23.5	19.03	18.96	18.96	0	19.5
		50	24	22.50	22.50	22.50	2	23.5	19.39	19.36	19.38	0	19.5
		50	50	22.50	22.50	22.50	2	23.5	19.28	19.29	19.32	0	19.5
	64QAM	100	0	22.50	22.50	22.50	2	23.5	19.40	19.39	19.44	0	19.5
		1	0	22.87	22.64	22.90	2	23.5	19.21	19.18	19.22	0	19.5
		1	49	22.64	22.50	22.71	2	23.5	19.21	19.23	19.23	0	19.5
		1	99	22.80	22.54	22.50	2	23.5	19.22	19.21	19.33	0	19.5
		50	0	21.50	21.50	21.56	3	22.5	18.97	18.90	18.91	0	19.5
		50	24	21.50	21.50	21.50	3	22.5	18.92	18.86	18.84	0	19.5
		50	50	21.50	21.50	21.50	3	22.5	18.80	18.82	18.78	0	19.5
		100	0	21.50	21.50	21.50	3	22.5	18.93	18.88	18.92	0	19.5
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	24.92	24.86	24.98	0	25.5	19.29	19.32	19.34	0	19.5
		1	37	24.75	24.77	24.71	0	25.5	19.42	19.30	19.27	0	19.5
		1	74	24.67	24.77	24.60	0	25.5	19.21	19.23	19.36	0	19.5
		36	0	24.04	23.98	23.80	1	24.5	19.34	19.32	19.27	0	19.5
		36	20	23.91	23.92	23.89	1	24.5	19.37	19.33	19.25	0	19.5
		36	39	23.90	23.90	23.95	1	24.5	19.32	19.21	19.18	0	19.5
		75	0	23.88	23.95	23.94	1	24.5	19.36	19.25	19.30	0	19.5
	16QAM	1	0	23.50	23.50	23.50	1	24.5	19.23	19.24	19.28	0	19.5
		1	37	23.50	23.50	23.50	1	24.5	19.29	19.22	19.19	0	19.5
		1	74	23.50	23.50	23.50	1	24.5	19.10	19.14	19.26	0	19.5
		36	0	22.50	22.50	22.50	2	23.5	19.38	19.36	19.31	0	19.5
		36	20	22.50	22.50	22.50	2	23.5	19.37	19.34	19.28	0	19.5
		36	39	22.50	22.50	22.50	2	23.5	19.29	19.21	19.21	0	19.5
	64QAM	75	0	22.50	22.50	22.50	2	23.5	19.36	19.27	19.31	0	19.5
		1	0	22.69	22.68	22.86	2	23.5	19.19	19.21	19.28	0	19.5
		1	37	22.61	22.62	22.68	2	23.5	19.31	19.20	19.22	0	19.5
		1	74	22.50	22.61	22.50	2	23.5	19.13	19.11	19.32	0	19.5
		36	0	21.60	21.50	21.50	3	22.5	18.87	18.85	18.81	0	19.5
		36	20	21.50	21.50	21.50	3	22.5	18.90	18.86	18.76	0	19.5
		36	39	21.50	21.50	21.50	3	22.5	18.82	18.71	18.69	0	19.5
		75	0	21.50	21.50	21.50	3	22.5	18.88	18.77	18.78	0	19.5
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	25.01	24.94	24.96	0	25.5	19.31	19.38	19.29	0	19.5
		1	25	25.00	24.81	24.93	0	25.5	19.42	19.36	19.20	0	19.5
		1	49	24.84	24.80	24.69	0	25.5	19.35	19.27	19.39	0	19.5
		25	0	24.16	23.98	23.88	1	24.5	19.33	19.29	19.20	0	19.5
		25	12	24.09	23.94	23.96	1	24.5	19.36	19.30	19.15	0	19.5
		25	25	23.99	23.91	24.08	1	24.5	19.33	19.24	19.17	0	19.5
		50	0	24.03	23.94	24.06	1	24.5	19.39	19.25	19.21	0	19.5
	16QAM	1	0	23.51	23.50	23.50	1	24.5	19.21	19.31	19.31	0	19.5
		1	25	23.50	23.50	23.50	1	24.5	19.30	19.26	19.20	0	19.5
		1	49	23.50	23.50	23.50	1	24.5	19.19	19.16	19.34	0	19.5
		25	0	22.50	22.50	22.50	2	23.5	19.37	19.34	19.24	0	19.5
		25	12	22.50	22.50	22.50	2	23.5	19.38	19.34	19.18	0	19.5
		25	25	22.50	22.50	22.50	2	23.5	19.35	19.27	19.20	0	19.5
	64QAM	50	0	22.50	22.50	22.50	2	23.5	19.39	19.26	19.20	0	19.5
		1	0	22.71	22.79	22.67	2	23.5	19.27	19.32	19.30	0	19.5
		1	25	22.54	22.61	22.59	2	23.5	19.38	19.27	19.15	0	19.5
		1	49	22.62	22.65	22.50	2	23.5	19.27	19.18	19.37	0	19.5
		25	0	21.61	21.56	21.50	3	22.5	18.86	18.83	18.73	0	19.5
		25	12	21.55	21.53	21.52	3	22.5	18.90	18.83	18.66	0	19.5
		25	25	21.50	21.50	21.60	3	22.5	18.88	18.75	18.67	0	19.5
		50	0	21.50	21.51	21.50	3	22.5	18.89	18.76	18.67	0	19.5

LTE Band 25 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26065	26365	26665	MPR	Tune-up Limit	26065	26365	26665	MPR	Tune-up Limit
				1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	QPSK	1	0	25.03	25.05	25.14	0	25.5	19.28	19.30	19.29	0	19.5
		1	12	25.08	24.90	24.98	0	25.5	19.35	19.23	19.24	0	19.5
		1	24	25.01	24.90	24.71	0	25.5	19.42	19.27	19.44	0	19.5
		12	0	24.14	24.06	24.07	1	24.5	19.25	19.28	19.17	0	19.5
		12	7	24.18	24.04	24.16	1	24.5	19.31	19.30	19.18	0	19.5
		12	13	24.18	24.03	24.16	1	24.5	19.35	19.23	19.28	0	19.5
		25	0	24.16	24.06	24.18	1	24.5	19.38	19.23	19.19	0	19.5
	16QAM	1	0	23.54	23.50	23.50	1	24.5	19.27	19.29	19.20	0	19.5
		1	12	23.57	23.50	23.50	1	24.5	19.34	19.26	19.20	0	19.5
		1	24	23.52	23.50	23.50	1	24.5	19.42	19.25	19.37	0	19.5
		12	0	22.50	22.50	22.50	2	23.5	19.30	19.34	19.21	0	19.5
		12	7	22.50	22.50	22.50	2	23.5	19.37	19.33	19.20	0	19.5
		12	13	22.50	22.50	22.50	2	23.5	19.39	19.28	19.32	0	19.5
		25	0	22.50	22.50	22.50	2	23.5	19.37	19.28	19.23	0	19.5
	64QAM	1	0	22.67	22.79	22.88	2	23.5	19.15	19.19	19.09	0	19.5
		1	12	22.59	22.75	22.82	2	23.5	19.23	19.11	19.07	0	19.5
		1	24	22.50	22.70	22.50	2	23.5	19.26	19.16	19.25	0	19.5
		12	0	21.50	21.55	21.56	3	22.5	18.80	18.87	18.68	0	19.5
		12	7	21.52	21.51	21.62	3	22.5	18.86	18.87	18.72	0	19.5
		12	13	21.60	21.50	21.68	3	22.5	18.88	18.81	18.83	0	19.5
		25	0	21.50	21.50	21.62	3	22.5	18.84	18.76	18.72	0	19.5
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	24.50	24.50	24.50	0	25.5	19.31	19.36	19.22	0	19.5
		1	8	24.50	24.50	24.50	0	25.5	19.30	19.28	19.34	0	19.5
		1	14	24.50	24.50	24.50	0	25.5	19.35	19.24	19.37	0	19.5
		8	0	23.50	23.50	23.50	1	24.5	19.24	19.29	19.19	0	19.5
		8	4	23.50	23.50	23.50	1	24.5	19.23	19.29	19.27	0	19.5
		8	7	23.50	23.50	23.50	1	24.5	19.25	19.23	19.28	0	19.5
		15	0	23.50	23.50	23.50	1	24.5	19.24	19.23	19.27	0	19.5
	16QAM	1	0	23.50	23.50	23.50	1	24.5	19.15	19.14	19.11	0	19.5
		1	8	23.63	23.50	23.50	1	24.5	19.19	19.16	19.23	0	19.5
		1	14	23.63	23.50	23.50	1	24.5	19.25	19.16	19.27	0	19.5
		8	0	22.50	22.50	22.50	2	23.5	19.31	19.39	19.27	0	19.5
		8	4	22.50	22.50	22.50	2	23.5	19.30	19.35	19.33	0	19.5
		8	7	22.50	22.50	22.52	2	23.5	19.30	19.30	19.36	0	19.5
		15	0	22.50	22.50	22.50	2	23.5	19.26	19.27	19.29	0	19.5
	64QAM	1	0	22.69	22.67	22.64	2	23.5	19.42	19.31	19.40	0	19.5
		1	8	22.81	22.70	22.68	2	23.5	19.41	19.49	19.43	0	19.5
		1	14	22.77	22.62	22.50	2	23.5	19.35	19.46	19.33	0	19.5
		8	0	21.60	21.55	21.60	3	22.5	18.78	18.85	18.71	0	19.5
		8	4	21.60	21.52	21.63	3	22.5	18.77	18.87	18.79	0	19.5
		8	7	21.63	21.52	21.66	3	22.5	18.78	18.79	18.82	0	19.5
		15	0	21.56	21.50	21.63	3	22.5	18.77	18.76	18.79	0	19.5
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	24.50	24.50	24.51	0	25.5	19.32	19.40	19.35	0	19.5
		1	3	24.50	24.50	24.50	0	25.5	19.31	19.39	19.36	0	19.5
		1	5	24.50	24.50	24.50	0	25.5	19.31	19.35	19.43	0	19.5
		3	0	24.50	24.50	24.50	0	25.5	19.22	19.36	19.37	0	19.5
		3	1	24.50	24.50	24.50	0	25.5	19.22	19.36	19.37	0	19.5
		3	3	24.50	24.50	24.50	0	25.5	19.22	19.29	19.36	0	19.5
		6	0	23.50	23.50	23.50	1	24.5	19.20	19.30	19.30	0	19.5
	16QAM	1	0	23.65	23.54	23.50	1	24.5	19.21	19.46	19.26	0	19.5
		1	3	23.61	23.50	23.50	1	24.5	19.50	19.36	19.25	0	19.5
		1	5	23.69	23.50	23.50	1	24.5	19.48	19.36	19.31	0	19.5
		3	0	23.50	23.50	23.50	1	24.5	19.39	19.24	19.44	0	19.5
		3	1	23.50	23.50	23.50	1	24.5	19.33	19.26	19.47	0	19.5
		3	3	23.50	23.50	23.50	1	24.5	19.35	19.44	19.43	0	19.5
		6	0	22.50	22.50	22.62	2	23.5	19.31	19.41	19.40	0	19.5
	64QAM	1	0	22.69	22.71	22.82	2	23.5	19.21	19.34	19.28	0	19.5
		1	3	22.71	22.69	22.61	2	23.5	19.47	19.38	19.35	0	19.5
		1	5	22.75	22.69	22.64	2	23.5	19.48	19.26	19.33	0	19.5
		3	0	22.60	22.57	22.54	2	23.5	19.34	19.50	19.46	0	19.5
		3	1	22.61	22.58	22.50	2	23.5	19.34	19.48	19.47	0	19.5
		3	3	22.62	22.57	22.50	2	23.5	19.35	19.43	19.44	0	19.5
		6	0	21.60	21.57	21.69	3	22.5	18.82	18.91	18.94	0	19.5

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	20.32	20.26	20.29	0	20.5	17.73	17.69	17.72	0	18.5
		1	49	20.40	20.30	20.40	0	20.5	17.80	17.80	17.80	0	18.5
		1	99	20.28	20.28	20.39	0	20.5	17.69	17.72	17.84	0	18.5
		50	0	20.30	20.32	20.33	0	20.5	17.79	17.71	17.74	0	18.5
		50	24	20.40	20.40	20.40	0	20.5	17.80	18.00	17.80	0	18.5
		50	50	20.19	20.20	20.22	0	20.5	17.53	17.59	17.63	0	18.5
	16QAM	100	0	20.30	20.27	20.37	0	20.5	17.70	17.79	17.76	0	18.5
		1	0	20.50	20.50	20.50	0	20.5	17.72	17.56	17.58	0	18.5
		1	49	20.50	20.50	20.50	0	20.5	17.66	17.63	17.58	0	18.5
		1	99	20.50	20.50	20.50	0	20.5	17.63	17.58	17.69	0	18.5
		50	0	20.43	20.36	20.36	0	20.5	17.77	17.75	17.78	0	18.5
		50	24	20.29	20.26	20.28	0	20.5	17.67	17.68	17.70	0	18.5
	64QAM	50	50	20.18	20.19	20.22	0	20.5	17.54	17.60	17.63	0	18.5
		100	0	20.30	20.29	20.34	0	20.5	17.70	17.71	17.76	0	18.5
		1	0	20.41	20.38	20.42	0	20.5	17.64	17.70	17.40	0	18.5
		1	49	20.41	20.43	20.43	0	20.5	17.43	17.49	17.08	0	18.5
		1	99	20.42	20.41	20.50	0	20.5	17.52	17.51	17.24	0	18.5
		50	0	19.87	19.80	19.81	0	20.5	17.76	17.78	17.67	0	18.5
		50	24	19.82	19.76	19.74	0	20.5	17.60	17.67	17.56	0	18.5
		50	50	19.70	19.72	19.68	0	20.5	17.58	17.57	17.64	0	18.5
		100	0	19.83	19.78	19.82	0	20.5	17.61	17.68	17.65	0	18.5
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	20.29	20.32	20.34	0	20.5	17.74	17.70	17.79	0	18.5
		1	37	20.42	20.30	20.27	0	20.5	17.82	17.70	17.69	0	18.5
		1	74	20.21	20.23	20.36	0	20.5	17.58	17.61	17.79	0	18.5
		36	0	20.34	20.32	20.27	0	20.5	17.72	17.74	17.65	0	18.5
		36	20	20.37	20.33	20.25	0	20.5	17.72	17.74	17.64	0	18.5
		36	39	20.32	20.21	20.18	0	20.5	17.64	17.56	17.57	0	18.5
		75	0	20.36	20.25	20.30	0	20.5	17.73	17.67	17.69	0	18.5
	16QAM	1	0	20.50	20.50	20.50	0	20.5	17.60	17.60	17.61	0	18.5
		1	37	20.50	20.50	20.50	0	20.5	17.69	17.58	17.50	0	18.5
		1	74	20.50	20.50	20.50	0	20.5	17.47	17.51	17.61	0	18.5
		36	0	20.38	20.36	20.31	0	20.5	17.75	17.76	17.69	0	18.5
		36	20	20.37	20.34	20.28	0	20.5	17.77	17.77	17.65	0	18.5
		36	39	20.29	20.21	20.21	0	20.5	17.68	17.59	17.60	0	18.5
	64QAM	75	0	20.36	20.27	20.31	0	20.5	17.76	17.69	17.69	0	18.5
		1	0	20.50	20.50	20.50	0	20.5	17.47	17.52	17.45	0	18.5
		1	37	20.50	20.50	20.50	0	20.5	17.37	17.38	17.34	0	18.5
		1	74	20.50	20.50	20.50	0	20.5	17.27	17.28	17.44	0	18.5
		36	0	19.87	19.85	19.81	0	20.5	17.79	17.80	17.59	0	18.5
		36	20	19.90	19.86	19.76	0	20.5	17.70	17.73	17.60	0	18.5
		36	39	19.82	19.71	19.69	0	20.5	17.60	17.65	17.67	0	18.5
		75	0	19.88	19.77	19.78	0	20.5	17.65	17.70	17.65	0	18.5
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	20.31	20.38	20.29	0	20.5	17.73	17.75	17.72	0	18.5
		1	25	20.42	20.36	20.20	0	20.5	17.81	17.73	17.63	0	18.5
		1	49	20.35	20.27	20.39	0	20.5	17.75	17.62	17.82	0	18.5
		25	0	20.33	20.29	20.20	0	20.5	17.67	17.68	17.60	0	18.5
		25	12	20.36	20.30	20.15	0	20.5	17.71	17.71	17.55	0	18.5
		25	25	20.33	20.24	20.17	0	20.5	17.72	17.66	17.55	0	18.5
		50	0	20.39	20.25	20.21	0	20.5	17.70	17.64	17.59	0	18.5
	16QAM	1	0	20.50	20.50	20.50	0	20.5	17.58	17.64	17.53	0	18.5
		1	25	20.50	20.50	20.50	0	20.5	17.69	17.65	17.40	0	18.5
		1	49	20.50	20.50	20.50	0	20.5	17.62	17.51	17.60	0	18.5
		25	0	20.37	20.34	20.24	0	20.5	17.70	17.73	17.63	0	18.5
		25	12	20.38	20.34	20.18	0	20.5	17.74	17.75	17.57	0	18.5
		25	25	20.35	20.27	20.20	0	20.5	17.76	17.70	17.58	0	18.5
	64QAM	50	0	20.39	20.26	20.20	0	20.5	17.74	17.66	17.58	0	18.5
		1	0	20.47	20.50	20.50	0	20.5	17.43	17.42	17.27	0	18.5
		1	25	20.50	20.47	20.35	0	20.5	17.42	17.34	17.30	0	18.5
		1	49	20.47	20.38	20.50	0	20.5	17.34	17.22	17.39	0	18.5
		25	0	19.86	19.83	19.73	0	20.5	17.74	17.73	17.54	0	18.5
		25	12	19.90	19.83	19.66	0	20.5	17.73	17.69	17.61	0	18.5
		25	25	19.88	19.75	19.67	0	20.5	17.68	17.64	17.62	0	18.5
		50	0	19.89	19.76	19.67	0	20.5	17.70	17.68	17.64	0	18.5

LTE Band 25 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26065	26365	26665	MPR	Tune-up Limit	26065	26365	26665	MPR	Tune-up Limit
				1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	QPSK	1	0	20.28	20.30	20.31	0	20.5	17.71	17.72	17.64	0	18.5
		1	12	20.35	20.23	20.30	0	20.5	17.74	17.64	17.61	0	18.5
		1	24	20.42	20.27	20.35	0	20.5	17.82	17.69	17.81	0	18.5
		12	0	20.25	20.28	20.24	0	20.5	17.61	17.69	17.54	0	18.5
		12	7	20.31	20.30	20.23	0	20.5	17.66	17.69	17.56	0	18.5
		12	13	20.35	20.23	20.25	0	20.5	17.68	17.63	17.67	0	18.5
		25	0	20.38	20.23	20.24	0	20.5	17.68	17.64	17.58	0	18.5
	16QAM	1	0	20.50	20.50	20.50	0	20.5	17.56	17.64	17.60	0	18.5
		1	12	20.50	20.50	20.50	0	20.5	17.59	17.54	17.58	0	18.5
		1	24	20.50	20.50	20.50	0	20.5	17.69	17.58	17.79	0	18.5
		12	0	20.30	20.34	20.31	0	20.5	17.66	17.76	17.59	0	18.5
		12	7	20.37	20.33	20.30	0	20.5	17.71	17.76	17.59	0	18.5
		12	13	20.39	20.28	20.30	0	20.5	17.76	17.69	17.68	0	18.5
		25	0	20.37	20.28	20.26	0	20.5	17.71	17.67	17.61	0	18.5
	64QAM	1	0	20.50	20.50	20.42	0	20.5	17.41	17.48	17.47	0	18.5
		1	12	20.50	20.50	20.41	0	20.5	17.39	17.41	17.48	0	18.5
		1	24	20.50	20.50	20.50	0	20.5	17.43	17.36	17.54	0	18.5
		12	0	19.80	19.87	19.78	0	20.5	17.68	17.77	17.60	0	18.5
		12	7	19.86	19.87	19.77	0	20.5	17.68	17.74	17.64	0	18.5
		12	13	19.88	19.81	19.78	0	20.5	17.71	17.72	17.63	0	18.5
		25	0	19.84	19.76	19.77	0	20.5	17.68	17.70	17.66	0	18.5
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	20.31	20.36	20.22	0	20.5	17.61	17.76	17.61	0	18.5
		1	8	20.30	20.28	20.34	0	20.5	17.65	17.77	17.77	0	18.5
		1	14	20.35	20.24	20.37	0	20.5	17.65	17.73	17.79	0	18.5
		8	0	20.24	20.29	20.19	0	20.5	17.61	17.74	17.59	0	18.5
		8	4	20.23	20.29	20.27	0	20.5	17.60	17.73	17.66	0	18.5
		8	7	20.25	20.23	20.28	0	20.5	17.61	17.71	17.63	0	18.5
		15	0	20.24	20.23	20.27	0	20.5	17.62	17.71	17.61	0	18.5
	16QAM	1	0	20.50	20.50	20.50	0	20.5	17.52	17.57	17.47	0	18.5
		1	8	20.50	20.50	20.50	0	20.5	17.55	17.57	17.58	0	18.5
		1	14	20.50	20.50	20.50	0	20.5	17.55	17.51	17.58	0	18.5
		8	0	20.31	20.39	20.27	0	20.5	17.68	17.81	17.61	0	18.5
		8	4	20.30	20.35	20.33	0	20.5	17.67	17.80	17.69	0	18.5
		8	7	20.30	20.30	20.36	0	20.5	17.69	17.76	17.71	0	18.5
		15	0	20.26	20.27	20.29	0	20.5	17.64	17.74	17.68	0	18.5
	64QAM	1	0	20.42	20.50	20.40	0	20.5	17.66	17.70	17.84	0	18.5
		1	8	20.41	20.49	20.43	0	20.5	17.82	17.74	17.78	0	18.5
		1	14	20.50	20.46	20.50	0	20.5	17.75	17.66	17.77	0	18.5
		8	0	19.78	19.85	19.71	0	20.5	17.76	17.75	17.74	0	18.5
		8	4	19.77	19.87	19.79	0	20.5	17.78	17.73	17.69	0	18.5
		8	7	19.78	19.79	19.82	0	20.5	17.79	17.72	17.72	0	18.5
		15	0	19.77	19.76	19.79	0	20.5	17.71	17.70	17.63	0	18.5
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	20.32	20.40	20.35	0	20.5	17.71	17.83	17.79	0	18.5
		1	3	20.31	20.39	20.36	0	20.5	17.67	17.80	17.79	0	18.5
		1	5	20.31	20.35	20.43	0	20.5	17.69	17.80	17.84	0	18.5
		3	0	20.22	20.36	20.37	0	20.5	17.67	17.76	17.73	0	18.5
		3	1	20.22	20.36	20.37	0	20.5	17.66	17.75	17.74	0	18.5
		3	3	20.22	20.29	20.36	0	20.5	17.66	17.71	17.75	0	18.5
		6	0	20.20	20.30	20.30	0	20.5	17.65	17.72	17.73	0	18.5
	16QAM	1	0	20.50	20.50	20.50	0	20.5	17.43	17.61	17.70	0	18.5
		1	3	20.50	20.50	20.50	0	20.5	17.39	17.58	17.68	0	18.5
		1	5	20.48	20.50	20.50	0	20.5	17.43	17.59	17.73	0	18.5
		3	0	20.39	20.50	20.44	0	20.5	17.81	17.90	17.90	0	18.5
		3	1	20.33	20.50	20.47	0	20.5	17.81	17.90	17.89	0	18.5
		3	3	20.35	20.44	20.43	0	20.5	17.81	17.89	17.90	0	18.5
		6	0	20.31	20.41	20.40	0	20.5	17.75	17.82	17.80	0	18.5
	64QAM	1	0	20.50	20.50	20.50	0	20.5	17.43	17.53	17.53	0	18.5
		1	3	20.47	20.50	20.50	0	20.5	17.39	17.51	17.48	0	18.5
		1	5	20.48	20.50	20.50	0	20.5	17.42	17.50	17.52	0	18.5
		3	0	20.34	20.50	20.46	0	20.5	17.78	17.55	17.55	0	18.5
		3	1	20.34	20.48	20.47	0	20.5	17.78	17.54	17.54	0	18.5
		3	3	20.35	20.43	20.44	0	20.5	17.79	17.52	17.53	0	18.5
		6	0	19.82	19.91	19.94	0	20.5	17.75	17.80	17.81	0	18.5

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	24.30	24.30	24.49	0	25	20.00	20.00	19.80	0	20
		1	49	24.31	24.46	24.50	0	25	20.00	20.00	19.86	0	20
		1	99	24.30	24.23	24.22	0	25	20.00	20.00	19.86	0	20
		50	0	23.56	23.53	23.36	1	24	20.00	19.80	19.70	0	20
		50	24	23.60	23.56	23.40	1	24	20.00	19.95	19.73	0	20
		50	50	23.31	23.49	23.33	1	24	20.00	19.89	19.70	0	20
	16QAM	100	0	23.44	23.54	23.33	1	24	20.00	19.97	19.86	0	20
		1	0	23.81	23.92	23.78	1	24	20.00	20.00	20.00	0	20
		1	49	23.70	23.93	23.01	1	24	20.00	20.00	20.00	0	20
		1	99	23.75	23.73	23.51	1	24	20.00	20.00	20.00	0	20
		50	0	22.71	22.73	22.57	2	23	20.00	20.00	19.93	0	20
		50	24	22.66	22.76	22.42	2	23	20.00	19.98	19.75	0	20
	64QAM	50	50	22.54	22.68	22.51	2	23	20.00	19.92	19.82	0	20
		100	0	22.67	22.79	22.53	2	23	20.00	20.00	19.85	0	20
		1	0	22.65	22.95	22.85	2	23	20.00	20.00	20.00	0	20
		1	49	22.59	22.88	22.10	2	23	20.00	20.00	20.00	0	20
		1	99	22.75	22.69	22.52	2	23	20.00	20.00	20.00	0	20
		50	0	21.91	21.89	21.74	3	22	20.00	20.00	19.98	0	20
		50	24	21.81	21.92	21.58	3	22	20.00	19.97	19.78	0	20
		50	50	21.76	21.86	21.62	3	22	20.00	19.93	19.82	0	20
		100	0	21.82	21.95	21.61	3	22	20.00	19.99	19.85	0	20
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	24.52	24.64	24.76	0	25	20.00	20.00	20.00	0	20
		1	37	24.44	24.52	24.00	0	25	20.00	20.00	19.80	0	20
		1	74	24.24	24.38	24.36	0	25	20.00	20.00	19.85	0	20
		36	0	23.65	23.57	23.34	1	24	20.00	20.00	19.78	0	20
		36	20	23.57	23.63	23.38	1	24	20.00	20.00	19.75	0	20
		36	39	23.50	23.57	23.42	1	24	20.00	19.97	19.79	0	20
	16QAM	75	0	23.53	23.64	23.41	1	24	20.00	20.00	19.86	0	20
		1	0	23.72	23.87	23.88	1	24	20.00	20.00	20.00	0	20
		1	37	23.77	23.92	23.00	1	24	20.00	20.00	20.00	0	20
		1	74	23.63	23.77	23.57	1	24	20.00	20.00	20.00	0	20
		36	0	22.83	22.69	22.41	2	23	20.00	20.00	19.82	0	20
		36	20	22.72	22.78	22.41	2	23	20.00	20.00	19.79	0	20
	64QAM	36	39	22.65	22.73	22.52	2	23	20.00	19.98	19.77	0	20
		75	0	22.69	22.75	22.57	2	23	20.00	19.96	19.79	0	20
		1	0	22.81	23.00	23.00	2	23	20.00	20.00	20.00	0	20
		1	37	22.88	23.00	22.00	2	23	20.00	20.00	20.00	0	20
		1	74	22.78	22.93	22.70	2	23	20.00	20.00	20.00	0	20
		36	0	21.98	21.88	21.62	3	22	20.00	20.00	19.82	0	20
		36	20	21.91	21.99	21.61	3	22	20.00	20.00	19.79	0	20
		36	39	21.85	21.91	21.74	3	22	20.00	20.00	19.81	0	20
		75	0	21.88	21.92	21.75	3	22	20.00	20.00	19.85	0	20
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	24.28	24.43	24.00	0	25	20.00	20.00	19.81	0	20
		1	25	24.28	24.45	24.00	0	25	20.00	20.00	19.84	0	20
		1	49	24.18	24.37	24.27	0	25	20.00	19.97	19.87	0	20
		25	0	23.52	23.58	23.29	1	24	20.00	19.96	19.71	0	20
		25	12	23.45	23.55	23.37	1	24	20.00	19.96	19.76	0	20
		25	25	23.38	23.52	23.52	1	24	20.00	19.95	19.72	0	20
	16QAM	50	0	23.44	23.56	23.39	1	24	20.00	19.97	19.81	0	20
		1	0	23.62	23.84	23.00	1	24	20.00	20.00	20.00	0	20
		1	25	23.78	23.88	23.15	1	24	20.00	20.00	20.00	0	20
		1	49	23.60	23.80	23.50	1	24	20.00	20.00	20.00	0	20
		25	0	22.80	22.78	22.40	2	23	20.00	20.00	19.76	0	20
		25	12	22.74	22.73	22.46	2	23	20.00	20.00	19.79	0	20
	64QAM	25	25	22.69	22.71	22.59	2	23	20.00	20.00	19.74	0	20
		50	0	22.73	22.74	22.53	2	23	20.00	19.99	19.83	0	20
		1	0	22.87	23.00	22.03	2	23	20.00	20.00	20.00	0	20
		1	25	23.00	23.00	22.06	2	23	20.00	20.00	20.00	0	20
		1	49	23.00	22.89	22.54	2	23	20.00	20.00	20.00	0	20
		25	0	22.00	21.94	21.61	3	22	20.00	20.00	19.73	0	20
		25	12	22.00	21.99	21.70	3	22	20.00	20.00	19.76	0	20
		25	25	22.00	21.95	21.76	3	22	20.00	20.00	19.70	0	20
		50	0	21.98	21.90	21.68	3	22	20.00	20.00	19.81	0	20

LTE Band 25 Measured Results (ANT3) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26065	26365	26665	MPR	Tune-up Limit	26065	26365	26665	MPR	Tune-up Limit
				1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	QPSK	1	0	24.52	24.65	24.01	0	25	20.00	20.00	19.82	0	20
		1	12	24.58	24.48	24.22	0	25	20.00	20.00	19.78	0	20
		1	24	24.55	24.47	24.00	0	25	20.00	20.00	19.85	0	20
		12	0	23.64	23.62	23.32	1	24	20.00	20.00	19.76	0	20
		12	7	23.69	23.61	23.47	1	24	20.00	19.97	19.73	0	20
		12	13	23.72	23.59	23.41	1	24	20.00	19.97	19.72	0	20
		25	0	23.72	23.62	23.48	1	24	20.00	19.99	19.74	0	20
	16QAM	1	0	23.79	24.00	23.36	1	24	20.00	20.00	20.00	0	20
		1	12	23.96	24.00	23.70	1	24	20.00	20.00	20.00	0	20
		1	24	24.00	23.99	23.59	1	24	20.00	20.00	20.00	0	20
		12	0	22.78	22.75	22.58	2	23	20.00	20.00	19.77	0	20
		12	7	22.82	22.78	22.63	2	23	20.00	20.00	19.75	0	20
		12	13	22.86	22.77	22.58	2	23	20.00	20.00	19.74	0	20
		25	0	22.81	22.77	22.69	2	23	20.00	20.00	19.76	0	20
	64QAM	1	0	22.82	23.00	22.24	2	23	20.00	20.00	20.00	0	20
		1	12	22.96	23.00	22.68	2	23	20.00	20.00	20.00	0	20
		1	24	23.00	23.00	22.48	2	23	20.00	20.00	20.00	0	20
		12	0	21.97	22.00	21.79	3	22	20.00	20.00	19.77	0	20
		12	7	22.00	22.00	21.85	3	22	20.00	20.00	19.75	0	20
		12	13	22.00	21.99	21.82	3	22	20.00	20.00	19.73	0	20
		25	0	22.00	21.95	21.82	3	22	20.00	20.00	19.76	0	20
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	24.50	24.81	24.36	0	25	19.99	19.95	19.79	0	20
		1	8	24.70	24.73	24.55	0	25	20.00	19.99	19.83	0	20
		1	14	24.70	24.66	24.25	0	25	20.00	19.95	19.76	0	20
		8	0	23.75	23.77	23.56	1	24	19.98	19.98	19.71	0	20
		8	4	23.77	23.76	23.51	1	24	20.00	19.97	19.67	0	20
		8	7	23.80	23.77	23.51	1	24	20.00	19.97	19.69	0	20
		15	0	23.77	23.75	23.49	1	24	19.99	19.97	19.69	0	20
	16QAM	1	0	23.70	24.00	23.64	1	24	20.00	20.00	20.00	0	20
		1	8	23.82	24.00	23.63	1	24	20.00	20.00	20.00	0	20
		1	14	23.80	24.00	23.59	1	24	20.00	20.00	20.00	0	20
		8	0	22.90	22.91	22.71	2	23	20.00	20.00	19.80	0	20
		8	4	22.92	22.92	22.68	2	23	20.00	20.00	19.74	0	20
		8	7	22.95	22.92	22.66	2	23	20.00	20.00	19.75	0	20
		15	0	22.87	22.89	22.62	2	23	20.00	20.00	19.71	0	20
	64QAM	1	0	22.68	23.00	22.59	2	23	20.00	20.00	19.97	0	20
		1	8	22.70	23.00	22.72	2	23	20.00	20.00	19.99	0	20
		1	14	22.86	23.00	22.53	2	23	20.00	20.00	19.99	0	20
		8	0	21.96	21.99	21.89	3	22	20.00	20.00	19.78	0	20
		8	4	21.98	21.97	21.81	3	22	20.00	20.00	19.73	0	20
		8	7	22.00	21.97	21.83	3	22	20.00	20.00	19.76	0	20
		15	0	21.97	21.96	21.80	3	22	20.00	20.00	19.71	0	20
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	24.63	25.00	24.61	0	25	20.00	20.00	19.98	0	20
		1	3	24.58	24.85	24.52	0	25	20.00	20.00	20.00	0	20
		1	5	24.64	24.77	24.38	0	25	20.00	20.00	20.00	0	20
		3	0	24.62	24.72	24.40	0	25	20.00	20.00	20.00	0	20
		3	1	24.63	24.68	24.46	0	25	20.00	20.00	20.00	0	20
		3	3	24.57	24.69	24.41	0	25	20.00	20.00	20.00	0	20
		6	0	23.78	23.79	23.56	1	24	20.00	20.00	20.00	0	20
	16QAM	1	0	23.86	24.00	23.93	1	24	20.00	20.00	20.00	0	20
		1	3	23.82	24.00	23.76	1	24	20.00	20.00	20.00	0	20
		1	5	23.92	24.00	23.64	1	24	20.00	20.00	20.00	0	20
		3	0	23.74	23.95	23.64	1	24	20.00	20.00	20.00	0	20
		3	1	23.72	23.93	23.57	1	24	20.00	20.00	20.00	0	20
		3	3	23.70	23.92	23.56	1	24	20.00	20.00	20.00	0	20
		6	0	22.96	22.95	22.78	2	23	20.00	20.00	20.00	0	20
	64QAM	1	0	22.68	23.00	22.72	2	23	20.00	20.00	20.00	0	20
		1	3	22.75	23.00	22.73	2	23	20.00	20.00	20.00	0	20
		1	5	22.76	23.00	22.61	2	23	20.00	20.00	20.00	0	20
		3	0	22.61	22.98	22.64	2	23	20.00	20.00	20.00	0	20
		3	1	22.63	22.96	22.64	2	23	20.00	20.00	20.00	0	20
		3	3	22.62	22.96	22.60	2	23	20.00	20.00	20.00	0	20
		6	0	21.99	22.00	21.83	3	22	20.00	20.00	19.89	0	20

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	21.20	21.20	21.14	0	21.2	20.90	20.99	20.87	0	21
		1	49	21.20	21.20	21.14	0	21.2	21.00	21.00	20.90	0	21
		1	99	21.18	21.12	21.14	0	21.2	20.82	20.71	20.82	0	21
		50	0	21.20	21.20	21.18	0	21.2	20.90	20.94	20.80	0	21
		50	24	21.20	21.20	21.20	0	21.2	20.91	21.00	20.90	0	21
		50	50	21.10	21.10	20.98	0	21.2	20.76	20.64	20.59	0	21
	16QAM	100	0	21.20	21.20	21.15	0	21.2	20.94	20.82	20.80	0	21
		1	0	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		1	49	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		1	99	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		50	0	20.80	20.90	20.70	0.2	21	21.00	21.00	20.95	0	21
		50	24	20.81	20.79	20.63	0.2	21	21.00	20.96	20.87	0	21
	64QAM	50	50	20.69	20.65	20.50	0.2	21	20.90	20.79	20.72	0	21
		100	0	20.84	20.78	20.72	0.2	21	21.00	20.98	20.94	0	21
		1	0	20.88	20.83	20.54	0.2	21	20.86	20.55	20.78	0	21
		1	49	20.75	20.64	20.43	0.2	21	20.68	20.37	20.60	0	21
		1	99	20.75	20.77	20.59	0.2	21	20.70	20.46	20.85	0	21
		50	0	19.52	19.36	19.44	1.2	20	19.54	19.36	19.52	1	20
		50	24	19.40	19.31	19.31	1.2	20	19.44	19.34	19.36	1	20
		50	50	19.30	19.27	19.36	1.2	20	19.34	19.33	19.39	1	20
		100	0	19.42	19.33	19.40	1.2	20	19.48	19.36	19.46	1	20
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	21.20	21.20	21.20	0	21.2	20.87	21.00	21.00	0	21
		1	37	21.20	21.20	21.20	0	21.2	21.00	20.96	20.84	0	21
		1	74	21.20	21.08	21.20	0	21.2	20.85	20.70	20.83	0	21
		36	0	21.20	21.20	21.17	0	21.2	20.92	20.95	20.78	0	21
		36	20	21.20	21.20	21.10	0	21.2	20.93	20.88	20.74	0	21
		36	39	21.20	21.07	20.97	0	21.2	20.90	20.71	20.59	0	21
		75	0	21.20	21.20	21.12	0	21.2	20.93	20.87	20.71	0	21
	16QAM	1	0	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		1	37	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		1	74	21.20	21.20	21.20	0	21.2	21.00	20.94	21.00	0	21
		36	0	20.85	20.88	20.68	0.2	21	20.03	20.07	20.00	0	21
		36	20	20.87	20.78	20.64	0.2	21	21.00	21.00	20.82	0	21
	64QAM	36	39	20.88	20.64	20.56	0.2	21	21.00	20.86	20.68	0	21
		75	0	20.82	20.77	20.69	0.2	21	21.00	20.96	20.85	0	21
		1	0	20.73	20.67	20.87	0.2	21	20.68	20.69	20.71	0	21
		1	37	20.67	20.52	20.56	0.2	21	20.64	20.56	20.45	0	21
		1	74	20.51	20.55	20.74	0.2	21	20.47	20.59	20.63	0	21
		36	0	19.57	19.40	19.36	1.2	20	19.59	19.40	19.40	1	20
		36	20	19.50	19.36	19.31	1.2	20	19.53	19.37	19.35	1	20
		36	39	19.44	19.35	19.32	1.2	20	19.47	19.36	19.37	1	20
		75	0	19.47	19.33	19.37	1.2	20	19.49	19.34	19.41	1	20
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	21.20	21.20	21.20	0	21.2	20.91	21.00	21.00	0	21
		1	25	21.20	21.20	21.15	0	21.2	21.00	21.00	20.81	0	21
		1	49	21.20	21.20	21.20	0	21.2	21.00	20.89	20.87	0	21
		25	0	21.20	21.20	21.15	0	21.2	20.93	20.95	20.76	0	21
		25	12	21.20	21.20	21.07	0	21.2	20.97	20.89	20.64	0	21
		25	25	21.20	21.20	21.10	0	21.2	21.00	20.83	20.67	0	21
	16QAM	50	0	21.20	21.20	21.13	0	21.2	20.95	20.89	20.69	0	21
		1	0	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		1	25	21.20	21.20	21.20	0	21.2	21.00	21.00	20.98	0	21
		1	49	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		25	0	20.87	20.93	20.74	0.2	21	21.00	21.00	20.82	0	21
		25	12	20.96	20.90	20.64	0.2	21	21.00	21.00	20.72	0	21
	64QAM	25	25	21.00	20.85	20.66	0.2	21	21.00	20.97	20.75	0	21
		50	0	20.90	20.89	20.64	0.2	21	21.00	21.00	20.76	0	21
		1	0	20.80	20.65	20.62	0.2	21	20.70	20.55	20.53	0	21
		1	25	20.83	20.56	20.63	0.2	21	20.72	20.42	20.50	0	21
		1	49	20.76	20.57	20.80	0.2	21	20.68	20.43	20.65	0	21
		25	0	19.55	19.40	19.32	1.2	20	19.50	19.37	19.29	1	20
		25	12	19.54	19.37	19.34	1.2	20	19.53	19.35	19.30	1	20
		25	25	19.52	19.35	19.43	1.2	20	19.51	19.31	19.40	1	20
		50	0	19.51	19.37	19.39	1.2	20	19.50	19.35	19.35	1	20

LTE Band 25 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26065	26365	26665	MPR	Tune-up Limit	26065	26365	26665	MPR	Tune-up Limit
				1852.5 MHz	1882.5 MHz	1912.5 MHz			1852.5 MHz	1882.5 MHz	1912.5 MHz		
5 MHz	QPSK	1	0	21.20	21.20	21.14	0	21.2	20.96	21.00	20.85	0	21
		1	12	21.20	21.20	21.15	0	21.2	20.99	21.00	20.84	0	21
		1	24	21.20	21.20	21.20	0	21.2	21.00	20.99	20.98	0	21
		12	0	21.20	21.20	21.11	0	21.2	20.85	21.00	20.79	0	21
		12	7	21.20	21.20	21.13	0	21.2	20.91	20.99	20.77	0	21
		12	13	21.20	21.20	21.20	0	21.2	20.93	21.00	20.79	0	21
		25	0	21.20	21.20	21.18	0	21.2	20.92	21.00	20.70	0	21
	16QAM	1	0	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		1	12	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		1	24	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		12	0	20.84	20.99	20.69	0.2	21	20.97	21.00	20.75	0	21
		12	7	20.92	20.92	20.68	0.2	21	21.00	21.00	20.81	0	21
		12	13	20.94	20.93	20.78	0.2	21	21.00	21.00	20.91	0	21
		25	0	20.92	20.90	20.67	0.2	21	21.00	21.00	20.80	0	21
	64QAM	1	0	20.81	20.70	20.76	0.2	21	20.82	20.60	20.64	0	21
		1	12	20.80	20.63	20.88	0.2	21	20.82	20.54	20.73	0	21
		1	24	20.88	20.61	20.92	0.2	21	20.88	20.53	20.74	0	21
		12	0	19.51	19.43	19.40	1.2	20	19.52	19.33	19.48	1	20
		12	7	19.51	19.38	19.46	1.2	20	19.50	19.32	19.51	1	20
		12	13	19.55	19.37	19.44	1.2	20	19.54	19.30	19.51	1	20
		25	0	19.51	19.35	19.46	1.2	20	19.48	19.34	19.47	1	20
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	21.18	21.20	21.19	0	21.2	20.94	21.00	20.85	0	21
		1	8	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		1	14	21.20	21.20	21.20	0	21.2	21.00	21.00	20.95	0	21
		8	0	21.20	21.20	21.15	0	21.2	20.97	21.00	20.80	0	21
		8	4	21.20	21.20	21.20	0	21.2	20.97	21.00	20.86	0	21
		8	7	21.20	21.20	21.20	0	21.2	20.99	21.00	20.88	0	21
		15	0	21.20	21.20	21.20	0	21.2	20.99	21.00	20.88	0	21
	16QAM	1	0	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		1	8	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		1	14	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		8	0	20.83	20.92	20.69	0.2	21	20.07	20.14	20.95	0	21
		8	4	20.81	20.90	20.79	0.2	21	20.06	20.14	21.00	0	21
		8	7	20.82	20.93	20.82	0.2	21	20.07	20.15	21.00	0	21
		15	0	20.80	20.90	20.75	0.2	21	20.04	20.10	20.99	0	21
	64QAM	1	0	20.66	20.54	20.63	0.2	21	20.64	20.40	20.58	0	21
		1	8	20.78	20.64	20.71	0.2	21	20.72	20.52	20.70	0	21
		1	14	20.71	20.51	20.71	0.2	21	20.69	20.44	20.64	0	21
		8	0	19.52	19.43	19.48	1.2	20	19.58	19.39	19.55	1	20
		8	4	19.53	19.42	19.45	1.2	20	19.59	19.37	19.51	1	20
		8	7	19.56	19.41	19.47	1.2	20	19.61	19.37	19.53	1	20
		15	0	19.48	19.36	19.43	1.2	20	19.54	19.35	19.45	1	20
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	21.20	21.20	21.20	0	21.2	20.98	21.00	21.00	0	21
		1	3	21.20	21.20	21.20	0	21.2	20.96	21.00	21.00	0	21
		1	5	21.20	21.20	21.20	0	21.2	21.00	21.00	20.99	0	21
		3	0	21.20	21.20	21.20	0	21.2	20.95	21.00	20.96	0	21
		3	1	21.20	21.20	21.20	0	21.2	20.95	21.00	20.97	0	21
		3	3	21.20	21.20	21.20	0	21.2	21.00	21.00	20.98	0	21
		6	0	21.20	21.20	21.20	0	21.2	21.00	21.00	20.96	0	21
	16QAM	1	0	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		1	3	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		1	5	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		3	0	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		3	1	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		3	3	21.20	21.20	21.20	0	21.2	21.00	21.00	21.00	0	21
		6	0	20.83	21.00	20.89	0.2	21	20.08	20.19	20.04	0	21
	64QAM	1	0	20.80	20.65	20.84	0.2	21	20.62	20.48	20.85	0	21
		1	3	20.75	20.59	20.83	0.2	21	20.61	20.51	20.85	0	21
		1	5	20.76	20.64	20.92	0.2	21	20.68	20.47	20.82	0	21
		3	0	20.55	20.46	20.67	0.2	21	20.53	20.34	20.65	0	21
		3	1	20.56	20.44	20.68	0.2	21	20.53	20.34	20.65	0	21
		3	3	20.57	20.46	20.68	0.2	21	20.53	20.32	20.64	0	21
		6	0	19.54	19.45	19.57	1.2	20	19.54	19.39	19.57	1	20

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	25.08	24.96	24.87	0	25.5	25.08	24.96	24.87	0	25.5
		1	24	24.83	25.00	24.81	0	25.5	24.83	25.00	24.81	0	25.5
		1	49	24.90	24.78	24.80	0	25.5	24.90	24.78	24.80	0	25.5
		25	0	23.85	23.84	23.75	1	24.5	23.85	23.84	23.75	1	24.5
		25	12	23.84	23.90	23.72	1	24.5	23.84	23.90	23.72	1	24.5
		25	25	23.92	23.77	23.83	1	24.5	23.92	23.77	23.83	1	24.5
	16QAM	50	0	23.94	23.81	23.82	1	24.5	23.94	23.81	23.82	1	24.5
		1	0	24.43	24.22	24.20	1	24.5	24.43	24.22	24.20	1	24.5
		1	25	24.16	24.16	24.20	1	24.5	24.16	24.16	24.20	1	24.5
		1	49	24.32	24.08	24.20	1	24.5	24.32	24.08	24.20	1	24.5
		25	0	22.94	22.98	22.85	2	23.5	22.94	22.98	22.85	2	23.5
		25	12	22.99	22.96	22.87	2	23.5	22.99	22.96	22.87	2	23.5
	64QAM	25	25	23.06	22.96	22.97	2	23.5	23.06	22.96	22.97	2	23.5
		50	0	23.06	22.96	22.90	2	23.5	23.06	22.96	22.90	2	23.5
		1	0	23.43	23.28	23.20	2	23.5	23.43	23.28	23.20	2	23.5
		1	25	23.25	23.20	23.16	2	23.5	23.25	23.20	23.16	2	23.5
		1	49	23.36	23.16	23.22	2	23.5	23.36	23.16	23.22	2	23.5
		25	0	22.09	22.10	22.00	3	22.5	22.09	22.10	22.00	3	22.5
5 MHz	QPSK	25	12	22.10	22.06	21.96	3	22.5	22.10	22.06	21.96	3	22.5
		25	25	22.17	22.03	22.07	3	22.5	22.17	22.03	22.07	3	22.5
		50	0	22.15	22.08	22.05	3	22.5	22.15	22.08	22.05	3.0	22.5
	16QAM	1	0	26715	26865	27015	MPR	Tune-up Limit	26715	26865	27015	MPR	Tune-up Limit
		1	0	816.5 MHz	831.5 MHz	846.5 MHz			816.5 MHz	831.5 MHz	846.5 MHz		
		1	0	25.08	24.97	24.92	0	25.5	25.08	24.97	24.92	0	25.5
		1	12	24.81	24.83	24.92	0	25.5	24.81	24.83	24.92	0	25.5
		1	24	24.83	24.84	24.79	0	25.5	24.83	24.84	24.79	0	25.5
		12	0	23.88	23.83	23.89	1	24.5	23.88	23.83	23.89	1	24.5
	64QAM	12	7	23.81	23.81	23.85	1	24.5	23.81	23.81	23.85	1	24.5
		12	13	23.82	23.80	23.79	1	24.5	23.82	23.80	23.79	1	24.5
		25	0	23.85	23.84	23.88	1	24.5	23.85	23.84	23.88	1	24.5
		1	0	24.49	24.31	24.29	1	24.5	24.49	24.31	24.29	1	24.5
		1	12	24.27	24.13	24.31	1	24.5	24.27	24.13	24.31	1	24.5
		1	24	24.35	24.20	24.25	1	24.5	24.35	24.20	24.25	1	24.5
3 MHz	QPSK	12	0	23.09	23.00	23.00	2	23.5	23.09	23.00	23.00	2	23.5
		12	7	23.01	23.02	23.02	2	23.5	23.01	23.02	23.02	2	23.5
		12	13	22.99	23.02	22.94	2	23.5	22.99	23.02	22.94	2	23.5
		25	0	22.99	23.02	23.03	2	23.5	22.99	23.02	23.03	2	23.5
		1	0	23.48	23.35	23.43	2	23.5	23.48	23.35	23.43	2	23.5
		1	12	23.26	23.28	23.45	2	23.5	23.26	23.28	23.45	2	23.5
	16QAM	1	24	23.29	23.26	23.34	2	23.5	23.29	23.26	23.34	2	23.5
		12	0	22.06	22.05	22.07	3	22.5	22.06	22.05	22.07	3	22.5
		12	7	22.04	22.04	22.05	3	22.5	22.04	22.04	22.05	3	22.5
		12	13	22.02	22.05	21.99	3	22.5	22.02	22.05	21.99	3	22.5
		25	0	22.07	22.01	22.06	3	22.5	22.07	22.01	22.06	3	22.5
		1	0	26705	26865	27025	MPR	Tune-up Limit	26705	26865	27025	MPR	Tune-up Limit
		1	0	815.5 MHz	831.5 MHz	847.5 MHz			815.5 MHz	831.5 MHz	847.5 MHz		
	QPSK	1	0	25.05	24.93	24.98	0	25.5	25.05	24.93	24.98	0	25.5
		1	8	25.05	24.97	24.90	0	25.5	25.05	24.97	24.90	0	25.5
		1	14	24.85	24.89	24.85	0	25.5	24.85	24.89	24.85	0	25.5
		8	0	23.99	23.94	23.95	1	24.5	23.99	23.94	23.95	1	24.5
		8	4	24.04	23.93	23.87	1	24.5	24.04	23.93	23.87	1	24.5
		8	7	24.05	23.92	23.86	1	24.5	24.05	23.92	23.86	1	24.5
	16QAM	15	0	24.04	23.91	23.87	1	24.5	24.04	23.91	23.87	1	24.5
		1	0	24.47	24.22	24.33	1	24.5	24.47	24.22	24.33	1	24.5
		1	8	24.41	24.19	24.29	1	24.5	24.41	24.19	24.29	1	24.5
		1	14	24.27	24.16	24.22	1	24.5	24.27	24.16	24.22	1	24.5
		8	0	23.19	23.05	23.08	2	23.5	23.19	23.05	23.08	2	23.5
		8	4	23.19	23.03	23.00	2	23.5	23.19	23.03	23.00	2	23.5
	64QAM	8	7	23.20	23.03	22.99	2	23.5	23.20	23.03	22.99	2	23.5
		15	0	23.11	23.01	22.96	2	23.5	23.11	23.01	22.96	2	23.5
		1	0	23.46	23.20	23.38	2	23.5	23.46	23.20	23.38	2	23.5
		1	8	23.50	23.28	23.32	2	23.5	23.50	23.28	23.32	2	23.5
		1	14	23.26	23.25	23.18	2	23.5	23.26	23.25	23.18	2	23.5
		8	0	22.21	22.08	22.14	3	22.5	22.21	22.08	22.14	3	22.5
	64QAM	8	4	22.22	22.06	22.05	3	22.5	22.22	22.06	22.05	3	22.5
		8	7	22.22	22.07	22.06	3	22.5	22.22	22.07	22.06	3	22.5
		15	0	22.16	22.03	21.99	3	22.5	22.16	22.03	21.99	3	22.5

LTE Band 26 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26697	26865	27033	MPR	Tune-up Limit	26697	26865	27033	MPR	Tune-up Limit
				814.7 MHz	831.5 MHz	848.3 MHz			814.7 MHz	831.5 MHz	848.3 MHz		
1.4 MHz	QPSK	1	0	25.12	24.99	25.12	0	25.5	25.12	24.99	25.12	0	25.5
		1	3	25.05	24.95	25.11	0	25.5	25.05	24.95	25.11	0	25.5
		1	5	25.03	24.94	25.04	0	25.5	25.03	24.94	25.04	0	25.5
		3	0	25.06	24.91	24.95	0	25.5	25.06	24.91	24.95	0	25.5
		3	1	25.07	24.90	24.90	0	25.5	25.07	24.90	24.90	0	25.5
		3	3	25.01	24.89	24.90	0	25.5	25.01	24.89	24.90	0	25.5
	16QAM	6	0	24.03	23.93	23.92	1	24.5	24.03	23.93	23.92	1	24.5
		1	0	24.42	24.25	24.32	1	24.5	24.42	24.25	24.32	1	24.5
		1	3	24.38	24.27	24.34	1	24.5	24.38	24.27	24.34	1	24.5
		1	5	24.31	24.24	24.35	1	24.5	24.31	24.24	24.35	1	24.5
		3	0	24.27	24.09	24.12	1	24.5	24.27	24.09	24.12	1	24.5
		3	1	24.24	24.10	24.10	1	24.5	24.24	24.10	24.10	1	24.5
	64QAM	3	3	24.20	24.10	24.08	1	24.5	24.20	24.10	24.08	1	24.5
		6	0	23.18	23.05	22.98	2	23.5	23.18	23.05	22.98	2	23.5
		1	0	23.43	23.32	23.29	2	23.5	23.43	23.32	23.29	2	23.5
		1	3	23.41	23.29	23.41	2	23.5	23.41	23.29	23.41	2	23.5
		1	5	23.47	23.28	23.34	2	23.5	23.47	23.28	23.34	2	23.5
		3	0	23.43	23.15	23.16	2	23.5	23.43	23.15	23.16	2	23.5
	64QAM	3	1	23.39	23.15	23.15	2	23.5	23.39	23.15	23.15	2	23.5
		3	3	23.33	23.17	23.07	2	23.5	23.33	23.17	23.07	2	23.5
		6	0	22.21	22.12	22.04	3	22.5	22.21	22.12	22.04	3	22.5

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	24.17	24.08	24.14	0	24.5	24.17	24.08	24.14	0	24.5	
		1	25	24.50	24.50	24.50	0	24.5	24.50	24.50	24.50	0	24.5	
		1	49	24.12	24.06	24.17	0	24.5	24.12	24.06	24.17	0	24.5	
		25	0	23.08	23.09	23.11	1	23.5	23.08	23.09	23.11	1	23.5	
		25	12	23.50	23.50	23.50	1	23.5	23.50	23.50	23.50	1	23.5	
		25	25	23.17	23.14	23.17	1	23.5	23.17	23.14	23.17	1	23.5	
	16QAM	50	0	23.50	23.50	23.50	1	23.5	23.50	23.50	23.50	1	23.5	
		1	0	23.39	23.40	23.48	1	23.5	23.39	23.40	23.48	1	23.5	
		1	25	23.29	23.42	23.32	1	23.5	23.29	23.42	23.32	1	23.5	
		1	49	23.37	23.39	23.36	1	23.5	23.37	23.39	23.36	1	23.5	
		25	0	22.25	22.25	22.25	2	22.5	22.25	22.25	22.25	2	22.5	
		25	12	22.23	22.28	22.22	2	22.5	22.23	22.28	22.22	2	22.5	
	64QAM	25	25	22.31	22.26	22.30	2	22.5	22.31	22.26	22.30	2	22.5	
		50	0	22.30	22.30	22.27	2	22.5	22.30	22.30	22.27	2	22.5	
		1	0	22.35	22.38	22.46	2	22.5	22.35	22.38	22.46	2	22.5	
		1	25	22.26	22.44	22.46	2	22.5	22.26	22.44	22.46	2	22.5	
		1	49	22.38	22.41	22.49	2	22.5	22.38	22.41	22.49	2	22.5	
		25	0	21.29	21.30	21.25	3	21.5	21.29	21.30	21.25	3	21.5	
		25	12	21.28	21.33	21.22	3	21.5	21.28	21.33	21.22	3	21.5	
		25	25	21.34	21.29	21.30	3	21.5	21.34	21.29	21.30	3	21.5	
		50	0	21.33	21.35	21.28	3	21.5	21.33	21.35	21.28	3.0	21.5	
		BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)				Power Mode B (dBm)				
						26715	26865	27015	MPR	Tune-up Limit	26715	26865	27015	MPR
	816.5 MHz					831.5 MHz	846.5 MHz	816.5 MHz			831.5 MHz	846.5 MHz		
5 MHz	QPSK	1	0	24.37	24.27	24.41	0	24.5	24.37	24.27	24.41	0	24.5	
		1	12	24.26	24.31	24.34	0	24.5	24.26	24.31	24.34	0	24.5	
		1	24	24.28	24.29	24.36	0	24.5	24.28	24.29	24.36	0	24.5	
		12	0	23.35	23.32	23.42	1	23.5	23.35	23.32	23.42	1	23.5	
		12	7	23.33	23.37	23.39	1	23.5	23.33	23.37	23.39	1	23.5	
		12	13	23.33	23.35	23.42	1	23.5	23.33	23.35	23.42	1	23.5	
	16QAM	25	0	23.36	23.39	23.47	1	23.5	23.36	23.39	23.47	1	23.5	
		1	0	23.43	23.22	23.31	1	23.5	23.43	23.22	23.31	1	23.5	
		1	12	23.27	23.23	23.29	1	23.5	23.27	23.23	23.29	1	23.5	
		1	24	23.35	23.24	23.29	1	23.5	23.35	23.24	23.29	1	23.5	
		12	0	22.08	21.94	22.09	2	22.5	22.08	21.94	22.09	2	22.5	
		12	7	21.96	22.01	22.04	2	22.5	21.96	22.01	22.04	2	22.5	
	64QAM	12	13	21.99	22.03	22.01	2	22.5	21.99	22.03	22.01	2	22.5	
		25	0	21.96	22.05	22.04	2	22.5	21.96	22.05	22.04	2	22.5	
		1	0	22.27	22.44	22.31	2	22.5	22.27	22.44	22.31	2	22.5	
		1	12	22.38	22.42	22.31	2	22.5	22.38	22.42	22.31	2	22.5	
		1	24	22.38	22.37	22.28	2	22.5	22.38	22.37	22.28	2	22.5	
		12	0	21.20	21.16	21.26	3	21.5	21.20	21.16	21.26	3	21.5	
		12	7	21.13	21.20	21.22	3	21.5	21.13	21.20	21.22	3	21.5	
		12	13	21.15	21.19	21.22	3	21.5	21.15	21.19	21.22	3	21.5	
		25	0	21.16	21.18	21.23	3	21.5	21.16	21.18	21.23	3	21.5	
		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
	815.5 MHz					831.5 MHz	847.5 MHz	815.5 MHz			831.5 MHz	847.5 MHz		
3 MHz	QPSK	1	0	24.37	24.27	24.46	0	24.5	24.37	24.27	24.46	0	24.5	
		1	8	24.35	24.34	24.39	0	24.5	24.35	24.34	24.39	0	24.5	
		1	14	24.24	24.27	24.33	0	24.5	24.24	24.27	24.33	0	24.5	
		8	0	23.47	23.36	23.39	1	23.5	23.47	23.36	23.39	1	23.5	
		8	4	23.45	23.40	23.44	1	23.5	23.45	23.40	23.44	1	23.5	
		8	7	23.45	23.40	23.45	1	23.5	23.45	23.40	23.45	1	23.5	
	16QAM	15	0	23.46	23.41	23.44	1	23.5	23.46	23.41	23.44	1	23.5	
		1	0	23.29	23.13	23.33	1	23.5	23.29	23.13	23.33	1	23.5	
		1	8	23.35	23.15	23.29	1	23.5	23.35	23.15	23.29	1	23.5	
		1	14	23.21	23.17	23.22	1	23.5	23.21	23.17	23.22	1	23.5	
		8	0	22.06	21.93	22.04	2	22.5	22.06	21.93	22.04	2	22.5	
		8	4	22.13	22.06	22.04	2	22.5	22.13	22.06	22.04	2	22.5	
	64QAM	8	7	22.12	22.09	22.03	2	22.5	22.12	22.09	22.03	2	22.5	
		15	0	22.06	22.04	22.03	2	22.5	22.06	22.04	22.03	2	22.5	
		1	0	22.44	22.31	22.40	2	22.5	22.44	22.31	22.40	2	22.5	
		1	8	22.45	22.41	22.41	2	22.5	22.45	22.41	22.41	2	22.5	
		1	14	22.34	22.40	22.38	2	22.5	22.34	22.40	22.38	2	22.5	
		8	0	21.31	21.16	21.29	3	21.5	21.31	21.16	21.29	3	21.5	
		8	4	21.31	21.22	21.26	3	21.5	21.31	21.22	21.26	3	21.5	
		8	7	21.30	21.22	21.26	3	21.5	21.30	21.22	21.26	3	21.5	
		15	0	21.24	21.19	21.20	3	21.5	21.24	21.19	21.20	3	21.5	

LTE Band 26 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26697	26865	27033	MPR	Tune-up Limit	26697	26865	27033	MPR	Tune-up Limit
				814.7 MHz	831.5 MHz	848.3 MHz			814.7 MHz	831.5 MHz	848.3 MHz		
1.4 MHz	QPSK	1	0	24.42	24.40	24.30	0	24.5	24.42	24.40	24.30	0	24.5
		1	3	24.37	24.29	24.16	0	24.5	24.37	24.29	24.16	0	24.5
		1	5	24.40	24.31	24.47	0	24.5	24.40	24.31	24.47	0	24.5
		3	0	24.36	24.31	24.39	0	24.5	24.36	24.31	24.39	0	24.5
		3	1	24.37	24.32	24.34	0	24.5	24.37	24.32	24.34	0	24.5
		3	3	24.37	24.30	24.33	0	24.5	24.37	24.30	24.33	0	24.5
	16QAM	6	0	23.39	23.42	23.43	1	23.5	23.39	23.42	23.43	1	23.5
		1	0	23.44	23.23	23.42	1	23.5	23.44	23.23	23.42	1	23.5
		1	3	23.44	23.19	23.37	1	23.5	23.44	23.19	23.37	1	23.5
		1	5	23.50	23.27	23.39	1	23.5	23.50	23.27	23.39	1	23.5
		3	0	23.20	23.19	23.25	1	23.5	23.20	23.19	23.25	1	23.5
		3	1	23.21	23.19	23.22	1	23.5	23.21	23.19	23.22	1	23.5
	64QAM	3	3	23.21	23.17	23.21	1	23.5	23.21	23.17	23.21	1	23.5
		6	0	22.14	22.19	22.21	2	22.5	22.14	22.19	22.21	2	22.5
		1	0	22.18	22.27	22.49	2	22.5	22.18	22.27	22.49	2	22.5
		1	3	22.10	22.14	22.41	2	22.5	22.10	22.14	22.41	2	22.5
		1	5	22.18	22.11	22.32	2	22.5	22.18	22.11	22.32	2	22.5
		3	0	22.47	22.39	22.18	2	22.5	22.47	22.39	22.18	2	22.5
	64QAM	3	1	22.46	22.40	22.17	2	22.5	22.46	22.40	22.17	2	22.5
		3	3	22.46	22.40	22.12	2	22.5	22.46	22.40	22.12	2	22.5
		6	0	21.41	21.40	21.45	3	21.5	21.41	21.40	21.45	3	21.5

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		23.50		0	23.5		20.06		0	20.2	
		1	24		23.50		0	23.5		20.10		0	20.2	
		1	49		23.50		0	23.5		20.10		0	20.2	
		25	0		23.50		0	23.5		19.96		0	20.2	
		25	12		23.50		0	23.5		20.10		0	20.2	
		25	25		23.50		0	23.5		20.04		0	20.2	
	16QAM	50	0		23.50		0	23.5		20.03		0	20.2	
		1	0		23.50		0	23.5		20.08		0	20.2	
		1	25		23.50		0	23.5		20.16		0	20.2	
		1	49		23.50		0	23.5		19.91		0	20.2	
		25	0		22.91		0	23.5		20.01		0	20.2	
		25	12		22.93		0	23.5		20.07		0	20.2	
	64QAM	25	25		22.94		0	23.5		20.07		0	20.2	
		50	0		22.93		0	23.5		20.07		0	20.2	
		1	0		23.25		0	23.5		19.91		0	20.2	
		1	25		23.26		0	23.5		19.94		0	20.2	
		1	49		23.36		0	23.5		20.00		0	20.2	
		25	0		22.09		1	22.5		19.94		0	20.2	
	25	12		22.16		1	22.5		20.00		0	20.2		
	25	25		22.16		1	22.5		20.01		0	20.2		
	50	0		22.16		1	22.5		20.02		0	20.2		
	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		23.50		0	23.5		19.95		0	20.2	
		1	12		23.50		0	23.5		19.98		0	20.2	
		1	24		23.50		0	23.5		20.00		0	20.2	
		12	0		23.43		0	23.5		19.97		0	20.2	
		12	7		23.43		0	23.5		19.96		0	20.2	
		12	13		23.48		0	23.5		19.96		0	20.2	
	16QAM	25	0		23.44		0	23.5		19.99		0	20.2	
		1	0		23.50		0	23.5		20.14		0	20.2	
		1	12		23.50		0	23.5		20.16		0	20.2	
		1	24		23.50		0	23.5		19.91		0	20.2	
		12	0		22.61		0	23.5		20.07		0	20.2	
		12	7		22.61		0	23.5		20.02		0	20.2	
	64QAM	12	13		22.66		0	23.5		20.03		0	20.2	
		25	0		22.64		0	23.5		20.02		0	20.2	
		1	0		22.94		0	23.5		20.01		0	20.2	
		1	12		22.99		0	23.5		20.05		0	20.2	
		1	24		23.00		0	23.5		20.05		0	20.2	
		12	0		21.70		1	22.5		19.99		0	20.2	
	12	7		21.70		1	22.5		19.99		0	20.2		
	12	13		21.71		1	22.5		19.99		0	20.2		
	25	0		21.71		1	22.5		19.99		0	20.2		

LTE Band 30 Measured Results (ANT2)

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	20.47	0	20.5		20.13	0	20.2	
		1	24	20.50	0	20.5		20.14	0	20.2	
		1	49	20.34	0	20.5		20.06	0	20.2	
		25	0	20.10	0	20.5		20.00	0	20.2	
		25	12	20.40	0	20.5		20.06	0	20.2	
		25	25	20.10	0	20.5		19.99	0	20.2	
	16QAM	50	0	20.30	0	20.5		19.95	0	20.2	
		1	0	20.49	0	20.5		20.02	0	20.2	
		1	25	20.50	0	20.5		20.05	0	20.2	
		1	49	20.40	0	20.5		19.98	0	20.2	
		25	0	20.04	0	20.5		19.69	0	20.2	
		25	12	20.12	0	20.5		19.71	0	20.2	
	64QAM	25	25	20.04	0	20.5		19.74	0	20.2	
		50	0	20.04	0	20.5		19.33	0	20.2	
		1	0	20.33	0	20.5		19.61	0	20.2	
		1	25	20.40	0	20.5		19.70	0	20.2	
		1	49	20.36	0	20.5		19.57	0	20.2	
		25	0	20.45	0	20.5		19.68	0	20.2	
5 MHz	QPSK	25	12	20.01	0.25	20.25		19.73	0	20.2	
		25	25	19.96	0.25	20.25		19.70	0	20.2	
		50	0	19.97	0.25	20.25		19.69	0	20.2	
	16QAM	1	0	20.41	0	20.5		20.06	0	20.2	
		1	12	20.39	0	20.5		20.04	0	20.2	
		1	24	20.37	0	20.5		20.06	0	20.2	
		12	0	20.17	0	20.5		20.02	0	20.2	
		12	7	20.17	0	20.5		19.97	0	20.2	
		12	13	20.10	0	20.5		19.90	0	20.2	
	64QAM	25	0	20.14	0	20.5		19.90	0	20.2	
		1	0	20.40	0	20.5		20.13	0	20.2	
		1	12	20.47	0	20.5		20.10	0	20.2	
		1	24	20.23	0	20.5		20.11	0	20.2	
		12	0	20.46	0	20.5		20.14	0	20.2	
		12	7	20.46	0	20.5		20.13	0	20.2	
	16QAM	12	13	20.41	0	20.5		20.06	0	20.2	
		25	0	20.42	0	20.5		20.05	0	20.2	
	64QAM	1	0	20.38	0	20.5		19.87	0	20.2	
		1	12	20.38	0	20.5		19.86	0	20.2	
		1	24	20.36	0	20.5		19.86	0	20.2	
		12	0	19.80	0	20.5		19.77	0	20.2	
	64QAM	12	7	19.76	0.25	20.25		19.77	0	20.2	
		12	13	19.68	0.25	20.25		19.71	0	20.2	
		25	0	19.70	0.25	20.25		19.70	0	20.2	

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	23.50	0	23.5		19.82	0	20.2	
		1	24	23.50	0	23.5		19.90	0	20.2	
		1	49	23.50	0	23.5		19.82	0	20.2	
		25	0	23.50	0	23.5		19.58	0	20.2	
		25	12	23.50	0	23.5		19.82	0	20.2	
		25	25	23.50	0	23.5		19.60	0	20.2	
	16QAM	50	0	23.50	0	23.5		19.82	0	20.2	
		1	0	23.50	0	23.5		20.19	0	20.2	
		1	25	23.50	0	23.5		20.06	0	20.2	
		1	49	23.50	0	23.5		20.00	0	20.2	
		25	0	22.50	1	22.5		19.63	0	20.2	
		25	12	22.50	1	22.5		19.70	0	20.2	
	64QAM	25	25	22.50	1	22.5		19.65	0	20.2	
		50	0	22.50	1	22.5		19.79	0	20.2	
		1	0	22.50	1	22.5		20.07	0	20.2	
		1	25	22.50	1	22.5		19.93	0	20.2	
		1	49	22.50	1	22.5		20.05	0	20.2	
		25	0	21.50	2	21.5		19.65	0	20.2	
		25	12	21.50	2	21.5		19.73	0	20.2	
		25	25	21.50	2	21.5		19.65	0	20.2	
		50	0	21.50	2	21.5		19.81	0	20.2	
5 MHz		Power Mode A (dBm)									
		Power Mode B (dBm)									
	QPSK	1	0	23.50	0	23.5		19.20	0	20.2	
		1	12	23.50	0	23.5		19.20	0	20.2	
		1	24	23.50	0	23.5		19.20	0	20.2	
		12	0	23.50	0	23.5		19.20	0	20.2	
		12	7	23.50	0	23.5		19.20	0	20.2	
		12	13	23.50	0	23.5		19.20	0	20.2	
	16QAM	25	0	23.50	0	23.5		19.20	0	20.2	
		1	0	23.50	0	23.5		19.44	0	20.2	
		1	12	23.50	0	23.5		19.56	0	20.2	
		1	24	23.50	0	23.5		19.40	0	20.2	
		12	0	22.50	1	22.5		19.20	0	20.2	
		12	7	22.50	1	22.5		19.20	0	20.2	
	64QAM	12	13	22.50	1	22.5		19.20	0	20.2	
		25	0	22.50	1	22.5		19.20	0	20.2	
		1	0	22.50	1	22.5		19.30	0	20.2	
		1	12	22.50	1	22.5		19.40	0	20.2	
		1	24	22.50	1	22.5		19.20	0	20.2	
		12	0	21.50	2	21.5		19.20	0	20.2	
		12	7	21.50	2	21.5		19.20	0	20.2	
		12	13	21.50	2	21.5		19.20	0	20.2	
		25	0	21.50	2	21.5		19.20	0	20.2	

LTE Band 30 Measured Results (ANT4)

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		19.36		0	19.5		19.80		0	20	
		1	24		19.50		0	19.5		19.85		0	20	
		1	49		19.41		0	19.5		19.80		0	20	
		25	0		19.22		0	19.5		19.72		0	20	
		25	12		19.50		0	19.5		19.78		0	20	
		25	25		19.34		0	19.5		19.70		0	20	
	16QAM	50	0		19.23		0	19.5		19.73		0	20	
		1	0		19.50		0	19.5		19.78		0	20	
		1	25		19.50		0	19.5		19.70		0	20	
		1	49		19.50		0	19.5		19.73		0	20	
		25	0		19.28		0	19.5		19.78		0	20	
		25	12		19.34		0	19.5		19.84		0	20	
	64QAM	25	25		19.40		0	19.5		19.90		0	20	
		50	0		19.27		0	19.5		19.77		0	20	
		1	0		19.50		0	19.5		19.78		0	20	
		1	25		19.50		0	19.5		19.70		0	20	
		1	49		19.50		0	19.5		19.73		0	20	
		25	0		19.02		0	19.5		19.52		0	20	
	25	12		19.06		0	19.5		19.56		0	20		
	25	25		19.13		0	19.5		19.63		0	20		
	50	0		19.01		0	19.5		19.51		0	20		
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		19.25		0	19.5		19.75		0	20	
		1	12		19.22		0	19.5		19.72		0	20	
		1	24		19.24		0	19.5		19.74		0	20	
		12	0		19.27		0	19.5		19.77		0	20	
		12	7		19.26		0	19.5		19.76		0	20	
		12	13		19.18		0	19.5		19.68		0	20	
	16QAM	25	0		19.19		0	19.5		19.69		0	20	
		1	0		19.50		0	19.5		19.78		0	20	
		1	12		19.50		0	19.5		19.70		0	20	
		1	24		19.50		0	19.5		19.73		0	20	
		12	0		19.30		0	19.5		19.80		0	20	
		12	7		19.30		0	19.5		19.80		0	20	
	64QAM	12	13		19.22		0	19.5		19.72		0	20	
		25	0		19.25		0	19.5		19.75		0	20	
		1	0		19.50		0	19.5		19.78		0	20	
		1	12		19.50		0	19.5		19.70		0	20	
		1	24		19.50		0	19.5		19.73		0	20	
		12	0		19.10		0	19.5		19.60		0	20	
	12	7		19.07		0	19.5		19.57		0	20		
	12	13		19.00		0	19.5		19.50		0	20		
	25	0		19.01		0	19.5		19.51		0	20		

LTE Band 41 Power Class 3 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	24.63	24.61	24.67	24.50	24.50	0	25.5	23.28	23.28	23.19	23.06	23.32	0	23.5
		1	49	24.72	24.63	24.70	24.60	24.65	0	25.5	23.30	23.20	23.20	23.10	23.40	0	23.5
		1	99	24.50	24.53	24.57	24.50	24.50	0	25.5	23.07	23.00	23.07	22.87	23.26	0	23.5
		50	0	23.50	23.57	23.55	23.50	23.50	1	24.5	23.13	23.03	23.10	22.93	23.16	0	23.5
		50	24	23.53	23.68	23.57	23.52	23.53	1	24.5	23.22	23.10	23.15	23.00	23.30	0	23.5
		50	50	23.50	23.60	23.56	23.50	23.50	1	24.5	23.00	22.97	23.02	22.84	23.22	0	23.5
	16QAM	100	0	23.50	23.62	23.58	23.60	23.50	1	24.5	23.07	23.00	23.08	22.90	23.20	0	23.5
		1	0	23.71	23.90	23.76	23.64	23.51	1	24.5	23.45	23.25	23.34	23.27	23.40	0	23.5
		1	49	23.50	23.88	23.70	23.52	23.50	1	24.5	23.29	23.17	23.22	23.12	23.34	0	23.5
		1	99	23.59	23.96	23.79	23.55	23.50	1	24.5	23.28	23.15	23.13	23.01	23.34	0	23.5
		50	0	22.59	22.72	22.67	22.52	22.50	2	23.5	22.89	22.77	22.85	22.68	22.50	0	23.5
		50	24	22.50	22.71	22.63	22.50	22.50	2	23.5	22.77	22.74	22.81	22.63	22.50	0	23.5
	64QAM	50	50	22.53	22.71	22.61	22.50	22.50	2	23.5	22.75	22.71	22.78	22.59	22.50	0	23.5
		100	0	22.51	22.73	22.64	22.51	22.50	2	23.5	22.80	22.75	22.84	22.66	22.50	0	23.5
		1	0	22.93	22.96	22.84	22.83	22.71	2	23.5	22.96	23.01	22.96	22.87	22.70	0	23.5
		1	49	22.70	22.92	22.81	22.76	22.62	2	23.5	22.74	23.00	22.92	22.76	22.61	0	23.5
		1	99	22.83	23.04	22.92	22.73	22.69	2	23.5	22.83	23.05	22.96	22.73	22.73	0	23.5
		50	0	21.67	21.71	21.77	21.63	21.50	3	22.5	21.66	21.75	21.77	21.66	21.50	1	22.5
15 MHz	QPSK	50	24	21.56	21.72	21.73	21.60	21.50	3	22.5	21.55	21.75	21.74	21.63	21.50	1	22.5
		50	50	21.63	21.73	21.73	21.60	21.50	3	22.5	21.60	21.77	21.73	21.62	21.50	1	22.5
		100	0	21.57	21.72	21.76	21.62	21.50	3	22.5	21.56	21.75	21.77	21.64	21.50	1	22.5
	16QAM	1	0	24.50	24.60	24.60	24.50	24.50	0	25.5	23.25	23.10	23.17	23.05	23.27	0	23.5
		1	37	24.50	24.61	24.55	24.50	24.50	0	25.5	23.11	23.07	23.13	22.95	23.27	0	23.5
		1	74	24.50	24.59	24.51	24.50	24.50	0	25.5	23.05	23.00	23.04	22.85	23.33	0	23.5
		36	0	23.50	23.60	23.56	23.50	23.50	1	24.5	23.14	23.01	23.07	22.89	23.23	0	23.5
		36	20	23.50	23.61	23.56	23.50	23.50	1	24.5	23.05	23.01	23.06	22.88	23.17	0	23.5
		36	39	23.50	23.61	23.53	23.50	23.50	1	24.5	23.01	22.98	23.02	22.84	23.19	0	23.5
	64QAM	75	0	23.50	23.63	23.56	23.50	23.50	1	24.5	23.07	23.02	23.06	22.88	23.17	0	23.5
		1	0	23.69	23.62	23.69	23.56	23.50	1	24.5	23.25	23.16	23.21	23.01	23.29	0	23.5
		1	37	23.52	23.60	23.66	23.52	23.50	1	24.5	23.11	23.11	23.17	22.93	23.28	0	23.5
		1	74	23.56	23.66	23.64	23.50	23.50	1	24.5	23.06	23.07	23.13	22.86	23.35	0	23.5
		36	0	22.55	22.67	22.62	22.52	22.50	2	23.5	22.86	22.78	22.83	22.65	22.50	0	23.5
		36	20	22.52	22.69	22.61	22.52	22.50	2	23.5	22.77	22.80	22.82	22.62	22.50	0	23.5
10 MHz	QPSK	36	39	22.53	22.68	22.60	22.50	22.50	2	23.5	22.74	22.77	22.77	22.59	22.50	0	23.5
		75	0	22.53	22.69	22.62	22.52	22.50	2	23.5	22.78	22.80	22.82	22.62	22.50	0	23.5
	16QAM	1	0	22.85	22.79	22.96	22.70	22.50	2	23.5	22.85	22.81	23.03	22.75	22.50	0	23.5
		1	37	22.69	22.77	22.97	22.62	22.51	2	23.5	22.72	22.83	23.00	22.70	22.53	0	23.5
		1	74	22.76	22.82	22.88	22.65	22.50	2	23.5	22.79	22.82	22.98	22.69	22.52	0	23.5
		36	0	21.55	21.70	21.71	21.52	21.50	3	22.5	21.57	21.72	21.73	21.60	21.50	1	22.5
	64QAM	36	20	21.54	21.72	21.71	21.54	21.50	3	22.5	21.56	21.75	21.72	21.59	21.50	1	22.5
		36	39	21.59	21.72	21.70	21.51	21.50	3	22.5	21.61	21.74	21.71	21.58	21.50	1	22.5
		75	0	21.53	21.69	21.71	21.53	21.50	3	22.5	21.57	21.74	21.72	21.59	21.50	1	22.5
	16QAM	1	0	23.76	23.68	23.75	23.64	23.50	1	24.5	23.27	23.26	23.39	23.20	23.41	0	23.5
		1	25	23.60	23.70	23.69	23.63	23.50	1	24.5	23.28	23.18	23.35	23.21	23.28	0	23.5
		1	49	23.72	23.73	23.73	23.64	23.50	1	24.5	23.35	23.19	23.38	23.17	23.27	0	23.5
		25	0	22.51	22.70	22.67	22.55	22.50	2	23.5	22.50	22.73	22.90	22.79	22.82	0	23.5
		25	12	22.50	22.71	22.69	22.53	22.50	2	23.5	22.50	22.68	22.87	22.77	22.84	0	23.5
		25	25	22.50	22.71	22.68	22.54	22.50	2	23.5	22.50	22.68	22.86	22.76	22.84	0	23.5
10 MHz	64QAM	50	0	22.52	22.73	22.70	22.54	22.50	2	23.5	22.50	22.71	22.87	22.79	22.86	0	23.5
		1	0	22.87	22.80	22.92	22.78	22.55	2	23.5	22.85	22.85	23.00	22.76	22.50	0	23.5
		1	25	22.78	22.83	22.85	22.73	22.50	2	23.5	22.72	22.82	23.02	22.68	22.50	0	23.5
		1	49	22.85	22.84	22.87	22.70	22.57	2	23.5	22.83	22.88	23.01	22.74	22.55	0	23.5
		25	0	21.56	21.72	21.73	21.58	21.50	3	22.5	21.58	21.75	21.73	21.60	21.50	1	22.5
		25	12	21.53	21.75	21.74	21.60	21.50	3	22.5	21.55	21.75	21.70	21.59	21.50	1	22.5
	QPSK	25	25	21.54	21.76	21.76	21.60	21.50	3	22.5	21.55	21.76	21.71	21.59	21.50	1	22.5
		50	0	21.55	21.75	21.77	21.62	21.50	3	22.5	21.57	21.76	21.74	21.59	21.50	1	22.5

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	MPR	Tune-up Limit	39750	40185	40620	41055	41490
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz
5 MHz	QPSK	1	0	24.73	24.84	24.76	24.63	24.50	0	25.5	23.27	23.07	23.28	23.19	23.24
		1	12	24.61	24.81	24.72	24.58	24.50	0	25.5	23.22	23.02	23.24	23.15	23.19
		1	24	24.63	24.84	24.75	24.56	24.50	0	25.5	23.24	23.04	23.26	23.17	23.22
		12	0	23.57	23.73	23.70	23.54	23.50	1	24.5	23.16	23.00	23.18	23.09	23.15
		12	7	23.55	23.72	23.68	23.53	23.50	1	24.5	23.15	22.97	23.17	23.08	23.14
		12	13	23.55	23.71	23.68	23.53	23.50	1	24.5	23.14	22.96	23.17	23.08	23.14
		25	0	23.58	23.72	23.69	23.54	23.50	1	24.5	23.17	22.99	23.20	23.11	23.15
	16QAM	1	0	23.76	24.02	23.82	23.67	23.58	1	24.5	23.47	23.20	23.31	23.39	23.40
		1	12	23.74	23.95	23.79	23.64	23.64	1	24.5	23.44	23.13	23.29	23.34	23.32
		1	24	23.69	24.00	23.82	23.69	23.62	1	24.5	23.46	23.20	23.35	23.39	23.30
		12	0	22.57	22.75	22.68	22.59	22.50	2	23.5	22.50	22.65	22.92	22.78	22.85
		12	7	22.57	22.72	22.68	22.56	22.50	2	23.5	22.50	22.64	22.85	22.76	22.80
		12	13	22.59	22.75	22.67	22.56	22.50	2	23.5	22.50	22.64	22.84	22.75	22.79
		25	0	22.58	22.73	22.67	22.56	22.50	2	23.5	22.50	22.65	22.85	22.77	22.82
	64QAM	1	0	22.87	22.85	23.00	22.84	22.57	2	23.5	22.84	22.85	23.04	22.76	22.50
		1	12	22.83	22.88	23.02	22.78	22.63	2	23.5	22.81	22.84	23.01	22.69	22.52
		1	24	22.85	22.87	22.95	22.86	22.55	2	23.5	22.82	22.85	23.05	22.73	22.52
		12	0	21.57	21.72	21.74	21.55	21.50	3	22.5	21.62	21.67	21.67	21.59	21.50
		12	7	21.56	21.68	21.73	21.55	21.50	3	22.5	21.61	21.75	21.66	21.56	21.50
		12	13	21.54	21.70	21.74	21.55	21.50	3	22.5	21.57	21.75	21.66	21.56	21.50
		25	0	21.58	21.72	21.69	21.56	21.50	3	22.5	21.54	21.76	21.68	21.54	21.50

LTE Band 41 Power Class 3 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	21.97	21.93	22.00	22.00	22.00	0	22	22.17	22.13	22.13	22.18	22.18	0	22.2
		1	49	22.00	22.00	22.00	22.00	22.00	0	22	22.20	22.20	22.00	22.20	22.20	0	22.2
		1	99	21.70	21.93	21.93	21.85	21.82	0	22	21.90	22.13	21.90	22.05	22.02	0	22.2
		50	0	21.38	21.48	21.55	21.55	21.49	0	22	21.38	21.48	21.55	21.55	21.49	0	22.2
		50	24	21.50	21.60	21.60	21.60	21.60	0	22	22.00	22.00	21.60	22.00	22.00	0	22.2
		50	50	21.23	21.45	21.50	21.51	21.46	0	22	21.23	21.45	21.50	21.51	21.46	0	22.2
		100	0	21.31	21.47	21.54	21.54	21.48	0	22	21.31	21.47	21.54	21.54	21.48	0	22.2
	16QAM	1	0	21.66	21.72	21.79	21.88	21.83	0	22	21.66	21.72	21.79	21.88	21.83	0	22.2
		1	49	21.47	21.77	21.36	21.69	21.75	0	22	21.47	21.77	21.36	21.69	21.75	0	22.2
		1	99	21.46	21.71	21.67	21.72	21.79	0	22	21.46	21.71	21.67	21.72	21.79	0	22.2
		50	0	21.05	21.17	21.19	21.20	21.14	0.8	21.3	21.05	21.17	21.19	21.20	21.14	1.0	21.3
		50	24	20.94	21.16	21.14	21.13	21.09	0.8	21.3	20.94	21.16	21.14	21.13	21.09	1.0	21.3
		50	50	20.91	21.16	21.14	21.12	21.08	0.8	21.3	20.91	21.16	21.14	21.12	21.08	1.0	21.3
		100	0	20.97	21.18	21.17	21.15	21.11	0.8	21.3	20.97	21.18	21.17	21.15	21.11	1.0	21.3
	64QAM	1	0	21.07	21.16	21.14	21.15	21.11	0.8	21.3	21.07	21.16	21.14	21.15	21.11	1.0	21.3
		1	49	21.17	21.10	21.05	21.19	21.01	0.8	21.3	21.17	21.10	21.05	21.19	21.01	1.0	21.3
		1	99	21.20	21.13	21.08	21.15	21.08	0.8	21.3	21.20	21.13	21.08	21.15	21.08	1.0	21.3
		50	0	20.17	20.15	20.17	20.18	20.14	1.8	20.3	20.17	20.15	20.17	20.18	20.14	2.0	20.3
		50	24	20.06	20.14	20.13	20.10	20.10	1.8	20.3	20.06	20.14	20.13	20.10	20.10	2.0	20.3
		50	50	20.03	20.15	20.12	20.09	20.07	1.8	20.3	20.03	20.15	20.12	20.09	20.07	2.0	20.3
		100	0	20.03	20.17	20.15	20.10	20.11	1.8	20.3	20.03	20.17	20.15	20.10	20.11	2.0	20.3
15 MHz	QPSK	1	0	21.78	21.72	21.78	21.78	21.79	0	22	21.78	21.72	21.78	21.78	21.79	0	22.2
		1	37	21.56	21.72	21.67	21.70	21.72	0	22	21.56	21.72	21.67	21.70	21.72	0	22.2
		1	74	21.48	21.69	21.62	21.68	21.61	0	22	21.48	21.69	21.62	21.68	21.61	0	22.2
		36	0	21.38	21.44	21.47	21.57	21.52	0	22	21.38	21.44	21.47	21.57	21.52	0	22.2
		36	20	21.35	21.51	21.51	21.51	21.52	0	22	21.35	21.51	21.51	21.51	21.52	0	22.2
		36	39	21.31	21.51	21.47	21.49	21.48	0	22	21.31	21.51	21.47	21.49	21.48	0	22.2
		75	0	21.35	21.50	21.43	21.51	21.52	0	22	21.35	21.50	21.43	21.51	21.52	0	22.2
	16QAM	1	0	21.60	21.62	21.69	21.71	21.61	0	22	21.60	21.62	21.69	21.71	21.61	0	22.2
		1	37	21.47	21.58	21.68	21.65	21.54	0	22	21.47	21.58	21.68	21.65	21.54	0	22.2
		1	74	21.42	21.58	21.68	21.69	21.52	0	22	21.42	21.58	21.68	21.69	21.52	0	22.2
		36	0	21.11	21.06	21.06	21.07	21.20	0.8	21.3	21.11	21.06	21.06	21.07	21.20	1.0	21.3
		36	20	21.10	21.08	21.25	21.23	21.18	0.8	21.3	21.10	21.08	21.25	21.23	21.18	1.0	21.3
		36	39	21.06	21.05	21.23	21.24	21.16	0.8	21.3	21.06	21.05	21.23	21.24	21.16	1.0	21.3
		75	0	21.10	21.07	21.05	21.22	21.19	0.8	21.3	21.10	21.07	21.05	21.22	21.19	1.0	21.3
	64QAM	1	0	21.09	21.07	21.23	21.14	21.04	0.8	21.3	21.09	21.07	21.23	21.14	21.04	1.0	21.3
		1	37	21.01	21.05	21.23	21.02	21.00	0.8	21.3	21.01	21.05	21.23	21.02	21.00	1.0	21.3
		1	74	20.99	21.06	21.20	20.96	20.97	0.8	21.3	20.99	21.06	21.20	20.96	20.97	1.0	21.3
		36	0	20.17	20.22	20.21	20.21	20.19	1.8	20.3	20.17	20.22	20.21	20.21	20.19	2.0	20.3
		36	20	20.16	20.23	20.21	20.19	20.17	1.8	20.3	20.16	20.23	20.21	20.19	20.17	2.0	20.3
		36	39	20.12	20.23	20.18	20.17	20.14	1.8	20.3	20.12	20.23	20.18	20.17	20.14	2.0	20.3
		75	0	20.14	20.23	20.20	20.17	20.17	1.8	20.3	20.14	20.23	20.20	20.17	20.17	2.0	20.3
10 MHz	QPSK	1	0	21.83	21.85	21.85	21.82	21.81	0	22	21.83	21.85	21.85	21.82	21.81	0	22.2
		1	25	21.64	21.83	21.79	21.76	21.77	0	22	21.64	21.83	21.79	21.76	21.77	0	22.2
		1	49	21.63	21.85	21.81	21.80	21.77	0	22	21.63	21.85	21.81	21.80	21.77	0	22.2
		25	0	21.47	21.56	21.53	21.58	21.53	0	22	21.47	21.56	21.53	21.58	21.53	0	22.2
		25	12	21.45	21.54	21.51	21.49	21.50	0	22	21.45	21.54	21.51	21.49	21.50	0	22.2
		25	25	21.44	21.55	21.52	21.50	21.50	0	22	21.44	21.55	21.52	21.50	21.50	0	22.2
		50	0	21.37	21.55	21.54	21.51	21.52	0	22	21.37	21.55	21.54	21.51	21.52	0	22.2
	16QAM	1	0	21.64	21.59	21.74	21.73	21.56	0	22	21.64	21.59	21.74	21.73	21.56	0	22.2
		1	25	21.52	21.57	21.72	21.63	21.54	0	22	21.52	21.57	21.72	21.63	21.54	0	22.2
		1	49	21.60	21.61	21.73	21.67	21.57	0	22	21.60	21.61	21.73	21.67	21.57	0	22.2
		25	0	21.15	20.95	20.98	20.97	21.20	0.8	21.3	21.15	20.95	20.98	20.97	21.20	1.0	21.3
		25	12	21.13	20.95	20.95	20.92	21.16	0.8	21.3	21.13	20.95	20.95	20.92	21.16	1.0	21.3
		25	25	21.12	20.96	20.97	20.93	21.17	0.8	21.3	21.12	20.96	20.97	20.93	21.17	1.0	21.3
		50	0	21.15	20.97	20.96	20.92	21.19	0.8	21.3	21.15	20.97	20.96	20.92	21.19	1.0	21.3
	64QAM	1	0	21.11	21.06	21.21	21.10	21.02	0.8	21.3	21.11	21.06	21.21	21.10	21.02	1.0	21.3
		1	25	21.00	21.09	21.18	21.02	21.00	0.8	21.3	21.00	21.09	21.18	21.02	21.00	1.0	21.3
		1	49	21.00	21.09	21.23	21.06	21.02	0.8	21.3	21.00	21.09	21.23	21.06	21.02	1.0	21.3
		25	0	20.06	20.13	20.12	20.15	20.08	1.8	20.3	20.06	20.13	20.12	20.15	20.08	2.0	20.3
		25	12	20.03	20.13	20.10	20.08	20.06	1.8	20.3	20.03	20.13	20.10	20.08	20.06	2.0	20.3
		25	25	20.03	20.14	20.11	20.09	20.05	1.8	20.3	20.03	20.14	20.11	20.09	20.05	2.0	20.3
		50	0	20.06	20.13	20.13	20.10	20.07	1.8	20.3	20.06	20.13	20.13	20.10	20.07	2.0	20.3

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

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
5 MHz	QPSK	1	0	21.86	21.96	21.89	21.92	21.88	0	22	21.86	21.96	21.89	21.92	21.88	0	22.2
		1	12	21.80	21.91	21.87	21.84	21.84	0	22	21.80	21.91	21.87	21.84	21.84	0	22.2
		1	24	21.76	21.92	21.90	21.87	21.86	0	22	21.76	21.92	21.90	21.87	21.86	0	22.2
		12	0	21.42	21.52	21.48	21.54	21.49	0	22	21.42	21.52	21.48	21.54	21.49	0	22.2
		12	7	21.39	21.50	21.47	21.46	21.46	0	22	21.39	21.50	21.47	21.46	21.46	0	22.2
		12	13	21.38	21.51	21.47	21.46	21.47	0	22	21.38	21.51	21.47	21.46	21.47	0	22.2
		25	0	21.40	21.52	21.50	21.47	21.48	0	22	21.40	21.52	21.50	21.47	21.48	0	22.2
	16QAM	1	0	21.61	21.73	21.70	21.87	21.77	0	22	21.61	21.73	21.70	21.87	21.77	0	22.2
		1	12	21.60	21.78	21.64	21.62	21.74	0	22	21.60	21.78	21.64	21.62	21.74	0	22.2
		1	24	21.59	21.83	21.66	21.57	21.72	0	22	21.59	21.83	21.66	21.57	21.72	0	22.2
		12	0	20.92	21.06	21.04	21.03	20.97	0.8	21.3	20.92	21.06	21.04	21.03	20.97	1.0	21.3
		12	7	20.89	21.07	21.01	21.01	20.95	0.8	21.3	20.89	21.07	21.01	21.01	20.95	1.0	21.3
		12	13	20.88	21.04	21.00	21.02	20.95	0.8	21.3	20.88	21.04	21.00	21.02	20.95	1.0	21.3
		25	0	20.89	21.04	21.03	21.02	20.96	0.8	21.3	20.89	21.04	21.03	21.02	20.96	1.0	21.3
	64QAM	1	0	21.09	20.99	21.11	21.19	20.94	0.8	21.3	21.09	20.99	21.11	21.19	20.94	1.0	21.3
		1	12	21.03	20.94	21.10	21.06	20.92	0.8	21.3	21.03	20.94	21.10	21.06	20.92	1.0	21.3
		1	24	21.08	20.96	21.10	21.09	20.96	0.8	21.3	21.08	20.96	21.10	21.09	20.96	1.0	21.3
		12	0	20.02	20.12	20.10	20.12	20.10	1.8	20.3	20.02	20.12	20.10	20.12	20.10	2.0	20.3
		12	7	19.99	20.10	20.10	20.05	20.10	1.8	20.3	19.99	20.10	20.10	20.05	20.10	2.0	20.3
		12	13	20.00	20.09	20.10	20.06	20.09	1.8	20.3	20.00	20.09	20.10	20.06	20.09	2.0	20.3
		25	0	20.03	20.11	20.08	20.09	20.11	1.8	20.3	20.03	20.11	20.08	20.09	20.11	2.0	20.3

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	24.50	24.50	24.50	24.50	24.50	0	25.5	23.58	23.68	23.38	23.60	23.60	0	23.7
		1	49	24.50	24.50	24.50	24.50	24.50	0	25.5	23.60	23.70	23.70	23.70	23.70	0	23.7
		1	99	24.50	24.50	24.50	24.50	24.50	0	25.5	23.54	23.55	23.55	23.55	23.54	0	23.7
		50	0	23.50	23.50	23.50	23.50	23.50	1	24.5	23.09	23.50	23.54	23.70	23.50	0	23.7
		50	24	23.50	23.50	23.50	23.50	23.50	1	24.5	23.50	23.70	23.70	23.70	23.70	0	23.7
		50	50	23.50	23.50	23.50	23.50	23.50	1	24.5	23.42	23.40	23.66	23.59	23.40	0	23.7
		100	0	23.50	23.50	23.50	23.50	23.50	1	24.5	23.25	23.42	23.62	23.59	23.42	0	23.7
	16QAM	1	0	23.50	23.50	23.50	23.50	23.50	1	24.5	23.40	23.25	23.40	23.40	23.25	0	23.7
		1	49	23.50	23.50	23.50	23.50	23.50	1	24.5	23.45	23.40	23.42	23.42	23.40	0	23.7
		1	99	23.50	23.50	23.50	23.50	23.50	1	24.5	23.40	23.40	23.25	23.25	23.40	0	23.7
		50	0	22.50	22.82	22.65	22.77	22.90	2	23.5	22.50	22.77	22.61	22.74	22.86	0.2	23.5
		50	24	22.50	22.81	22.70	22.65	22.88	2	23.5	22.50	22.78	22.66	22.63	22.83	0.2	23.5
		50	50	22.65	22.83	22.78	22.68	22.88	2	23.5	22.61	22.81	22.75	22.65	22.82	0.2	23.5
		100	0	22.50	22.83	22.73	22.67	22.90	2	23.5	22.50	22.80	22.69	22.64	22.84	0.2	23.5
	64QAM	1	0	22.84	22.96	22.79	23.21	23.12	2	23.5	22.94	23.07	22.84	23.13	23.21	0.2	23.5
		1	49	22.67	22.98	22.80	22.92	23.06	2	23.5	22.62	23.10	22.84	22.84	23.14	0.2	23.5
		1	99	23.02	23.07	22.99	23.09	23.03	2	23.5	23.00	23.16	23.01	22.98	23.16	0.2	23.5
		50	0	21.50	21.87	21.68	21.86	21.92	3	22.5	22.50	21.81	21.64	21.82	21.91	1.2	22.5
		50	24	21.53	21.88	21.74	21.75	21.90	3	22.5	22.50	21.82	21.71	21.71	21.88	1.2	22.5
		50	50	21.71	21.90	21.83	21.78	21.90	3	22.5	21.65	21.84	21.79	21.75	21.88	1.2	22.5
		100	0	21.50	21.89	21.76	21.76	21.91	3	22.5	21.50	21.82	21.72	21.74	21.88	1.2	22.5
15 MHz	QPSK	1	0	24.50	24.50	24.50	24.50	24.50	0	25.5	23.40	23.40	23.40	23.40	23.40	0	23.7
		1	37	24.50	24.50	24.50	24.50	24.50	0	25.5	23.40	23.40	23.40	23.40	23.40	0	23.7
		1	74	24.50	24.50	24.50	24.50	24.50	0	25.5	23.40	23.40	23.40	23.40	23.40	0	23.7
		36	0	23.50	23.50	23.50	23.50	23.50	1	24.5	23.16	23.40	23.52	23.68	23.70	0	23.7
		36	20	23.50	23.50	23.50	23.50	23.50	1	24.5	23.38	23.40	23.60	23.57	23.70	0	23.7
		36	39	23.50	23.50	23.50	23.50	23.50	1	24.5	23.52	23.40	23.65	23.57	23.70	0	23.7
		75	0	23.50	23.50	23.50	23.50	23.50	1	24.5	23.37	23.40	23.61	23.56	23.70	0	23.7
	16QAM	1	0	23.50	23.50	23.50	23.50	23.50	1	24.5	23.59	23.40	23.67	23.70	23.70	0	23.7
		1	37	23.50	23.50	23.50	23.50	23.50	1	24.5	23.50	23.40	23.70	23.70	23.70	0	23.7
		1	74	23.50	23.50	23.50	23.50	23.50	1	24.5	23.70	23.40	23.70	23.70	23.70	0	23.7
		36	0	22.50	22.80	22.70	22.80	22.82	2	23.5	22.50	22.76	22.56	22.74	22.82	0.2	23.5
		36	20	22.50	22.83	22.73	22.71	22.81	2	23.5	22.50	22.78	22.63	22.69	22.81	0.2	23.5
		36	39	22.60	22.81	22.76	22.70	22.80	2	23.5	22.56	22.78	22.70	22.70	22.79	0.2	23.5
		75	0	22.50	22.83	22.71	22.71	22.82	2	23.5	22.50	22.79	22.66	22.69	22.81	0.2	23.5
	64QAM	1	0	22.61	22.96	22.95	22.96	23.03	2	23.5	22.70	22.87	22.90	22.97	23.05	0.2	23.5
		1	37	22.56	22.94	22.92	22.79	22.99	2	23.5	22.61	22.95	22.96	22.78	22.96	0.2	23.5
		1	74	22.86	22.94	23.01	22.84	23.00	2	23.5	22.85	22.97	23.04	22.87	22.93	0.2	23.5
		36	0	21.50	21.83	21.66	21.86	21.89	3	22.5	21.50	21.79	21.61	21.82	21.88	1.2	22.5
		36	20	21.53	21.87	21.75	21.75	21.92	3	22.5	21.50	21.81	21.68	21.70	21.90	1.2	22.5
		36	39	21.66	21.86	21.82	21.76	21.90	3	22.5	21.57	21.82	21.76	21.70	21.89	1.2	22.5
		75	0	21.50	21.86	21.75	21.73	21.91	3	22.5	21.50	21.80	21.70	21.70	21.88	1.2	22.5
10 MHz	QPSK	1	0	24.50	24.50	24.50	24.50	24.50	0	25.5	23.70	23.70	23.70	23.70	23.70	0	23.7
		1	25	24.50	24.50	24.50	24.50	24.50	0	25.5	23.70	23.70	23.70	23.70	23.70	0	23.7
		1	49	24.50	24.50	24.50	24.50	24.50	0	25.5	23.70	23.70	23.70	23.70	23.70	0	23.7
		25	0	23.50	23.50	23.50	23.50	23.50	1	24.5	23.27	23.70	23.62	23.66	23.70	0	23.7
		25	12	23.50	23.50	23.50	23.50	23.50	1	24.5	23.42	23.70	23.61	23.58	23.70	0	23.7
		25	25	23.50	23.50	23.50	23.50	23.50	1	24.5	23.49	23.70	23.63	23.60	23.70	0	23.7
		50	0	23.50	23.50	23.50	23.50	23.50	1	24.5	23.43	23.70	23.64	23.61	23.70	0	23.7
	16QAM	1	0	23.50	23.50	23.50	23.50	23.50	1	24.5	23.47	23.70	23.70	23.70	23.70	0	23.7
		1	25	23.50	23.50	23.50	23.50	23.50	1	24.5	23.59	23.70	23.70	23.70	23.70	0	23.7
		1	49	23.50	23.50	23.50	23.50	23.50	1	24.5	23.70	23.70	23.70	23.70	23.70	0	23.7
		25	0	22.50	22.86	22.74	22.79	22.86	2	23.5	22.50	22.82	22.73	22.73	22.87	0.2	23.5
		25	12	22.50	22.88	22.71	22.75	22.85	2	23.5	22.50	22.84	22.72	22.72	22.85	0.2	23.5
		25	25	22.58	22.90	22.73	22.77	22.85	2	23.5	22.52	22.87	22.73	22.74	22.86	0.2	23.5
		50	0	22.52	22.88	22.75	22.71	22.87	2	23.5	22.50	22.85	22.73	22.72	22.86	0.2	23.5
	64QAM	1	0	22.50	23.00	22.97	22.91	22.97	2	23.5	22.53	23.02	23.00	23.00	23.03	0.2	23.5
		1	25	22.54	23.03	22.91	22.76	22.96	2	23.5	22.64	23.03	23.01	22.82	22.99	0.2	23.5
		1	49	22.79	23.09	23.06	22.79	22.98	2	23.5	22.84	23.05	23.13	22.90	23.06	0.2	23.5
		25	0	21.50	21.91	21.80	21.79	21.89	3	22.5	21.50	21.87	21.75	21.75	21.89	1.2	22.5
		25	12	21.50	21.92	21.80	21.72	21.88	3	22.5	21.50	21.87	21.74	21.67	21.87	1.2	22.5
		25	25	21.57	21.94	21.82	21.74	21.92	3	22.5	21.57	21.89	21.75	21.69	21.87	1.2	22.5
		50	0	21.50	21.92	21.83	21.73	21.94	3	22.5	21.50	21.88	21.76	21.68	21.89	1.2	22.5

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	MPR	Tune-up Limit	39750	40185	40620	41055	41490
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz
5 MHz	QPSK	1	0	24.50	24.50	24.50	24.50	24.50	0	25.5	23.70	23.70	23.70	23.70	23.70
		1	12	24.50	24.50	24.50	24.50	24.50	0	25.5	23.70	23.70	23.70	23.70	23.70
		1	24	24.50	24.50	24.50	24.50	24.50	0	25.5	23.70	23.70	23.70	23.70	23.70
		12	0	23.50	23.50	23.50	23.50	23.50	1	24.5	23.43	23.70	23.70	23.70	23.70
		12	7	23.50	23.50	23.50	23.50	23.50	1	24.5	23.54	23.70	23.70	23.66	23.70
		12	13	23.50	23.50	23.50	23.50	23.50	1	24.5	23.58	23.70	23.70	23.67	23.70
		25	0	23.50	23.50	23.50	23.50	23.50	1	24.5	23.56	23.70	23.70	23.67	23.70
	16QAM	1	0	23.50	23.50	23.50	23.50	23.50	1	24.5	23.54	23.70	23.70	23.70	23.70
		1	12	23.50	23.50	23.50	23.50	23.50	1	24.5	23.60	23.70	23.70	23.70	23.70
		1	24	23.50	23.50	23.50	23.50	23.50	1	24.5	23.69	23.70	23.70	23.70	23.70
		12	0	22.50	22.87	22.72	22.89	22.93	2	23.5	22.50	22.85	22.72	22.76	22.88
		12	7	22.52	22.85	22.69	22.74	22.96	2	23.5	22.55	22.83	22.70	22.66	22.87
		12	13	22.57	22.86	22.68	22.75	22.94	2	23.5	22.58	22.86	22.71	22.67	22.88
		25	0	22.52	22.86	22.69	22.76	22.96	2	23.5	22.56	22.87	22.71	22.67	22.89
	64QAM	1	0	22.89	22.93	22.74	22.93	23.20	2	23.5	22.56	22.99	23.07	22.93	23.00
		1	12	22.67	22.89	23.02	22.83	23.11	2	23.5	22.67	22.98	22.97	22.80	22.99
		1	24	22.50	22.87	22.96	22.84	23.15	2	23.5	22.81	23.02	23.03	22.88	23.01
		12	0	22.50	22.50	22.50	21.80	21.94	3	22.5	21.50	21.84	21.70	21.71	21.82
		12	7	22.50	22.50	22.50	21.73	21.96	3	22.5	21.50	21.82	21.70	21.64	21.83
		12	13	22.44	22.50	22.50	21.71	21.95	3	22.5	21.54	21.83	21.71	21.65	21.82
		25	0	21.67	21.90	21.76	21.73	21.93	3	22.5	21.50	21.83	21.73	21.62	21.85

LTE Band 41 Power Class 3 Measured Results (ANT4)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)							Power Mode B (dBm)						
				39750	40185	40620	41055	41490	MPR	Tune-up Limit	39750	40185	40620	41055	41490	MPR	Tune-up Limit
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20 MHz	QPSK	1	0	21.56	21.18	21.09	21.34	21.25	0	21.7	22.36	21.88	21.81	22.06	22.03	0	22.5
		1	49	21.60	21.20	21.20	21.40	21.30	0	21.7	22.50	22.50	22.40	22.50	22.50	0	22.5
		1	99	21.23	20.99	20.99	21.22	21.14	0	21.7	22.50	21.66	22.40	22.50	22.50	0	22.5
		50	0	21.22	21.07	20.96	21.22	21.10	0	21.7	21.69	21.63	21.53	21.75	21.62	0	22.5
		50	24	21.28	21.10	21.20	21.30	21.30	0	21.7	21.70	21.80	21.90	21.80	21.70	0	22.5
		50	50	21.23	20.96	20.93	21.09	21.06	0	21.7	21.67	21.50	21.50	21.61	21.58	0	22.5
		100	0	21.22	21.00	21.20	21.13	21.10	0	21.7	21.69	21.52	21.70	21.63	21.60	0	22.5
	16QAM	1	0	21.63	21.46	21.07	21.49	21.31	0	21.7	21.55	21.50	21.50	21.50	21.50	0	22.5
		1	49	21.38	21.26	21.06	21.35	21.29	0	21.7	21.50	21.50	21.50	21.50	21.50	0	22.5
		1	99	21.35	21.13	21.04	21.31	21.30	0	21.7	21.50	21.50	21.50	21.50	21.50	0	22.5
		50	0	21.50	21.66	21.52	21.50	21.58	0	21.7	21.68	21.62	21.60	21.78	21.66	0	22.5
		50	24	21.50	21.61	21.54	21.50	21.66	0	21.7	21.70	21.50	21.60	21.67	21.63	0	22.5
		50	50	21.70	21.58	21.53	21.50	21.66	0	21.7	21.67	21.50	21.60	21.64	21.63	0	22.5
		100	0	21.40	21.62	21.55	21.50	21.69	0	21.7	21.70	21.52	21.60	21.67	21.64	0	22.5
	64QAM	1	0	21.40	21.40	21.59	21.50	21.40	0	21.7	22.11	21.92	21.59	22.28	21.82	0	22.5
		1	49	21.40	21.40	21.51	21.50	21.40	0	21.7	21.80	21.70	21.58	22.07	21.74	0	22.5
		1	99	21.40	21.40	21.61	21.50	21.40	0	21.7	21.86	21.58	21.61	22.02	21.77	0	22.5
		50	0	20.83	20.72	20.53	20.82	20.69	0.2	21.5	20.80	20.64	20.51	20.79	20.70	1	21.5
		50	24	20.88	20.62	20.52	20.72	20.66	0.2	21.5	20.80	20.55	20.50	20.70	20.67	1	21.5
		50	50	20.83	20.60	20.51	20.71	20.66	0.2	21.5	20.78	20.51	20.50	20.68	20.65	1	21.5
		100	0	20.85	20.62	20.53	20.73	20.67	0.2	21.5	20.79	20.56	20.50	20.70	20.66	1	21.5
15 MHz	QPSK	1	0	21.55	21.23	21.12	21.32	21.19	0	21.7	22.21	21.94	21.88	22.19	22.02	0	22.5
		1	37	21.37	21.16	21.11	21.23	21.13	0	21.7	22.12	21.84	21.83	22.05	21.95	0	22.5
		1	74	21.27	21.11	21.07	21.18	21.10	0	21.7	21.98	21.76	21.79	21.99	21.93	0	22.5
		36	0	21.22	21.15	21.05	21.17	21.08	0	21.7	21.50	21.50	21.50	21.50	21.50	0	22.5
		36	20	21.29	21.06	20.99	21.10	21.09	0	21.7	21.50	21.50	21.50	21.50	21.50	0	22.5
		36	39	21.23	21.07	20.97	21.07	21.08	0	21.7	21.50	21.50	21.50	21.50	21.50	0	22.5
		75	0	21.27	21.07	20.99	21.11	21.10	0	21.7	21.50	21.50	21.50	21.50	21.50	0	22.5
	16QAM	1	0	21.43	21.34	21.05	21.34	21.13	0	21.7	21.50	21.50	21.50	21.51	21.50	0	22.5
		1	37	21.35	21.21	21.01	21.27	21.06	0	21.7	21.50	21.50	21.50	21.50	21.50	0	22.5
		1	74	21.23	21.10	21.03	21.22	21.06	0	21.7	21.50	21.50	21.50	21.50	21.50	0	22.5
		36	0	21.70	21.68	21.53	21.50	21.66	0	21.7	21.76	21.62	21.51	21.82	21.65	0	22.5
		36	20	21.40	21.60	21.53	21.50	21.69	0	21.7	21.82	21.54	21.50	21.76	21.64	0	22.5
		36	39	21.40	21.57	21.51	21.40	21.66	0	21.7	21.79	21.51	21.50	21.74	21.61	0	22.5
		75	0	21.40	21.61	21.53	21.40	21.68	0	21.7	21.81	21.53	21.50	21.76	21.64	0	22.5
	64QAM	1	0	21.40	21.50	21.64	21.40	21.50	0	21.7	22.04	21.87	21.63	22.03	21.82	0	22.5
		1	37	21.50	21.50	21.64	21.40	21.67	0	21.7	21.85	21.73	21.51	21.92	21.75	0	22.5
		1	74	21.50	21.63	21.65	21.40	21.65	0	21.7	21.80	21.57	21.56	21.84	21.69	0	22.5
		36	0	20.77	20.68	20.51	20.79	20.67	0.2	21.5	20.75	20.60	20.50	20.77	20.71	1	21.5
		36	20	20.84	20.60	20.51	20.72	20.65	0.2	21.5	20.81	20.55	20.50	20.71	20.70	1	21.5
		36	39	20.79	20.58	20.50	20.70	20.64	0.2	21.5	20.74	20.53	20.50	20.68	20.67	1	21.5
		75	0	20.82	20.58	20.51	20.71	20.65	0.2	21.5	20.78	20.55	20.50	20.69	20.70	1	21.5
10 MHz	QPSK	1	0	21.42	21.29	21.12	21.37	21.27	0	21.7	22.19	21.97	21.84	22.17	21.77	0	22.5
		1	25	21.43	21.17	21.09	21.27	21.22	0	21.7	22.18	21.85	21.80	22.05	21.75	0	22.5
		1	49	21.42	21.18	21.10	21.27	21.25	0	21.7	22.13	21.85	21.82	22.05	21.75	0	22.5
		25	0	21.37	21.19	21.04	21.28	21.19	0	21.7	21.50	21.50	21.50	21.50	21.50	0	22.5
		25	12	21.40	21.09	21.03	21.19	21.16	0	21.7	21.50	21.50	21.50	21.50	21.50	0	22.5
		25	25	21.36	21.09	21.03	21.20	21.15	0	21.7	21.50	21.50	21.50	21.50	21.50	0	22.5
		50	0	21.42	21.11	21.05	21.22	21.14	0	21.7	21.50	21.50	21.50	21.50	21.50	0	22.5
	16QAM	1	0	21.56	21.35	21.11	21.48	21.19	0	21.7	21.50	21.50	21.50	21.53	21.50	0	22.5
		1	25	21.52	21.29	21.09	21.38	21.15	0	21.7	21.52	21.50	21.50	21.50	21.50	0	22.5
		1	49	21.50	21.19	21.13	21.37	21.20	0	21.7	21.50	21.50	21.50	21.50	21.50	0	22.5
		25	0	21.60	21.68	21.51	21.60	21.67	0	21.7	21.79	21.68	21.55	21.84	21.71	0	22.5
		25	12	21.50	21.59	21.50	21.60	21.65	0	21.7	21.81	21.58	21.53	21.75	21.68	0	22.5
		25	25	21.50	21.58	21.51	21.60	21.67	0	21.7	21.80	21.57	21.54	21.75	21.68	0	22.5
		50	0	21.50	21.60	21.52	21.60	21.67	0	21.7	21.84	21.59	21.55	21.75	21.70	0	22.5
	64QAM	1	0	21.50	21.40	21.40	21.60	21.50	0	21.7	21.89	21.95	21.58	22.11	21.89	0	22.5
		1	25	21.60	21.60	21.68	21.50	21.69	0	21.7	21.90	21.76	21.59	22.04	21.81	0	22.5
		1	49	21.60	21.60	21.40	21.50	21.50	0	21.7	21.97	21.75	21.66	22.00	21.89	0	22.5
		25	0	20.79	20.74	20.57	20.80	20.70	0.2	21.5	20.87	20.65	20.54	20.85	20.73	1	21.5
		25	12	20.84	20.66	20.57	20.77	20.71	0.2	21.5	20.89	20.57	20.52	20.77	20.70	1	21.5
		25	25	20.81	20.66	20.58	20.77	20.71	0.2	21.5	20.84	20.56	20.54	20.77	20.71	1	21.5
		50	0	20.83	20.68	20.59	20.80	20.73	0.2	21.5	20.90	20.58	20.54	20.76	20.69	1	21.5

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	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		
5 MHz	QPSK	1	0	21.45	21.29	21.16	21.32	21.22	0	21.7	21.95	21.77	21.62	21.88	21.79	0	22.5
		1	12	21.45	21.20	21.09	21.21	21.20	0	21.7	21.88	21.65	21.61	21.74	21.72	0	22.5
		1	24	21.43	21.20	21.09	21.22	21.22	0	21.7	21.86	21.69	21.63	21.78	21.76	0	22.5
		12	0	21.40	21.15	21.01	21.24	21.14	0	21.7	21.50	21.50	22.50	21.50	21.70	0	22.5
		12	7	21.38	21.06	20.99	21.16	21.13	0	21.7	21.50	21.50	22.48	21.50	21.70	0	22.5
		12	13	21.27	21.06	21.00	21.16	21.13	0	21.7	21.50	21.50	22.48	21.50	21.70	0	22.5
		25	0	21.35	21.08	21.00	21.18	21.14	0	21.7	21.50	21.50	22.49	21.50	21.70	0	22.5
	16QAM	1	0	21.40	21.55	21.10	21.48	21.41	0	21.7	21.50	21.60	21.60	21.60	21.70	0	22.5
		1	12	21.40	21.40	21.05	21.36	21.34	0	21.7	21.50	21.60	21.60	21.60	21.70	0	22.5
		1	24	21.40	21.40	21.08	21.40	21.36	0	21.7	21.60	21.60	21.60	21.60	21.60	0	22.5
		12	0	21.50	21.68	21.53	21.40	21.63	0	21.7	21.83	21.67	21.52	21.79	21.72	0	22.5
		12	7	21.50	21.63	21.54	21.69	21.61	0	21.7	21.80	21.55	21.50	21.69	21.68	0	22.5
		12	13	21.50	21.64	21.57	21.67	21.62	0	21.7	21.77	21.56	21.50	21.67	21.69	0	22.5
		25	0	21.40	21.64	21.55	21.69	21.61	0	21.7	21.82	21.55	21.50	21.70	21.66	0	22.5
	64QAM	1	0	21.40	21.40	21.67	21.40	21.50	0	21.7	21.91	21.96	21.68	22.01	21.84	0	22.5
		1	12	21.40	21.40	21.64	21.40	21.40	0	21.7	21.96	21.78	21.63	21.88	21.75	0	22.5
		1	24	21.40	21.40	21.67	21.50	21.50	0	21.7	21.94	21.81	21.71	21.89	21.85	0	22.5
		12	0	20.83	20.75	20.51	20.82	20.68	0.2	21.5	20.86	20.69	20.54	20.81	20.71	1	21.5
		12	7	20.82	20.67	20.50	20.72	20.67	0.2	21.5	20.85	20.62	20.54	20.75	20.67	1	21.5
		12	13	20.77	20.67	20.51	20.71	20.67	0.2	21.5	20.80	20.64	20.54	20.75	20.68	1	21.5
		25	0	20.86	20.64	20.54	20.74	20.64	0.2	21.5	20.84	20.61	20.53	20.77	20.63	1	21.5

LTE Band 66 Measured Results (ANT1)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Tune-up Limit	132072	132322	132572	MPR	Tune-up Limit
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	25.16	25.15	25.13	0	25.5	18.30	18.36	18.21	0	18.7
		1	49	25.22	25.25	25.14	0	25.5	18.33	18.43	18.36	0	18.7
		1	99	24.99	25.17	25.12	0	25.5	18.18	18.37	18.28	0	18.7
		50	0	24.28	24.34	24.22	1	24.5	18.32	18.34	18.25	0	18.7
		50	24	24.28	24.39	24.45	1	24.5	18.32	18.42	18.56	0	18.7
		50	50	24.25	24.35	24.36	1	24.5	18.20	18.39	18.35	0	18.7
	16QAM	1	0	24.31	24.42	24.34	1	24.5	18.68	18.66	18.62	0	18.7
		1	49	24.21	24.43	24.37	1	24.5	18.55	18.54	18.60	0	18.7
		1	99	24.23	24.46	24.34	1	24.5	18.63	18.54	18.69	0	18.7
		50	0	23.47	23.47	23.40	2	23.5	18.30	18.34	18.22	0	18.7
		50	24	23.42	23.21	23.20	2	23.5	18.31	18.42	18.24	0	18.7
		50	50	23.38	23.49	23.49	2	23.5	18.19	18.39	18.34	0	18.7
	64QAM	100	0	23.44	23.25	23.27	2	23.5	18.36	18.47	18.33	0	18.7
		1	0	23.32	23.15	23.40	2	23.5	18.64	18.66	18.36	0	18.7
		1	49	23.24	23.18	23.40	2	23.5	18.66	18.54	18.29	0	18.7
		1	99	23.24	23.17	23.36	2	23.5	18.57	18.69	18.39	0	18.7
		50	0	22.11	22.14	22.09	3	22.5	18.31	18.32	18.21	0	18.7
		50	24	22.05	22.20	22.17	3	22.5	18.32	18.39	18.21	0	18.7
		50	50	22.02	22.17	22.16	3	22.5	18.20	18.35	18.30	0	18.7
		100	0	22.11	22.24	22.23	3	22.5	18.35	18.45	18.29	0	18.7
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132047	132322	132597	MPR	Tune-up Limit	132047	132322	132597	MPR	Tune-up Limit
				1717.5 MHz	1745 MHz	1772.5 MHz			1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	QPSK	1	0	24.89	24.89	24.84	0	25.5	18.30	18.29	18.25	0	18.7
		1	37	24.86	24.86	24.92	0	25.5	18.36	18.40	18.33	0	18.7
		1	74	24.76	24.76	24.81	0	25.5	18.24	18.32	18.32	0	18.7
		36	0	24.04	24.04	24.05	1	24.5	18.28	18.31	18.25	0	18.7
		36	20	24.08	24.08	24.06	1	24.5	18.30	18.41	18.31	0	18.7
		36	39	24.03	24.03	24.08	1	24.5	18.32	18.42	18.32	0	18.7
		75	0	24.04	24.04	24.08	1	24.5	18.34	18.43	18.36	0	18.7
	16QAM	1	0	24.19	24.19	24.29	1	24.5	18.59	18.62	18.54	0	18.7
		1	37	24.21	24.21	24.39	1	24.5	18.69	18.66	18.60	0	18.7
		1	74	24.18	24.18	24.32	1	24.5	18.57	18.65	18.58	0	18.7
		36	0	23.19	23.19	23.21	2	23.5	18.28	18.31	18.24	0	18.7
		36	20	23.16	23.16	23.18	2	23.5	18.32	18.43	18.31	0	18.7
		36	39	23.12	23.12	23.20	2	23.5	18.32	18.44	18.32	0	18.7
	64QAM	75	0	23.16	23.16	23.19	2	23.5	18.34	18.43	18.35	0	18.7
		1	0	23.22	23.31	23.18	2	23.5	18.44	18.51	18.54	0	18.7
		1	37	23.22	23.36	23.21	2	23.5	18.51	18.64	18.61	0	18.7
		1	74	23.15	23.31	23.18	2	23.5	18.38	18.57	18.62	0	18.7
		36	0	22.17	22.18	22.19	3	22.5	18.28	18.32	18.24	0	18.7
		36	20	22.19	22.27	22.22	3	22.5	18.31	18.42	18.33	0	18.7
		36	39	22.15	22.29	22.24	3	22.5	18.32	18.44	18.34	0	18.7
		75	0	22.15	22.27	22.21	3	22.5	18.31	18.42	18.35	0	18.7
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132022	132322	132622	MPR	Tune-up Limit	132022	132322	132622	MPR	Tune-up Limit
				1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	25.06	24.97	25.06	0	25.5	18.27	18.39	18.33	0	18.7
		1	25	25.04	24.99	24.97	0	25.5	18.29	18.43	18.40	0	18.7
		1	49	24.92	24.93	24.91	0	25.5	18.35	18.43	18.43	0	18.7
		25	0	24.08	24.06	24.09	1	24.5	18.29	18.37	18.31	0	18.7
		25	12	24.11	24.08	24.10	1	24.5	18.27	18.37	18.32	0	18.7
		25	25	24.06	24.11	24.11	1	24.5	18.29	18.40	18.37	0	18.7
		50	0	24.03	24.09	24.09	1	24.5	18.30	18.39	18.34	0	18.7
	16QAM	1	0	24.35	24.36	24.44	1	24.5	18.62	18.61	18.63	0	18.7
		1	25	24.37	24.35	24.41	1	24.5	18.60	18.70	18.31	0	18.7
		1	49	24.29	24.40	24.42	1	24.5	18.66	18.68	18.38	0	18.7
		25	0	23.22	23.23	23.25	2	23.5	18.27	18.39	18.34	0	18.7
		25	12	23.24	23.24	23.27	2	23.5	18.28	18.38	18.35	0	18.7
		25	25	23.22	23.28	23.27	2	23.5	18.31	18.42	18.39	0	18.7
	64QAM	50	0	23.19	23.24	23.25	2	23.5	18.27	18.39	18.36	0	18.7
		1	0	23.28	23.27	23.35	2	23.5	18.51	18.47	18.49	0	18.7
		1	25	23.32	23.27	23.29	2	23.5	18.51	18.52	18.57	0	18.7
		1	49	23.26	23.28	23.28	2	23.5	18.56	18.54	18.61	0	18.7
		25	0	22.22	22.25	22.21	3	22.5	18.28	18.38	18.31	0	18.7
		25	12	22.28	22.28	22.26	3	22.5	18.26	18.39	18.33	0	18.7
		25	25	22.28	22.31	22.27	3	22.5	18.30	18.42	18.35	0	18.7
		50	0	22.24	22.27	22.26	3	22.5	18.27	18.39	18.35	0	18.7

LTE Band 66 Measured Results (ANT1) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131997	132322	132647	MPR	Tune-up Limit	131997	132322	132647	MPR	Tune-up Limit
				1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	25.09	25.10	25.10	0	25.5	18.25	18.44	18.46	0	18.7
		1	12	25.03	25.05	25.04	0	25.5	18.25	18.41	18.44	0	18.7
		1	24	25.10	25.11	24.95	0	25.5	18.29	18.47	18.42	0	18.7
		12	0	24.13	24.14	24.15	1	24.5	18.21	18.38	18.41	0	18.7
		12	7	24.13	24.21	24.14	1	24.5	18.25	18.37	18.43	0	18.7
		12	13	24.15	24.23	24.08	1	24.5	18.25	18.39	18.36	0	18.7
		25	0	24.14	24.21	24.14	1	24.5	18.29	18.39	18.44	0	18.7
	16QAM	1	0	24.45	24.44	24.44	1	24.5	18.66	18.62	18.63	0	18.7
		1	12	24.47	24.46	24.41	1	24.5	18.66	18.62	18.66	0	18.7
		1	24	24.33	24.46	24.49	1	24.5	18.60	18.69	18.62	0	18.7
		12	0	23.25	23.35	23.31	2	23.5	18.27	18.38	18.43	0	18.7
		12	7	23.30	23.39	23.34	2	23.5	18.30	18.39	18.43	0	18.7
		12	13	23.31	23.40	23.29	2	23.5	18.32	18.42	18.36	0	18.7
		25	0	23.31	23.36	23.32	2	23.5	18.27	18.39	18.43	0	18.7
	64QAM	1	0	22.85	22.84	23.05	2	23.5	18.55	18.63	18.65	0	18.7
		1	12	22.84	22.85	22.99	2	23.5	18.57	18.62	18.66	0	18.7
		1	24	22.92	22.92	22.93	2	23.5	18.59	18.69	18.62	0	18.7
		12	0	21.66	21.83	21.80	3	22.5	18.21	18.32	18.48	0	18.7
		12	7	21.76	21.81	21.81	3	22.5	18.25	18.39	18.47	0	18.7
		12	13	21.78	21.83	21.75	3	22.5	18.25	18.34	18.39	0	18.7
		25	0	21.77	21.79	21.80	3	22.5	18.25	18.37	18.43	0	18.7
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	25.18	25.17	25.19	0	25.5	18.22	18.33	18.48	0	18.7
		1	8	25.20	25.19	25.10	0	25.5	18.23	18.38	18.49	0	18.7
		1	14	25.13	25.15	25.00	0	25.5	18.25	18.36	18.44	0	18.7
		8	0	24.21	24.28	24.20	1	24.5	18.21	18.38	18.42	0	18.7
		8	4	24.21	24.28	24.16	1	24.5	18.19	18.38	18.34	0	18.7
		8	7	24.22	24.28	24.19	1	24.5	18.19	18.38	18.34	0	18.7
		15	0	24.21	24.27	24.19	1	24.5	18.20	18.37	18.33	0	18.7
	16QAM	1	0	24.41	24.47	24.44	1	24.5	18.47	18.60	18.68	0	18.7
		1	8	24.48	24.47	24.48	1	24.5	18.54	18.64	18.67	0	18.7
		1	14	24.45	24.49	24.36	1	24.5	18.54	18.70	18.64	0	18.7
		8	0	23.35	23.39	23.41	2	23.5	18.25	18.42	18.45	0	18.7
		8	4	23.35	23.40	23.33	2	23.5	18.25	18.43	18.40	0	18.7
		8	7	23.36	23.47	23.34	2	23.5	18.25	18.43	18.39	0	18.7
		15	0	23.31	23.42	23.30	2	23.5	18.21	18.39	18.36	0	18.7
	64QAM	1	0	23.30	23.29	23.31	2	23.5	18.42	18.52	18.70	0	18.7
		1	8	23.36	23.31	23.37	2	23.5	18.42	18.57	18.60	0	18.7
		1	14	23.37	23.29	23.29	2	23.5	18.43	18.58	18.55	0	18.7
		8	0	22.31	22.31	22.35	3	22.5	18.28	18.40	18.44	0	18.7
		8	4	22.31	22.30	22.29	3	22.5	18.25	18.41	18.38	0	18.7
		8	7	22.32	22.32	22.31	3	22.5	18.26	18.39	18.36	0	18.7
		15	0	22.27	22.29	22.26	3	22.5	18.20	18.38	18.30	0	18.7
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131979	132322	132665	MPR	Tune-up Limit	131979	132322	132665	MPR	Tune-up Limit
				1710.7 MHz	1745 MHz	1779.3 MHz			1710.7 MHz	1745 MHz	1779.3 MHz		
1.4 MHz	QPSK	1	0	25.15	25.02	24.92	0	25.5	18.31	18.42	18.49	0	18.7
		1	3	25.06	24.97	24.89	0	25.5	18.29	18.42	18.46	0	18.7
		1	5	25.09	24.98	24.88	0	25.5	18.30	18.45	18.48	0	18.7
		3	0	24.97	24.97	24.84	0	25.5	18.28	18.42	18.40	0	18.7
		3	1	24.96	24.97	24.83	0	25.5	18.26	18.42	18.40	0	18.7
		3	3	24.97	24.97	24.84	0	25.5	18.27	18.41	18.41	0	18.7
		6	0	23.98	24.05	23.90	1	24.5	18.23	18.40	18.39	0	18.7
	16QAM	1	0	24.26	24.26	24.29	1	24.5	18.55	18.67	18.68	0	18.7
		1	3	24.25	24.24	24.27	1	24.5	18.50	18.62	18.70	0	18.7
		1	5	24.29	24.26	24.30	1	24.5	18.53	18.69	18.62	0	18.7
		3	0	24.12	24.14	24.06	1	24.5	18.31	18.52	18.56	0	18.7
		3	1	24.10	24.12	24.06	1	24.5	18.32	18.52	18.57	0	18.7
		3	3	24.10	24.12	24.03	1	24.5	18.30	18.50	18.59	0	18.7
		6	0	23.11	23.14	23.04	2	23.5	18.22	18.48	18.50	0	18.7
	64QAM	1	0	23.41	23.44	23.19	2	23.5	18.37	18.64	18.64	0	18.7
		1	3	23.42	23.38	23.17	2	23.5	18.37	18.66	18.67	0	18.7
		1	5	23.42	23.42	23.20	2	23.5	18.44	18.63	18.61	0	18.7
		3	0	23.20	23.23	23.11	2	23.5	18.32	18.53	18.58	0	18.7
		3	1	23.19	23.23	23.10	2	23.5	18.28	18.54	18.59	0	18.7
		3	3	23.19	23.22	23.09	2	23.5	18.26	18.53	18.59	0	18.7
		6	0	22.22	22.26	22.21	3	22.5	18.27	18.50	18.46	0	18.7

LTE Band 66 Measured Results (ANT2)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Tune-up Limit	132072	132322	132572	MPR	Tune-up Limit
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	21.40	21.40	21.46	0	21.5	20.41	20.39	20.35	0	20.5
		1	49	21.46	21.48	21.50	0	21.5	20.50	20.50	20.50	0	20.5
		1	99	21.37	21.44	21.37	0	21.5	20.21	20.35	20.30	0	20.5
		50	0	21.30	21.40	21.40	0	21.5	20.37	20.38	20.32	0	20.5
		50	24	21.40	21.42	21.47	0	21.5	20.50	20.50	20.50	0	20.5
		50	50	21.38	21.40	21.45	0	21.5	20.28	20.35	20.38	0	20.5
	16QAM	100	0	21.43	21.47	21.50	0	21.5	20.50	20.50	20.50	0	20.5
		1	0	21.50	21.50	21.50	0	21.5	20.25	20.39	20.30	0	20.5
		1	49	21.50	21.50	21.50	0	21.5	20.23	20.34	20.33	0	20.5
		1	99	21.50	21.50	21.50	0	21.5	20.17	20.34	20.22	0	20.5
		50	0	20.76	20.78	20.75	0	21.5	20.35	20.37	20.30	0	20.5
		50	24	20.79	20.82	20.88	0	21.5	20.28	20.35	20.38	0	20.5
	64QAM	50	50	20.75	20.82	20.83	0	21.5	20.26	20.34	20.37	0	20.5
		100	0	20.80	20.85	20.86	0	21.5	20.28	20.39	20.45	0	20.5
		1	0	20.94	21.19	21.17	0	21.5	20.48	20.25	20.19	0	20.5
		1	49	20.85	21.16	21.24	0	21.5	20.42	20.22	20.31	0	20.5
		1	99	20.77	21.14	21.13	0	21.5	20.35	20.20	20.20	0	20.5
		50	0	19.92	19.94	19.89	1	20.5	19.92	19.93	19.88	0	20.5
		50	24	19.87	19.90	19.97	1	20.5	19.87	19.89	19.96	0	20.5
		50	50	19.85	19.89	19.95	1	20.5	19.84	19.88	19.94	0	20.5
		100	0	19.91	19.96	20.04	1	20.5	19.89	19.95	20.03	0	20.5
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132047	132322	132597	MPR	Tune-up Limit	132047	132322	132597	MPR	Tune-up Limit
				1717.5 MHz	1745 MHz	1772.5 MHz			1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	QPSK	1	0	21.18	21.14	21.19	0	21.5	20.36	20.36	20.37	0	20.5
		1	37	21.14	21.17	21.25	0	21.5	20.36	20.35	20.43	0	20.5
		1	74	21.05	21.11	21.08	0	21.5	20.25	20.33	20.32	0	20.5
		36	0	21.16	21.15	21.18	0	21.5	20.38	20.36	20.40	0	20.5
		36	20	21.14	21.17	21.13	0	21.5	20.36	20.35	20.38	0	20.5
		36	39	21.10	21.20	21.07	0	21.5	20.28	20.37	20.35	0	20.5
		75	0	21.14	21.14	21.16	0	21.5	20.37	20.36	20.40	0	20.5
	16QAM	1	0	21.31	21.41	21.42	0	21.5	20.40	20.47	20.48	0	20.5
		1	37	21.34	21.47	21.49	0	21.5	20.40	20.48	20.45	0	20.5
		1	74	21.27	21.39	21.33	0	21.5	20.27	20.44	20.43	0	20.5
		36	0	20.86	20.85	20.90	0	21.5	20.37	20.36	20.39	0	20.5
		36	20	20.82	20.83	20.87	0	21.5	20.33	20.34	20.37	0	20.5
		36	39	20.75	20.86	20.84	0	21.5	20.26	20.37	20.34	0	20.5
	64QAM	75	0	20.84	20.84	20.89	0	21.5	20.35	20.35	20.39	0	20.5
		1	0	21.14	21.13	21.07	0	21.5	20.47	20.39	20.37	0	20.5
		1	37	21.13	21.08	21.12	0	21.5	20.40	20.40	20.44	0	20.5
		1	74	21.06	21.03	20.96	0	21.5	20.38	20.36	20.30	0	20.5
		36	0	19.95	19.97	19.99	1	20.5	19.94	19.96	19.98	0	20.5
		36	20	19.93	19.94	19.96	1	20.5	19.92	19.98	19.96	0	20.5
		36	39	19.86	19.96	19.92	1	20.5	19.86	20.01	19.92	0	20.5
		75	0	19.93	19.93	19.95	1	20.5	19.92	19.94	19.94	0	20.5
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132022	132322	132622	MPR	Tune-up Limit	132022	132322	132622	MPR	Tune-up Limit
				1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	21.05	20.99	21.13	0	21.5	20.46	20.41	20.38	0	20.5
		1	25	21.05	20.95	21.09	0	21.5	20.49	20.41	20.33	0	20.5
		1	49	20.96	20.97	20.97	0	21.5	20.42	20.40	20.42	0	20.5
		25	0	20.97	20.90	21.01	0	21.5	20.37	20.36	20.46	0	20.5
		25	12	21.00	20.92	21.02	0	21.5	20.38	20.39	20.47	0	20.5
		25	25	20.95	20.96	20.98	0	21.5	20.34	20.42	20.42	0	20.5
		50	0	20.94	20.94	20.97	0	21.5	20.32	20.40	20.40	0	20.5
	16QAM	1	0	20.97	21.03	21.13	0	21.5	20.26	20.40	20.44	0	20.5
		1	25	21.01	20.99	21.07	0	21.5	20.28	20.31	20.38	0	20.5
		1	49	20.91	21.00	20.98	0	21.5	20.19	20.33	20.27	0	20.5
		25	0	20.89	20.86	20.95	0	21.5	20.36	20.38	20.44	0	20.5
		25	12	20.91	20.87	20.95	0	21.5	20.38	20.39	20.46	0	20.5
		25	25	20.89	20.92	20.89	0	21.5	20.33	20.43	20.40	0	20.5
	64QAM	50	0	20.86	20.87	20.87	0	21.5	20.30	20.39	20.37	0	20.5
		1	0	21.04	21.17	21.20	0	21.5	20.37	20.47	20.44	0	20.5
		1	25	21.08	21.12	21.15	0	21.5	20.46	20.44	20.49	0	20.5
		1	49	20.99	21.11	21.07	0	21.5	20.37	20.45	20.38	0	20.5
		25	0	19.94	19.90	19.95	1	20.5	19.99	19.94	20.01	0	20.5
		25	12	19.96	19.99	19.99	1	20.5	20.00	19.96	20.02	0	20.5
		25	25	19.92	20.02	19.96	1	20.5	19.98	20.00	19.95	0	20.5
		50	0	19.88	19.98	19.94	1	20.5	19.95	19.96	19.95	0	20.5

LTE Band 66 Measured Results (ANT2) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131997	132322	132647	MPR	Tune-up Limit	131997	132322	132647	MPR	Tune-up Limit
				1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	21.34	21.35	21.39	0	21.5	20.37	20.43	20.48	0	20.5
		1	12	21.33	21.33	21.35	0	21.5	20.38	20.42	20.44	0	20.5
		1	24	21.35	21.38	21.31	0	21.5	20.46	20.47	20.41	0	20.5
		12	0	21.27	21.29	21.35	0	21.5	20.37	20.38	20.44	0	20.5
		12	7	21.27	21.31	21.34	0	21.5	20.38	20.39	20.43	0	20.5
		12	13	21.29	21.31	21.28	0	21.5	20.40	20.40	20.38	0	20.5
		25	0	21.28	21.30	21.34	0	21.5	20.39	20.39	20.43	0	20.5
	16QAM	1	0	21.34	21.34	21.47	0	21.5	20.45	20.40	20.48	0	20.5
		1	12	21.36	21.30	21.46	0	21.5	20.43	20.40	20.44	0	20.5
		1	24	21.41	21.35	21.42	0	21.5	20.41	20.48	20.50	0	20.5
		12	0	20.31	20.38	20.43	0	21.5	20.04	20.10	20.19	0	20.5
		12	7	20.91	20.97	21.02	0	21.5	20.35	20.41	20.46	0	20.5
		12	13	20.92	20.98	20.94	0	21.5	20.37	20.45	20.41	0	20.5
		25	0	20.93	20.95	20.97	0	21.5	20.35	20.40	20.43	0	20.5
	64QAM	1	0	21.07	21.24	21.36	0	21.5	20.38	20.44	20.40	0	20.5
		1	12	21.05	21.15	21.33	0	21.5	20.33	20.41	20.41	0	20.5
		1	24	21.14	21.23	21.22	0	21.5	20.44	20.46	20.44	0	20.5
		12	0	19.94	20.03	20.03	1	20.5	19.97	19.97	20.02	0	20.5
		12	7	19.99	19.98	20.02	1	20.5	19.98	19.95	20.00	0	20.5
		12	13	20.02	19.97	19.96	1	20.5	20.00	19.95	19.95	0	20.5
		25	0	19.96	19.98	20.02	1	20.5	19.96	19.95	20.00	0	20.5
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	21.17	21.13	21.21	0	21.5	20.41	20.35	20.44	0	20.5
		1	8	21.18	21.20	21.17	0	21.5	20.43	20.41	20.42	0	20.5
		1	14	21.15	21.16	21.11	0	21.5	20.40	20.37	20.36	0	20.5
		8	0	21.13	21.18	21.20	0	21.5	20.37	20.39	20.42	0	20.5
		8	4	21.12	21.19	21.11	0	21.5	20.36	20.39	20.36	0	20.5
		8	7	21.14	21.19	21.12	0	21.5	20.37	20.39	20.36	0	20.5
		15	0	21.12	21.19	21.11	0	21.5	20.36	20.39	20.36	0	20.5
	16QAM	1	0	21.40	21.46	21.44	0	21.5	20.30	20.37	20.45	0	20.5
		1	8	21.43	21.49	21.49	0	21.5	20.37	20.39	20.45	0	20.5
		1	14	21.42	21.43	21.39	0	21.5	20.36	20.39	20.41	0	20.5
		8	0	20.95	21.02	21.02	0	21.5	20.40	20.41	20.48	0	20.5
		8	4	20.99	21.02	20.98	0	21.5	20.40	20.41	20.42	0	20.5
		8	7	21.00	21.03	20.98	0	21.5	20.41	20.43	20.41	0	20.5
		15	0	20.96	20.99	20.96	0	21.5	20.38	20.38	20.36	0	20.5
	64QAM	1	0	21.00	21.14	21.15	0	21.5	20.21	20.34	20.41	0	20.5
		1	8	21.07	21.22	21.11	0	21.5	20.34	20.40	20.33	0	20.5
		1	14	21.04	21.11	21.04	0	21.5	20.33	20.37	20.31	0	20.5
		8	0	19.97	20.07	20.06	1	20.5	19.95	20.02	20.03	0	20.5
		8	4	19.96	20.06	20.00	1	20.5	19.95	20.09	19.96	0	20.5
		8	7	19.98	20.07	19.99	1	20.5	19.97	20.15	19.96	0	20.5
		15	0	19.95	20.00	19.92	1	20.5	19.94	20.03	19.90	0	20.5
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131979	132322	132665	MPR	Tune-up Limit	131979	132322	132665	MPR	Tune-up Limit
				1710.7 MHz	1745 MHz	1779.3 MHz			1710.7 MHz	1745 MHz	1779.3 MHz		
1.4 MHz	QPSK	1	0	21.43	21.39	21.39	0	21.5	20.44	20.46	20.40	0	20.5
		1	3	21.38	21.36	21.37	0	21.5	20.44	20.45	20.38	0	20.5
		1	5	21.44	21.39	21.39	0	21.5	20.48	20.49	20.41	0	20.5
		3	0	21.36	21.38	21.34	0	21.5	20.42	20.44	20.39	0	20.5
		3	1	21.35	21.37	21.34	0	21.5	20.42	20.45	20.39	0	20.5
		3	3	21.35	21.38	21.33	0	21.5	20.41	20.45	20.38	0	20.5
		6	0	21.33	21.37	21.33	0	21.5	20.36	20.44	20.37	0	20.5
	16QAM	1	0	21.21	21.23	21.31	0	21.5	20.31	20.30	20.20	0	20.5
		1	3	21.19	21.17	21.17	0	21.5	20.31	20.31	20.15	0	20.5
		1	5	21.21	21.22	21.17	0	21.5	20.35	20.35	20.20	0	20.5
		3	0	21.43	21.48	21.31	0	21.5	20.49	20.47	20.48	0	20.5
		3	1	21.44	21.48	21.34	0	21.5	20.47	20.46	20.47	0	20.5
		3	3	21.45	21.47	21.31	0	21.5	20.47	20.45	20.45	0	20.5
		6	0	21.14	21.17	21.02	0	21.5	20.36	20.49	20.41	0	20.5
	64QAM	1	0	21.16	21.33	21.08	0	21.5	20.26	20.29	20.35	0	20.5
		1	3	21.12	21.30	21.09	0	21.5	20.30	20.25	20.32	0	20.5
		1	5	21.12	21.32	21.09	0	21.5	20.31	20.31	20.34	0	20.5
		3	0	21.02	21.13	20.95	0	21.5	20.21	20.40	20.19	0	20.5
		3	1	20.95	21.11	20.94	0	21.5	20.21	20.39	20.20	0	20.5
		3	3	20.96	21.12	20.95	0	21.5	20.23	20.36	20.17	0	20.5
		6	0	20.00	20.06	19.97	1	20.5	20.09	20.19	20.09	0	20.5

LTE Band 66 Measured Results (ANT3)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Tune-up Limit	132072	132322	132572	MPR	Tune-up Limit
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20 MHz	QPSK	1	0	24.19	25.00	24.82	0	25	21.30	21.35	21.34	0	21.5
		1	49	24.20	25.00	24.99	0	25	21.37	21.40	21.40	0	21.5
		1	99	24.10	24.88	25.00	0	25	21.30	21.34	21.32	0	21.5
		50	0	23.14	24.00	24.00	1	24	21.30	21.30	21.27	0	21.5
		50	24	23.20	24.00	24.00	1	24	21.38	21.40	21.30	0	21.5
		50	50	23.00	23.92	24.00	1	24	21.32	21.31	21.19	0	21.5
	16QAM	100	0	23.00	24.00	24.00	1	24	21.41	21.44	21.28	0	21.5
		1	0	23.93	23.40	23.44	1	24	21.50	21.50	21.50	0	21.5
		1	49	23.77	23.42	23.58	1	24	21.50	21.50	21.50	0	21.5
		1	99	23.78	23.37	23.82	1	24	21.50	21.50	21.50	0	21.5
		50	0	22.54	22.24	22.24	2	23	21.39	21.42	21.26	0	21.5
		50	24	22.48	22.32	22.39	2	23	21.36	21.39	21.20	0	21.5
	64QAM	50	50	22.31	22.24	22.49	2	23	21.31	21.31	21.17	0	21.5
		100	0	22.53	22.31	22.46	2	23	21.40	21.43	21.26	0	21.5
		1	0	22.60	22.17	22.43	2	23	21.50	21.45	21.50	0	21.5
		1	49	22.64	22.16	22.58	2	23	21.50	21.37	21.45	0	21.5
		1	99	22.50	22.08	22.77	2	23	21.50	21.32	21.50	0	21.5
		50	0	21.63	21.35	21.45	3	22	21.29	21.33	21.20	0	21.5
		50	24	21.58	21.33	21.63	3	22	21.26	21.30	21.12	0	21.5
		50	50	21.45	21.23	21.73	3	22	21.22	21.21	21.10	0	21.5
		100	0	21.62	21.34	21.71	3	22	21.33	21.35	21.19	0	21.5
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132047	132322	132597	MPR	Tune-up Limit	132047	132322	132597	MPR	Tune-up Limit
				1717.5 MHz	1745 MHz	1772.5 MHz			1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	QPSK	1	0	24.40	24.33	24.31	0	25	21.38	21.42	21.33	0	21.5
		1	37	24.30	24.24	24.47	0	25	21.37	21.42	21.22	0	21.5
		1	74	24.06	24.09	24.49	0	25	21.29	21.30	21.31	0	21.5
		36	0	23.39	23.33	23.35	1	24	21.37	21.41	21.21	0	21.5
		36	20	23.34	23.34	23.54	1	24	21.38	21.39	21.18	0	21.5
		36	39	23.27	23.27	23.55	1	24	21.34	21.40	21.18	0	21.5
		75	0	23.34	23.34	23.55	1	24	21.39	21.42	21.21	0	21.5
	16QAM	1	0	23.42	23.50	23.50	1	24	21.50	21.50	21.50	0	21.5
		1	37	23.47	23.53	23.70	1	24	21.50	21.50	21.50	0	21.5
		1	74	23.34	23.43	23.70	1	24	21.50	21.50	21.50	0	21.5
		36	0	22.46	22.41	22.43	2	23	21.37	21.41	21.21	0	21.5
		36	20	22.51	22.41	22.61	2	23	21.38	21.39	21.19	0	21.5
	64QAM	36	39	22.46	22.34	22.62	2	23	21.35	21.39	21.18	0	21.5
		75	0	22.54	22.41	22.64	2	23	21.38	21.40	21.21	0	21.5
		1	0	22.61	22.75	22.68	2	23	21.50	21.50	21.37	0	21.5
		1	37	22.78	22.71	22.88	2	23	21.50	21.50	21.31	0	21.5
		1	74	22.53	22.63	23.00	2	23	21.42	21.50	21.39	0	21.5
		36	0	21.71	21.55	21.55	3	22	21.32	21.34	21.11	0	21.5
		36	20	21.68	21.53	21.72	3	22	21.32	21.33	21.10	0	21.5
		36	39	21.62	21.49	21.73	3	22	21.28	21.32	21.10	0	21.5
		75	0	21.67	21.52	21.74	3	22	21.31	21.33	21.11	0	21.5
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132022	132322	132622	MPR	Tune-up Limit	132022	132322	132622	MPR	Tune-up Limit
				1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	24.50	24.42	24.59	0	25	21.43	21.45	21.28	0	21.5
		1	25	24.38	24.33	24.58	0	25	21.41	21.42	21.24	0	21.5
		1	49	24.37	24.24	24.65	0	25	21.43	21.42	21.36	0	21.5
		25	0	23.47	23.39	23.57	1	24	21.38	21.40	21.19	0	21.5
		25	12	23.49	23.35	23.57	1	24	21.38	21.40	21.18	0	21.5
		25	25	23.44	23.29	23.58	1	24	21.38	21.42	21.19	0	21.5
		50	0	23.44	23.32	23.60	1	24	21.38	21.39	21.20	0	21.5
	16QAM	1	0	23.64	23.60	23.74	1	24	21.50	21.50	21.50	0	21.5
		1	25	23.61	23.55	23.78	1	24	21.50	21.50	21.50	0	21.5
		1	49	23.68	23.52	23.87	1	24	21.50	21.50	21.50	0	21.5
		25	0	22.57	22.46	22.62	2	23	21.34	21.36	21.18	0	21.5
		25	12	22.57	22.41	22.62	2	23	21.33	21.36	21.18	0	21.5
		25	25	22.54	22.37	22.63	2	23	21.33	21.38	21.18	0	21.5
	64QAM	50	0	22.53	22.41	22.65	2	23	21.34	21.35	21.18	0	21.5
		1	0	22.62	22.62	22.72	2	23	21.50	21.48	21.37	0	21.5
		1	25	22.42	22.63	22.79	2	23	21.49	21.42	21.40	0	21.5
		1	49	22.70	22.52	22.87	2	23	21.50	21.42	21.45	0	21.5
		25	0	21.69	21.54	21.73	3	22	21.29	21.29	21.11	0	21.5
		25	12	21.70	21.52	21.73	3	22	21.29	21.29	21.09	0	21.5
		25	25	21.65	21.48	21.74	3	22	21.30	21.31	21.11	0	21.5
		50	0	21.64	21.48	21.74	3	22	21.29	21.29	21.11	0	21.5

LTE Band 66 Measured Results (ANT3) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131997	132322	132647	MPR	Tune-up Limit	131997	132322	132647	MPR	Tune-up Limit
				1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	24.46	24.51	24.36	0	25	21.38	21.44	21.29	0	21.5
		1	12	24.38	24.33	24.35	0	25	21.34	21.43	21.26	0	21.5
		1	24	24.38	24.27	24.52	0	25	21.38	21.46	21.47	0	21.5
		12	0	23.46	23.49	23.44	1	24	21.37	21.39	21.25	0	21.5
		12	7	23.52	23.43	23.53	1	24	21.36	21.39	21.24	0	21.5
		12	13	23.54	23.44	23.54	1	24	21.36	21.39	21.31	0	21.5
		25	0	23.53	23.38	23.55	1	24	21.36	21.40	21.23	0	21.5
	16QAM	1	0	23.72	23.81	23.94	1	24	21.50	21.50	21.50	0	21.5
		1	12	23.67	23.71	23.89	1	24	21.50	21.50	21.50	0	21.5
		1	24	23.70	23.71	24.00	1	24	21.50	21.50	21.50	0	21.5
		12	0	22.54	22.55	22.67	2	23	21.38	21.41	21.29	0	21.5
		12	7	22.61	22.47	22.65	2	23	21.38	21.43	21.28	0	21.5
		12	13	22.63	22.47	22.65	2	23	21.38	21.43	21.35	0	21.5
		25	0	22.62	22.47	22.65	2	23	21.38	21.40	21.24	0	21.5
	64QAM	1	0	22.62	22.77	22.98	2	23	21.50	21.50	21.50	0	21.5
		1	12	22.55	22.70	22.92	2	23	21.50	21.50	21.47	0	21.5
		1	24	22.54	22.67	23.00	2	23	21.50	21.50	21.50	0	21.5
		12	0	21.62	21.63	21.78	3	22	21.29	21.37	21.14	0	21.5
		12	7	21.68	21.57	21.77	3	22	21.23	21.35	21.12	0	21.5
		12	13	21.69	21.57	21.75	3	22	21.22	21.36	21.15	0	21.5
		25	0	21.66	21.54	21.72	3	22	21.23	21.31	21.12	0	21.5
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	24.50	24.57	24.76	0	25	21.34	21.33	21.23	0	21.5
		1	8	24.46	24.43	24.66	0	25	21.39	21.39	21.32	0	21.5
		1	14	24.38	24.27	24.68	0	25	21.34	21.35	21.40	0	21.5
		8	0	23.49	23.40	23.62	1	24	21.35	21.38	21.21	0	21.5
		8	4	23.51	23.40	23.60	1	24	21.34	21.38	21.27	0	21.5
		8	7	23.50	23.41	23.61	1	24	21.34	21.39	21.27	0	21.5
		15	0	23.43	23.40	23.61	1	24	21.34	21.39	21.27	0	21.5
	16QAM	1	0	23.68	23.69	23.83	1	24	21.50	21.50	21.50	0	21.5
		1	8	23.61	23.66	23.86	1	24	21.50	21.50	21.50	0	21.5
		1	14	23.59	23.59	23.94	1	24	21.50	21.50	21.50	0	21.5
		8	0	22.55	22.49	22.66	2	23	21.38	21.43	21.26	0	21.5
		8	4	22.56	22.46	22.66	2	23	21.37	21.42	21.33	0	21.5
		8	7	22.56	22.48	22.67	2	23	21.37	21.43	21.32	0	21.5
		15	0	22.52	22.42	22.61	2	23	21.35	21.38	21.30	0	21.5
	64QAM	1	0	22.68	22.71	22.92	2	23	21.49	21.39	21.35	0	21.5
		1	8	22.57	22.69	22.89	2	23	21.49	21.25	21.44	0	21.5
		1	14	22.41	22.56	22.88	2	23	21.46	21.47	21.48	0	21.5
		8	0	21.62	21.54	21.74	3	22	21.34	21.34	21.20	0	21.5
		8	4	21.62	21.52	21.74	3	22	21.34	21.33	21.23	0	21.5
		8	7	21.62	21.55	21.73	3	22	21.34	21.34	21.24	0	21.5
		15	0	21.61	21.52	21.71	3	22	21.30	21.32	21.20	0	21.5
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131979	132322	132665	MPR	Tune-up Limit	131979	132322	132665	MPR	Tune-up Limit
				1710.7 MHz	1745 MHz	1779.3 MHz			1710.7 MHz	1745 MHz	1779.3 MHz		
1.4 MHz	QPSK	1	0	24.72	24.60	24.89	0	25	21.40	21.40	21.39	0	21.5
		1	3	24.61	24.56	24.86	0	25	21.39	21.39	21.37	0	21.5
		1	5	24.54	24.62	24.97	0	25	21.42	21.38	21.45	0	21.5
		3	0	24.51	24.49	24.87	0	25	21.37	21.35	21.34	0	21.5
		3	1	24.42	24.42	24.78	0	25	21.37	21.34	21.34	0	21.5
		3	3	24.42	24.37	24.78	0	25	21.37	21.34	21.34	0	21.5
		6	0	23.47	23.44	23.77	1	24	21.37	21.33	21.33	0	21.5
	16QAM	1	0	23.75	23.73	24.00	1	24	21.50	21.50	21.50	0	21.5
		1	3	23.72	23.80	24.00	1	24	21.50	21.50	21.50	0	21.5
		1	5	23.80	23.80	24.00	1	24	21.50	21.50	21.50	0	21.5
		3	0	23.59	23.62	23.95	1	24	21.50	21.44	21.46	0	21.5
		3	1	23.58	23.60	23.94	1	24	21.50	21.44	21.47	0	21.5
		3	3	23.58	23.59	23.96	1	24	21.50	21.46	21.46	0	21.5
		6	0	22.62	22.57	22.91	2	23	21.40	21.41	21.36	0	21.5
	64QAM	1	0	22.85	22.83	23.00	2	23	21.50	21.50	21.50	0	21.5
		1	3	22.79	22.83	23.00	2	23	21.50	21.50	21.47	0	21.5
		1	5	22.78	22.91	23.00	2	23	21.50	21.50	21.50	0	21.5
		3	0	22.62	22.74	22.97	2	23	21.43	21.41	21.34	0	21.5
		3	1	22.62	22.71	22.97	2	23	21.42	21.39	21.35	0	21.5
		3	3	22.62	22.71	22.98	2	23	21.41	21.39	21.37	0	21.5
		6	0	21.71	21.61	21.86	3	22	21.32	21.37	21.33	0	21.5

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	21.32	21.39	21.36	0	21.5	22.00	22.00	21.92	0	22
		1	49	21.40	21.40	21.40	0	21.5	22.00	22.00	21.98	0	22
		1	99	21.24	21.28	21.39	0	21.5	22.00	22.00	21.89	0	22
		50	0	20.81	20.92	20.77	0	21.5	21.16	21.34	21.12	0	22
		50	24	20.85	21.00	20.90	0	21.5	21.18	21.40	21.20	0	22
		50	50	20.77	20.82	20.80	0	21.5	21.18	21.26	21.18	0	22
	16QAM	100	0	20.85	20.88	20.76	0	21.5	21.22	21.40	21.15	0	22
		1	0	21.24	21.28	21.17	0	21.5	21.55	21.72	21.49	0	22
		1	49	21.19	21.23	21.11	0	21.5	21.50	21.73	21.42	0	22
		1	99	21.19	21.19	21.26	0	21.5	21.52	21.68	21.67	0	22
		50	0	20.00	20.07	20.00	0.5	21	20.30	20.49	20.27	1	21
		50	24	20.00	20.00	20.00	0.5	21	20.32	20.42	20.24	1	21
	64QAM	50	50	20.00	20.00	20.01	0.5	21	20.29	20.40	20.37	1	21
		100	0	20.01	20.03	20.00	0.5	21	20.35	20.46	20.30	1	21
		1	0	20.10	20.45	20.29	0.5	21	20.79	20.70	20.77	1	21
		1	49	20.09	20.43	20.25	0.5	21	20.81	20.70	20.72	1	21
		1	99	20.12	20.39	20.45	0.5	21	20.81	20.61	20.92	1	21
		50	0	19.03	19.17	19.00	1.5	20	19.49	19.65	19.42	2	20
		50	24	19.03	19.09	19.00	1.5	20	19.49	19.55	19.37	2	20
		50	50	19.02	19.05	19.06	1.5	20	19.47	19.53	19.51	2	20
		100	0	19.07	19.14	19.00	1.5	20	19.55	19.60	19.45	2	20
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132047	132322	132597	MPR	Tune-up Limit	132047	132322	132597	MPR	Tune-up Limit
				1717.5 MHz	1745 MHz	1772.5 MHz			1717.5 MHz	1745 MHz	1772.5 MHz		
15 MHz	QPSK	1	0	21.37	21.47	21.32	0	21.5	22.00	22.00	22.00	0	22
		1	37	21.37	21.36	21.38	0	21.5	22.00	22.00	22.00	0	22
		1	74	21.32	21.25	21.35	0	21.5	22.00	22.00	22.00	0	22
		36	0	20.82	20.92	20.72	0	21.5	21.18	21.35	21.09	0	22
		36	20	20.86	20.89	20.85	0	21.5	21.24	21.36	21.23	0	22
		36	39	20.86	20.82	20.85	0	21.5	21.24	21.31	21.26	0	22
	16QAM	75	0	20.85	20.83	20.79	0	21.5	21.24	21.29	21.25	0	22
		1	0	21.10	21.16	21.12	0	21.5	21.41	21.65	21.50	0	22
		1	37	21.11	21.10	21.18	0	21.5	21.48	21.60	21.61	0	22
		1	74	21.11	21.05	21.20	0	21.5	21.41	21.58	21.65	0	22
		36	0	20.00	20.06	20.00	0.5	21	20.24	20.46	20.21	1	21
		36	20	20.00	20.04	20.00	0.5	21	20.29	20.44	20.37	1	21
	64QAM	36	39	20.01	20.01	20.00	0.5	21	20.36	20.43	20.40	1	21
		75	0	20.00	20.01	20.00	0.5	21	20.35	20.40	20.39	1	21
		1	0	20.25	20.33	20.11	0.5	21	20.65	20.87	20.62	1	21
		1	37	20.28	20.27	20.22	0.5	21	20.66	20.85	20.75	1	21
		1	74	20.27	20.27	20.31	0.5	21	20.64	20.79	20.81	1	21
		36	0	19.00	19.19	19.00	1.5	20	19.46	19.62	19.44	2	20
		36	20	19.04	19.17	19.11	1.5	20	19.52	19.62	19.58	2	20
		36	39	19.03	19.15	19.13	1.5	20	19.52	19.58	19.60	2	20
		75	0	19.04	19.12	19.10	1.5	20	19.50	19.57	19.57	2	20
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132022	132322	132622	MPR	Tune-up Limit	132022	132322	132622	MPR	Tune-up Limit
				1715 MHz	1745 MHz	1775 MHz			1715 MHz	1745 MHz	1775 MHz		
10 MHz	QPSK	1	0	21.42	21.50	21.33	0	21.5	22.00	22.00	22.00	0	22
		1	25	21.35	21.49	21.41	0	21.5	22.00	22.00	22.00	0	22
		1	49	21.41	21.44	21.50	0	21.5	22.00	22.00	22.00	0	22
		25	0	20.85	20.95	20.91	0	21.5	21.27	21.42	21.32	0	22
		25	12	20.87	20.98	20.91	0	21.5	21.29	21.44	21.36	0	22
		25	25	20.91	20.96	20.93	0	21.5	21.32	21.41	21.37	0	22
	16QAM	50	0	20.89	20.95	20.92	0	21.5	21.31	21.39	21.34	0	22
		1	0	21.25	21.35	21.22	0	21.5	21.64	21.79	21.60	0	22
		1	25	21.14	21.29	21.33	0	21.5	21.57	21.77	21.70	0	22
		1	49	21.23	21.24	21.37	0	21.5	21.64	21.72	21.80	0	22
		25	0	20.00	20.09	20.02	0.5	21	20.33	20.52	20.40	1	21
		25	12	20.00	20.09	20.02	0.5	21	20.40	20.56	20.47	1	21
	64QAM	25	25	20.03	20.06	20.04	0.5	21	20.44	20.52	20.48	1	21
		50	0	20.00	20.03	20.02	0.5	21	20.41	20.48	20.45	1	21
		1	0	20.15	20.33	20.15	0.5	21	20.74	20.86	20.77	1	21
		1	25	20.08	20.31	20.21	0.5	21	20.71	20.78	20.87	1	21
		1	49	20.18	20.30	20.32	0.5	21	20.74	20.72	20.90	1	21
		25	0	19.06	19.20	19.08	1.5	20	19.48	19.68	19.60	2	20
		25	12	19.08	19.19	19.09	1.5	20	19.51	19.72	19.62	2	20
		25	25	19.11	19.16	19.11	1.5	20	19.54	19.70	19.65	2	20
		50	0	19.08	19.12	19.10	1.5	20	19.50	19.66	19.63	2	20

LTE Band 66 Measured Results (ANT4) (continued)

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131997	132322	132647	MPR	Tune-up Limit	131997	132322	132647	MPR	Tune-up Limit
				1712.5 MHz	1745 MHz	1777.5 MHz			1712.5 MHz	1745 MHz	1777.5 MHz		
5 MHz	QPSK	1	0	21.44	21.49	21.48	0	21.5	22.00	22.00	22.00	0	22
		1	12	21.40	21.45	21.45	0	21.5	22.00	22.00	22.00	0	22
		1	24	21.48	21.50	21.50	0	21.5	22.00	22.00	22.00	0	22
		12	0	20.99	21.05	21.00	0	21.5	21.33	21.46	21.38	0	22
		12	7	20.93	21.06	20.99	0	21.5	21.27	21.46	21.37	0	22
		12	13	20.95	20.99	21.06	0	21.5	21.29	21.40	21.43	0	22
		25	0	20.94	20.99	20.99	0	21.5	21.28	21.38	21.37	0	22
	16QAM	1	0	21.24	21.45	21.45	0	21.5	21.71	21.76	21.80	0	22
		1	12	21.17	21.36	21.38	0	21.5	21.65	21.73	21.77	0	22
		1	24	21.24	21.43	21.43	0	21.5	21.71	21.75	21.85	0	22
		12	0	20.04	20.13	20.10	0.5	21	20.44	20.61	20.52	1	21
		12	7	20.00	20.13	20.06	0.5	21	20.40	20.60	20.50	1	21
		12	13	20.01	20.05	20.15	0.5	21	20.41	20.53	20.58	1	21
		25	0	20.00	20.05	20.04	0.5	21	20.40	20.50	20.47	1	21
	64QAM	1	0	20.16	20.35	20.39	0.5	21	20.85	20.92	21.00	1	21
		1	12	20.16	20.26	20.37	0.5	21	20.79	20.89	20.99	1	21
		1	24	20.23	20.35	20.44	0.5	21	20.81	20.94	21.00	1	21
		12	0	19.15	19.22	19.15	1.5	20	19.63	19.74	19.65	2	20
		12	7	19.08	19.21	19.15	1.5	20	19.54	19.75	19.64	2	20
		12	13	19.09	19.12	19.22	1.5	20	19.56	19.68	19.71	2	20
		25	0	19.04	19.13	19.14	1.5	20	19.54	19.64	19.63	2	20
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	21.36	21.50	21.47	0	21.5	22.00	22.00	22.00	0	22
		1	8	21.43	21.48	21.50	0	21.5	22.00	22.00	22.00	0	22
		1	14	21.33	21.44	21.49	0	21.5	22.00	22.00	22.00	0	22
		8	0	20.96	21.05	21.00	0	21.5	21.38	21.52	21.46	0	22
		8	4	20.96	21.05	21.05	0	21.5	21.37	21.51	21.51	0	22
		8	7	20.97	20.98	21.05	0	21.5	21.38	21.45	21.51	0	22
		15	0	20.96	20.98	21.05	0	21.5	21.37	21.44	21.51	0	22
	16QAM	1	0	21.25	21.27	21.30	0	21.5	21.62	21.75	21.74	0	22
		1	8	21.27	21.28	21.41	0	21.5	21.66	21.76	21.87	0	22
		1	14	21.16	21.26	21.32	0	21.5	21.58	21.76	21.77	0	22
		8	0	20.04	20.15	20.10	0.5	21	20.51	20.64	20.61	1	21
		8	4	20.04	20.13	20.14	0.5	21	20.50	20.64	20.66	1	21
		8	7	20.04	20.06	20.15	0.5	21	20.53	20.61	20.66	1	21
		15	0	20.00	20.02	20.10	0.5	21	20.46	20.55	20.60	1	21
	64QAM	1	0	20.09	20.26	20.22	0.5	21	20.74	20.85	20.81	1	21
		1	8	20.18	20.27	20.28	0.5	21	20.81	20.84	20.91	1	21
		1	14	20.08	20.25	20.26	0.5	21	20.76	20.76	20.87	1	21
		8	0	19.14	19.30	19.20	1.5	20	19.64	19.73	19.69	2	20
		8	4	19.14	19.29	19.26	1.5	20	19.65	19.74	19.74	2	20
		8	7	19.15	19.23	19.25	1.5	20	19.65	19.68	19.75	2	20
		15	0	19.12	19.16	19.20	1.5	20	19.59	19.64	19.69	2	20
BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				131979	132322	132665	MPR	Tune-up Limit	131979	132322	132665	MPR	Tune-up Limit
				1710.7 MHz	1745 MHz	1779.3 MHz			1710.7 MHz	1745 MHz	1779.3 MHz		
1.4 MHz	QPSK	1	0	21.50	21.50	21.50	0	21.5	22.00	22.00	22.00	0	22
		1	3	21.49	21.50	21.50	0	21.5	22.00	22.00	22.00	0	22
		1	5	21.50	21.50	21.50	0	21.5	22.00	22.00	22.00	0	22
		3	0	21.47	21.50	21.47	0	21.5	22.00	22.00	22.00	0	22
		3	1	21.48	21.50	21.47	0	21.5	22.00	22.00	22.00	0	22
		3	3	21.48	21.47	21.46	0	21.5	22.00	22.00	22.00	0	22
		6	0	20.99	21.04	20.99	0	21.5	21.43	21.50	21.50	0	22
	16QAM	1	0	21.31	21.34	21.33	0	21.5	21.65	21.96	21.84	0	22
		1	3	21.29	21.32	21.29	0	21.5	21.64	21.93	21.79	0	22
		1	5	21.36	21.28	21.35	0	21.5	21.67	21.89	21.84	0	22
		3	0	21.09	21.19	21.17	0	21.5	21.52	21.74	21.66	0	22
		3	1	21.08	21.17	21.16	0	21.5	21.49	21.72	21.66	0	22
		3	3	21.09	21.13	21.16	0	21.5	21.53	21.67	21.66	0	22
		6	0	20.04	20.15	20.14	0.5	21	20.55	20.61	20.69	1	21
	64QAM	1	0	20.17	20.51	20.33	0.5	21	20.92	20.86	21.00	1	21
		1	3	20.17	20.48	20.27	0.5	21	20.92	20.88	21.00	1	21
		1	5	20.24	20.41	20.34	0.5	21	20.94	20.84	21.00	1	21
		3	0	20.12	20.32	20.18	0.5	21	20.75	20.75	20.92	1	21
		3	1	20.08	20.30	20.16	0.5	21	20.74	20.73	20.85	1	21
		3	3	20.09	20.23	20.16	0.5	21	20.76	20.71	20.83	1	21
		6	0	19.21	19.27	19.27	1.5	20	19.64	19.66	19.76	2	20

9.5. LTE 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

For PUCCH and SRS transmissions, the allowed MPR is according to that specified for PUSCH WPKD 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

$$\begin{aligned} M_A = & \quad 8.2 & ; 0 \leq A < 0.025 \\ & 9.2 - 40A & ; 0.025 \leq A < 0.05 \\ & 8 - 16A & ; 0.05 \leq A < 0.25 \\ & 4.83 - 3.33A & ; 0.25 \leq A \leq 0.4 \\ & 3.83 - 0.83A & ; 0.4 \leq A \leq 1 \end{aligned}$$

and M_{IM5} is defined as follows

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

Where

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

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

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

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 $W_{\text{GAP}} \leq 42.2$ MHz as follows

$$\text{MPR} = \text{CEIL}\{M_N, 0.5\}$$

Where M_N is defined as follows

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

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

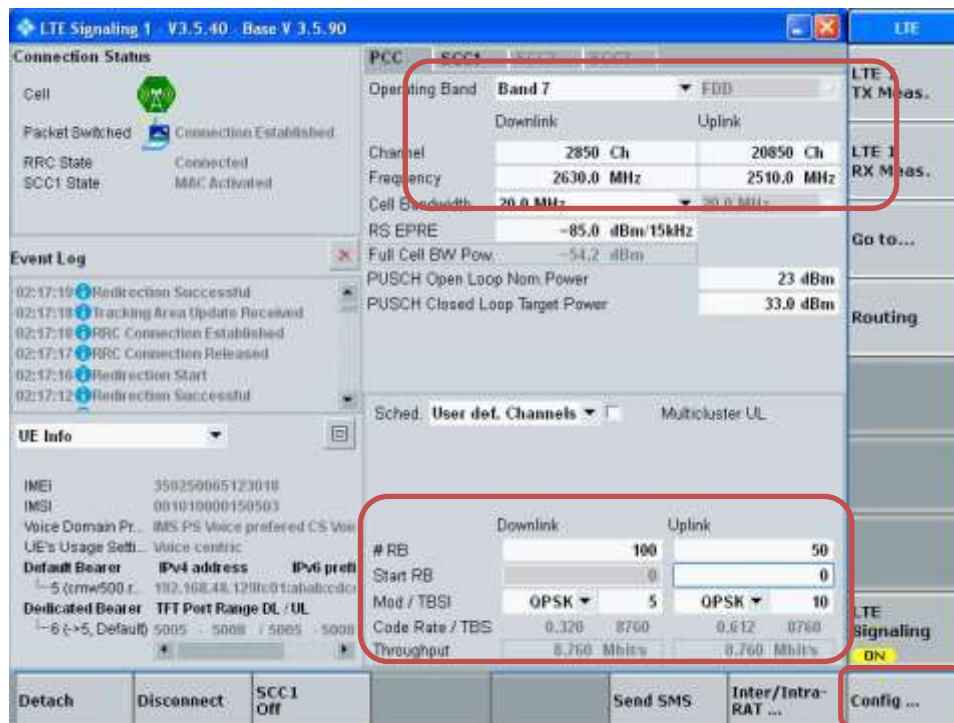
For the UE maximum output power modified by MPR, the power limits specified in subclause 6.2.5A apply.

LTE Carrier Aggregation Test Signal Set-up Procedure

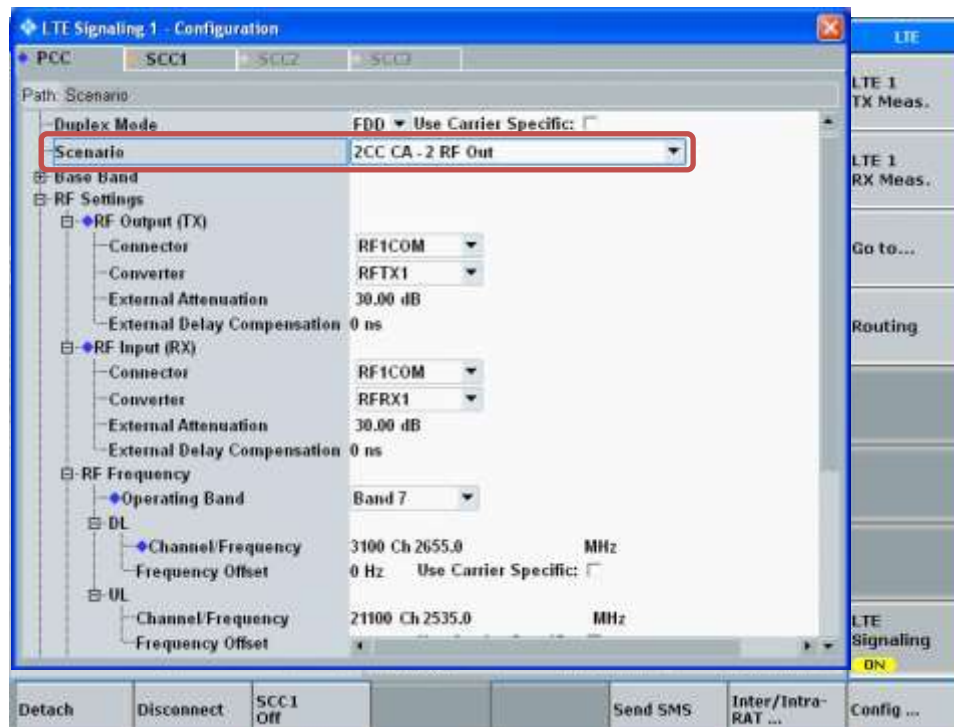
(Use normal LTE set-up procedure in addition with the following steps)

Set to CMW-500 with following parameters:

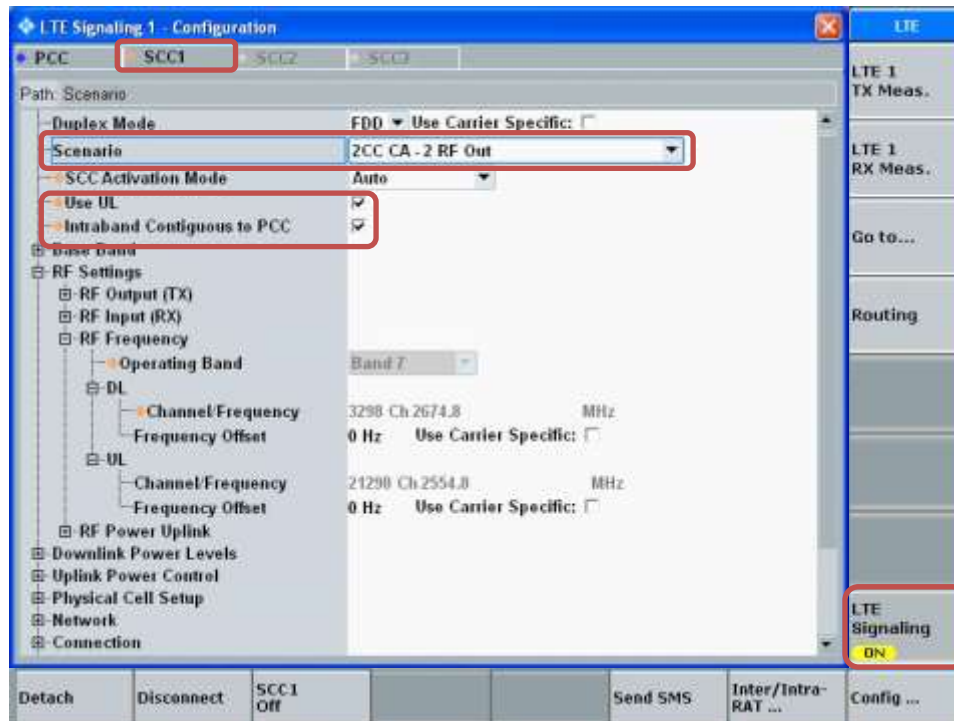
- PCC tab:
 - Select the testing Operating Band, Channel, Frequency, Cell Bandwidth, Uplink RBs
- Go to “Config...”



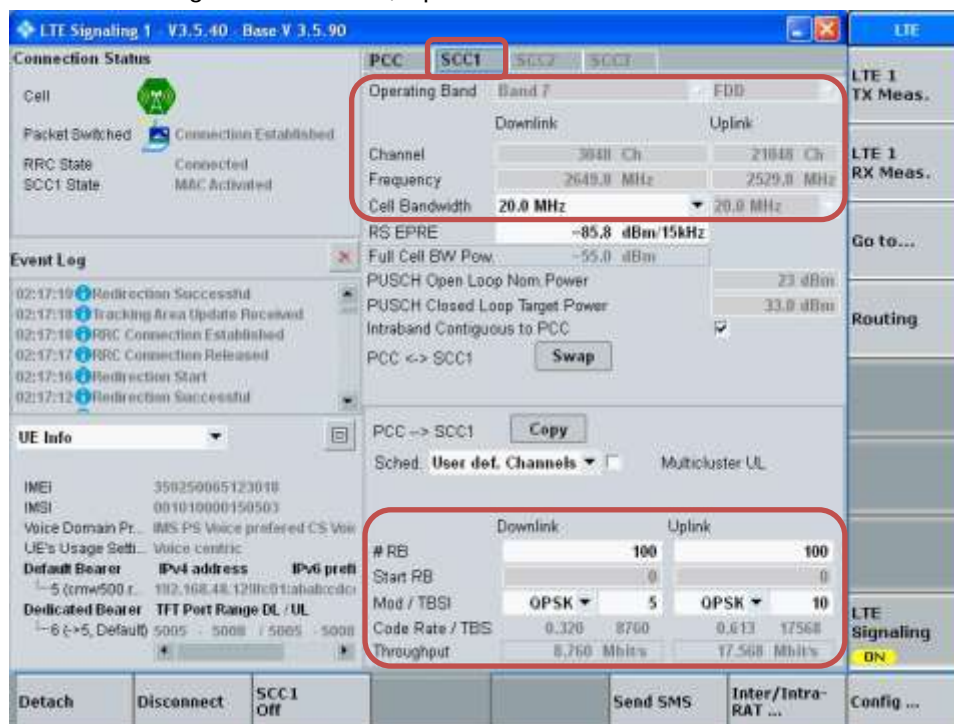
- Go to “Scenario”
- Set to “2CC CA – 2 RF Out”



- 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

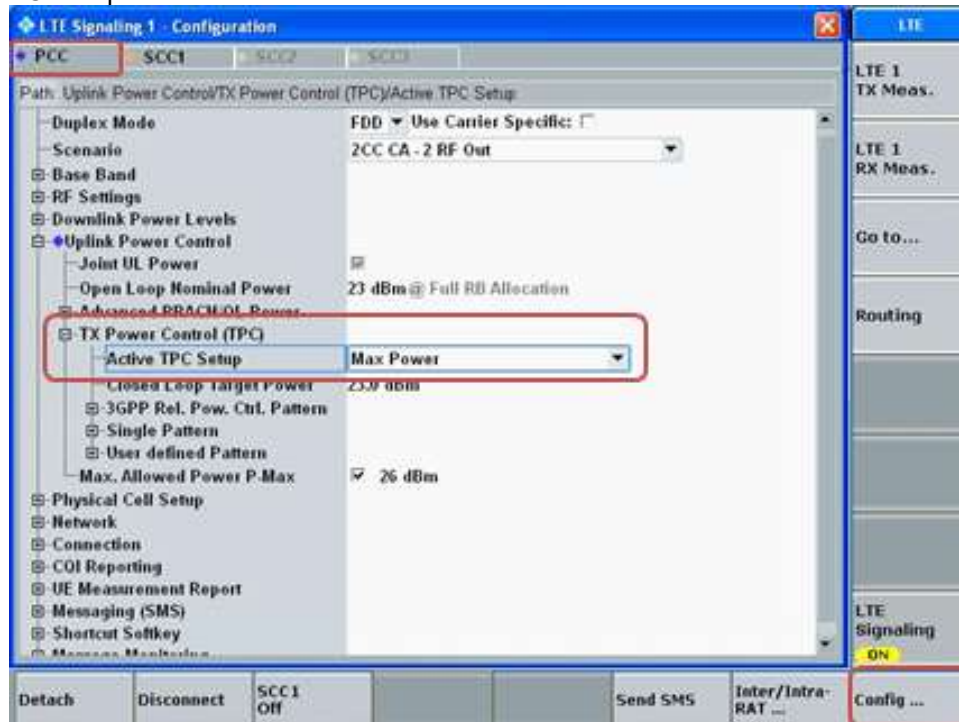


- Select “SCC1” tab
 - Select the testing Cell Bandwidth, Uplink RBs

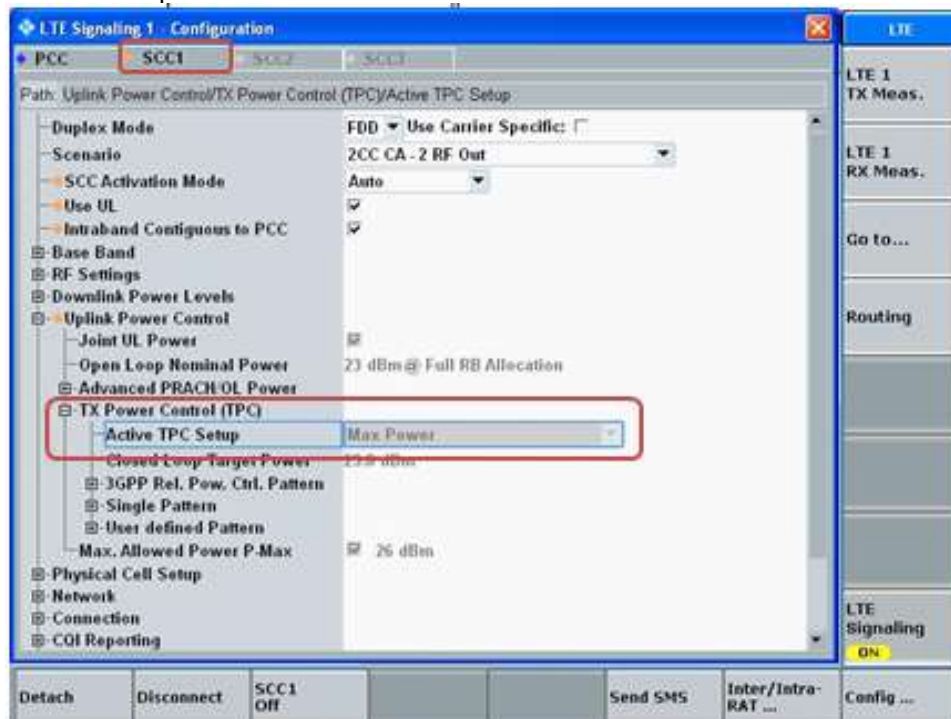


Max Power Setting

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

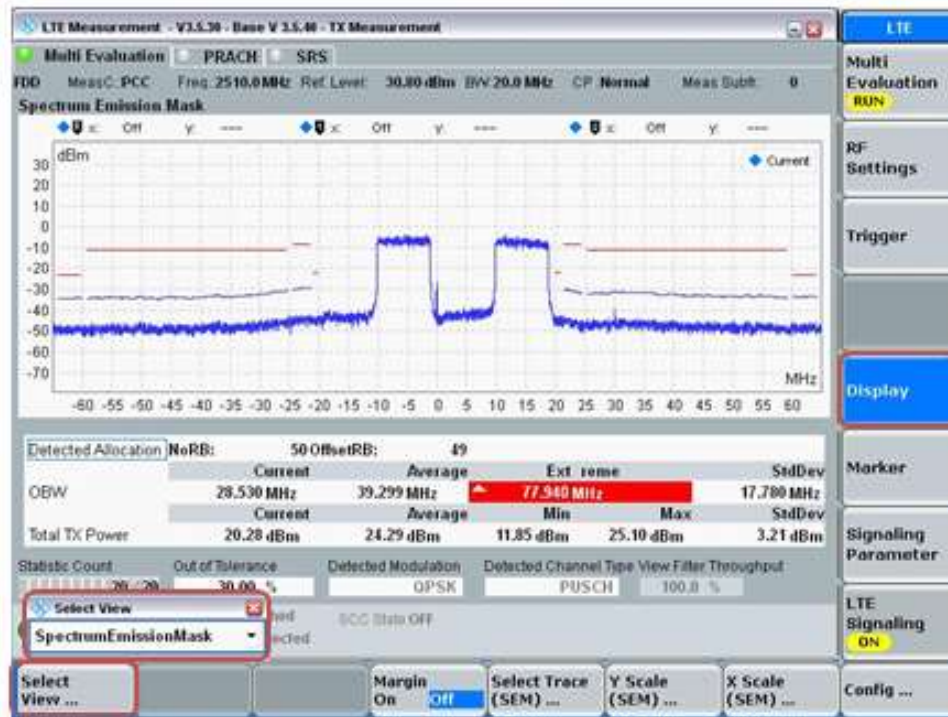


- Select SCC1 tab
- Verify that “Active TPC Setup” is set to “Max Power”



View TX Power

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



LTE Up-Link Carrier Aggregation**Maximum Output Power (Tune-up Limit) for LTE UL 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 (ANT1, ANT2, ANT3, and ANT4) at with QPSK modulation based on the worst-case standalone SAR. The tune-up limits are provided in table below.

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

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

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

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

SAR measurement is not required for the 16QAM and 64QAM. 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

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_7C	QPSK	25.00	20.20	19.50	20.00	24.50	21.50	18.70	19.50
CA_41C (PC3)	QPSK	25.00	23.50	22.00	22.20	24.50	23.70	21.70	22.50

LTE CA 7C Measured Results

RF Exposure Conditions	Antenna	E-UTRA CA configuration (BCS)	Modulation	Bands		UL											
				PCC	SCC	PCC				SCC				Standalone (dBm)	PCC+SCC		
				1st	2nd	BW	RB	Offset	Freq	BW	RB	Offset	Freq		Tune-Up Limit	CA Power (Total PCC+SCC)	Delta
Body	ANT 1	CA_7C	QPSK	7C	7C	20	1	99	2510	20	1	0	2529.8	20.0	20.2	19.8	-0.2
Body	ANT 1	CA_7C	QPSK	7C	7C	20	1	99	2525.1	20	1	0	2544.9	20.0	20.2	19.9	-0.1
Body	ANT 1	CA_7C	QPSK	7C	7C	20	1	99	2540.2	20	1	0	2560	20.0	20.2	19.8	-0.2
Head	ANT 2	CA_7C	QPSK	7C	7C	20	1	99	2510	20	1	0	2529.8	19.2	19.5	19.0	-0.2
Head	ANT 2	CA_7C	QPSK	7C	7C	20	1	99	2525.1	20	1	0	2544.9	19.3	19.5	19.1	-0.2
Head	ANT 2	CA_7C	QPSK	7C	7C	20	1	99	2540.2	20	1	0	2560	19.3	19.5	19.2	-0.1
Body	ANT 3	CA_7C	QPSK	7C	7C	20	1	99	2510	20	1	0	2529.8	21.4	21.5	21.0	-0.4
Body	ANT 3	CA_7C	QPSK	7C	7C	20	1	99	2525.1	20	1	0	2544.9	21.4	21.5	20.9	-0.5
Body	ANT 3	CA_7C	QPSK	7C	7C	20	1	99	2540.2	20	1	0	2560	21.3	21.5	20.9	-0.4
Head	ANT 4	CA_7C	QPSK	7C	7C	20	1	99	2510	20	1	0	2529.8	18.6	18.7	18.3	-0.3
Head	ANT 4	CA_7C	QPSK	7C	7C	20	1	99	2525.1	20	1	0	2544.9	18.6	18.7	18.4	-0.2
Head	ANT 4	CA_7C	QPSK	7C	7C	20	1	99	2540.2	20	1	0	2560	18.5	18.7	18.4	-0.1

Note(s):

Standalone power is reference from Sec. 9.4 - LTE B7 power.

LTE CA 41C (PC3) Measured Results

RF Exposure Conditions	Antenna	E-UTRA CA configuration (BCS)	Modulation	Bands		UL											
				PCC	SCC	PCC				SCC				Standalone (dBm)	PCC+SCC		
				1st	2nd	BW	RB	Offset	Freq	BW	RB	Offset	Freq		Tune-Up Limit	CA Power (Total PCC+SCC)	Delta
Body	ANT 1	CA_41C	QPSK	41C	41C	20	1	99	2506	20	1	0	2525.8	23.4	23.5	23.20	-0.2
Body	ANT 1	CA_41C	QPSK	41C	41C	20	1	99	2539.6	20	1	0	2559.4	23.4	23.5	23.10	-0.3
Body	ANT 1	CA_41C	QPSK	41C	41C	20	1	99	2583.1	20	1	0	2602.9	23.4	23.5	23.10	-0.3
Body	ANT 1	CA_41C	QPSK	41C	41C	20	1	99	2626.6	20	1	0	2646.4	23.5	23.5	23.10	-0.4
Body	ANT 1	CA_41C	QPSK	41C	41C	20	1	99	2660.2	20	1	0	2680	23.4	23.5	23.00	-0.4
Head	ANT 2	CA_41C	QPSK	41C	41C	20	1	99	2506	20	1	0	2525.8	21.8	22.0	21.50	-0.3
Head	ANT 2	CA_41C	QPSK	41C	41C	20	1	99	2539.6	20	1	0	2559.4	21.8	22.0	21.50	-0.3
Head	ANT 2	CA_41C	QPSK	41C	41C	20	1	99	2583.1	20	1	0	2602.9	21.8	22.0	21.60	-0.2
Head	ANT 2	CA_41C	QPSK	41C	41C	20	1	99	2626.6	20	1	0	2646.4	21.8	22.0	21.60	-0.2
Head	ANT 2	CA_41C	QPSK	41C	41C	20	1	99	2660.2	20	1	0	2680	21.8	22.0	21.50	-0.3
Body	ANT 3	CA_41C	QPSK	41C	41C	20	1	99	2506	20	1	0	2525.8	23.6	23.7	23.60	0.0
Body	ANT 3	CA_41C	QPSK	41C	41C	20	1	99	2539.6	20	1	0	2559.4	23.7	23.7	23.70	0.0
Body	ANT 3	CA_41C	QPSK	41C	41C	20	1	99	2583.1	20	1	0	2602.9	23.7	23.7	23.60	-0.1
Body	ANT 3	CA_41C	QPSK	41C	41C	20	1	99	2626.6	20	1	0	2646.4	23.7	23.7	23.60	-0.1
Body	ANT 3	CA_41C	QPSK	41C	41C	20	1	99	2660.2	20	1	0	2680	23.6	23.7	23.60	0.0
Head	ANT 4	CA_41C	QPSK	41C	41C	20	1	99	2506	20	1	0	2525.8	21.6	21.7	21.20	-0.4
Head	ANT 4	CA_41C	QPSK	41C	41C	20	1	99	2539.6	20	1	0	2559.4	21.6	21.7	21.30	-0.3
Head	ANT 4	CA_41C	QPSK	41C	41C	20	1	99	2583.1	20	1	0	2602.9	21.5	21.7	21.30	-0.2
Head	ANT 4	CA_41C	QPSK	41C	41C	20	1	99	2626.6	20	1	0	2646.4	21.6	21.7	21.30	-0.3
Head	ANT 4	CA_41C	QPSK	41C	41C	20	1	99	2660.2	20	1	0	2680	21.6	21.7	21.40	-0.2

Note(s):

Standalone power is reference from Sec. 9.4 - LTE B41 power.

LTE Down-Link Carrier Aggregation

The tables below show the supported frequency bands of the device for DL Inter-band and DL Intra-band combinations.

Power measurements were performed on the channel with the highest maximum output power from Tune-up Procedure on ANT1 antenna.

When carrier aggregation is limited to downlink only, uplink maximum output power (single carrier) is measured for the supported combinations of downlink carrier aggregation listed in the table below. In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs (far right most configuration highlighted in the table below).

Index	2CC	Restriction	Completely Covered by Measurement Superset	Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset
Intra-Band Contiguous				Inter-Band				Inter-Band			
2CC # 1	CA_2C		No	3CC # 1	CA_2A-2A-4A-5A		No	4CC # 1	CA_2A-4A-5A-30A		No
2CC # 2	CA_5B		4CC #5	3CC # 2	CA_2A-2A-4A-12A		No	4CC # 2	CA_2A-4A-12A-30A		No
2CC # 3	CA_7B		No	3CC # 3	CA_2A-2A-5A-30A		No	4CC # 3	CA_2A-4A-29A-30A	B29 SCC Only	No
2CC # 4	CA_7C		No	3CC # 4	CA_2A-2A-5A-66A		No	4CC # 4	CA_2A-5A-30A-66A		No
2CC # 5	CA_12B		3CC #20	3CC # 5	CA_2A-2A-5A-66B		No	4CC # 5	CA_2A-5B-30A-66A		No
2CC # 6	CA_38C		No	3CC # 6	CA_2A-2A-5A-66C		No	4CC # 6	CA_2A-12A-30A-66A		No
2CC # 7	CA_41C		No	3CC # 7	CA_2A-2A-12A-30A		No	4CC # 7	CA_2A-14A-30A-66A		No
2CC # 8	CA_41D		No	3CC # 8	CA_2A-2A-12A-66A		No	4CC # 8	CA_2A-29A-30A-66A	B29 SCC Only	No
2CC # 9	CA_41E		No	3CC # 9	CA_2A-2A-13A-66A		No				
2CC # 10	CA_46C	B46 SCC Only	3CC #35	3CC # 10	CA_2A-2A-14A-66A		No				
2CC # 11	CA_46D	B46 SCC Only	3CC #37	3CC # 11	CA_2A-2A-29A-30A	B29 SCC Only	No				
2CC # 12	CA_46E	B46 SCC Only	B46 DL Only	3CC # 12	CA_2A-2A-30A-66A		No				
2CC # 13	CA_66B		3CC #5	3CC # 13	CA_2A-4A-4A-5A		No				
2CC # 14	CA_66C		3CC #6	3CC # 14	CA_2A-4A-4A-12A		No				
2CC # 15	CA_66D		No	3CC # 15	CA_2A-4A-5A		4CC #1				
Intra-Band Non-Contiguous				3CC # 16	CA_2A-4A-5B		No				
2CC # 16	CA_2A-2A		3CC #1	3CC # 17	CA_2A-4A-5B		No				
2CC # 17	CA_4A-4A		3CC #13	3CC # 18	CA_2A-4A-12A		4CC #2				
2CC # 18	CA_7A-7A		No	3CC # 19	CA_2A-4A-12A		4CC #2				
2CC # 19	CA_25A-25A		No	3CC # 20	CA_2A-4A-12B		No				
2CC # 20	CA_41A-41A		No	3CC # 21	CA_2A-4A-12B		No				
2CC # 21	CA_41A-41C		No	3CC # 22	CA_2A-4A-13A		No				
2CC # 22	CA_41A-41C		No	3CC # 23	CA_2A-4A-13A		No				
2CC # 23	CA_41A-41D		No	3CC # 24	CA_2A-4A-29A	B29 SCC Only	4CC #2				
2CC # 24	CA_41C-41C		No	3CC # 25	CA_2A-4A-30A		4CC #2				
2CC # 25	CA_41C-41D		No	3CC # 26	CA_2A-5A-30A		4CC #1				
2CC # 26	CA_46A-46A	B46 SCC Only	B46 DL Only	3CC # 27	CA_2A-5A-66A		4CC #4				
2CC # 27	CA_46A-46C	B46 SCC Only	B46 DL Only	3CC # 28	CA_2A-5A-66A		4CC #4				
2CC # 28	CA_46A-46D	B46 SCC Only	B46 DL Only	3CC # 29	CA_2A-5A-66B		No				
2CC # 29	CA_66A-66A		3CC #38	3CC # 30	CA_2A-5A-66C		No				
2CC # 30	CA_66A-66B		No	3CC # 31	CA_2A-46A-66A	B46 SCC Only	No				
2CC # 31	CA_66A-66C		No	3CC # 32	CA_2A-46A-66A	B46 SCC Only	No				
Inter-Band				3CC # 33	CA_2A-46C-66A	B46 SCC Only	No				
2CC # 32	CA_2A-2A-4A		3CC #1	3CC # 34	CA_2A-46C-66A	B46 SCC Only	No				
2CC # 33	CA_2A-2A-4A-4A		No	3CC # 35	CA_2A-46D-66A	B46 SCC Only	No				
2CC # 34	CA_2A-2A-5A		3CC #3	3CC # 36	CA_2A-5A-66A-66A		4CC #4				
2CC # 35	CA_2A-2A-12A		3CC #7	3CC # 37	CA_2A-5B-30A		4CC #5				
2CC # 36	CA_2A-2A-12B		No	3CC # 38	CA_2A-5B-66A		4CC #5				
2CC # 37	CA_2A-2A-13A		3CC #9	3CC # 39	CA_2A-5B-66A		4CC #5				
2CC # 38	CA_2A-2A-14A		3CC #10	3CC # 40	CA_2A-5B-66A-66A		4CC #5				
2CC # 39	CA_2A-2A-29A	B29 SCC Only	3CC #11	3CC # 41	CA_2A-5B-66C		No				
2CC # 40	CA_2A-2A-30A		3CC #12	3CC # 42	CA_2A-12A-30A		4CC #6				
2CC # 41	CA_2A-2A-46A	B46 SCC Only	No	3CC # 43	CA_2A-12A-66A		4CC #6				
2CC # 42	CA_2A-2A-46C	B46 SCC Only	No	3CC # 44	CA_2A-12A-66A		4CC #6				
2CC # 43	CA_2A-2A-46D	B46 SCC Only	No	3CC # 45	CA_2A-12A-66A-66A		4CC #6				
2CC # 44	CA_2A-2A-66A		3CC #4	3CC # 46	CA_2A-12A-66C		No				

2CC #	45	CA_2A-2A-66A-66A		No	3CC #	47	CA_2A-13A-46A	B46 SCC Only	No
2CC #	46	CA_2A-2A-66A-66B		No	3CC #	48	CA_2A-13A-46C	B46 SCC Only	No
2CC #	47	CA_2A-2A-66A-66C		No	3CC #	49	CA_2A-13A-46D	B46 SCC Only	No
2CC #	48	CA_2A-2A-66B		3CC #5	3CC #	50	CA_2A-13A-66A		No
2CC #	49	CA_2A-2A-66C		3CC #6	3CC #	51	CA_2A-13A-66A		No
2CC #	50	CA_2A-4A		3CC #1	3CC #	52	CA_2A-13A-66A-66A		No
2CC #	51	CA_2A-4A		3CC #1	3CC #	53	CA_2A-13A-66B		No
2CC #	52	CA_2A-4A-4A		3CC #13	3CC #	54	CA_2A-13A-66C		No
2CC #	53	CA_2A-5A		3CC #1	3CC #	55	CA_2A-14A-30A		4CC #7
2CC #	54	CA_2A-5B		3CC #16	3CC #	56	CA_2A-14A-66A		4CC #7
2CC #	55	CA_2A-12A		3CC #18	3CC #	57	CA_2A-14A-66A		4CC #7
2CC #	56	CA_2A-12B		3CC #20	3CC #	58	CA_2A-14A-66A-66A		4CC #7
2CC #	57	CA_2A-13A		3CC #22	3CC #	59	CA_2A-29A-30A	B29 SCC Only	4CC #8
2CC #	58	CA_2A-14A		3CC #10	3CC #	60	CA_2A-29A-66A	B29 SCC Only	4CC #8
2CC #	59	CA_2A-17A		No	3CC #	61	CA_2A-29A-66A	B29 SCC Only	4CC #8
2CC #	60	CA_2A-29A	B29 SCC Only	3CC #11	3CC #	62	CA_2A-30A-66A		4CC #8
2CC #	61	CA_2A-30A		3CC #12	3CC #	63	CA_2A-30A-66A		4CC #8
2CC #	62	CA_2A-46A		3CC #33	3CC #	64	CA_2A-30A-66A		4CC #8
2CC #	63	CA_2A-46A-46A	B46 SCC Only	No	3CC #	65	CA_4A-4A-5A-30A		4CC #1
2CC #	64	CA_2A-46A-46C	B46 SCC Only	No	3CC #	66	CA_4A-4A-12A-30A		4CC #2
2CC #	65	CA_2A-46A-46D	B46 SCC Only	No	3CC #	67	CA_4A-5A-30A		4CC #1
2CC #	66	CA_2A-46C	B46 SCC Only	2CC #66	3CC #	68	CA_4A-7A-12A		No
2CC #	67	CA_2A-46D	B46 SCC Only	2CC #67	3CC #	69	CA_4A-12A-30A		4CC #2
2CC #	68	CA_2A-46E	B46 SCC Only	No	3CC #	70	CA_4A-29A-30A	B29 SCC Only	4CC #2
2CC #	69	CA_2A-66A		3CC #52	3CC #	71	CA_5A-30A-66A		No
2CC #	70	CA_2A-66B		3CC #55	3CC #	72	CA_5A-30A-66A-66A		No
2CC #	71	CA_2A-66B		3CC #55	3CC #	73	CA_5B-30A-66A		No
2CC #	72	CA_2A-66C		3CC #56	3CC #	74	CA_5B-30A-66A-66A		No
2CC #	73	CA_2A-66C		3CC #56	3CC #	75	CA_12A-30A-66A		4CC #6
2CC #	74	CA_2A-66A-66A		3CC #38	3CC #	76	CA_12A-30A-66A-66A		4CC #6
2CC #	75	CA_2A-66A-66B		No	3CC #	77	CA_13A-46A-66A	B46 SCC Only	No
2CC #	76	CA_2A-66A-66C		No	3CC #	78	CA_13A-46C-66A	B46 SCC Only	No
2CC #	77	CA_2C-5A		No	3CC #	79	CA_13A-46D-66A	B46 SCC Only	No
2CC #	78	CA_2C-12A		No	3CC #	80	CA_14A-30A-66A		4CC #7
2CC #	79	CA_2C-29A	B29 SCC Only	No	3CC #	81	CA_14A-30A-66A-66A		4CC #7
2CC #	80	CA_2C-30A		No	3CC #	82	CA_29A-30A-66A	B29 SCC Only	4CC #8
2CC #	81	CA_2C-30A		No					
2CC #	82	CA_2C-66A		No					
2CC #	83	CA_2C-66A		No					
2CC #	84	CA_4A-4A-5A		3CC #13					
2CC #	85	CA_4A-4A-5B		No					
2CC #	86	CA_4A-4A-7A		No					
2CC #	87	CA_4A-4A-12A		3CC #14					
2CC #	88	CA_4A-4A-12B		No					
2CC #	89	CA_4A-4A-13A		No					
2CC #	90	CA_4A-4A-29A	B29 SCC Only	No					
2CC #	91	CA_4A-4A-30A		3CC #69					
2CC #	92	CA_4A-5A		3CC #1					
2CC #	93	CA_4A-5B		3CC #16					
2CC #	94	CA_4A-7A		2CC #100					
2CC #	95	CA_4A-7A		2CC #100					
2CC #	96	CA_4A-7A-7A		No					
2CC #	97	CA_4A-12A		3CC #2					
2CC #	98	CA_4A-12B		3CC #20					
2CC #	99	CA_4A-13A		3CC #22					
2CC #	100	CA_4A-17A		No					
2CC #	101	CA_4A-29A	B29 SCC Only	3CC #24					
2CC #	102	CA_4A-30A		3CC #25					
2CC #	103	CA_4A-30A		3CC #25					
2CC #	104	CA_4A-46A	B46 SCC Only	No					
2CC #	105	CA_4A-46A-46A	B46 SCC Only	No					

2CC #	106	CA_4A-46A-46C	B46 SCC Only	No
2CC #	107	CA_4A-46A-46D	B46 SCC Only	No
2CC #	108	CA_4A-46C	B46 SCC Only	No
2CC #	109	CA_4A-46D	B46 SCC Only	No
2CC #	110	CA_5A-7A		No
2CC #	111	CA_5A-25A		No
2CC #	112	CA_5A-30A		3CC #3
2CC #	113	CA_5A-41A		No
2CC #	114	CA_5A-46A	B46 SCC Only	No
2CC #	115	CA_5A-46C	B46 SCC Only	No
2CC #	116	CA_5A-46D	B46 SCC Only	No
2CC #	117	CA_5A-66A		3CC #4
2CC #	118	CA_5A-66B		3CC #5
2CC #	119	CA_5A-66C		3CC #6
2CC #	120	CA_5A-66D		No
2CC #	121	CA_5A-66A-66A		3CC #27
2CC #	122	CA_5A-66A-66B		No
2CC #	123	CA_5A-66A-66C		No
2CC #	124	CA_5B-30A		3CC #39
2CC #	125	CA_5B-66A		3CC #40
2CC #	126	CA_5B-66A-66A		3CC #42
2CC #	127	CA_5B-66C		3CC #43
2CC #	128	CA_7A-12A		No
2CC #	129	CA_7A-46A	B46 SCC Only	No
2CC #	130	CA_7A-46C	B46 SCC Only	No
2CC #	131	CA_7A-46D	B46 SCC Only	No
2CC #	132	CA_7A-66A		No
2CC #	133	CA_7A-66A		No
2CC #	134	CA_12A-30A		3CC #7
2CC #	135	CA_12A-66A		3CC #8
2CC #	136	CA_12A-66A-66A		3CC #80
2CC #	137	CA_12A-66C		3CC #48
2CC #	138	CA_13A-46A	B46 SCC Only	3CC #49
2CC #	139	CA_13A-46C	B46 SCC Only	3CC #50
2CC #	140	CA_13A-46D	B46 SCC Only	3CC #51
2CC #	141	CA_13A-46E	B46 SCC Only	No
2CC #	142	CA_13A-66A		3CC #54
2CC #	143	CA_13A-66A-66A		3CC #54
2CC #	144	CA_13A-66A-66B		No
2CC #	145	CA_13A-66A-66C		No
2CC #	146	CA_13A-66B		3CC #55
2CC #	147	CA_13A-66C		3CC #56
2CC #	148	CA_14A-30A		3CC #57
2CC #	149	CA_14A-66A		3CC #58
2CC #	150	CA_14A-66A-66A		3CC #60
2CC #	151	CA_25A-26A		No
2CC #	152	CA_25A-25A-26A		No
2CC #	153	CA_29A-30A	B29 SCC Only	3CC #61
2CC #	154	CA_29A-66A	B29 SCC Only	3CC #62
2CC #	155	CA_29A-66A-66A	B29 SCC Only	No
2CC #	156	CA_30A-66A		3CC #64
2CC #	157	CA_30A-66A		3CC #64
2CC #	158	CA_30A-66A-66A		3CC #76
2CC #	159	CA_46A-46A-66A	B46 SCC Only	B46 DL Only
2CC #	160	CA_46A-46C-66A	B46 SCC Only	B46 DL Only
2CC #	161	CA_46A-46D-66A	B46 SCC Only	B46 DL Only
2CC #	162	CA_46A-66A	B46 SCC Only	B46 DL Only
2CC #	163	CA_46A-66A-66A	B46 SCC Only	B46 DL Only
2CC #	164	CA_46C-66A	B46 SCC Only	B46 DL Only
2CC #	165	CA_46C-66A-66A	B46 SCC Only	B46 DL Only
2CC #	166	CA_46D-66A	B46 SCC Only	B46 DL Only

2CC #	167	CA_46D-66A-66A	B46 SCC Only	B46 DL Only
2CC #	168	CA_46E-66A	B46 SCC Only	B46 DL Only

In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the CA configuration with the largest aggregated DL CA BW in each frequency band, independently for contiguous and non-contiguous CA; however, if the same frequency band is used for both contiguous and non-contiguous CA, power measurement was performed using the configuration with the largest aggregated BW and maximum output power among contiguous and non-contiguous CA.

DL Intra-Band Contiguous Measured Results

E-UTRA CA configuration (BCS)	3GPP Rel. #	CC1 (UL)					CC2 (DL)			CC3 (DL)			CC4 (DL)			CC5 (DL)			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
		Mode	BW (MHz)	Channel	Freq (MHz)	RB, Offset	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)					
CA_2C	12	QPSK	20	18801	1870.1	1,49	20	999	1969.9										40	0	25.16	25.02	-0.14
CA_7B	13	QPSK	15	21076	2532.6	1,49	5	3169	2661.9										20	0	25.32	25.21	-0.11
CA_7C	13	QPSK	20	21001	2525.1	1,49	20	3199	2664.9										40	0	25.23	25.16	-0.07
CA_38C	11	QPSK	20	37901	2585.1	1,49	20	38099	2604.9										40	0	25.27	25.24	-0.03
CA_41C	13	QPSK	20	40521	2583.1	1,49	20	40719	2602.9										40	0	25.26	25.20	-0.06
CA_41D	12	QPSK	20	40422	2573.2	1,49	20	40620	2593	20	40818	2612.8							60	0	25.19	25.14	-0.05
CA_41E	14	QPSK	20	40320	2563	1,49	20	40520	2583	20	40720	2603	20	40920	2623				80	0	25.35	25.31	-0.04
CA_46E	14	QPSK	20	50490	5520	1,49	20	50688	5539.8	20	50889	5559.9	20	51090	5580				80	0	DL only	DL only	DL only
CA_66D	14	QPSK	20	132224	1735.2	1,49	20	66886	2155	20	67084	2174.8							60	0	25.26	25.22	-0.04

DL Intra-Band Non-Contiguous Measured Results

E-UTRA CA configuration	3GPP Rel. #	CC1 (UL)					CC2 (DL)			CC3 (DL)			CC4 (DL)			CC5 (DL)			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
		Mode	BW (MHz)	Channel	Freq (MHz)	RB, Offset	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)					
CA_7A-7A	12	QPSK	20	20850	2510	1,49	20	3350	2680										40	0	25.13	25.09	-0.04
CA_25A-25A	12	QPSK	20	26140	1860	1,49	20	8590	1985										40	0	25.26	25.21	-0.05
CA_41A-41A	12	QPSK	20	39750	2506	1,49	20	41490	2680										40	0	25.33	25.30	-0.03
CA_41A-41C	12	QPSK	20	39750	2506	1,49	20	41292	2660.2	20	41490	2680							60	0	25.33	25.28	-0.05
CA_41A-41D	13	QPSK	20	39750	2506	1,49	20	41094	2640.4	20	41292	2660.2	20	41490	2680				80	0	25.33	25.29	-0.04
CA_41C-41C	13	QPSK	20	39750	2506	1,49	20	39948	2525.8	20	41292	2660.2	20	41490	2680				80	0	25.33	25.27	-0.06
CA_41C-41D	14	QPSK	20	40521	2583.1	1,49	20	40719	2602.9	20	39750	2506	20	39948	2525.8	20	40146	2545.6	100	0	25.32	25.25	-0.07
CA_66A-66B	14	QPSK	20	132072	1720	1,49	10	67187	2185.1	10	67286	2195							40	0	25.17	25.15	-0.02
CA_66A-66C	14	QPSK	20	132072	1720	1,49	20	67038	2170.2	20	67236	2190							60	0	25.17	25.14	-0.03

DL Inter-Band (2 Bands) Measured Results

E-UTRA CA configuration	3GPP Rel. #	CC1 (UL)					CC2 (DL)					CC3 (DL)					CC4 (DL)					CC5 (DL)					Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
		Mode	BW (MHz)	Channel	Freq (MHz)	RB,Offset	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)										
CA_2A-2A-4A-4A	13	QPSK	20	18700	1860	1,49	20	1100	1980	20	2050	2120	20	2300	2145							80	0	25.35	25.22	-0.13					
CA_2A-2A-12B	13	QPSK	20	18700	1860	1,49	20	1100	1980	5	5048	732.8	10	5120	740							55	0	25.35	25.27	-0.08					
CA_2A-2A-46A	15	QPSK	20	18700	1860	1,49	20	1100	1980	20	50690	5540										60	0	25.35	25.25	-0.10					
CA_2A-2A-46C	15	QPSK	20	18700	1860	1,49	20	1100	1980	20	50692	5540.2	20	50890	5560							80	0	25.35	25.24	-0.11					
CA_2A-2A-46D	15	QPSK	20	18700	1860	1,49	20	1100	1980	20	50492	5520.2	20	50690	5540	20	50888	5559.8				100	0	25.35	25.28	-0.07					
CA_2A-2A-66A-66A	14	QPSK	20	18700	1860	1,49	20	1100	1980	20	66536	2120	20	67236	2190							80	0	25.35	25.26	-0.09					
CA_2A-2A-66A-66B	14	QPSK	20	18700	1860	1,49	20	1100	1980	20	66536	2120	10	67187	2185.1	10	67286	2195				80	0	25.35	25.21	-0.14					
CA_2A-2A-66A-66C	14	QPSK	20	18700	1860	1,49	20	1100	1980	20	66536	2120	20	67038	2170.2	20	67236	2190				100	0	25.35	25.19	-0.16					
CA_2A-17A	11	QPSK	20	18900	1880	1,49	10	5790	740													30	0	25.27	25.19	-0.08					
CA_2A-46A-46A	14	QPSK	20	18900	1880	1,49	20	46890	5160	20	54340	5905										60	0	25.27	25.15	-0.12					
CA_2A-46A-46C	14	QPSK	20	18900	1880	1,49	20	50690	5540	20	50692	5540.2	20	50890	5560							80	0	25.27	25.16	-0.11					
CA_2A-46A-46D	14	QPSK	20	18900	1880	1,49	20	50690	5540	20	50492	5520.2	20	50690	5540	20	50888	5559.8				100	0	25.27	25.17	-0.10					
CA_2A-46E	15	QPSK	20	18900	1880	1,49	20	50490	5520	20	50688	5539.8	20	50889	5559.9	20	51090	5580				100	0	25.27	25.20	-0.07					
CA_2A-66A-66B	14	QPSK	20	18900	1880	1,49	20	66536	2120	10	67187	2185.1	10	67286	2195							60	0	25.27	25.21	-0.06					
CA_2A-66A-66C	14	QPSK	20	18900	1880	1,49	20	66536	2120	20	67038	2170.2	20	67236	2190							80	0	25.27	25.18	-0.09					
CA_2C-5A	13	QPSK	20	18801	1870.1	1,49	20	999	1969.9	10	2525	881.5										50	0	25.23	25.19	-0.04					
CA_2C-12A	13	QPSK	20	18801	1870.1	1,49	20	999	1969.9	10	5095	737.5										50	0	25.23	25.15	-0.08					
CA_2C-29A	12	QPSK	20	18801	1870.1	1,49	20	999	1969.9	10	9715	722.5										50	0	25.23	25.16	-0.07					
CA_2C-30A	13	QPSK	20	18801	1870.1	1,49	20	999	1969.9	10	9820	2355										50	0	25.23	25.13	-0.10					
CA_2C-30A	13	QPSK	20	18801	1870.1	1,49	20	999	1969.9	10	9820	2355										50	0	25.23	25.10	-0.13					
CA_2C-66A	15	QPSK	20	18801	1870.1	1,49	20	999	1969.9	20	66786	2145										60	0	25.23	25.11	-0.12					
CA_2C-66A	15	QPSK	20	18801	1870.1	1,49	20	999	1969.9	20	66786	2145										60	0	25.23	25.11	-0.12					
CA_4A-4A-5B	14	QPSK	20	20050	1720	1,49	20	2300	2145	5	2510	880	3	2549	883.9							48	0	25.21	24.97	-0.24					
CA_4A-4A-7A	12	QPSK	20	20050	1720	1,49	20	2300	2145	20	3100	2655										60	0	25.21	25.10	-0.11					
CA_4A-4A-12B	14	QPSK	20	20050	1720	1,49	20	2300	2145	5	5048	732.8	10	5120	740							55	0	25.21	25.09	-0.12					
CA_4A-4A-13A	12	QPSK	20	20050	1720	1,49	20	2300	2145	10	5230	751										50	0	25.21	25.05	-0.16					
CA_4A-4A-29A	13	QPSK	20	20050	1720	1,49	20	2300	2145	10	9715	722.5										50	0	25.21	25.08	-0.13					
CA_4A-7A-7A	12	QPSK	20	20175	1732.5	1,49	20	2850	2630	20	3350	2680										60	0	25.16	25.05	-0.11					
CA_4A-17A	11	QPSK	20	20175	1732.5	1,49	10	5790	740													30	0	25.16	24.98	-0.18					
CA_4A-46A	13	QPSK	20	20175	1732.5	1,49	20	50690	5540													40	0	25.16	24.95	-0.21					
CA_4A-46A-46A	14	QPSK	20	20175	1732.5	1,49	20	46890	5160	20	54340	5905										60	0	25.16	25.05	-0.11					
CA_4A-46A-46C	14	QPSK	20	20175	1732.5	1,49	20	50690	5540	20	50692	5540.2	20	50890	5560							80	0	25.16	25.07	-0.09					
CA_4A-46A-46D	14	QPSK	20	20175	1732.5	1,49	20	50690	5540	20	50492	5520.2	20	50690	5540	20	50888	5559.8				100	0	25.16	25.03	-0.13					
CA_4A-46C	14	QPSK	20	20175	1732.5	1,49	20	50692	5540.2	20	50890	5560										60	0	25.16	25.06	-0.10					
CA_4A-46D	14	QPSK	20	20175	1732.5	1,49	20	50492	5520.2	20	50690	5540	20	50888	5559.8							80	0	25.16	25.07	-0.09					
CA_5A-7A	12	QPSK	10	20525	836.5	1,24	20	3100	2655													30	0	25.32	25.22	-0.10					
CA_5A-25A	12	QPSK	10	20525	836.5	1,24	20	8365	1962.5													30	0	25.32	25.25	-0.07					
CA_5A-41A	14	QPSK	10	20525	836.5	1,24	20	40620	2593													30	0	25.32	25.26	-0.06					
CA_5A-46A	14	QPSK	10	20525	836.5	1,24	20	50690	5540													30	0	25.32	25.19	-0.13					
CA_5A-46C	14	QPSK	10	20525	836.5	1,24	20	50692	5540.2	20	50890	5560										50	0	25.32	25.21	-0.11					
CA_5A-46D	14	QPSK	10	20525	836.5	1,24	20	50492	5520.2	20	50690	5540	20	50888	5559.8							70	0	25.32	25.22	-0.10					
CA_5A-66D	14	QPSK	10	20525	836.5	1,24	20	66688	2135.2	20	66886	2155	20	67084	2174.8							70	0	25.32	25.25	-0.07					
CA_5A-66A-66B	14	QPSK	10	20525	836.5	1,24	20	66536	2120	10	67187	2185.1	10	67286	2195							50	0	25.32	25.28	-0.04					
CA_5A-66A-66C	14	QPSK	10	20525	836.5	1,24	20	66536	2120	20	67038	2170.2	20	67236	2190							70	0	25.32	25.29	-0.03					
CA_7A-12A	12	QPSK	20	21100	2535	1,49	10	5095	737.5													30	0	25.22	25.02	-0.20					
CA_7A-46A	13	QPSK	20	21100	2535	1,49	20	50690	5540													40	0	25.22	25.07	-0.15					
CA_7A-46C	14	QPSK	20	21100	2535	1,49	20	50692	5540.2	20	50890	5560										60	0	25.22	25.10	-0.12					
CA_7A-46D	14	QPSK	20	21100	2535	1,49	20	50492	5520.2	20	50690	5540	20	50888	5559.8							80	0	25.22	25.12	-0.10					
CA_7A-66A	14	QPSK	20	21100	2535	1,49	20	66786	2145													40	0	25.22	25.11	-0.11					
CA_7A-66A	14	QPSK	20	21100	2535	1,49	20	66786	2145													40	0	25.22	25.13	-0.09					
CA_13A-46E	14	QPSK	10	23230	782	1,24	20	50490	5520	20	50688	5539.8	20	50889																	

DL Inter-Band (4 Bands) Measured Results

E-UTRA CA configuration	3GPP Rel. #	CC1 (UL)					CC2 (DL)			CC3 (DL)			CC4 (DL)			CC5 (DL)			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta
		Mode	BW (MHz)	Channel	Freq (MHz)	RB Offset	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)					
CA_2A-2A-4A-5A	13	QPSK	20	18900	1880	1,49	20	1100	1980	20	2175	2132.5	10	2525	881.5				70	0	25.31	25.19	-0.12
CA_2A-2A-4A-12A	13	QPSK	20	18900	1880	1,49	20	1100	1980	20	2175	2132.5	10	5095	737.5				70	0	25.31	25.13	-0.18
CA_2A-2A-5A-30A	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	2525	881.5	10	9820	2355				60	0	25.31	25.11	-0.20
CA_2A-2A-5A-66A	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	2525	881.5	20	66786	2145				70	0	25.31	25.14	-0.17
CA_2A-2A-5A-66B	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	2525	881.5	10	66837	2150.1	10	66936	2160	70	0	25.31	25.21	-0.10
CA_2A-2A-5A-66C	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	2525	881.5	20	66787	2145.1	20	66985	2164.9	90	0	25.31	25.07	-0.24
CA_2A-2A-12A-30A	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	5095	737.5	10	9820	2355				60	0	25.31	25.09	-0.22
CA_2A-2A-12A-66A	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	5095	737.5	20	66786	2145				70	0	25.31	25.12	-0.19
CA_2A-2A-13A-66A	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	5230	751	20	66786	2145				70	0	25.31	25.10	-0.21
CA_2A-2A-14A-66A	15	QPSK	20	18900	1880	1,49	20	1100	1980	10	5330	763	20	66786	2145				70	0	25.31	25.11	-0.20
CA_2A-2A-29A-30A	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	9715	722.5	10	9820	2355				60	0	25.31	25.13	-0.18
CA_2A-2A-30A-66A	14	QPSK	20	18900	1880	1,49	20	1100	1980	10	9820	2355	20	66786	2145				70	0	25.31	25.16	-0.15
CA_2A-4A-4A-5A	13	QPSK	20	18900	1880	1,49	20	2050	2120	20	2300	2145	10	2525	881.5				70	0	25.31	25.11	-0.20
CA_2A-4A-4A-12A	13	QPSK	20	18900	1880	1,49	20	2050	2120	20	2300	2145	10	5095	737.5				70	0	25.31	25.10	-0.21
CA_2A-4A-5B	14	QPSK	20	18900	1880	1,49	20	2175	2132.5	10	2476	876.6	10	2575	886.5				60	0	25.31	25.13	-0.18
CA_2A-4A-12B	14	QPSK	20	18900	1880	1,49	20	2175	2132.5	5	5048	732.8	10	5120	740				55	0	25.31	25.15	-0.16
CA_2A-4A-13A	12	QPSK	20	18900	1880	1,49	20	2175	2132.5	10	5230	751							50	0	25.31	25.17	-0.14
CA_2A-5A-66B	14	QPSK	20	18900	1880	1,49	10	2525	881.5	10	66837	2150.1	10	66936	2160				50	0	25.31	25.13	-0.18
CA_2A-5A-66C	14	QPSK	20	18900	1880	1,49	10	2525	881.5	20	66787	2145.1	20	66985	2164.9				70	0	25.31	25.12	-0.19
CA_2A-5B-66C	14	QPSK	20	18900	1880	1,49	10	2476	876.6	10	2575	886.5	20	66787	2145.1	20	66985	2164.9	80	0	25.31	25.09	-0.22
CA_2A-12A-66C	14	QPSK	20	18900	1880	1,49	10	5095	737.5	20	66787	2145.1	20	66985	2164.9				70	0	25.31	25.14	-0.17
CA_2A-13A-46A	15	QPSK	20	18900	1880	1,49	10	5230	751	20	50690	5540							50	0	25.31	25.16	-0.15
CA_2A-13A-46C	15	QPSK	20	18900	1880	1,49	10	5230	751	20	50692	5540.2	20	50890	5560				70	0	25.31	25.12	-0.19
CA_2A-13A-46D	15	QPSK	20	18900	1880	1,49	10	5230	751	20	50492	5520.2	20	50690	5540	20	50888	5559.8	90	0	25.31	25.13	-0.18
CA_2A-13A-66A	14	QPSK	20	18900	1880	1,49	10	5230	751	20	66786	2145							50	0	25.31	25.15	-0.16
CA_2A-13A-66A	14	QPSK	20	18900	1880	1,49	10	5230	751	20	66786	2145							50	0	25.31	25.14	-0.17
CA_2A-13A-66A-66A	14	QPSK	20	18900	1880	1,49	10	5230	751	20	66536	2120	20	67236	2190				70	0	25.31	25.08	-0.23
CA_2A-13A-66B	14	QPSK	20	18900	1880	1,49	10	5230	751	10	66837	2150.1	10	66936	2160				50	0	25.31	25.11	-0.20
CA_2A-13A-66C	14	QPSK	20	18900	1880	1,49	10	5230	751	20	66787	2145.1	20	66985	2164.9				70	0	25.31	25.16	-0.15
CA_2A-46A-66A	14	QPSK	20	18900	1880	1,49	20	50690	5540	20	66786	2145							60	0	25.31	25.12	-0.19
CA_2A-46C-66A	14	QPSK	20	18900	1880	1,49	20	50692	5540.2	20	50890	5560	20	66786	2145				80	0	25.31	25.17	-0.14
CA_2A-46D-66A	14	QPSK	20	18900	1880	1,49	20	50492	5520.2	20	50690	5540	20	50888	5559.8	20	66786	2145	100	0	25.31	25.18	-0.13
CA_4A-7A-12A	12	QPSK	20	20175	1732.5	1,49	20	3100	2655	10	5095	737.5							50	0	25.26	25.19	-0.07
CA_5A-30A-66A	14	QPSK	10	20525	836.5	1,24	10	9820	2355	20	66786	2145							40	0	25.19	25.10	-0.09
CA_5A-30A-66A-66A	14	QPSK	10	20525	836.5	1,24	10	9820	2355	20	66536	2120	20	67236	2190				60	0	25.19	25.08	-0.11
CA_5B-30A-66A	14	QPSK	10	20476	831.6	1,24	10	2575	886.5	10	9820	2355	20	66786	2145				50	0	25.27	25.12	-0.15
CA_5B-30A-66A-66A	15	QPSK	10	20476	831.6	1,24	10	2575	886.5	10	9820	2355	20	66536	2120	20	67236	2190	70	0	25.27	25.15	-0.12
CA_13A-46A-66A	15	QPSK	10	23230	782	1,24	20	50690	5540	20	66786	2145							50	0	25.33	25.23	-0.10
CA_13A-46C-66A	15	QPSK	10	23230	782	1,24	20	50692	5540.2	20	50890	5560	20	66786	2145				70	0	25.33	25.25	-0.08
CA_13A-46D-66A	15	QPSK	10	23230	782	1,24	20	50492	5520.2	20	50690	5540	20	50888	5559.8	20	66786	2145	90	0	25.33	25.27	-0.06

E-UTRA CA configuration	3GPP Rel. #	CC1 (UL)					CC2 (DL)			CC3 (DL)			CC4 (DL)		CC5 (DL)			Aggregated BW	MPR	CA Inactive (dBm)	CA Active (dBm)	Delta	
		Mode	BW (MHz)	Channel	Freq (MHz)	RB,Offset	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel						Freq (MHz)
CA_2A-4A-5A-30A	13	QPSK	20	18900	1880	1,49	20	2175	2132.5	10	2525	881.5	10	9820	2355				60	0	25.30	25.26	-0.04
CA_2A-4A-12A-30A	13	QPSK	20	18900	1880	1,49	20	2175	2132.5	10	5095	737.5	10	9820	2355				60	0	25.30	25.21	-0.09
CA_2A-4A-29A-30A	13	QPSK	20	18900	1880	1,49	20	2175	2132.5	10	9715	722.5	10	9820	2355				60	0	25.30	25.23	-0.07
CA_2A-5A-30A-66A	14	QPSK	20	18900	1880	1,49	10	2525	881.5	10	9820	2355	20	66786	2145				60	0	25.30	25.24	-0.06
CA_2A-5B-30A-66A	14	QPSK	20	18900	1880	1,49	10	2476	876.6	10	2575	886.5	10	9820	2355	20	66786	2145	70	0	25.30	25.26	-0.04
CA_2A-12A-30A-66A	14	QPSK	20	18900	1880	1,49	10	5095	737.5	10	9820	2355	20	66786	2145				60	0	25.30	25.25	-0.05
CA_2A-14A-30A-66A	15	QPSK	20	18900	1880	1,49	10	5330	763	10	9820	2355	20	66786	2145				60	0	25.30	25.26	-0.04
CA_2A-29A-30A-66A	15	QPSK	20	18900	1880	1,49	10	9715	722.5	10	9820	2355	20	66786	2145				60	0	25.30	25.23	-0.07

9.6. Wi-Fi 2.4 GHz (DTS Band)

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

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.

According to KDB publication 248227 D01, simultaneous SAR provisions in KDB Publication 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.

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	$P_{\text{cell OFF}}$				$P_{\text{cell ON}}$			
			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	20.50	20.50	19.75	20.50	20.50	17.00	15.50	17.50
	2	2417	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	3	2422	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	4	2427	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	5	2432	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	6	2437	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	7	2442	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	8	2447	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	9	2452	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	10	2457	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	11	2462	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	12	2467	20.50	20.50	19.75	20.50	20.50	17.00	15.50	17.50
	13	2472	19.00	19.00	19.00	19.00	19.00	17.00	15.50	17.50
Mode	Channel	Frequency	$P_{\text{cell OFF}}$				$P_{\text{cell ON}}$			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11g/n OFDM (SISO)	1	2412	17.50	17.50	17.50	17.50	17.50	17.00	15.50	17.50
	2	2417	19.50	19.50	19.50	19.50	19.50	17.00	15.50	17.50
	3	2422	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	4	2427	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	5	2432	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	6	2437	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	7	2442	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	8	2447	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	9	2452	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	10	2457	19.50	19.50	19.50	19.50	19.50	17.00	15.50	17.50
	11	2462	17.50	17.50	17.50	17.50	17.50	17.00	15.50	17.50
	12	2467	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50
	13	2472	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Mode	Channel	Frequency	$P_{\text{cell OFF}}$				$P_{\text{cell ON}}$			
			ANT3		ANT4		ANT3		ANT4	
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
802.11n OFDM (MIMO)	1	2412	16.50	16.50	16.50	16.50	16.50	16.50	15.50	16.50
	2	2417	18.50	18.50	18.50	18.50	18.50	17.00	15.50	17.50
	3	2422	20.00	20.00	19.75	20.00	20.00	17.00	15.50	17.50
	4	2427	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	5	2432	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	6	2437	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	7	2442	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	8	2447	22.00	21.25	19.75	20.75	22.00	17.00	15.50	17.50
	9	2452	20.00	20.00	19.75	20.00	20.00	17.00	15.50	17.50
	10	2457	18.50	18.50	18.50	18.50	18.50	17.00	15.50	17.50
	11	2462	16.50	16.50	16.50	16.50	16.50	16.50	15.50	16.50
	12	2467	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50
	13	2472	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00

Wi-Fi 2.4 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.

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.

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	Data Rate	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)
Pcell OFF	ANT3	DSSS 802.11b	1 Mbps	1	2412	20.50	20.50	Yes	20.50	20.50	Yes
				2	2417	22.00	22.00		21.25	21.25	
				6	2437	22.00	22.00		21.25	21.25	
				11	2462	22.00	22.00		21.25	21.25	
				12	2467	20.50	20.50		20.50	20.50	
				13	2472	19.00	19.00		19.00	19.00	
	ANT4	DSSS 802.11b	1 Mbps	1	2412	19.75	19.75	Yes	20.50	20.50	Yes
				2	2417	19.75	19.75		20.75	20.75	
				6	2437	19.75	19.75		20.75	20.75	
				11	2462	19.75	19.75		20.75	20.75	
				12	2467	19.65	19.75		20.50	20.50	
				13	2472	19.65	19.00		19.00	19.00	
Power Mode	Antenna	Mode	Data Rate	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)
Pcell ON	ANT3	DSSS 802.11b	1 Mbps	1	2412	20.50	20.50	Yes	17.00	17.00	Yes
				2	2417	22.00	22.00		17.00	17.00	
				6	2437	22.00	22.00		17.00	17.00	
				11	2462	22.00	22.00		17.00	17.00	
				12	2467	20.50	20.50		16.90	17.00	
				13	2472	19.00	19.00		16.90	17.00	
	ANT4	DSSS 802.11b	1 Mbps	1	2412	15.50	15.50	Yes	17.50	17.50	Yes
				6	2437	15.50	15.50		17.50	17.50	
				11	2462	15.50	15.50		17.50	17.50	
				12	2467	15.49	15.50		17.49	17.50	
				13	2472	15.49	15.50		17.49	17.50	

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

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

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.

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 publication 248227 D01, simultaneous SAR provisions in KDB Publication 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.

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	18.00	19.00	16.25	19.00	12.75	17.50	12.00
		40	5200	21.00	18.00	21.00	16.25	21.00	12.75	17.50	12.00
		44	5220	21.00	18.00	21.00	16.25	21.00	12.75	17.50	12.00
		48	5240	21.00	18.00	21.00	16.25	21.00	12.75	17.50	12.00
	802.11n/ac 40 MHz	38	5190	18.00	18.00	18.00	16.25	18.00	12.75	17.50	12.00
		46	5230	22.00	18.00	22.00	16.25	22.00	12.75	17.50	12.00
	802.11ac 80 MHz	42	5210	17.50	17.50	17.50	16.25	17.50	12.75	17.50	12.00
U-NII-2A 5.3 GHz (SISO)	802.11a/n/ac 20 MHz	52	5260	21.00	17.00	21.00	15.75	21.00	11.75	17.00	11.50
		56	5280	21.00	17.00	21.00	15.75	21.00	11.75	17.00	11.50
		60	5300	21.00	17.00	21.00	15.75	21.00	11.75	17.00	11.50
		64	5320	19.00	17.00	19.00	15.75	19.00	11.75	17.00	11.50
	802.11n/ac 40 MHz	54	5270	22.00	17.00	22.00	15.75	22.00	11.75	17.00	11.50
		62	5310	18.00	17.00	18.00	15.75	18.00	11.75	17.00	11.50
	802.11ac 80 MHz	58	5290	17.50	17.00	17.50	15.75	17.50	11.75	17.00	11.50
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	17.50	19.00	15.75	19.00	12.25	17.25	11.50
		104	5520	21.00	17.50	21.00	15.75	21.00	12.25	17.25	11.50
		108	5540	21.00	17.50	21.00	15.75	21.00	12.25	17.25	11.50
		112	5560	21.00	17.50	21.00	15.75	21.00	12.25	17.25	11.50
		116	5580	21.00	17.50	21.00	15.75	21.00	12.25	17.25	11.50
		120	5600	21.00	17.50	21.00	15.75	21.00	12.25	17.25	11.50
		124	5620	21.00	17.50	21.00	15.75	21.00	12.25	17.25	11.50
		128	5640	21.00	17.50	21.00	15.75	21.00	12.25	17.25	11.50
		132	5660	21.00	17.50	21.00	15.75	21.00	12.25	17.25	11.50
		136	5680	21.00	17.50	21.00	15.75	21.00	12.25	17.25	11.50
	802.11n/ac 40 MHz	140	5700	19.00	17.50	19.00	15.75	19.00	12.25	17.25	11.50
		144	5720	21.00	17.50	21.00	15.75	21.00	12.25	17.25	11.50
		102	5510	18.00	17.50	18.00	15.75	18.00	12.25	17.25	11.50
		110	5550	22.00	17.50	22.00	15.75	22.00	12.25	17.25	11.50
		118	5590	22.00	17.50	22.00	15.75	22.00	12.25	17.25	11.50
		126	5630	22.00	17.50	22.00	15.75	22.00	12.25	17.25	11.50
	802.11ac 80 MHz	134	5670	22.00	17.50	22.00	15.75	22.00	12.25	17.25	11.50
		142	5710	22.00	17.50	22.00	15.75	22.00	12.25	17.25	11.50
		106	5530	17.50	17.50	17.50	15.75	17.50	12.25	17.25	11.50
		122	5610	22.00	17.50	22.00	15.75	22.00	12.25	17.25	11.50
		138	5690	22.00	17.50	22.00	15.75	22.00	12.25	17.25	11.50
Mode	Bandwidth	Channel	Frequency	Pcell OFF				Pcell ON			
				ANT5		ANT6		ANT5		ANT6	
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
U-NII-3 5.8 GHz (SISO)	802.11a/n/ac 20 MHz	149	5745	22.50	17.50	22.50	17.00	22.50	12.25	20.00	12.75
		153	5765	22.50	17.50	22.50	17.00	22.50	12.25	20.00	12.75
		157	5785	22.50	17.50	22.50	17.00	22.50	12.25	20.00	12.75
		161	5805	22.50	17.50	22.50	17.00	22.50	12.25	20.00	12.75
		165	5825	22.50	17.50	22.50	17.00	22.50	12.25	20.00	12.75
	802.11n/ac 40 MHz	151	5755	22.00	17.50	22.00	17.00	22.00	12.25	20.00	12.75
		159	5795	22.00	17.50	22.00	17.00	22.00	12.25	20.00	12.75
	802.11ac 80 MHz	155	5775	22.00	17.50	22.00	17.00	22.00	12.25	20.00	12.75

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-1 5.2 GHz (MIMO)	802.11a/n/ac 20 MHz	36	5180	18.00	18.00	18.00	16.25	18.00	12.75	17.50	12.00
		40	5200	18.00	18.00	18.00	16.25	18.00	12.75	17.50	12.00
		44	5220	18.00	18.00	18.00	16.25	18.00	12.75	17.50	12.00
		48	5240	18.00	18.00	18.00	16.25	18.00	12.75	17.50	12.00
	802.11n/ac 40 MHz	38	5190	17.00	17.00	17.00	16.25	17.00	12.75	17.00	12.00
		46	5230	20.00	18.00	20.00	16.25	20.00	12.75	17.50	12.00
U-NII-2A 5.3 GHz (MIMO)	802.11a/n/ac 20 MHz	52	5260	18.00	17.00	18.00	15.75	18.00	11.75	17.00	11.50
		56	5280	18.00	17.00	18.00	15.75	18.00	11.75	17.00	11.50
		60	5300	18.00	17.00	18.00	15.75	18.00	11.75	17.00	11.50
		64	5320	18.00	17.00	18.00	15.75	18.00	11.75	17.00	11.50
	802.11n/ac 40 MHz	54	5270	20.00	17.00	20.00	15.75	20.00	11.75	17.00	11.50
		62	5310	17.00	17.00	17.00	15.75	17.00	11.75	17.00	11.50
U-NII-2C 5.5 GHz (MIMO)	802.11a/n/ac 20 MHz	58	5290	16.50	16.50	16.50	15.75	16.50	11.75	16.50	11.50
U-NII-2C 5.5 GHz (MIMO)	802.11a/n/ac 20 MHz	100	5500	18.00	17.50	18.00	15.75	18.00	12.25	17.25	11.50
		104	5520	18.00	17.50	18.00	15.75	18.00	12.25	17.25	11.50
		108	5540	18.00	17.50	18.00	15.75	18.00	12.25	17.25	11.50
		112	5560	18.00	17.50	18.00	15.75	18.00	12.25	17.25	11.50
		116	5580	18.00	17.50	18.00	15.75	18.00	12.25	17.25	11.50
		120	5600	18.00	17.50	18.00	15.75	18.00	12.25	17.25	11.50
		124	5620	18.00	17.50	18.00	15.75	18.00	12.25	17.25	11.50
		128	5640	18.00	17.50	18.00	15.75	18.00	12.25	17.25	11.50
		132	5660	18.00	17.50	18.00	15.75	18.00	12.25	17.25	11.50
		136	5680	18.00	17.50	18.00	15.75	18.00	12.25	17.25	11.50
		140	5700	18.00	17.50	18.00	15.75	18.00	12.25	17.25	11.50
		144	5720	18.00	17.50	18.00	15.75	18.00	12.25	17.25	11.50
	802.11n/ac 40 MHz	102	5510	17.00	17.00	17.00	15.75	17.00	12.25	17.00	11.50
		110	5550	20.00	17.50	20.00	15.75	20.00	12.25	17.25	11.50
		118	5590	20.00	17.50	20.00	15.75	20.00	12.25	17.25	11.50
		126	5630	20.00	17.50	20.00	15.75	20.00	12.25	17.25	11.50
	802.11ac 80 MHz	134	5670	20.00	17.50	20.00	15.75	20.00	12.25	17.25	11.50
		142	5710	20.00	17.50	20.00	15.75	20.00	12.25	17.25	11.50
		106	5530	16.50	16.50	16.50	15.75	16.50	12.25	16.50	11.50
		122	5610	20.00	17.50	20.00	15.75	20.00	12.25	17.25	11.50
		138	5690	20.00	17.50	20.00	15.75	20.00	12.25	17.25	11.50
U-NII-3 5.8 GHz (MIMO)	802.11a/n/ac 20 MHz	149	5745	22.50	17.50	22.50	17.00	22.50	12.25	20.00	12.75
		153	5765	22.50	17.50	22.50	17.00	22.50	12.25	20.00	12.75
		157	5785	22.50	17.50	22.50	17.00	22.50	12.25	20.00	12.75
		161	5805	22.50	17.50	22.50	17.00	22.50	12.25	20.00	12.75
		165	5825	22.50	17.50	22.50	17.00	22.50	12.25	20.00	12.75
U-NII-3 5.8 GHz (MIMO)	802.11n/ac 40 MHz	151	5755	22.00	17.50	22.00	17.00	22.00	12.25	20.00	12.75
		159	5795	22.00	17.50	22.00	17.00	22.00	12.25	20.00	12.75
	802.11ac 80 MHz	155	5775	22.00	17.50	22.00	17.00	22.00	12.25	20.00	12.75

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	Mode	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)
Pcell OFF	ANT5	U-NII-2A	802.11n HT40	54	5270	22.00	22.00	Yes			
				62	5310	18.00	18.00				
		U-NII-1	802.11n HT40	38	5190				18.00	18.00	Yes
				46	5230				18.00	18.00	Yes
		U-NII-2C	802.11ac VHT80	106	5530	17.50	17.50	Yes	17.50	17.50	Yes
				122	5610	22.00	22.00		17.50	17.50	
				138	5690	22.00	22.00		17.50	17.50	
		U-NII-3	802.11a HT20	149	5745	22.40	22.50	Yes			
				157	5785	22.50	22.50				
				165	5825	22.40	22.50				
			802.11ac VHT80	155	5775				17.50	17.50	Yes
		ANT6	U-NII-2A	802.11n HT40	54	5270	22.00	22.00	Yes		
	62				5310	18.00	18.00				
	U-NII-1		802.11ac VHT80	42	5210				16.25	16.25	Yes
				U-NII-2C	802.11ac VHT80	106	5530	17.50	17.50	Yes	15.75
	122		5610			22.00	22.00	15.75	15.75		
	138		5690			22.00	22.00	15.75	15.75		
	U-NII-3		802.11a HT20	149	5745	22.40	22.50	Yes			
				157	5785	22.50	22.50				
				165	5825	22.40	22.50				
			802.11ac VHT80	155	5775				17.00	17.00	Yes
Power Mode	Antenna	Mode	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)
Pcell ON	ANT5	U-NII-1	802.11ac VHT80	42	5210				12.75	12.75	Yes
		U-NII-2A	802.11n HT40	54	5270	22.00	22.00	Yes			
				62	5310	18.00	18.00				
		U-NII-2C	802.11ac VHT80	106	5530	17.50	17.50	Yes	12.25	12.25	Yes
				122	5610	22.00	22.00		12.25	12.25	
				138	5690	22.00	22.00		12.25	12.25	
		U-NII-3	802.11a HT20	149	5745	21.40	22.50	Yes			
				157	5785	22.50	22.50				
				165	5825	21.40	22.50				
			802.11ac VHT80	155	5775				12.25	12.25	Yes
	ANT6	U-NII-1	802.11ac VHT80	42	5210	17.50	17.50	Yes	12.00	12.00	Yes
		U-NII-2C	802.11ac VHT80	106	5530	17.25	17.25	Yes	11.50	11.50	Yes
				122	5610	17.25	17.25		11.50	11.50	
				138	5690	17.25	17.25		11.50	11.50	
		U-NII-3	802.11ac VHT80	155	5775	20.00	20.00	Yes	12.75	12.75	Yes

9.8. Bluetooth

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

Bluetooth (P_{low}, P_{high}, and P_{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_{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 _{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	11.0	11.0	10.5	11.0	20.0	16.0	14.5	15.5	20.0	18.5	17.0	18.0
EDR	7.5	7.5	7.5	7.5	17.5	16.0	14.5	15.5	17.5	17.5	17.0	17.5
LE	10.0	10.0	10.0	10.0	20.0	16.0	14.5	15.5	20.0	18.5	17.0	18.0
HDR	6.0	6.0	6.0	6.0	15.5	15.5	14.5	15.5	15.5	15.5	15.5	15.5

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}	ANT3	GFSK	0	2402	10.90	11.00	Yes	10.90	11.00	Yes
			39	2441	11.00	11.00		11.00	11.00	
			78	2480	10.90	11.00		10.90	11.00	
	ANT4	GFSK	0	2402	10.40	10.50	Yes	10.90	11.00	Yes
			39	2441	10.50	10.50		11.00	11.00	
			78	2480	10.40	10.50		10.90	11.00	
Bluetooth P _{high}	ANT3	GFSK	0	2402	20.00	20.00	Yes	16.00	16.00	Yes
			39	2441	20.00	20.00		16.00	16.00	
			78	2480	19.90	20.00		15.90	16.00	
	ANT4	GFSK	0	2402	14.40	14.50	Yes	15.50	15.50	Yes
			39	2441	14.50	14.50		15.50	15.50	
			78	2480	14.40	14.50		15.40	15.50	
Bluetooth P _{standalone}	ANT3	GFSK	0	2402	20.00	20.00	Yes	18.40	18.50	Yes
			39	2441	20.00	20.00		18.50	18.50	
			78	2480	19.90	20.00		18.40	18.50	
	ANT4	GFSK	0	2402	17.00	17.00	Yes	18.00	18.00	Yes
			39	2441	17.00	17.00		18.00	18.00	
			78	2480	16.90	17.00		17.90	18.00	

Duty Factor Measured Results

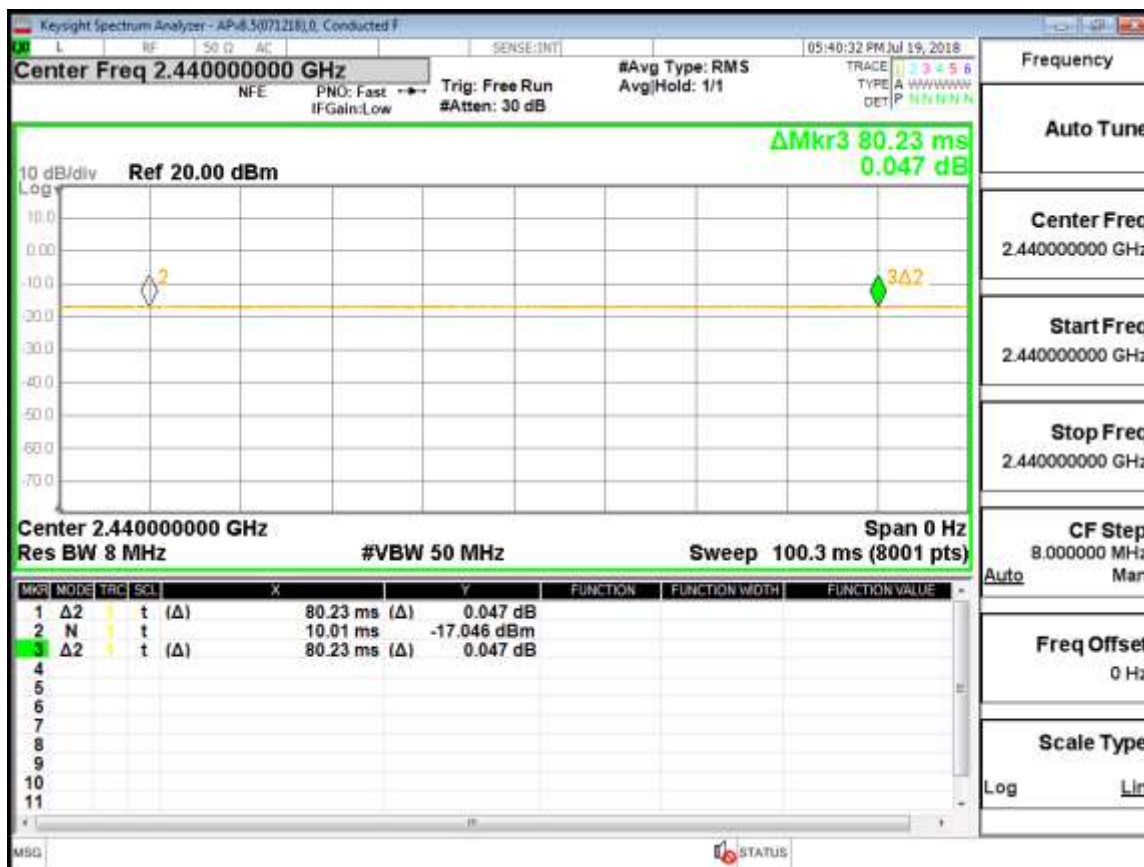
Mode	Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
GFSK	DH5	1	1	100.00%	1.00

Note(s):

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

Duty Cycle plots

GFSK



10. Measured and Reported (Scaled) SAR Results

SAR Testing was performed based on the power measurement results from Sec. 9. Output power from both power modes: Mode A and Mode B were applied for each respective antenna. 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.

Test Tables were organized and labeled by antenna, ANT1, ANT2, ANT3 and ANT4 for WWAN technologies. And for Wi-Fi/Bluetooth technologies, Test Tables were organized and labeled by power configuration and antenna ANT3 and ANT4 (Wi-Fi/BT 2.4 GHz), ANT5, ANT6 (Wi-Fi 5 GHz), Applicable SAR Test Reductions have been applied accordingly following the SAR KDB Procedure as follows:

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 (%)

Per October 2016 TCB Workshop for DUT Holder Perturbations:

When the highest reported SAR of an antenna is > 1.2 W/kg for 1-g SAR and 3.0 W/kg for 10-g SAR, holder perturbation verification is required for each antenna, using the highest SAR configuration among all applicable frequency bands.

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.

Additional 1-g SAR testing at 5 mm is not required when hotspot mode 10-g extremity SAR is not required for the surfaces and edges; since all 1-g reported SAR < 1.2 W/kg.

KDB 941225 D01 SAR test for 3G SAR Test Reduction Procedure:

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.

GSM Guidance

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. Please refer to section 9. for GSM power verification.

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

W-CDMA Guidance

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC (Head) and other spreading codes and multiple DPDCH_n configurations supported by the handset with 12.2 kbps RMC (Body-Worn Accessory) as the primary mode.

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 $\leq \frac{1}{4}$ dB higher than the primary mode

CDMA 2000 Guidance

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+SCH_n), 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

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 and 64-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. Please refer to section 6.3. is determiner non-overlapping channels for LTE bands.

KDB 248227 D01 SAR meas for 802.11:

When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

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.

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	29.00	28.95	0.085	0.086	0.067	0.067	
					Left Tilt	190	836.6	29.00	28.95	0.051	0.052	0.040	0.040	
					Right Touch	190	836.6	29.00	28.95	0.101	0.102	0.078	0.079	1
					Right Tilt	190	836.6	29.00	28.95	0.053	0.053	0.041	0.042	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	190	836.6	29.00	28.95	0.300	0.303	0.197	0.199	2
					Front	190	836.6	29.00	28.95	0.125	0.126	0.084	0.085	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	190	836.6	29.00	28.95	0.164	0.166	0.109	0.110	
					Edge 3	190	836.6	29.00	28.95	0.103	0.104	0.050	0.051	
					Edge 4	190	836.6	29.00	28.95	0.068	0.069	0.045	0.045	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	GPRS 2 Slots	Mode A	0	Left Touch	190	836.6	27.00	27.00	0.172	0.172	0.125	0.125	
					Left Tilt	190	836.6	27.00	27.00	0.086	0.086	0.053	0.053	
					Right Touch	190	836.6	27.00	27.00	0.226	0.226	0.155	0.155	3
					Right Tilt	190	836.6	27.00	27.00	0.111	0.111	0.069	0.069	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	190	836.6	27.00	27.00	0.194	0.194	0.123	0.123	4
					Front	190	836.6	27.00	27.00	0.098	0.098	0.066	0.066	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	190	836.6	27.00	27.00	0.046	0.046	0.026	0.026	
					Edge 2	190	836.6	27.00	27.00	0.055	0.055	0.035	0.035	
					Edge 4	190	836.6	27.00	27.00	0.098	0.098	0.064	0.064	

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	29.00	28.89	0.085	0.087	0.057	0.058	5
					Left Tilt	661	1880.0	29.00	28.89	0.070	0.072	0.044	0.045	
					Right Touch	661	1880.0	29.00	28.89	0.181	0.186	0.114	0.117	
					Right Tilt	661	1880.0	29.00	28.89	0.080	0.082	0.051	0.052	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	26.50	26.43	0.820	0.834	0.399	0.406	6
						661	1880.0	26.50	26.34	0.886	0.919	0.412	0.427	
						810	1909.8	26.50	26.36	0.942	0.973	0.426	0.440	
					Front	661	1880.0	26.50	26.34	0.412	0.427	0.236	0.245	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 2	661	1880.0	26.50	26.34	0.339	0.352	0.168	0.174	
					Edge 3	512	1850.2	26.50	26.43	0.855	0.869	0.418	0.425	
						661	1880.0	26.50	26.34	0.899	0.933	0.432	0.448	
						810	1909.8	26.50	26.36	0.767	0.792	0.371	0.383	
					Edge 4	661	1880.0	26.50	26.34	0.056	0.058	0.032	0.033	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	GPRS 2 Slots	Mode A	0	Left Touch	661	1880.0	26.50	25.50	0.171	0.215	0.096	0.121	7
					Left Tilt	661	1880.0	26.50	25.50	0.205	0.258	0.108	0.136	
					Right Touch	661	1880.0	26.50	25.50	0.641	0.807	0.349	0.439	
					Right Tilt	661	1880.0	26.50	25.50	0.623	0.784	0.298	0.375	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	26.50	25.50	0.675	0.850	0.314	0.395	8
						661	1880.0	26.50	25.50	0.647	0.815	0.299	0.376	
						810	1909.8	26.50	25.50	0.595	0.749	0.275	0.346	
					Front	661	1880.0	26.50	25.50	0.298	0.375	0.157	0.198	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	661	1880.0	26.50	25.50	0.345	0.434	0.156	0.196	
					Edge 2	661	1880.0	26.50	25.50	0.004	0.005	0.002	0.002	
					Edge 4	661	1880.0	26.50	25.50	0.376	0.473	0.197	0.248	
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	28.50	28.50	0.209	0.209	0.132	0.132	9
					Left Tilt	661	1880.0	28.50	28.50	0.143	0.143	0.083	0.083	
					Right Touch	661	1880.0	28.50	28.50	0.115	0.115	0.076	0.076	
					Right Tilt	661	1880.0	28.50	28.50	0.101	0.101	0.059	0.059	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	512	1850.2	26.70	26.36	0.897	0.970	0.459	0.497	10
						661	1880.0	26.70	26.60	0.967	0.990	0.489	0.500	
						810	1909.8	26.70	26.40	0.919	0.985	0.463	0.496	
					Front	661	1880.0	26.70	26.60	0.607	0.621	0.320	0.327	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 3	661	1880.0	26.70	26.60	0.249	0.255	0.130	0.133	
					Edge 4	661	1880.0	26.70	26.60	0.728	0.745	0.362	0.370	
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	661	1880.0	26.50	26.30	0.537	0.562	0.287	0.301	11
					Left Tilt	661	1880.0	26.50	26.30	0.395	0.414	0.198	0.207	
					Right Touch	661	1880.0	26.50	26.30	0.128	0.134	0.071	0.074	
					Right Tilt	661	1880.0	26.50	26.30	0.128	0.134	0.069	0.072	
	Body & Hotspot	GPRS 2 Slots	Mode B	5	Rear	661	1880.0	26.50	26.30	0.554	0.580	0.269	0.282	12
					Front	661	1880.0	26.50	26.30	0.243	0.254	0.136	0.142	
	Hotspot	GPRS 2 Slots	Mode B	5	Edge 1	661	1880.0	26.50	26.30	0.196	0.205	0.087	0.091	
					Edge 2	661	1880.0	26.50	26.30	0.474	0.496	0.228	0.239	

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	25.50	25.49	0.194	0.194	0.129	0.129	13
					Left Tilt	9400	1880.0	25.50	25.49	0.141	0.141	0.091	0.091	
					Right Touch	9400	1880.0	25.50	25.49	0.321	0.322	0.205	0.205	
					Right Tilt	9400	1880.0	25.50	25.49	0.191	0.191	0.116	0.116	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9262	1852.4	19.50	19.45	0.824	0.833	0.389	0.393	14
						9400	1880.0	19.50	19.48	0.899	0.903	0.413	0.415	
						9538	1907.6	19.50	19.50	0.988	0.988	0.438	0.438	
					Front	9400	1880.0	19.50	19.48	0.354	0.356	0.205	0.206	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	9262	1852.4	19.50	19.45	0.361	0.365	0.150	0.152	15
						9400	1880.0	19.50	19.48	0.986	0.991	0.472	0.474	
						9538	1907.6	19.50	19.50	0.885	0.885	0.426	0.426	
					Edge 3	9400	1880.0	19.50	19.48	0.698	0.701	0.340	0.342	
					Edge 4	9400	1880.0	19.50	19.48	0.044	0.044	0.023	0.023	
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	9400	1880.0	20.50	20.50	0.205	0.205	0.113	0.113	16
					Left Tilt	9400	1880.0	20.50	20.50	0.280	0.280	0.146	0.146	
					Right Touch	9262	1852.4	20.50	20.39	0.846	0.867	0.456	0.467	
						9400	1880.0	20.50	20.50	0.862	0.862	0.467	0.467	
						9538	1907.6	20.50	20.38	0.844	0.867	0.462	0.475	
					Right Tilt	9262	1852.4	20.50	20.39	0.770	0.789	0.372	0.381	
						9400	1880.0	20.50	20.50	0.786	0.786	0.376	0.376	
						9538	1907.6	20.50	20.38	0.781	0.803	0.369	0.379	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9262	1852.4	18.50	18.40	0.803	0.821	0.347	0.355	17
						9400	1880.0	18.50	18.50	0.863	0.863	0.368	0.368	
						9538	1907.6	18.50	18.40	0.826	0.844	0.349	0.357	
					Front	9400	1880.0	18.50	18.50	0.256	0.256	0.137	0.137	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	9400	1880.0	18.50	18.50	0.302	0.302	0.137	0.137	
					Edge 2	9400	1880.0	18.50	18.50	0.000	0.000	0.000	0.000	
					Edge 4	9400	1880.0	18.50	18.50	0.362	0.362	0.186	0.186	
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	9400	1880.0	25.00	25.00	0.531	0.531	0.338	0.338	18
					Left Tilt	9400	1880.0	25.00	25.00	0.286	0.286	0.174	0.174	
					Right Touch	9400	1880.0	25.00	25.00	0.280	0.280	0.187	0.187	
					Right Tilt	9400	1880.0	25.00	25.00	0.213	0.213	0.123	0.123	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9262	1852.4	20.00	19.83	0.718	0.747	0.376	0.391	19
						9400	1880.0	20.00	19.85	0.795	0.823	0.406	0.420	
						9538	1907.6	20.00	19.62	0.802	0.875	0.410	0.448	
					Front	9400	1880.0	20.00	19.85	0.461	0.477	0.243	0.252	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 3	9400	1880.0	20.00	19.85	0.233	0.241	0.124	0.128	
					Edge 4	9400	1880.0	20.00	19.85	0.530	0.549	0.264	0.273	
					Edge 2	9262	1852.4	21.00	20.85	0.775	0.801	0.369	0.382	
						9400	1880.0	21.00	21.00	0.890	0.891	0.424	0.424	
						9538	1907.6	21.00	20.90	0.877	0.897	0.415	0.425	
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	9262	1852.4	21.20	20.60	0.741	0.850	0.397	0.455	20
						9400	1880.0	21.20	20.75	0.821	0.911	0.439	0.487	
						9538	1907.6	21.20	20.57	0.846	0.978	0.450	0.520	
					Left Tilt	9400	1880.0	21.20	20.75	0.535	0.594	0.265	0.294	
					Right Touch	9400	1880.0	21.20	20.75	0.222	0.246	0.140	0.155	
					Right Tilt	9400	1880.0	21.20	20.75	0.198	0.220	0.108	0.120	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	9400	1880.0	21.00	21.00	0.662	0.662	0.327	0.327	21
					Front	9400	1880.0	21.00	21.00	0.365	0.365	0.200	0.200	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	9400	1880.0	21.00	21.00	0.297	0.297	0.138	0.138	
					Edge 2	9262	1852.4	21.00	20.85	0.775	0.801	0.369	0.382	
						9400	1880.0	21.00	21.00	0.890	0.891	0.424	0.424	
						9538	1907.6	21.00	20.90	0.877	0.897	0.415	0.425	

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	25.50	25.50	0.076	0.076	0.053	0.053	23
					Left Tilt	1413	1732.6	25.50	25.50	0.056	0.056	0.036	0.036	
					Right Touch	1413	1732.6	25.50	25.50	0.160	0.160	0.106	0.106	
					Right Tilt	1413	1732.6	25.50	25.50	0.060	0.060	0.041	0.041	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1413	1732.6	18.70	18.56	0.740	0.765	0.359	0.371	24
					Front	1413	1732.6	18.70	18.56	0.495	0.512	0.239	0.247	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	1413	1732.6	18.70	18.56	0.139	0.144	0.080	0.083	25
					Edge 3	1312	1712.4	18.70	18.66	0.861	0.869	0.396	0.400	
						1413	1732.6	18.70	18.56	0.828	0.856	0.385	0.398	
						1513	1752.6	18.70	18.66	0.925	0.934	0.424	0.428	
					Edge 4	1413	1732.6	18.70	18.56	0.017	0.018	0.010	0.010	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT2	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	1413	1732.6	21.50	21.50	0.375	0.375	0.207	0.207	26
					Left Tilt	1413	1732.6	21.50	21.50	0.453	0.453	0.234	0.234	
					Right Touch	1312	1712.4	21.50	21.50	0.820	0.820	0.441	0.441	
						1413	1732.6	21.50	21.50	0.898	0.898	0.488	0.488	
						1513	1752.6	21.50	21.50	0.909	0.909	0.496	0.496	
					Right Tilt	1312	1712.4	21.50	21.50	0.952	0.952	0.468	0.468	
						1413	1732.6	21.50	21.50	0.992	0.992	0.486	0.486	
						1513	1752.6	21.50	21.50	0.991	0.991	0.484	0.484	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1413	1732.6	20.50	20.30	0.722	0.756	0.339	0.355	27
					Front	1413	1732.6	20.50	20.30	0.479	0.502	0.245	0.257	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	1312	1712.4	20.50	20.30	0.773	0.809	0.382	0.400	28
						1413	1732.6	20.50	20.30	0.778	0.815	0.385	0.403	
					Edge 2	1513	1752.6	20.50	20.50	0.717	0.717	0.356	0.356	
						1413	1732.6	20.50	20.30	0.014	0.015	0.008	0.009	
					Edge 4	1413	1732.6	20.50	20.30	0.419	0.439	0.231	0.242	
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	25.00	25.00	0.356	0.356	0.235	0.235	29
					Left Tilt	1413	1732.6	25.00	25.00	0.212	0.212	0.133	0.133	
					Right Touch	1413	1732.6	25.00	25.00	0.191	0.191	0.134	0.134	
					Right Tilt	1413	1732.6	25.00	25.00	0.163	0.163	0.102	0.102	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1312	1712.4	21.50	21.50	0.764	0.764	0.423	0.423	30
						1413	1732.6	21.50	21.50	0.826	0.826	0.447	0.447	
						1513	1752.6	21.50	21.50	0.821	0.821	0.442	0.442	
					Front	1413	1732.6	21.50	21.50	0.403	0.403	0.220	0.220	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 3	1413	1732.6	21.50	21.50	0.229	0.229	0.113	0.113	31
					Edge 4	1413	1732.6	21.50	21.50	0.713	0.713	0.363	0.363	
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT4	Head	Rel 99 RMC 12.2 kbps	Mode A	0	Left Touch	1312	1712.4	21.50	21.44	0.735	0.746	0.390	0.396	31
						1413	1732.6	21.50	21.41	0.832	0.848	0.450	0.459	
						1513	1752.6	21.50	21.50	0.766	0.766	0.415	0.415	
					Left Tilt	1413	1732.6	21.50	21.41	0.652	0.665	0.316	0.322	
					Right Touch	1413	1732.6	21.50	21.41	0.274	0.279	0.156	0.159	
					RightTilt	1413	1732.6	21.50	21.41	0.216	0.220	0.115	0.117	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	1312	1712.4	22.00	21.84	0.829	0.860	0.411	0.426	32
						1413	1732.6	22.00	22.00	0.892	0.892	0.453	0.453	
						1513	1752.6	22.00	22.00	0.879	0.879	0.437	0.437	
					Front	1413	1732.6	22.00	22.00	0.593	0.593	0.305	0.305	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	1413	1732.6	22.00	22.00	0.528	0.528	0.238	0.238	32
					Edge 2	1312	1712.4	22.00	21.84	0.826	0.857	0.407	0.422	
						1413	1732.6	22.00	22.00	0.881	0.881	0.432	0.432	
						1513	1752.6	22.00	22.00	0.849	0.849	0.409	0.409	

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	25.50	25.30	0.172	0.180	0.135	0.141	33
					Left Tilt	4183	836.6	25.50	25.30	0.108	0.113	0.085	0.088	
					Right Touch	4183	836.6	25.50	25.30	0.211	0.221	0.162	0.170	
					RightTilt	4183	836.6	25.50	25.30	0.113	0.118	0.089	0.093	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	4183	836.6	25.50	25.30	0.487	0.510	0.307	0.321	34
					Front	4183	836.6	25.50	25.30	0.251	0.263	0.167	0.175	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 2	4183	836.6	25.50	25.30	0.357	0.374	0.236	0.247	
					Edge 3	4183	836.6	25.50	25.30	0.230	0.241	0.112	0.117	
					Edge 4	4183	836.6	25.50	25.30	0.172	0.180	0.114	0.119	
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	24.50	0.431	0.431	0.320	0.320	35
					Left Tilt	4183	836.6	24.50	24.50	0.280	0.280	0.180	0.180	
					Right Touch	4183	836.6	24.50	24.50	0.548	0.548	0.371	0.371	
					Right Tilt	4183	836.6	24.50	24.50	0.370	0.370	0.212	0.212	
	Body & Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Rear	4183	836.6	24.50	24.50	0.542	0.542	0.337	0.337	36
					Front	4183	836.6	24.50	24.50	0.271	0.271	0.182	0.182	
	Hotspot	Rel 99 RMC 12.2 kbps	Mode B	5	Edge 1	4183	836.6	24.50	24.50	0.136	0.136	0.073	0.073	
					Edge 2	4183	836.6	24.50	24.50	0.193	0.193	0.127	0.127	
					Edge 4	4183	836.6	24.50	24.50	0.247	0.247	0.162	0.162	

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	25.50	25.30	0.197	0.206	0.155	0.162	37
					Left Tilt	384	836.5	25.50	25.30	0.106	0.111	0.083	0.087	
					Right Touch	384	836.5	25.50	25.30	0.251	0.263	0.196	0.205	
					Right Tilt	384	836.5	25.50	25.30	0.129	0.135	0.101	0.106	
		1xEVDO Rel. 0	Mode A	0	Left Touch	384	836.5	25.50	25.30	0.201	0.210	0.157	0.164	
					Left Tilt	384	836.5	25.50	25.30	0.099	0.104	0.078	0.082	
					Right Touch	384	836.5	25.50	25.30	0.210	0.220	0.164	0.172	
					Right Tilt	384	836.5	25.50	25.30	0.115	0.120	0.088	0.092	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	384	836.5	25.50	25.20	0.385	0.413	0.242	0.259	38
					Front	384	836.5	25.50	25.20	0.243	0.260	0.160	0.171	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	384	836.5	25.50	25.20	0.373	0.400	0.247	0.265	
					Edge 3	384	836.5	25.50	25.20	0.265	0.284	0.129	0.138	
					Edge 4	384	836.5	25.50	25.20	0.176	0.189	0.117	0.125	
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	24.50	0.556	0.556	0.408	0.408	39
					Left Tilt	384	836.5	24.50	24.50	0.347	0.347	0.228	0.228	
					Right Touch	1013	824.7	24.50	24.50	0.659	0.659	0.453	0.453	
						384	836.5	24.50	24.50	0.828	0.828	0.578	0.578	
					Right Tilt	777	848.3	24.50	24.50	0.615	0.615	0.438	0.438	
						384	836.5	24.50	24.50	0.479	0.479	0.274	0.274	
		1xEVDO Rel. 0	Mode A	0	Left Touch	384	836.5	24.50	24.50	0.473	0.473	0.343	0.343	
					Left Tilt	384	836.5	24.50	24.50	0.275	0.275	0.180	0.180	
					Right Touch	384	836.5	24.50	24.50	0.642	0.642	0.452	0.452	
					Right Tilt	384	836.5	24.50	24.50	0.390	0.390	0.226	0.226	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	384	836.5	24.50	24.50	0.794	0.794	0.501	0.501	40
					Front	384	836.5	24.50	24.50	0.336	0.336	0.225	0.225	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	384	836.5	24.50	24.50	0.168	0.168	0.092	0.092	
					Edge 2	384	836.5	24.50	24.50	0.263	0.263	0.172	0.172	
					Edge 4	384	836.5	24.50	24.50	0.295	0.295	0.194	0.194	

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	25.50	25.50	0.226	0.226	0.154	0.154	41
					Left Tilt	600	1880.0	25.50	25.50	0.161	0.161	0.101	0.101	
					Right Touch	600	1880.0	25.50	25.50	0.328	0.328	0.209	0.209	
					Right Tilt	600	1880.0	25.50	25.50	0.179	0.179	0.109	0.109	
		1xEVDO Rel. 0	Mode A	0	Left Touch	600	1880.0	25.50	25.50	0.186	0.186	0.119	0.119	
					Left Tilt	600	1880.0	25.50	25.50	0.124	0.124	0.078	0.078	
					Right Touch	600	1880.0	25.50	25.50	0.308	0.308	0.197	0.197	
					Right Tilt	600	1880.0	25.50	25.50	0.180	0.180	0.109	0.109	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	25	1851.3	19.50	19.50	0.769	0.769	0.364	0.364	42
						600	1880.0	19.50	19.30	0.855	0.895	0.394	0.413	
						1175	1908.8	19.50	19.30	0.914	0.957	0.414	0.434	
					Front	25	1851.3	19.50	19.50	0.363	0.363	0.206	0.206	
						600	1880.0	19.50	19.30	0.296	0.310	0.142	0.149	
						1175	1908.8	19.50	19.30	0.987	1.034	0.474	0.496	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	600	1880.0	19.50	19.30	0.869	0.910	0.422	0.442	
					Edge 3	600	1880.0	19.50	19.30	0.642	0.672	0.315	0.330	
					Edge 4	600	1880.0	19.50	19.30	0.061	0.064	0.033	0.034	
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	20.50	20.20	0.249	0.267	0.146	0.156	43
					Left Tilt	600	1880.0	20.50	20.20	0.300	0.321	0.159	0.170	
					Right Touch	25	1851.3	20.50	20.20	0.896	0.960	0.493	0.528	
						600	1880.0	20.50	20.20	0.905	0.970	0.504	0.540	
						1175	1908.8	20.50	20.00	0.834	0.936	0.466	0.523	
					Righttt Tilt	25	1851.3	20.50	20.20	0.891	0.955	0.428	0.459	
						600	1880.0	20.50	20.20	0.838	0.898	0.409	0.438	
						1175	1908.8	20.50	20.00	0.780	0.875	0.375	0.421	
		1xEVDO Rel. 0	Mode A	0	Left Touch	600	1880.0	20.50	20.20	0.289	0.310	0.186	0.199	
					Left Tilt	600	1880.0	20.50	20.20	0.310	0.332	0.167	0.179	
					Right Touch	25	1851.3	20.50	20.20	0.850	0.911	0.488	0.523	
						600	1880.0	20.50	20.20	0.825	0.884	0.464	0.497	
						1175	1908.8	20.50	20.00	0.832	0.934	0.473	0.531	
					Righttt Tilt	25	1851.3	20.50	20.20	0.849	0.910	0.424	0.454	
						600	1880.0	20.50	20.20	0.826	0.885	0.411	0.440	
						1175	1908.8	20.50	20.00	0.728	0.817	0.358	0.402	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	25	1851.3	18.50	18.50	0.879	0.879	0.394	0.394	44
						600	1880.0	18.50	18.40	0.861	0.881	0.387	0.396	
						1175	1908.8	18.50	18.20	0.817	0.875	0.364	0.390	
					Front	600	1880.0	18.50	18.40	0.364	0.372	0.194	0.199	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	600	1880.0	18.50	18.40	0.487	0.498	0.229	0.234	
					Edge 2	600	1880.0	18.50	18.40	0.005	0.005	0.002	0.002	
					Edge 3	600	1880.0	18.50	18.40	0.005	0.005	0.002	0.002	
					Edge 4	600	1880.0	18.50	18.40	0.501	0.513	0.265	0.271	

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	25.50	25.50	0.225	0.225	0.179	0.179	45
					Left Tilt	560	820.0	25.50	25.50	0.121	0.121	0.095	0.095	
					Right Touch	560	820.0	25.50	25.50	0.226	0.226	0.178	0.178	
					Right Tilt	560	820.0	25.50	25.50	0.112	0.112	0.089	0.089	
		1xEVDO Rel. 0	Mode A	0	Left Touch	560	820.0	25.50	25.50	0.166	0.166	0.130	0.130	
					Left Tilt	560	820.0	25.50	25.50	0.098	0.098	0.077	0.077	
					Right Touch	560	820.0	25.50	25.50	0.198	0.198	0.155	0.155	
					Right Tilt	560	820.0	25.50	25.50	0.100	0.100	0.078	0.078	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	560	820.0	25.50	25.50	0.270	0.270	0.166	0.166	46
					Front	560	820.0	25.50	25.50	0.154	0.154	0.103	0.103	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 2	560	820.0	25.50	25.50	0.367	0.367	0.244	0.244	47
					Edge 3	560	820.0	25.50	25.50	0.214	0.214	0.104	0.104	
					Edge 4	560	820.0	25.50	25.50	0.144	0.144	0.096	0.096	
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	24.50	0.497	0.497	0.365	0.365	
					Left Tilt	560	820.0	24.50	24.50	0.301	0.301	0.199	0.199	
					Right Touch	560	820.0	24.50	24.50	0.549	0.549	0.394	0.394	
					Right Tilt	560	820.0	24.50	24.50	0.400	0.400	0.237	0.237	
		1xEVDO Rel. 0	Mode A	0	Left Touch	560	820.0	24.50	24.50	0.425	0.425	0.312	0.312	
					Left Tilt	560	820.0	24.50	24.50	0.257	0.257	0.168	0.168	
					Right Touch	560	820.0	24.50	24.50	0.603	0.603	0.422	0.422	
					Right Tilt	560	820.0	24.50	24.50	0.390	0.390	0.225	0.225	
	Body & Hotspot	1xRTT RC3 SO32	Mode B	5	Rear	560	820.0	24.50	24.50	0.582	0.582	0.359	0.359	49
					Front	560	820.0	24.50	24.50	0.261	0.261	0.177	0.177	
	Hotspot	1xRTT RC3 SO32	Mode B	5	Edge 1	560	820.0	24.50	24.50	0.160	0.160	0.088	0.088	
					Edge 2	560	820.0	24.50	24.50	0.218	0.218	0.144	0.144	
					Edge 4	560	820.0	24.50	24.50	0.278	0.278	0.185	0.185	

10.9. 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	25.50	25.50	0.144	0.144	0.080	0.080	50					
								50	24	24.50	24.50	0.118	0.118	0.065	0.065						
					Left Tilt	21100	2535.0	1	49	25.50	25.50	0.077	0.077	0.037	0.037						
								50	24	24.50	24.50	0.063	0.063	0.030	0.030						
					Right Touch	21100	2535.0	1	49	25.50	25.50	0.471	0.471	0.252	0.252						
								50	24	24.50	24.50	0.409	0.409	0.216	0.216						
					Right Tilt	21100	2535.0	1	49	25.50	25.50	0.102	0.102	0.048	0.048						
								50	24	24.50	24.50	0.082	0.082	0.039	0.039						
					Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	1	49	20.20	20.20		0.890	0.890	0.377	0.377	51
												50	24	20.20	20.20		0.923	0.923	0.387	0.387	
	21100	2535.0	1	49						20.20	20.20	0.941	0.941	0.390	0.390						
			50	24						20.20	20.20	0.879	0.879	0.366	0.366						
	21350	2560.0	100	0						20.20	20.17	0.830	0.836	0.351	0.353						
			1	49						20.20	20.20	0.923	0.923	0.387	0.387						
	Front	21100	2535.0	50					24	20.20	20.17	0.934	0.941	0.389	0.392						
				1					49	20.20	20.20	0.491	0.491	0.221	0.221						
	50	24	20.20	20.20					0.487	0.487	0.220	0.220	0.361	0.361							
	Hotspot	QPSK	Mode B	5	Edge 2	20850	2510.0	1	49	20.20	20.20	0.898	0.898	0.361	0.361	52					
								50	24	20.20	20.20	0.907	0.907	0.365	0.365						
						21100	2535.0	1	49	20.20	20.20	0.951	0.951	0.370	0.370						
								50	24	20.20	20.20	0.930	0.930	0.360	0.360						
						21350	2560.0	100	0	20.20	20.17	0.888	0.894	0.349	0.351						
								1	49	20.20	20.20	0.886	0.886	0.347	0.347						
					Edge 3	21100	2535.0	50	24	20.20	20.17	0.873	0.879	0.345	0.348						
								1	49	20.20	20.20	0.228	0.228	0.092	0.092						
					50	24	20.20	20.20	0.230	0.230	0.094	0.094	0.019	0.019							
					Edge 4	21100	2535.0	1	49	20.20	20.20	0.042	0.042	0.019	0.019						
								50	24	20.20	20.20	0.040	0.040	0.017	0.017						

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	19.50	19.50	0.301	0.301	0.123	0.123	53				
								50	24	19.50	19.50	0.294	0.294	0.121	0.121					
					Left Tilt	21100	2535.0	1	49	19.50	19.50	0.415	0.415	0.161	0.161					
								50	24	19.50	19.50	0.406	0.406	0.157	0.157					
					Right Touch	21100	2535.0	1	49	19.50	19.50	0.732	0.732	0.321	0.321					
								50	24	19.50	19.50	0.717	0.717	0.313	0.313					
					Right Tilt	20850	2510.0	1	49	19.50	19.50	0.790	0.790	0.313	0.313					
								50	24	19.50	19.50	0.771	0.771	0.303	0.303					
						21100	2535.0	1	49	19.50	19.50	0.819	0.819	0.327	0.327					
								50	24	19.50	19.50	0.799	0.799	0.318	0.318					
						21350	2560.0	100	0	19.50	19.50	0.808	0.808	0.318	0.318					
								1	49	19.50	19.40	0.855	0.875	0.339	0.347					
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	1	49	20.00	20.00	0.811	0.811	0.310	0.310	54				
								1	49	20.00	20.00	0.873	0.873	0.331	0.331					
						21100	2535.0	50	24	20.00	20.00	0.706	0.706	0.267	0.267					
								1	49	20.00	20.00	0.772	0.772	0.255	0.255					
					Front	21100	2535.0	1	49	20.00	20.00	0.338	0.338	0.147	0.147					
								50	24	20.00	20.00	0.313	0.313	0.137	0.137					
					Hotspot	QPSK	Mode B	5	Edge 1	21100	2535.0	1	49	20.00	20.00		0.333	0.333	0.115	0.115
												50	24	20.00	20.00		0.305	0.305	0.106	0.106
									Edge 2	21100	2535.0	1	49	20.00	20.00		0.053	0.053	0.022	0.022
												50	24	20.00	20.00		0.060	0.060	0.028	0.028
									Edge 4	21100	2535.0	1	49	20.00	20.00		0.591	0.591	0.246	0.246
												50	24	20.00	20.00		0.451	0.451	0.187	0.187

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	25.00	24.60	0.135	0.148	0.076	0.083	55				
								50	24	24.00	23.80	0.108	0.113	0.061	0.064					
					Left Tilt	21100	2535.0	1	49	25.00	24.60	0.034	0.037	0.019	0.021					
								50	24	24.00	23.80	0.028	0.029	0.016	0.017					
					Right Touch	21100	2535.0	1	49	25.00	24.60	0.067	0.074	0.037	0.041					
								50	24	24.00	23.80	0.075	0.079	0.041	0.043					
					Right Tilt	21100	2535.0	1	49	25.00	24.60	0.028	0.031	0.010	0.011					
								50	24	24.00	23.80	0.025	0.026	0.016	0.017					
	Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	1	49	21.50	21.40	0.976	0.999	0.376	0.385	56				
								50	24	21.50	21.40	0.960	0.982	0.376	0.385					
						21100	2535.0	1	49	21.50	21.10	0.838	0.919	0.321	0.352					
								50	24	21.50	21.10	0.855	0.937	0.320	0.351					
						21350	2560.0	100	0	21.50	21.10	0.880	0.965	0.335	0.367					
								1	49	21.50	21.10	0.751	0.823	0.307	0.337					
					Front	21100	2535.0	50	24	21.50	21.10	0.736	0.807	0.307	0.337					
								1	49	21.50	21.10	0.426	0.467	0.183	0.201					
						21100	2535.0	50	24	21.50	21.10	0.424	0.465	0.182	0.200					
								1	49	21.50	21.10	0.338	0.371	0.147	0.161					
						Edge 3	21100	2535.0	50	24	21.50	21.10	0.276	0.303	0.139	0.152				
									1	49	21.50	21.10	0.069	0.076	0.023	0.025				
	Edge 4	21100	2535.0	50	24	21.50	21.10	0.065	0.071	0.021	0.023									
	Hotspot	QPSK	Mode B	5	Edge 3	21100	2535.0	1	49	21.50	21.10	0.338	0.371	0.147	0.161					
								50	24	21.50	21.10	0.276	0.303	0.139	0.152					
							1	49	21.50	21.10	0.069	0.076	0.023	0.025						
							50	24	21.50	21.10	0.065	0.071	0.021	0.023						
Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.				
ANT4	Head	QPSK	Mode A	0	Left Touch	20850	2510.0	1	49	18.70	18.60	0.623	0.638	0.274	0.280					
								50	24	18.70	18.40	0.607	0.650	0.263	0.282					
						21100	2535.0	1	49	18.70	18.20	0.879	0.986	0.389	0.436	57				
								50	24	18.70	18.09	0.866	0.996	0.383	0.440					
						21350	2560.0	100	0	18.70	18.13	0.790	0.900	0.350	0.399					
								1	49	18.70	18.25	0.851	0.944	0.384	0.426					
						Left Tilt	21100	2535.0	50	24	18.70	18.40	0.846	0.907	0.379	0.406				
									1	49	18.70	18.20	0.536	0.601	0.234	0.263				
					Right Touch	21100	2535.0	50	24	18.70	18.09	0.521	0.599	0.226	0.260					
								1	49	18.70	18.20	0.208	0.233	0.099	0.111					
					Body & Hotspot	QPSK	Mode B	5	Rear	20850	2510.0	50	24	18.70	18.09	0.199	0.229	0.095	0.109	
												1	49	18.70	18.20	0.186	0.209	0.089	0.100	
										21100	2535.0	50	24	18.70	18.09	0.190	0.218	0.090	0.103	
												1	49	19.50	19.20	0.668	0.716	0.308	0.330	
									21350	2560.0	50	24	19.50	19.10	0.527	0.578	0.250	0.274		
											1	49	19.50	19.40	0.868	0.888	0.394	0.403	58	
	Front	21100	2535.0	100					0	19.50	18.84	0.640	0.745	0.301	0.350					
				1					49	19.50	19.03	0.776	0.865	0.349	0.389					
	Hotspot	QPSK	Mode B	5	Edge 1	21100	2535.0	50	24	19.50	18.86	0.764	0.885	0.346	0.401					
								1	49	19.50	18.86	0.640	0.745	0.301	0.350					
						Edge 2	21100	2535.0	1	49	19.50	19.40	0.504	0.516	0.243	0.249				
									50	24	19.50	18.86	0.433	0.501	0.209	0.242				
					Edge 1	21100	2535.0	1	49	19.50	19.40	0.193	0.197	0.077	0.079					
								50	24	19.50	18.86	0.181	0.210	0.072	0.083					
						Edge 2	21100	2535.0	1	49	19.50	19.40	0.322	0.330	0.154	0.158				
									50	24	19.50	18.86	0.282	0.327	0.135	0.156				

10.10. 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	24	25.50	25.00	0.168	0.188	0.135	0.151	
								25	12	24.50	24.00	0.144	0.162	0.115	0.129	
					Left Tilt	23095	707.5	1	24	25.50	25.00	0.102	0.114	0.082	0.092	
								25	12	24.50	24.00	0.083	0.093	0.068	0.076	
					Right Touch	23095	707.5	1	24	25.50	25.00	0.211	0.237	0.168	0.188	59
								25	12	24.50	24.00	0.164	0.184	0.131	0.147	
					Right Tilt	23095	707.5	1	24	25.50	25.00	0.094	0.105	0.076	0.085	
								25	12	24.50	24.00	0.071	0.079	0.058	0.065	
	Body & Hotspot	QPSK	Mode B	5	Rear	23095	707.5	1	24	25.50	25.00	0.670	0.752	0.436	0.489	60
								25	12	24.50	24.00	0.527	0.591	0.343	0.385	
					Front	23095	707.5	1	24	25.50	25.00	0.295	0.331	0.202	0.227	
								25	12	24.50	24.00	0.235	0.264	0.161	0.181	
	Hotspot	QPSK	Mode B	5	Edge 2	23095	707.5	1	24	25.50	25.00	0.624	0.700	0.421	0.472	
								25	12	24.50	24.00	0.508	0.570	0.342	0.384	
					Edge 3	23095	707.5	1	24	25.50	25.00	0.113	0.127	0.061	0.068	
								25	12	24.50	24.00	0.093	0.104	0.051	0.057	
					Edge 4	23095	707.5	1	24	25.50	25.00	0.297	0.333	0.200	0.224	
								25	12	24.50	24.00	0.231	0.259	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	23095	707.5	1	24	24.50	24.50	0.328	0.328	0.227	0.227	
								25	12	23.50	23.50	0.261	0.261	0.194	0.194	
					Left Tilt	23095	707.5	1	24	24.50	24.50	0.259	0.259	0.165	0.165	
								25	12	23.50	23.50	0.204	0.204	0.129	0.129	
					Right Touch	23095	707.5	1	24	24.50	24.50	0.461	0.461	0.307	0.307	61
								25	12	23.50	23.50	0.375	0.375	0.270	0.270	
					Right Tilt	23095	707.5	1	24	24.50	24.50	0.423	0.423	0.231	0.231	
								25	12	23.50	23.50	0.346	0.346	0.190	0.190	
	Body & Hotspot	QPSK	Mode B	5	Rear	23095	707.5	1	24	24.50	24.50	0.334	0.334	0.210	0.210	62
								25	12	23.50	23.50	0.268	0.268	0.169	0.169	
					Front	23095	707.5	1	24	24.50	24.50	0.197	0.197	0.136	0.136	
								25	12	23.50	23.50	0.153	0.153	0.106	0.106	
	Hotspot	QPSK	Mode B	5	Edge 1	23095	707.5	1	24	24.50	24.50	0.112	0.112	0.057	0.057	
								25	12	23.50	23.50	0.093	0.093	0.047	0.047	
					Edge 2	23095	707.5	1	24	24.50	24.50	0.248	0.248	0.167	0.167	
								25	12	23.50	23.50	0.196	0.196	0.132	0.132	
					Edge 4	23095	707.5	1	24	24.50	24.50	0.518	0.518	0.350	0.350	63
								25	12	23.50	23.50	0.427	0.427	0.288	0.288	

10.11. 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	24	25.50	25.10	0.209	0.229	0.161	0.177	
								25	12	24.50	24.00	0.165	0.185	0.129	0.145	
					Left Tilt	23230	782.0	1	24	25.50	25.10	0.107	0.117	0.086	0.095	
								25	12	24.50	24.00	0.089	0.100	0.072	0.081	
					Right Touch	23230	782.0	1	24	25.50	25.10	0.227	0.249	0.179	0.196	64
								25	12	24.50	24.00	0.181	0.203	0.144	0.162	
					Right Tilt	23230	782.0	1	24	25.50	25.10	0.103	0.113	0.083	0.091	
								25	12	24.50	24.00	0.084	0.095	0.068	0.076	
	Body & Hotspot	QPSK	Mode B	5	Rear	23230	782.0	1	24	25.50	25.10	0.771	0.845	0.497	0.545	65
								25	12	24.50	24.00	0.454	0.509	0.289	0.324	
					Front	23230	782.0	1	24	25.50	25.10	0.277	0.304	0.188	0.206	
								25	12	24.50	24.00	0.217	0.243	0.148	0.166	
	Hotspot	QPSK	Mode B	5	Edge 2	23230	782.0	1	24	25.50	25.10	0.489	0.536	0.323	0.354	
								25	12	24.50	24.00	0.382	0.429	0.253	0.284	
					Edge 3	23230	782.0	1	24	25.50	25.10	0.168	0.184	0.081	0.089	
								25	12	24.50	24.00	0.129	0.145	0.062	0.070	
					Edge 4	23230	782.0	1	24	25.50	25.10	0.276	0.303	0.182	0.200	
								25	12	24.50	24.00	0.227	0.255	0.149	0.167	

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	24	24.50	24.50	0.407	0.407	0.305	0.305	
								25	12	23.50	23.50	0.370	0.370	0.268	0.268	
					Left Tilt	23230	782.0	1	24	24.50	24.50	0.284	0.284	0.184	0.184	
								25	12	23.50	23.50	0.227	0.227	0.147	0.147	
					Right Touch	23230	782.0	1	24	24.50	24.50	0.533	0.533	0.379	0.379	66
								25	12	23.50	23.50	0.439	0.439	0.312	0.312	
					Right Tilt	23230	782.0	1	24	24.50	24.50	0.372	0.372	0.217	0.217	
								25	12	23.50	23.50	0.301	0.301	0.177	0.177	
	Body & Hotspot	QPSK	Mode B	5	Rear	23230	782.0	1	24	24.50	24.50	0.525	0.525	0.327	0.327	67
								25	12	23.50	23.50	0.430	0.430	0.267	0.267	
					Front	23230	782.0	1	24	24.50	24.50	0.306	0.306	0.203	0.203	
								25	12	23.50	23.50	0.242	0.242	0.162	0.162	
	Hotspot	QPSK	Mode B	5	Edge 1	23230	782.0	1	24	24.50	24.50	0.107	0.107	0.060	0.060	
								25	12	23.50	23.50	0.081	0.081	0.044	0.044	
					Edge 2	23230	782.0	1	24	24.50	24.50	0.240	0.240	0.157	0.157	
								25	12	23.50	23.50	0.190	0.190	0.124	0.124	
					Edge 4	23230	782.0	1	24	24.50	24.50	0.296	0.296	0.195	0.195	
								25	12	23.50	23.50	0.247	0.247	0.163	0.163	

10.12. LTE Band 14 (10MHz Bandwidth)

Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	RB offset	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
										Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT1	Head	QPSK	Mode A	0	Left Touch	23330	793.0	1	24	25.50	24.93	0.218	0.248	0.170	0.194	
								25	12	24.50	24.00	0.179	0.201	0.140	0.157	
					Left Tilt	23330	793.0	1	24	25.50	24.93	0.106	0.121	0.085	0.097	
								25	12	24.50	24.00	0.087	0.098	0.070	0.079	
					Right Touch	23330	793.0	1	24	25.50	24.93	0.248	0.283	0.193	0.220	68
								25	12	24.50	24.00	0.193	0.217	0.152	0.171	
					Right Tilt	23330	793.0	1	24	25.50	24.93	0.128	0.146	0.104	0.119	
								25	12	24.50	24.00	0.094	0.105	0.077	0.086	
	Body & Hotspot	QPSK	Mode B	5	Rear	23330	793.0	1	24	25.50	24.93	0.729	0.831	0.462	0.527	69
								25	12	24.50	24.00	0.569	0.638	0.360	0.404	
					Front	23330	793.0	1	24	25.50	24.93	0.339	0.386	0.225	0.256	
								25	12	24.50	24.00	0.267	0.300	0.178	0.200	
	Hotspot	QPSK	Mode B	5	Edge 2	23330	793.0	1	24	25.50	24.93	0.539	0.614	0.352	0.401	
								25	12	24.50	24.00	0.416	0.467	0.273	0.306	
					Edge 3	23330	793.0	1	24	25.50	24.93	0.182	0.207	0.083	0.095	
								25	12	24.50	24.00	0.143	0.160	0.066	0.074	
					Edge 4	23330	793.0	1	24	25.50	24.93	0.275	0.313	0.180	0.205	
								25	12	24.50	24.00	0.216	0.242	0.141	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	23330	793.0	1	24	24.50	24.50	0.380	0.380	0.275	0.275	
								25	12	23.50	23.50	0.314	0.314	0.228	0.228	
					Left Tilt	23330	793.0	1	24	24.50	24.50	0.257	0.257	0.162	0.162	
								25	12	23.50	23.50	0.213	0.213	0.137	0.137	
					Right Touch	23330	793.0	1	24	24.50	24.50	0.525	0.525	0.347	0.347	70
								25	12	23.50	23.50	0.434	0.434	0.286	0.286	
					Right Tilt	23330	793.0	1	24	24.50	24.50	0.269	0.269	0.157	0.157	
								25	12	23.50	23.50	0.266	0.266	0.157	0.157	
	Body & Hotspot	QPSK	Mode B	5	Rear	23330	793.0	1	24	24.50	24.50	0.552	0.552	0.335	0.335	71
								25	12	23.50	23.50	0.460	0.460	0.279	0.279	
					Front	23330	793.0	1	24	24.50	24.50	0.262	0.262	0.175	0.175	
								25	12	23.50	23.50	0.186	0.186	0.125	0.125	
	Hotspot	QPSK	Mode B	5	Edge 1	23330	793.0	1	24	24.50	24.50	0.151	0.151	0.079	0.079	
								25	12	23.50	23.50	0.090	0.090	0.047	0.047	
					Edge 2	23330	793.0	1	24	24.50	24.50	0.284	0.284	0.185	0.185	
								25	12	23.50	23.50	0.235	0.235	0.153	0.153	
					Edge 4	23330	793.0	1	24	24.50	24.50	0.321	0.321	0.210	0.210	
								25	12	23.50	23.50	0.266	0.266	0.174	0.174	

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	25.50	25.00	0.171	0.192	0.116	0.130	
								50	24	24.50	24.30	0.162	0.170	0.109	0.114	
					Left Tilt	26365	1882.5	1	49	25.50	25.00	0.126	0.141	0.079	0.089	
								50	24	24.50	24.30	0.125	0.131	0.079	0.083	
					Right Touch	26365	1882.5	1	49	25.50	25.00	0.275	0.309	0.175	0.196	72
								50	24	24.50	24.30	0.264	0.276	0.168	0.176	
					Right Tilt	26365	1882.5	1	49	25.50	25.00	0.166	0.186	0.102	0.114	
								50	24	24.50	24.30	0.162	0.170	0.100	0.105	
	Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	19.50	19.50	0.871	0.871	0.399	0.399	
								50	24	19.50	19.50	0.799	0.799	0.368	0.368	
						26365	1882.5	1	49	19.50	19.50	0.907	0.907	0.410	0.410	
								50	24	19.50	19.50	0.899	0.899	0.405	0.405	
						26590	1905.0	100	0	19.50	19.37	0.858	0.883	0.390	0.402	
								1	49	19.50	19.50	0.909	0.909	0.407	0.407	
					Front	26365	1882.5	50	24	19.50	19.50	0.947	0.947	0.424	0.424	73
								1	49	19.50	19.50	0.380	0.380	0.216	0.216	
						26590	1905.0	50	24	19.50	19.50	0.377	0.377	0.214	0.214	
								1	49	19.50	19.50	0.328	0.328	0.160	0.160	
ANT2	Head	QPSK	Mode A	0	Edge 2	26365	1882.5	50	24	19.50	19.50	0.322	0.322	0.159	0.159	
								1	49	19.50	19.50	0.962	0.962	0.485	0.485	
					Edge 3	26140	1860.0	50	24	19.50	19.50	0.960	0.960	0.458	0.458	74
								1	49	19.50	19.50	0.895	0.895	0.429	0.429	
						26365	1882.5	50	24	19.50	19.50	0.878	0.878	0.421	0.421	
								100	0	19.50	19.37	0.884	0.910	0.423	0.435	
						26590	1905.0	1	49	19.50	19.50	0.662	0.662	0.325	0.325	
								50	24	19.50	19.50	0.642	0.642	0.315	0.315	
					Edge 4	26365	1882.5	1	49	19.50	19.50	0.127	0.127	0.067	0.067	
								50	24	19.50	19.50	0.124	0.124	0.065	0.065	
	Body & Hotspot	QPSK	Mode B	5	Left Touch	26365	1882.5	1	49	20.50	20.30	0.295	0.309	0.188	0.197	
								50	24	20.50	20.40	0.204	0.209	0.106	0.108	
					Left Tilt	26365	1882.5	1	49	20.50	20.30	0.553	0.579	0.294	0.308	
								50	24	20.50	20.40	0.467	0.478	0.248	0.254	
					Right Touch	26140	1860.0	1	49	20.50	20.30	0.868	0.909	0.480	0.503	
								50	24	20.50	20.40	0.858	0.878	0.474	0.485	
						26365	1882.5	1	49	20.50	20.30	0.878	0.919	0.488	0.511	75
								50	24	20.50	20.40	0.861	0.881	0.478	0.489	
						26590	1905.0	100	0	20.50	20.27	0.852	0.898	0.473	0.498	
								1	49	20.50	20.40	0.797	0.816	0.450	0.460	
					Right Tilt	26365	1882.5	50	24	20.50	20.40	0.777	0.795	0.439	0.449	
								1	49	20.50	20.30	0.766	0.802	0.381	0.399	
	Hotspot	QPSK	Mode B	5	Edge 1	26365	1882.5	50	24	18.50	18.00	0.215	0.241	0.113	0.127	
								1	49	18.50	17.80	0.292	0.343	0.131	0.154	
					Edge 2	26365	1882.5	50	24	18.50	18.00	0.245	0.275	0.112	0.126	
								1	49	18.50	17.80	<0.001	<0.001	<0.001	<0.001	
					Edge 3	26365	1882.5	50	24	18.50	18.00	<0.001	<0.001	<0.001	<0.001	
								1	49	18.50	17.80	0.315	0.370	0.162	0.190	
					Edge 4	26365	1882.5	50	24	18.50	18.00	0.302	0.339	0.155	0.174	
								1	49	18.50	17.80	0.217	0.255	0.115	0.135	
					Front	26365	1882.5	50	24	18.50	18.00	0.215	0.241	0.113	0.127	
								1	49	18.50	17.80	0.616	0.724	0.272	0.320	

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	25.00	24.46	0.508	0.575	0.328	0.371	77
								50	24	24.00	23.56	0.451	0.499	0.290	0.321	
					Left Tilt	26365	1882.5	1	49	25.00	24.46	0.329	0.372	0.196	0.222	
								50	24	24.00	23.56	0.274	0.303	0.163	0.180	
					Right Touch	26365	1882.5	1	49	25.00	24.46	0.244	0.276	0.164	0.186	
								50	24	24.00	23.56	0.226	0.250	0.151	0.167	
					Right Tilt	26365	1882.5	1	49	25.00	24.46	0.233	0.264	0.135	0.153	
								50	24	24.00	23.56	0.207	0.229	0.119	0.132	
	Body & Hotspot	QPSK	Mode B	5	Rear	26140	1860.0	1	49	20.00	20.00	0.845	0.845	0.445	0.445	
								50	24	20.00	20.00	0.835	0.835	0.436	0.436	
						26365	1882.5	1	49	20.00	20.00	0.925	0.925	0.483	0.483	
								50	24	20.00	19.95	0.914	0.924	0.476	0.481	
					Rear	26590	1905.0	100	0	20.00	19.97	0.891	0.898	0.464	0.468	
								1	49	20.00	19.86	0.925	0.955	0.482	0.498	78
						26590	1905.0	50	24	20.00	19.73	0.873	0.929	0.449	0.478	
								1	49	20.00	20.00	0.550	0.550	0.286	0.286	
					Front	26365	1882.5	50	24	20.00	19.95	0.544	0.550	0.282	0.285	
								1	49	20.00	20.00	0.250	0.250	0.136	0.136	
	Hotspot	QPSK	Mode B	5	Edge 3	26365	1882.5	50	24	20.00	19.95	0.244	0.247	0.131	0.132	
								1	49	20.00	20.00	0.604	0.604	0.301	0.301	
					Edge 4	26365	1882.5	50	24	20.00	19.95	0.595	0.602	0.295	0.298	
								1	49	20.00	20.00	0.250	0.250	0.136	0.136	
ANT4	Head	QPSK	Mode A	0	Left Touch	26140	1860.0	1	49	21.20	21.20	0.798	0.798	0.430	0.430	
								50	24	21.20	21.20	0.779	0.779	0.420	0.420	
						26365	1882.5	1	49	21.20	21.20	0.842	0.842	0.450	0.450	
								50	24	21.20	21.20	0.826	0.826	0.440	0.440	
						26590	1905.0	100	0	21.20	21.20	0.812	0.812	0.435	0.435	
								1	49	21.20	21.14	0.889	0.901	0.471	0.478	79
						26590	1905.0	50	24	21.20	21.20	0.881	0.881	0.465	0.465	
								1	49	21.20	21.20	0.530	0.530	0.270	0.270	
					Left Tilt	26365	1882.5	50	24	21.20	21.20	0.524	0.524	0.268	0.268	
								1	49	21.20	21.20	0.194	0.194	0.109	0.109	
					Right Touch	26365	1882.5	50	24	21.20	21.20	0.192	0.192	0.107	0.107	
								1	49	21.20	21.20	0.185	0.185	0.101	0.101	
					Right Tilt	26365	1882.5	50	24	21.20	21.20	0.181	0.181	0.099	0.099	
								1	49	21.20	21.20	0.194	0.194	0.109	0.109	
	Body & Hotspot	QPSK	Mode B	5	Rear	26365	1882.5	1	49	21.00	21.00	0.587	0.587	0.302	0.302	80
								50	24	21.00	21.00	0.574	0.574	0.295	0.295	
					Front	26365	1882.5	1	49	21.00	21.00	0.275	0.275	0.152	0.152	
								50	24	21.00	21.00	0.272	0.272	0.149	0.149	
	Hotspot	QPSK	Mode B	5	Edge 1	26365	1882.5	1	49	21.00	21.00	0.285	0.285	0.137	0.137	
								50	24	21.00	21.00	0.281	0.281	0.132	0.132	
					Edge 2	26365	1882.5	1	49	21.00	21.00	0.766	0.766	0.367	0.367	81
								50	24	21.00	21.00	0.753	0.753	0.360	0.360	

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	24	25.50	25.00	0.205	0.230	0.160	0.180	82
								25	12	24.50	23.90	0.162	0.186	0.127	0.146	
					Left Tilt	26865	831.5	1	24	25.50	25.00	0.117	0.131	0.092	0.103	
								25	12	24.50	23.90	0.094	0.108	0.073	0.084	
					Right Touch	26865	831.5	1	24	25.50	25.00	0.209	0.235	0.164	0.184	
								25	12	24.50	23.90	0.178	0.204	0.140	0.161	
					Right Tilt	26865	831.5	1	24	25.50	25.00	0.107	0.120	0.084	0.094	
								25	12	24.50	23.90	0.089	0.102	0.070	0.080	
	Body & Hotspot	QPSK	Mode B	5	Rear	26865	831.5	1	24	25.50	25.00	0.482	0.541	0.307	0.344	83
								25	12	24.50	23.90	0.387	0.444	0.248	0.285	
					Front	26865	831.5	1	24	25.50	25.00	0.293	0.329	0.194	0.218	
								25	12	24.50	23.90	0.240	0.276	0.159	0.183	
	Hotspot	QPSK	Mode B	5	Edge 2	26865	831.5	1	24	25.50	25.00	0.442	0.496	0.293	0.329	
								25	12	24.50	23.90	0.354	0.406	0.234	0.269	
					Edge 3	26865	831.5	1	24	25.50	25.00	0.181	0.203	0.092	0.103	
								25	12	24.50	23.90	0.208	0.239	0.102	0.117	
					Edge 4	26865	831.5	1	24	25.50	25.00	0.218	0.245	0.144	0.162	
								25	12	24.50	23.90	0.173	0.199	0.114	0.131	
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	24	24.50	24.50	0.476	0.476	0.350	0.350	84
								25	12	23.50	23.50	0.390	0.390	0.287	0.287	
					Left Tilt	26865	831.5	1	24	24.50	24.50	0.311	0.311	0.201	0.201	
								25	12	23.50	23.50	0.254	0.254	0.165	0.165	
					Right Touch	26865	831.5	1	24	24.50	24.50	0.682	0.682	0.455	0.455	
								25	12	23.50	23.50	0.549	0.549	0.367	0.367	
					Right Tilt	26865	831.5	1	24	24.50	24.50	0.439	0.439	0.247	0.247	
								25	12	23.50	23.50	0.374	0.374	0.211	0.211	
	Body & Hotspot	QPSK	Mode B	5	Rear	26865	831.5	1	24	24.50	24.50	0.521	0.521	0.322	0.322	85
								25	12	23.50	23.50	0.429	0.429	0.265	0.265	
					Front	26865	831.5	1	24	24.50	24.50	0.290	0.290	0.198	0.198	
								25	12	23.50	23.50	0.241	0.241	0.164	0.164	
	Hotspot	QPSK	Mode B	5	Edge 1	26865	831.5	1	24	24.50	24.50	0.151	0.151	0.087	0.087	
								25	12	23.50	23.50	0.119	0.119	0.068	0.068	
					Edge 2	26865	831.5	1	24	24.50	24.50	0.206	0.206	0.136	0.136	
								25	12	23.50	23.50	0.168	0.168	0.111	0.111	
					Edge 4	26865	831.5	1	24	24.50	24.50	0.256	0.256	0.170	0.170	
								25	12	23.50	23.50	0.202	0.202	0.133	0.133	

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	24	23.50	23.50	0.208	0.208	0.123	0.123	86
								25	12	23.50	23.50	0.202	0.202	0.118	0.118	
					Left Tilt	27710	2310.0	1	24	23.50	23.50	0.173	0.173	0.083	0.083	
								25	12	23.50	23.50	0.133	0.133	0.068	0.068	
					Right Touch	27710	2310.0	1	24	23.50	23.50	0.388	0.388	0.218	0.218	
								25	12	23.50	23.50	0.384	0.384	0.215	0.215	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	24	20.20	20.10	0.964	0.986	0.406	0.415	87
								25	12	20.20	20.10	0.837	0.856	0.358	0.366	
								50	0	20.20	20.03	0.840	0.873	0.360	0.374	
					Front	27710	2310.0	1	24	20.20	20.10	0.446	0.456	0.209	0.214	
								25	12	20.20	20.10	0.424	0.434	0.199	0.204	
								25	12	20.20	20.10	0.424	0.434	0.199	0.204	
	Hotspot	QPSK	Mode B	5	Edge 2	27710	2310.0	1	24	20.20	20.10	0.768	0.786	0.311	0.318	
								25	12	20.20	20.10	0.776	0.794	0.312	0.319	
					Edge 3	27710	2310.0	1	24	20.20	20.10	0.138	0.141	0.059	0.060	
								25	12	20.20	20.10	0.135	0.138	0.006	0.006	
					Edge 4	27710	2310.0	1	24	20.20	20.10	0.024	0.025	0.009	0.009	
								25	12	20.20	20.10	0.023	0.024	0.009	0.009	
ANT2	Head	QPSK	Mode A	0	Left Touch	27710	2310.0	1	24	20.50	20.50	0.396	0.396	0.175	0.175	88
								25	12	20.50	20.40	0.389	0.398	0.172	0.176	
					Left Tilt	27710	2310.0	1	24	20.50	20.50	0.521	0.521	0.225	0.225	
								25	12	20.50	20.40	0.492	0.503	0.210	0.215	
					Right Touch	27710	2310.0	1	24	20.50	20.50	0.966	0.966	0.408	0.408	
								25	12	20.50	20.40	0.950	0.972	0.402	0.411	
					Right Tilt	27710	2310.0	50	0	20.50	20.30	0.941	0.985	0.396	0.415	
								1	24	20.50	20.50	0.874	0.874	0.352	0.352	
								25	12	20.50	20.40	0.876	0.896	0.350	0.358	
								50	0	20.50	20.30	0.836	0.875	0.335	0.351	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	24	20.20	20.14	0.803	0.815	0.352	0.357	89
								25	12	20.20	20.06	0.778	0.803	0.347	0.358	
								50	0	20.20	19.95	0.777	0.822	0.342	0.362	
					Front	27710	2310.0	1	24	20.20	20.14	0.502	0.509	0.228	0.231	
								25	12	20.20	20.06	0.407	0.420	0.180	0.186	
								25	12	20.20	20.06	0.407	0.420	0.180	0.186	
	Hotspot	QPSK	Mode B	5	Edge 1	27710	2310.0	1	24	20.20	20.14	0.648	0.657	0.256	0.260	
								25	12	20.20	20.06	0.595	0.614	0.228	0.235	
					Edge 2	27710	2310.0	1	24	20.20	20.14	0.779	0.790	0.321	0.326	
								25	12	20.20	20.06	0.625	0.645	0.264	0.273	
					Edge 4	27710	2310.0	1	24	20.20	20.14	0.569	0.577	0.242	0.246	
								25	12	20.20	20.06	0.600	0.620	0.253	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	27710	2310.0	1	24	23.50	23.50	0.445	0.445	0.445	0.445	90
								25	12	23.50	23.50	0.369	0.369	0.369	0.369	
					Left Tilt	27710	2310.0	1	24	23.50	23.50	0.146	0.146	0.146	0.146	
								25	12	23.50	23.50	0.126	0.126	0.126	0.126	
					Right Touch	27710	2310.0	1	24	23.50	23.50	0.221	0.221	0.221	0.221	
								25	12	23.50	23.50	0.189	0.189	0.189	0.189	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	24	20.20	19.90	0.904	0.969	0.904	0.969	
								25	12	20.20	19.82	0.899	0.981	0.899	0.981	
								50	0	20.20	19.82	0.914	0.998	0.914	0.998	91
					Front	27710	2310.0	1	24	20.20	19.90	0.518	0.555	0.518	0.555	
								25	12	20.20	19.82	0.514	0.561	0.514	0.561	
								25	12	20.20	19.82	0.514	0.561	0.514	0.561	
ANT4	Head	QPSK	Mode A	0	Edge 3	27710	2310.0	1	24	20.20	19.90	0.224	0.240	0.224	0.240	
								25	12	20.20	19.82	0.220	0.240	0.220	0.240	
					Edge 4	27710	2310.0	1	24	20.20	19.90	0.699	0.749	0.699	0.749	
								25	12	20.20	19.82	0.694	0.757	0.694	0.757	
								25	12	20.20	19.82	0.694	0.757	0.694	0.757	
								25	12	20.20	19.82	0.694	0.757	0.694	0.757	
	Body & Hotspot	QPSK	Mode B	5	Rear	27710	2310.0	1	24	20.00	19.85	0.795	0.823	0.377	0.390	
								25	12	20.00	19.78	0.780	0.821	0.370	0.389	
								50	0	20.00	19.73	0.804	0.855	0.382	0.406	93
					Front	27710	2310.0	1	24	20.00	19.85	0.360	0.373	0.195	0.202	
								25	12	20.00	19.78	0.351	0.369	0.190	0.200	
								25	12	20.00	19.78	0.281	0.291	0.105	0.109	
	Hotspot	QPSK	Mode B	5	Edge 1	27710	2310.0	1	24	20.00	19.85	0.281	0.291	0.105	0.109	
								25	12	20.00	19.78	0.219	0.230	0.082	0.086	
	Edge 2	QPSK	Mode B	5	Edge 2	27710	2310.0	1	24	20.00	19.85	0.286	0.296	0.150	0.155	
								25	12	20.00	19.78	0.277	0.292	0.144	0.152	

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	25.50	24.70	0.063	0.076	0.035	0.042	
								50	24	24.50	23.57	0.061	0.076	0.034	0.042	
					Left Tilt	40620	2593.0	1	49	25.50	24.70	0.070	0.084	0.037	0.044	
								50	24	24.50	23.57	0.056	0.069	0.028	0.035	
					Right Touch	40620	2593.0	1	49	25.50	24.70	0.223	0.268	0.116	0.139	94
								50	24	24.50	23.57	0.176	0.218	0.090	0.112	
					Right Tilt	40620	2593.0	1	49	25.50	24.70	0.071	0.085	0.037	0.044	
								50	24	24.50	23.57	0.060	0.074	0.028	0.035	
	Body & Hotspot	QPSK	Mode B	5	Rear	40620	2593.0	1	49	23.50	23.30	0.676	0.708	0.291	0.305	95
								50	24	23.50	23.22	0.659	0.703	0.282	0.301	
					Front	40620	2593.0	1	49	23.50	23.30	0.298	0.312	0.142	0.149	
								50	24	23.50	23.22	0.293	0.313	0.138	0.147	
	Hotspot	QPSK	Mode B	5	Edge 2	39750	2506.0	1	49	23.50	23.30	0.923	0.966	0.356	0.373	
								50	24	23.50	23.22	0.908	0.968	0.348	0.371	96
						40185	2549.5	1	49	23.50	23.20	0.857	0.918	0.330	0.354	
								50	24	23.50	23.10	0.843	0.924	0.324	0.355	
						40620	2593.0	1	49	23.50	23.20	0.750	0.804	0.291	0.312	
								50	24	23.50	23.15	0.759	0.823	0.294	0.319	
								100	0	23.50	23.08	0.816	0.898	0.313	0.345	
						41055	2636.5	1	49	23.50	23.10	0.694	0.761	0.275	0.302	
								50	24	23.50	23.00	0.765	0.858	0.298	0.334	
					41490	2680.0		1	49	23.50	23.40	0.734	0.751	0.286	0.293	
								50	24	23.50	23.30	0.722	0.756	0.281	0.294	
					Edge 3	40620	2593.0	1	49	23.50	23.30	0.156	0.163	0.068	0.071	
								50	24	23.50	23.22	0.152	0.162	0.068	0.072	
					Edge 4	40620	2593.0	1	49	23.50	23.30	0.031	0.032	0.010	0.010	
								50	24	23.50	23.22	0.029	0.031	0.009	0.009	

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	22.00	22.00	0.596	0.596	0.228	0.228	
								50	24	22.00	21.60	0.467	0.512	0.178	0.195	
					Left Tilt	39750	2506.0	1	49	22.00	22.00	0.324	0.324	0.130	0.130	
						40185	2549.5	1	49	22.00	22.00	0.536	0.536	0.206	0.206	
						40620	2593.0	1	49	22.00	22.00	0.922	0.922	0.337	0.337	
								50	24	22.00	21.60	0.719	0.788	0.263	0.288	
								100	0	22.00	21.54	0.726	0.808	0.265	0.295	
						41055	2636.5	1	49	22.00	22.00	0.958	0.958	0.349	0.349	
						41490	2680.0	1	49	22.00	22.00	0.958	0.958	0.342	0.342	
					Right Touch	39750	2506.0	1	49	22.00	22.00	0.785	0.785	0.349	0.349	
								50	24	22.00	21.50	0.674	0.756	0.295	0.331	
						40185	2549.5	1	49	22.00	22.00	0.911	0.911	0.399	0.399	
								50	24	22.00	21.60	0.788	0.864	0.341	0.374	
						40620	2593.0	1	49	22.00	22.00	0.998	0.998	0.402	0.402	97
								50	24	22.00	21.60	0.809	0.887	0.331	0.363	
								100	0	22.00	21.54	0.811	0.902	0.333	0.371	
						41055	2636.5	1	49	22.00	22.00	0.839	0.839	0.349	0.349	
								50	24	22.00	21.60	0.811	0.889	0.334	0.366	
						41490	2680.0	1	49	22.00	22.00	0.816	0.816	0.338	0.338	
								50	24	22.00	21.60	0.785	0.861	0.322	0.353	
					Right Tilt	39750	2506.0	1	49	22.00	22.00	0.827	0.827	0.337	0.337	
								50	24	22.00	21.50	0.664	0.745	0.270	0.303	
						40185	2549.5	1	49	22.00	22.00	0.946	0.946	0.384	0.384	
								50	24	22.00	21.60	0.800	0.877	0.323	0.354	
						40620	2593.0	1	49	22.00	22.00	0.934	0.934	0.361	0.361	
								50	24	22.00	21.60	0.865	0.948	0.334	0.366	
								100	0	22.00	21.54	0.820	0.912	0.316	0.352	
						41055	2636.5	1	49	22.00	22.00	0.695	0.695	0.270	0.270	
								50	24	22.00	21.60	0.654	0.717	0.252	0.276	
						41490	2680.0	1	49	22.00	22.00	0.856	0.856	0.327	0.327	
								50	24	22.00	21.60	0.800	0.877	0.304	0.333	
	Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	49	22.20	22.20	0.792	0.792	0.302	0.302	
								50	24	22.20	22.00	0.586	0.614	0.229	0.240	
						40185	2549.5	1	49	22.20	22.20	0.873	0.873	0.324	0.324	98
								50	24	22.20	22.00	0.714	0.748	0.266	0.279	
						40620	2593.0	1	49	22.20	22.00	0.789	0.826	0.288	0.302	
								50	24	22.20	21.60	0.699	0.803	0.274	0.315	
								100	0	22.20	21.54	0.663	0.773	0.245	0.285	
					41055	2636.5	1	49	22.20	22.20	0.778	0.778	0.287	0.287		
							50	24	22.20	22.00	0.715	0.749	0.264	0.276		
					41490	2680.0	1	49	22.20	22.20	0.834	0.834	0.308	0.308		
							50	24	22.20	22.00	0.740	0.775	0.261	0.273		
	Front	40620	2593.0	1	49	22.20	22.00	0.318	0.333	0.141	0.148					
				50	24	22.20	21.60	0.246	0.282	0.109	0.125					
	Hotspot	QPSK	Mode B	5	Edge 1	40620	2593.0	1	49	22.20	22.00	0.430	0.450	0.159	0.166	
								50	24	22.20	22.00	0.296	0.310	0.112	0.117	
					Edge 2	40620	2593.0	1	49	22.20	22.00	0.042	0.044	0.022	0.023	
								50	24	22.20	22.00	0.030	0.031	0.014	0.015	
					Edge 4	40620	2593.0	1	49	22.20	22.00	0.552	0.578	0.222	0.232	
								50	24	22.20	22.00	0.439	0.460	0.176	0.184	

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	40620	2593.0	1	49	25.50	24.50	0.087	0.110	0.044	0.055	99					
								50	24	24.50	23.50	0.062	0.078	0.035	0.044						
					Left Tilt	40620	2593.0	1	49	25.50	24.50	0.047	0.059	0.028	0.035						
								50	24	24.50	23.50	0.038	0.048	0.022	0.028						
					Right Touch	40620	2593.0	1	49	25.50	24.50	0.122	0.154	0.062	0.078						
								50	24	24.50	23.50	0.096	0.121	0.050	0.063						
					Right Tilt	40620	2593.0	1	49	25.50	24.50	0.040	0.050	0.018	0.023						
								50	24	24.50	23.50	0.033	0.042	0.014	0.018						
					Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	49	23.70	23.60		0.711	0.728	0.283	0.290	100
												50	24	23.70	23.50		0.672	0.704	0.258	0.270	
	40185	2549.5	1	49						23.70	23.70	0.904	0.904	0.353	0.353						
			50	24						23.70	23.70	0.844	0.844	0.329	0.329						
	40620	2593.0	1	49						23.70	23.70	0.852	0.852	0.331	0.331						
			50	24						23.70	23.70	0.802	0.802	0.316	0.316						
	41055	2636.5	100	0					23.70	23.62	0.807	0.821	0.318	0.324							
			1	49					23.70	23.70	0.889	0.889	0.349	0.349							
	41490	2680.0	50	24					23.70	23.70	0.832	0.832	0.326	0.326							
			1	49					23.70	23.70	0.828	0.828	0.322	0.322							
	Hotspot	QPSK	Mode B	5	Edge 3	40620	2593.0	1	49	23.70	23.70	0.395	0.395	0.193	0.193						
								50	24	23.70	23.70	0.370	0.370	0.180	0.180						
					Edge 4	40620	2593.0	1	49	23.70	23.70	0.106	0.106	0.044	0.044						
								50	24	23.70	23.70	0.087	0.087	0.039	0.039						

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	21.70	21.60	0.735	0.752	0.335	0.343	101	
								50	24	21.70	21.28	0.723	0.797	0.332	0.366		
						40185	2549.5	1	49	21.70	21.20	0.861	0.966	0.405	0.454		
								50	24	21.70	21.10	0.852	0.978	0.401	0.460		
						40620	2593.0	1	49	21.70	21.10	0.868	0.997	0.393	0.451		
								50	24	21.70	21.20	0.865	0.971	0.389	0.436		
						41055	2636.5	100	0	21.70	21.10	0.869	0.998	0.393	0.451		
								1	49	21.70	21.40	0.881	0.944	0.384	0.411		
						41490	2680.0	50	24	21.70	21.30	0.878	0.963	0.382	0.419		
								1	49	21.70	21.30	0.901	0.988	0.371	0.407		
								50	24	21.70	21.30	0.906	0.993	0.371	0.407		
								1	49	21.70	21.30	0.901	0.988	0.371	0.407		
					Left Tilt	40620	2593.0	1	49	21.70	21.10	0.632	0.726	0.277	0.318		
								50	24	21.70	21.20	0.649	0.728	0.280	0.314		
						Right Touch	40620	2593.0	1	49	21.70	21.10	0.280	0.321	0.148		0.170
									50	24	21.70	21.20	0.236	0.265	0.125		0.140
						Right Tilt	40620	2593.0	1	49	21.70	21.10	0.198	0.227	0.094		0.107
									50	24	21.70	21.20	0.200	0.224	0.096		0.107
	Body & Hotspot	QPSK	Mode B	5	Rear	39750	2506.0	1	49	22.50	22.50	0.382	0.382	0.177	0.177		102
								50	24	22.50	21.70	0.293	0.352	0.136	0.164		
						40185	2549.5	1	49	22.50	22.50	0.864	0.864	0.409	0.409		
								50	24	22.50	21.80	0.748	0.879	0.353	0.415		
						40620	2593.0	1	49	22.50	22.40	0.826	0.845	0.387	0.396		
								50	24	22.50	21.90	0.724	0.831	0.337	0.387		
					41055	2636.5	100	0	22.50	21.70	0.727	0.874	0.339	0.408			
							1	49	22.50	22.50	0.716	0.716	0.333	0.333			
					41490	2680.0	50	24	22.50	21.80	0.600	0.705	0.272	0.320			
							1	49	22.50	22.50	0.878	0.878	0.375	0.375			
					Front	40620	2593.0	50	24	22.50	21.70	0.718	0.863	0.313	0.376		
								1	49	22.50	21.70	0.718	0.863	0.313	0.376		
			50	24		22.50	21.90	0.383	0.440	0.184	0.211						
			1	49		22.50	21.90	0.383	0.440	0.184	0.211						
			1	49		22.50	22.40	0.170	0.174	0.071	0.073						
			50	24		22.50	21.90	0.143	0.164	0.059	0.068						
	Hotspot	QPSK	Mode B	5	Edge 1	40620	2593.0	1	49	22.50	22.40	0.170	0.174	0.071	0.073		
								50	24	22.50	21.90	0.143	0.164	0.059	0.068		
					Edge 2	39750	2506.0	1	49	22.50	22.50	0.464	0.464	0.206	0.206		
								50	24	22.50	22.50	0.778	0.778	0.339	0.339		
						40185	2549.5	1	49	22.50	22.40	0.782	0.800	0.332	0.340		
50								24	22.50	21.90	0.671	0.770	0.285	0.327			
41055						2636.5	50	24	22.50	22.50	0.831	0.831	0.357	0.357			
					41490		2680.0	50	24	22.50	22.50	0.827	0.827	0.350	0.350		

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

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 is 1 the duty cycle is 43.3%.

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 SAR (W/kg)		
ANT1	Head	43.3%	27.00	217.01	63.3%	25.50	224.60	0.268	0.259	3.38%
ANT3	Head	43.3%	26.50	193.41	63.3%	25.50	224.60	0.154	0.133	13.88%

Conclusion:

ANT3 SAR test for Power Class 2 is required base on the reported SAR vs. output power linearly scaled >10%.

LTE Band 41 Power Class 2 SAR Measured Results

Antenna	RF Exposure Conditions	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	0	Left Touch	40620	2593.0	1	49	26.5	26.5	0.133	0.133	0.068	0.068	153

10.18. 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	25.50	25.25	0.090	0.095	0.063	0.067						
								50	24	24.50	24.39	0.070	0.072	0.050	0.051						
					Left Tilt	132322	1745.0	1	49	25.50	25.25	0.084	0.089	0.053	0.056						
								50	24	24.50	24.39	0.061	0.063	0.039	0.040						
					Right Touch	132322	1745.0	1	49	25.50	25.25	0.169	0.179	0.112	0.119		103				
								50	24	24.50	24.39	0.133	0.136	0.088	0.090						
					Right Tilt	132322	1745.0	1	49	25.50	25.25	0.057	0.061	0.039	0.041						
								50	24	24.50	24.39	0.045	0.046	0.030	0.031						
					Body & Hotspot	QPSK	Mode B	5	Rear	132322	1745.0	1	49	18.70	18.43		0.579	0.617	0.288	0.307	104
												50	24	18.70	18.42		0.599	0.638	0.297	0.317	
	Front	132322	1745.0	1					49	18.70	18.43	0.337	0.359	0.170	0.181						
				50					24	18.70	18.42	0.333	0.355	0.168	0.179						
	Hotspot	QPSK	Mode B	5					Edge 2	132322	1745.0	1	49	18.70	18.43	0.138	0.147	0.079	0.084		
												50	24	18.70	18.42	0.135	0.144	0.078	0.083		
									Edge 3	132072	1720.0	1	49	18.70	18.33	0.856	0.932	0.392	0.427		
												50	24	18.70	18.32	0.816	0.890	0.374	0.408		
										132322	1745.0	1	49	18.70	18.43	0.858	0.914	0.394	0.420		
												50	24	18.70	18.42	0.922	0.983	0.418	0.445		
					132572	1770.0	100	0		18.70	18.48	0.911	0.959	0.416	0.438						
							1	49		18.70	18.36	0.912	0.987	0.418	0.452		105				
					50	24	18.70	18.56	0.947	0.978	0.430	0.444									
					Edge 4	132322	1745.0	1	49	18.70	18.43	0.014		0.015	0.009	0.009					
								50	24	18.70	18.42	0.013	0.014	0.007	0.008						
					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	132322	1745.0	1	49	21.50	21.48	0.309	0.310	0.167	0.168	
													50	24	21.50	21.42	0.292	0.297	0.159	0.162	
Left Tilt										132322	1745.0	1	49	21.50	21.48	0.481	0.483	0.245	0.246		
												50	24	21.50	21.42	0.469	0.478	0.238	0.242		
Right Touch	132072	1720.0	1	49						21.50	21.46	0.806	0.813	0.418	0.422						
			50	24						21.50	21.40	0.797	0.816	0.413	0.423						
	132322	1745.0	1	49						21.50	21.48	0.886	0.889	0.467	0.469						
			50	24						21.50	21.42	0.855	0.871	0.449	0.457						
	100	0	21.50	21.47						0.858	0.864	0.450	0.453								
		1	49	21.50						21.50	0.886	0.886	0.471		0.471						
50	24	21.50	21.47	0.879						0.885	0.464	0.467									
Right Tilt	132072	1720.0	1	49						21.50	21.46	0.834		0.842	0.415	0.419					
			50	24						21.50	21.40	0.835	0.855	0.413	0.423						
	132322	1745.0	1	49						21.50	21.48	0.904	0.907	0.449	0.451						
			50	24						21.50	21.42	0.891	0.907	0.442	0.450		106				
	100	0	21.50	21.47						0.889	0.895	0.442	0.445								
	1	49	21.50	21.50						0.891	0.891	0.442	0.442								
50	24	21.50	21.47	0.881						0.887	0.436	0.439									
Body & Hotspot	QPSK	Mode B	5	Rear						132072	1720.0	1		49	20.50	20.50	0.781	0.781	0.366	0.366	
												50	24	20.50	20.50	0.777	0.777	0.364	0.364		
						132322	1745.0	1	49	20.50	20.50	0.878	0.878	0.416	0.416	107					
								50	24	20.50	20.50	0.854	0.854	0.403	0.403						
				132572		1770.0	1	49	20.50	20.50	0.818	0.818	0.386	0.386							
							50	24	20.50	20.50	0.810	0.810	0.386	0.386							
				Front		132322	1745.0	1	49	20.50	20.50	0.434	0.434	0.225	0.225						
								50	24	20.50	20.50	0.420	0.420	0.218	0.218						
Hotspot	QPSK	Mode B	5			Edge 1	132072	1720.0	1	49	20.50	20.50	0.779	0.779	0.378	0.378					
									50	24	20.50	20.50	0.773	0.773	0.375	0.375					
				132322			1745.0	1	49	20.50	20.50	0.806	0.806	0.395	0.395						
								50	24	20.50	20.50	0.803	0.803	0.390	0.390						
				132572		1770.0	1	49	20.50	20.50	0.786	0.786	0.383	0.383							
							50	24	20.50	20.50	0.781	0.781	0.380	0.380							
				Edge 2		132322	1745.0	1	49	20.50	20.50	0.012	0.012	0.007	0.007						
								50	24	20.50	20.50	0.012	0.012	0.007	0.007						
						Edge 4	132322	1745.0	1	49	20.50	20.50	0.356	0.356	0.202	0.202					
									50	24	20.50	20.50	0.339	0.339	0.193	0.193					

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	25.00	25.00	0.340	0.340	0.225	0.225	108
								50	24	24.00	24.00	0.280	0.280	0.185	0.185	
					Left Tilt	132322	1745.0	1	49	25.00	25.00	0.212	0.212	0.133	0.133	
								50	24	24.00	24.00	0.175	0.175	0.110	0.110	
					Right Touch	132322	1745.0	1	49	25.00	25.00	0.204	0.204	0.141	0.141	
								50	24	24.00	24.00	0.170	0.170	0.117	0.117	
					Right Tilt	132322	1745.0	1	49	25.00	25.00	0.165	0.165	0.105	0.105	
								50	24	24.00	24.00	0.139	0.139	0.088	0.088	
	Body & Hotspot	QPSK	Mode B	5	Rear	132072	1720.0	1	49	21.50	21.37	0.868	0.895	0.474	0.489	
								50	24	21.50	21.38	0.855	0.879	0.466	0.479	
						132322	1745.0	1	49	21.50	21.40	0.909	0.930	0.487	0.498	
								50	24	21.50	21.40	0.893	0.914	0.479	0.490	
						132572	1770.0	1	49	21.50	21.40	0.954	0.976	0.503	0.515	109
								50	24	21.50	21.30	0.920	0.963	0.489	0.512	
					Front	132322	1745.0	1	49	21.50	21.40	0.362	0.370	0.198	0.203	
								50	24	21.50	21.40	0.355	0.363	0.192	0.197	
	Hotspot	QPSK	Mode B	5	Edge 3	132322	1745.0	1	49	21.50	21.40	0.203	0.208	0.100	0.102	
								50	24	21.50	21.40	0.200	0.205	0.098	0.101	
					Edge 4	132322	1745.0	1	49	21.50	21.40	0.676	0.692	0.346	0.354	
								50	24	21.50	21.40	0.651	0.666	0.334	0.342	
ANT4	Head	QPSK	Mode A	0	Left Touch	132072	1720.0	1	49	21.50	21.40	0.770	0.788	0.410	0.420	
								50	24	21.50	20.85	0.679	0.789	0.364	0.423	
						132322	1745.0	1	49	21.50	21.40	0.838	0.858	0.449	0.459	
								50	24	21.50	21.00	0.742	0.833	0.397	0.445	
						132572	1770.0	1	49	21.50	21.40	0.892	0.913	0.485	0.496	110
								50	24	21.50	20.90	0.719	0.826	0.393	0.451	
					Left Tilt	132322	1745.0	1	49	21.50	21.40	0.752	0.770	0.356	0.364	
								50	24	21.50	21.00	0.603	0.677	0.286	0.321	
					Right Touch	132322	1745.0	1	49	21.50	21.40	0.267	0.273	0.153	0.157	
								50	24	21.50	21.00	0.207	0.232	0.117	0.131	
					Right Tilt	132322	1745.0	1	49	21.50	21.40	0.212	0.217	0.116	0.119	
								50	24	21.50	21.00	0.171	0.192	0.095	0.107	
	Body & Hotspot	QPSK	Mode B	5	Rear	132322	1745.0	1	49	22.00	22.00	0.592	0.592	0.304	0.304	111
								50	24	22.00	21.40	0.473	0.543	0.243	0.279	
					Front	132322	1745.0	1	49	22.00	22.00	0.484	0.484	0.254	0.254	
								50	24	22.00	21.40	0.392	0.450	0.210	0.241	
	Hotspot	QPSK	Mode B	5	Edge 1	132322	1745.0	1	49	22.00	22.00	0.506	0.506	0.234	0.234	
								50	24	22.00	21.40	0.408	0.468	0.189	0.217	
					Edge 2	132072	1720.0	1	49	22.00	22.00	0.818	0.818	0.408	0.408	
								50	24	22.00	21.18	0.686	0.828	0.340	0.410	
						132322	1745.0	1	49	22.00	22.00	0.845	0.845	0.414	0.414	
								50	24	22.00	21.40	0.722	0.829	0.351	0.403	
						132572	1770.0	1	49	22.00	21.40	0.772	0.886	0.373	0.428	112
								50	24	22.00	21.20	0.717	0.862	0.346	0.416	

10.19. LTE-uplink 2CA Band 7 (20MHz + 20MHz BW)

SAR Testing was performed on each antenna – ANT1, ANT2, ANT3, and ANT4 – separately using the corresponding power modes: Mode A and Mode B. Mode A power was used when the DUT was tested on Head exposure condition. Mode B power was used when the DUT was tested on Body-worn & Hotspot exposure condition.

Antenna	RF Exposure Conditions	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	Body	QPSK	5	Rear	21001	2525.1	1	99	21199	2544.9	1	0	20.20	19.90	0.833	0.893	0.347	0.372	154
ANT 2	Head	QPSK	0	Right Tilt	21152	2540.2	1	99	21350	2560.0	1	0	19.50	19.20	0.788	0.844	0.321	0.344	
ANT 3	Body	QPSK	5	Rear	20850	2510.0	1	99	21048	2529.8	1	0	21.50	21.00	0.505	0.567	0.208	0.233	
ANT 4	Head	QPSK	0	Left Touch	21001	2525.1	1	99	21199	2544.9	1	0	18.70	18.40	0.803	0.860	0.364	0.390	

10.20. LTE-uplink 2CA Band 41 PC3 (20MHz + 20MHz BW)

SAR Testing was performed on each antenna – ANT1, ANT2, ANT3, and ANT4 – separately using the corresponding power modes: Mode A and Mode B. Mode A power was used when the DUT was tested on Head exposure condition. Mode B power was used when the DUT was tested on Body-worn & Hotspot exposure condition.

From May 2017 TCB Workshop, HPUE Power Class 2 allows 26±2 dBm and does not support uplink-downlink configurations 0 and 6 or inter-band CA

Antenna	RF Exposure Conditions	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	Body	QPSK	5	Edge 2	39750	2506.0	1	99	39948	2525.8	1	0	23.50	23.20	0.859	0.920	0.336	0.360	155
ANT 2	Head	QPSK	0	Right Touch	40521	2583.1	1	99	40719	2602.9	1	0	22.00	21.60	0.546	0.599	0.241	0.264	
ANT 3	Body	QPSK	5	Rear	40086	2539.6	1	99	40284	2559.4	1	0	23.70	23.70	0.902	0.902	0.359	0.359	
ANT 4	Head	QPSK	0	Left Touch	41292	2660.2	1	99	41490	2680.0	1	0	21.70	21.40	0.706	0.756	0.304	0.326	

10.21. Wi-Fi (DTS Band)

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

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

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

Antenna	WWAN Power	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.	
											Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled		
ANT3	Cell OFF	Head	802.11b	Mode A	0	Left Touch	6	2437	0.083	99.2%	22.00	22.00	0.076	0.077	0.038	0.038	113	
						Left Tilt	6	2437	0.036	99.2%	22.00	22.00						
						Right Touch	6	2437	0.066	99.2%	22.00	22.00						
						Right Tilt	6	2437	0.025	99.2%	22.00	22.00						
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	1.430	99.2%	21.25	21.25	1.030	1.039	0.418	0.421	114	
							11	2462	1.030	99.2%	21.25	21.25	0.612	0.617	0.263	0.265		
						Front	6	2437	1.230	99.2%	21.25	21.25	0.888	0.895	0.382	0.385		
							11	2462	0.646	99.2%	21.25	21.25	0.513	0.517	0.225	0.227		
		Hotspot	802.11b	Mode B	5	Edge 3	6	2437	0.692	99.2%	21.25	21.25						
						Edge 4	6	2437	0.540	99.2%	21.25	21.25						
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	0.935	99.2%	19.75	19.75	0.857	0.864	0.382	0.385		
							6	2437	1.138	99.2%	19.75	19.75	1.130	1.139	0.466	0.470	115	
							11	2462	1.200	99.2%	19.75	19.75	1.030	1.039	0.451	0.455		
						Left Tilt	6	2437	0.797	99.2%	19.75	19.75	0.308	0.311	0.137	0.138		
							Right Touch	6	2437	0.306	99.2%	19.75	19.75					
								6	2437	0.135	99.2%	19.75	19.75					
		Body & Hotspot	802.11b	Mode B	5	Rear	1	2412	0.132	99.2%	20.75	20.75	0.959	0.967	0.460	0.464		
							6	2437	1.340	99.2%	20.75	20.75	0.980	0.988	0.450	0.454		
							11	2462	2.180	99.2%	20.75	20.75	1.070	1.079	0.518	0.522	116	
						Front	6	2437	0.572	99.2%	20.75	20.75	0.470	0.474	0.225	0.227		
		Hotspot	802.11b	Mode B	5	Edge 1	6	2437	0.328	99.2%	20.75	20.75	0.323	0.326	0.125	0.126		
							1	2412	1.070	99.2%	20.75	20.75	0.822	0.829	0.353	0.356		
							6	2437	1.100	99.2%	20.75	20.75	0.801	0.808	0.357	0.360		
						11	2462	1.260	99.2%	20.75	20.75	1.080	1.089	0.464	0.468	117		
		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)	
											Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled		
ANT3	Cell ON	Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.629	99.2%	17.00	17.00	0.424	0.428	0.184	0.186	118	
						Front	6	2437	0.372	99.2%	17.00	17.00	0.296	0.298	0.119	0.120		
		Hotspot	802.11b	Mode B	5	Edge 3	6	2437	0.236	99.2%	17.00	17.00						
						Edge 4	6	2437	0.286	99.2%	17.00	17.00						
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	0.667	99.2%	15.50	15.50	0.409	0.412	0.176	0.177	119	
						Left Tilt	6	2437	0.362	99.2%	15.50	15.50	0.308	0.311	0.137	0.138		
						Right Touch	6	2437	0.155	99.2%	15.50	15.50						
						Right Tilt	6	2437	0.135	99.2%	15.50	15.50						
		Body & Hotspot	802.11b	Mode B	5	Rear	6	2437	0.367	99.2%	17.50	17.50	0.280	0.282	0.125	0.126	120	
						Front	6	2437	0.229	99.2%	17.50	17.50						
		Hotspot	802.11b	Mode B	5	Edge 1	6	2437	0.181	99.2%	17.50	17.50						
						Edge 2	6	2437	0.34	99.2%	17.50	17.50						

10.22. 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	0.0862	97.7%	22.00	22.00	0.048	0.049	0.013	0.013	121				
							Left Tilt	54	5270	0.00462	97.7%	22.00	22.00									
							Right Touch	54	5270	0.0443	97.7%	22.00	22.00									
							Right Tilt	54	5270	0.0779	97.7%	22.00	22.00									
		U-NII-1	Body & Airplay	802.11n (HT40)	Mode B	5	Rear	38	5190	1.250	97.7%	18.00	18.00	0.753	0.771	0.240	0.246					
							46	5230	1.830	97.7%	18.00	18.00	1.010	1.034	0.294	0.301	122					
							Front	46	5230	0.058	97.7%	18.00	18.00									
							Edge 3	46	5230	0.333	97.7%	18.00	18.00	0.205	0.210	0.064	0.065					
	Airplay	802.11n (HT40)	Mode B	5	Edge 4	46	5230	0.101	97.7%	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.				
												Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled					
ANT5	Cell OFF	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	138	5690	0.144	95.6%	22.00	22.00	0.026	0.027	0.007	0.007	123				
							Left Tilt	138	5690	0.038	95.6%	22.00	22.00									
							Right Touch	138	5690	0.064	95.6%	22.00	22.00									
							Right Tilt	138	5690	0.072	95.6%	22.00	22.00									
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	106	5530	1.330	95.6%	17.50	17.50	0.840	0.878	0.254	0.266					
							122	5610	1.680	95.6%	17.50	17.50	1.130	1.182	0.321	0.336	124					
							138	5690	2.090	95.6%	17.50	17.50	1.060	1.108	0.310	0.324						
							Front	138	5690	0.108	95.6%	17.50	17.50									
Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	138	5690	0.451	95.6%	17.50	17.50	0.254	0.266	0.084	0.088								
				Edge 4	138	5690	0.148	95.6%	17.50	17.50												
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-3	Head	802.11a	Mode A	0	Left Touch	157	5785	0.113	98.9%	22.50	22.50	0.043	0.043	0.012	0.012	125				
							Left Tilt	157	5785	0.035	98.9%	22.50	22.50									
							Right Touch	157	5785	0.053	98.9%	22.50	22.50									
							Right Tilt	157	5785	0.025	98.9%	22.50	22.50									
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	2.460	95.6%	17.50	17.50	1.040	1.088	0.273	0.285	126				
							Front	155	5775	0.059	95.6%	17.50	17.50									
							Edge 3	155	5775	0.328	95.6%	17.50	17.50	0.172	0.180	0.055	0.058					
							Edge 4	155	5775	0.064	95.6%	17.50	17.50									
Antenna	WWAN Power	Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.				
												Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled					
ANT6	Cell OFF	U-NII-2A	Head	802.11n (HT40)	Mode A	0	Left Touch	54	5270	0.709	97.7%	22.00	22.00	0.444	0.454	0.127	0.130					
							Left Tilt	54	5270	0.905	97.7%	22.00	22.00	0.586	0.600	0.185	0.189					
							Right Touch	54	5270	2.240	97.7%	22.00	22.00	1.020	1.044	0.288	0.295					
								62	5310	0.696	97.7%	18.00	18.00	0.484	0.495	0.140	0.143					
							Right Tilt	54	5270	1.850	97.7%	22.00	22.00	1.130	1.156	0.309	0.316	127				
								62	5310	0.695	97.7%	18.00	18.00	0.436	0.446	0.107	0.109					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	42	5210	3.730	95.6%	16.25	16.25	1.010	1.056	0.261	0.273	128				
							Front	42	5210	0.311	95.6%	16.25	16.25	0.098	0.102	0.030	0.031					
ANT6	Cell OFF	U-NII-1	Body & Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	42	5210	0.210	95.6%	16.25	16.25									
							Edge 4	42	5210	0.023	95.6%	16.25	16.25									
							Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	138	5690	0.148	95.6%	15.75	15.75					
											Edge 4	138	5690	0.786	95.6%	15.75	15.75	0.488	0.510	0.167	0.175	
			Antenna	WWAN Power	Antenna	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.	
															Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled		
			ANT6	Cell OFF	U-NII-3	Head	802.11a (HT20)	Mode A	0	Left Touch	157	5785	0.871	98.9%	22.50	22.50	0.374	0.378	0.135	0.137		
										Left Tilt	157	5785	0.910	98.9%	22.50	22.50	0.468	0.473	0.144	0.146		
Right Touch	149	5745								2.160	98.9%	22.50	22.50	1.000	1.011	0.333	0.337					
	157	5785								2.120	98.9%	22.50	22.50	0.984	0.995	0.296	0.299					
	165	5825								1.840	98.9%	22.50	22.50	1.030	1.042	0.304	0.307	131				
Right Tilt	149	5745								1.540	98.9%	22.50	22.50	0.812	0.821	0.220	0.223					
	157	5785								1.500	98.9%	22.50	22.50	0.849	0.859	0.226	0.229					
	165	5825								1.820	98.9%	22.50	22.50	0.982	0.993	0.298	0.301					
ANT6	Cell OFF	U-NII-3	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	2.040	95.6%	17.00	17.00	1.050	1.098	0.299	0.313	132				
							Front	155	5775	0.153	95.6%	17.00	17.00									
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 1	155	5775	0.144	95.6%	17.00	17.00									
						Edge 4	155	5775	1.040	95.6%	17.00	17.00	0.426	0.445	0.141	0.147						

ANT5 Power Mode A the P_{Cell ON} is same as P_{Cell OFF}

Antenna	WWAN Power	Band	RF Exposure Conditions	Mode	Power Mode	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	Area Scan Max. SAR (W/kg)	Duty Cycle	Power (dBm)		1-g SAR (W/kg)		10-g SAR (W/kg)		Plot No.
												Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled	
ANT5	Cell ON	U-NII-1	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	42	5210	0.474	95.6%	12.75	12.75	0.276	0.289	0.076	0.079	133
							Front	42	5210	0.0142	95.6%	12.75	12.75					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	42	5210	0.082	95.6%	12.75	12.75					
							Edge 4	42	5210	0.0272	95.6%	12.75	12.75					
ANT5	Cell ON	U-NII-2C	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	138	5690	0.439	95.6%	12.25	12.25	0.319	0.334	0.086	0.090	134
							Front	138	5690	0.04	95.6%	12.25	12.25					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	138	5690	0.152	95.6%	12.25	12.25					
							Edge 4	138	5690	0.0583	95.6%	12.25	12.25					
ANT5	Cell ON	U-NII-3	Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	0.612	95.6%	12.25	12.25	0.326	0.341	0.088	0.092	135
							Front	155	5775	0.0186	95.6%	12.25	12.25					
			Airplay	802.11ac (VHT80)	Mode B	5	Edge 3	155	5775	0.104	95.6%	12.25	12.25					
							Edge 4	155	5775	0.0213	95.6%	12.25	12.25					
ANT6	Cell ON	U-NII-1	Head	802.11ac (VHT80)	Mode A	0	Left Touch	42	5210	0.302	95.6%	17.50	17.50					
							Left Tilt	42	5210	0.271	95.6%	17.50	17.50					
							Right Touch	42	5210	0.462	95.6%	17.50	17.50	0.316	0.330	0.078	0.082	
							Right Tilt	42	5210	0.496	95.6%	17.50	17.50	0.325	0.340	0.071	0.074	136
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	42	5210	1.07	95.6%	12.00	12.00	0.408	0.427	0.107	0.112	137
							Front	42	5210	0.0659	95.6%	12.00	12.00					
							Edge 1	42	5210	0.0744	95.6%	12.00	12.00					
							Edge 4	42	5210	0.527	95.6%	12.00	12.00	0.328	0.343	0.105	0.110	
ANT6	Cell ON	U-NII-2C	Head	802.11ac (VHT80)	Mode A	0	Left Touch	138	5690	0.0997	95.6%	17.25	17.25					
							Left Tilt	138	5690	0.105	95.6%	17.25	17.25					
							Right Touch	138	5690	0.504	95.6%	17.25	17.25	0.316	0.330	0.100	0.105	138
							Right Tilt	138	5690	0.194	95.6%	17.25	17.25					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	138	5690	0.75	95.6%	11.50	11.50	0.392	0.410	0.112	0.117	139
							Front	138	5690	0.105	95.6%	11.50	11.50					
							Edge 1	138	5690	0.0467	95.6%	11.50	11.50					
							Edge 4	138	5690	0.117	95.6%	11.50	11.50	0.140	0.146	0.044	0.046	
ANT6	Cell ON	U-NII-3	Head	802.11ac (VHT80)	Mode A	0	Left Touch	155	5775	0.204	95.6%	20.00	20.00					
							Left Tilt	155	5775	0.194	95.6%	20.00	20.00					
							Right Touch	155	5775	0.284	95.6%	20.00	20.00	0.244	0.255	0.078	0.082	140
							Right Tilt	155	5775	0.193	95.6%	20.00	20.00					
			Body & Airplay	802.11ac (VHT80)	Mode B	5	Rear	155	5775	0.831	95.6%	12.75	12.75	0.393	0.411	0.109	0.114	141
							Front	155	5775	0.0473	95.6%	12.75	12.75					
							Edge 1	155	5775	0.0765	95.6%	12.75	12.75					
							Edge 4	155	5775	0.281	95.6%	12.75	12.75	0.181	0.189	0.047	0.049	

10.23. Bluetooth

ANT3 Power Mode A the Phigh is same as Pstandalone

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 P _{low}	Head	GFSK	Mode A	0	Left Touch	39	2441	100.0%	11.00	11.00	0.046	0.046	0.023	0.023	142
					Left Tilt	39	2441	100.0%	11.00	11.00	0.002	0.002	0.000	0.000	
					Right Touch	39	2441	100.0%	11.00	11.00	0.030	0.030	0.011	0.011	
					Right Tilt	39	2441	100.0%	11.00	11.00	0.011	0.011	0.005	0.005	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	11.00	11.00	0.096	0.096	0.041	0.041	
					Front	39	2441	100.0%	11.00	11.00	0.097	0.097	0.147	0.147	143
ANT3 P _{high}	Head	GFSK	Mode A	0	Edge 3	39	2441	100.0%	11.00	11.00	0.041	0.041	0.020	0.020	
					Edge 4	39	2441	100.0%	11.00	11.00	0.042	0.042	0.012	0.012	
	Body & Hotspot	GFSK	Mode B	5	Left Touch	39	2441	100.0%	20.00	20.00	0.157	0.157	0.085	0.085	144
					Left Tilt	39	2441	100.0%	20.00	20.00	0.011	0.011	0.003	0.003	
	Hotspot	GFSK	Mode B	5	Right Touch	39	2441	100.0%	20.00	20.00	0.030	0.030	0.014	0.014	
					Right Tilt	39	2441	100.0%	20.00	20.00	0.010	0.010	0.004	0.004	
ANT3 P _{standalone}	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	16.00	16.00	0.209	0.209	0.084	0.084	
					Front	39	2441	100.0%	16.00	16.00	0.236	0.236	0.101	0.101	145
					Edge 3	39	2441	100.0%	16.00	16.00	0.105	0.105	0.052	0.052	
					Edge 4	39	2441	100.0%	16.00	16.00	0.133	0.133	0.048	0.048	
	Hotspot	GFSK	Mode B	5	Left Touch	39	2441	100.0%	18.50	18.50	0.378	0.378	0.159	0.159	
					Front	39	2441	100.0%	18.50	18.50	0.386	0.386	0.175	0.175	146
ANT4 P _{low}	Body & Hotspot	GFSK	Mode B	5	Edge 3	39	2441	100.0%	18.50	18.50	0.223	0.223	0.113	0.113	
					Edge 4	39	2441	100.0%	18.50	18.50	0.246	0.246	0.085	0.085	
	Hotspot	GFSK	Mode B	5	Left Touch	39	2441	100.0%	10.50	10.50	0.084	0.084	0.033	0.033	147
					Left Tilt	39	2441	100.0%	10.50	10.50	0.059	0.059	0.026	0.026	
	Body & Hotspot	GFSK	Mode B	5	Right Touch	39	2441	100.0%	10.50	10.50	0.017	0.017	0.007	0.007	
					Right Tilt	39	2441	100.0%	10.50	10.50	0.018	0.018	0.007	0.007	
ANT4 P _{high}	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	11.00	11.00	0.068	0.068	0.031	0.031	148
					Front	39	2441	100.0%	11.00	11.00	0.042	0.042	0.020	0.020	
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	11.00	11.00	0.030	0.030	0.011	0.011	
					Edge 2	39	2441	100.0%	11.00	11.00	0.063	0.063	0.029	0.029	
	Body & Hotspot	GFSK	Mode B	5	Left Touch	39	2441	100.0%	14.50	14.50	0.221	0.221	0.101	0.101	149
					Left Tilt	39	2441	100.0%	14.50	14.50	0.188	0.188	0.083	0.083	
ANT4 P _{standalone}	Head	GFSK	Mode A	0	Right Touch	39	2441	100.0%	14.50	14.50	0.060	0.060	0.026	0.026	
					Right Tilt	39	2441	100.0%	14.50	14.50	0.049	0.049	0.020	0.020	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	15.50	15.00	0.197	0.221	0.091	0.102	150
					Front	39	2441	100.0%	15.50	15.00	0.121	0.136	0.059	0.066	
	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	15.50	15.00	0.079	0.089	0.030	0.034	
					Edge 2	39	2441	100.0%	15.50	15.00	0.173	0.194	0.071	0.080	
ANT4 P _{standalone}	Body & Hotspot	GFSK	Mode B	5	Left Touch	39	2441	100.0%	17.00	17.00	0.359	0.359	0.159	0.159	151
					Left Tilt	39	2441	100.0%	17.00	17.00	0.299	0.299	0.133	0.133	
					Right Touch	39	2441	100.0%	17.00	17.00	0.080	0.080	0.039	0.039	
					Right Tilt	39	2441	100.0%	17.00	17.00	0.051	0.051	0.025	0.025	
	Body & Hotspot	GFSK	Mode B	5	Rear	39	2441	100.0%	18.00	18.00	0.376	0.376	0.180	0.180	152
					Front	39	2441	100.0%	18.00	18.00	0.356	0.356	0.173	0.173	
ANT4 P _{standalone}	Hotspot	GFSK	Mode B	5	Edge 1	39	2441	100.0%	18.00	18.00	0.225	0.225	0.081	0.081	
					Edge 2	39	2441	100.0%	18.00	18.00	0.418	0.418	0.186	0.186	156

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 ($\sim 10\%$ 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 12	Body & Hotspot	Rear	No	0.670	N/A	N/A
	LTE Band 13	Body & Hotspot	Rear	No	0.771	N/A	N/A
	LTE Band 14	Body & Hotspot	Rear	No	0.729	N/A	N/A
850	GSM 850	Body & Hotspot	Rear	No	0.300	N/A	N/A
	WCDMA Band 5	Head	Right Touch	No	0.548	N/A	N/A
	CDMA BC10	Head	Right Touch	No	0.603	N/A	N/A
	CDMA BC0	Head	Right Touch	Yes	0.828	0.751	1.10
	LTE Band 26	Head	Right Touch	No	0.682	N/A	N/A
1700	WCDMA Band 4	Head	Right Tilt	Yes	0.992	0.987	1.01
	LTE Band 66	Body & Hotspot	Rear	No	0.954	N/A	N/A
1900	GSM 1900	Body & Hotspot	Rear	No	0.967	N/A	N/A
	WCDMA Band 2	Body & Hotspot	Rear	Yes	0.988	0.964	1.02
	CDMA BC1	Body & Hotspot	Front	No	0.987	N/A	N/A
	LTE Band 25	Hotspot	Edge 3	No	0.962	N/A	N/A
2300	LTE Band 30	Head	Left Touch	Yes	0.983	0.907	1.08
2400	Wi-Fi 802.11b/g/n	Head	Left Touch	Yes	1.130	1.090	1.04
	BT	Body	Front	No	0.386	N/A	N/A
2600	LTE Band 7	Body & Hotspot	Rear	No	0.976	N/A	N/A
	LTE Band 41	Head	Right Touch	Yes	0.998	0.994	1.00
5200	Wi-Fi 802.11a/n/ac	Body	Rear	Yes	1.010	0.997	1.01
5300	Wi-Fi 802.11a/n/ac	Head	Right Tilt	Yes	1.130	1.000	1.13
5500	Wi-Fi 802.11a/n/ac	Body	Rear	Yes	1.130	1.130	1.00
5800	Wi-Fi 802.11a/n/ac	Body	Rear	Yes	1.050	0.997	1.05

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.

According to KDB publication 248227 D01, simultaneous SAR provisions in KDB Publication 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.

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 (for 2.4 GHz) Airplay (for 2.4/5 GHz)	1	WWAN 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 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 ANT1, ANT2, ANT3, and ANT4 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. Condition 3 is covered by conditions 1 and 2.
8. Condition 6 is covered by conditions 4 and 5.
9. Condition 17 is covered by conditions 15 and 16.
10. Condition 20 is covered by conditions 18 and 19.

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	0.049	0.454	0.157	0.221	0.206	0.270	0.611	0.675
	Left Tilt	0.049	0.600	0.011	0.188	0.060	0.237	0.611	0.788
	Right Touch	0.049	1.045	0.030	0.060	0.079	0.109	1.075	1.105
	Right Tilt	0.049	1.156	0.010	0.049	0.059	0.098	1.166	1.205
Body-worn & Hotspot	Rear	1.182	1.161	0.209	0.221	1.391	1.403	1.370	1.382
	Front	0.210	0.102	0.236	0.136	0.446	0.346	0.338	0.238
Hotspot	Edge 1		0.102		0.089		0.089	0.102	0.191
	Edge 2				0.194		0.194		0.194
	Edge 3	0.210		0.105		0.315	0.210	0.105	
	Edge 4	0.210	0.510	0.133		0.343	0.210	0.643	0.510

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	0.248	0.077	0.412	0.157	0.221	0.325	0.661	0.405	0.469
	Left Tilt	0.173	0.077	0.311	0.011	0.188	0.250	0.484	0.184	0.361
	Right Touch	0.471	0.077	0.311	0.030	0.060	0.548	0.782	0.501	0.531
	Right Tilt	0.191	0.077	0.311	0.010	0.049	0.268	0.502	0.201	0.240
Body-worn & Hotspot	Rear	0.988	0.428	0.282	0.209	0.221	1.416	1.270	1.197	1.209
	Front	1.034	0.298	0.282	0.236	0.136	1.332	1.316	1.270	1.169
Hotspot	Edge 2	0.991		0.282		0.194	0.991	1.273	0.991	1.185
	Edge 3	0.987	0.298		0.105		1.285	0.987	1.092	0.987
	Edge 4	0.333	0.298		0.133		0.631	0.333	0.466	0.333
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	0.248	0.049	0.330	0.046	0.084	0.344	0.382	0.624	0.662
	Left Tilt	0.173	0.049	0.330	0.002	0.059	0.224	0.281	0.505	0.562
	Right Touch	0.471	0.049	0.330	0.030	0.017	0.550	0.537	0.831	0.818
	Right Tilt	0.191	0.049	0.340	0.011	0.018	0.251	0.258	0.542	0.549
Body-worn & Airplay	Rear	0.988	0.341	0.427	0.096	0.068	1.425	1.397	1.511	1.483
	Front	1.034	0.341	0.343	0.097	0.042	1.472	1.417	1.474	1.419
Airplay	Edge 2	0.991				0.063	0.991	1.054	0.991	1.054
	Edge 3	0.987	0.341		0.041		1.369	1.328	1.028	0.987
	Edge 4	0.333	0.341	0.343	0.042		0.716	0.674	0.718	0.676

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	0.596	0.077	0.412	0.157	0.221	0.673	1.008	0.753	0.817
	Left Tilt	0.958	0.077	0.311	0.011	0.188	1.035	1.269	0.969	1.146
	Right Touch	0.998	0.077	0.311	0.030	0.060	1.075	1.309	1.028	1.058
	Right Tilt	0.992	0.077	0.311	0.010	0.049	1.069	1.303	1.002	1.041
Body-worn & Hotspot	Rear	0.881	0.428	0.282	0.209	0.221	1.309	1.163	1.090	1.102
	Front	0.509	0.298	0.282	0.236	0.136	0.808	0.791	0.745	0.645
Hotspot	Edge 1	0.815		0.282		0.089	0.815	1.097	0.815	0.903
	Edge 2	0.790		0.282		0.194	0.790	1.072	0.790	0.984
	Edge 4	0.620	0.298		0.133		0.918	0.620	0.753	0.620
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	0.596	0.049	0.330	0.046	0.084	0.691	0.729	0.972	1.010
	Left Tilt	0.958	0.049	0.330	0.002	0.059	1.009	1.066	1.290	1.347
	Right Touch	0.998	0.049	0.330	0.030	0.017	1.077	1.064	1.358	1.345
	Right Tilt	0.992	0.049	0.340	0.011	0.018	1.052	1.059	1.343	1.350
Body-worn & Airplay	Rear	0.881	0.341	0.427	0.096	0.068	1.318	1.290	1.404	1.376
	Front	0.509	0.341	0.343	0.097	0.042	0.947	0.892	0.949	0.894
Airplay	Edge 1	0.815		0.343		0.030	0.815	0.845	1.158	1.188
	Edge 2	0.790				0.063	0.790	0.853	0.790	0.853
	Edge 4	0.620	0.341	0.343	0.042		1.003	0.961	1.005	0.963

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	0.575	0.077	0.412	0.157	0.221	0.652	0.987	0.732	0.796
	Left Tilt	0.372	0.077	0.311	0.011	0.188	0.449	0.683	0.383	0.560
	Right Touch	0.280	0.077	0.311	0.030	0.060	0.357	0.591	0.310	0.340
	Right Tilt	0.264	0.077	0.311	0.010	0.049	0.340	0.575	0.274	0.313
Body-worn & Hotspot	Rear	0.999	0.428	0.282	0.209	0.221	1.426	1.281	1.208	1.220
	Front	0.729	0.298	0.282	0.236	0.136	1.027	1.011	0.965	0.865
Hotspot	Edge 3	0.395	0.298		0.105		0.693	0.395	0.500	0.395
	Edge 4	0.757	0.298		0.133		1.055	0.757	0.890	0.757
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	0.575	0.049	0.330	0.046	0.084	0.670	0.708	0.951	0.989
	Left Tilt	0.372	0.049	0.330	0.002	0.059	0.424	0.480	0.705	0.761
	Right Touch	0.280	0.049	0.330	0.030	0.017	0.359	0.346	0.640	0.627
	Right Tilt	0.264	0.049	0.340	0.011	0.018	0.324	0.331	0.615	0.622
Body-worn & Airplay	Rear	0.999	0.341	0.427	0.096	0.068	1.436	1.408	1.522	1.494
	Front	0.729	0.341	0.343	0.097	0.042	1.167	1.112	1.169	1.114
Airplay	Edge 3	0.395	0.341		0.041		0.777	0.736	0.436	0.395
	Edge 4	0.757	0.341	0.343	0.042		1.140	1.098	1.142	1.100

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

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					$\sum$ 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	0.998	0.077	0.412	0.157	0.221	1.074	1.410	1.155	1.219
	Left Tilt	0.772	0.077	0.311	0.011	0.188	0.849	1.083	0.783	0.960
	Right Touch	0.321	0.077	0.311	0.030	0.060	0.398	0.632	0.351	0.381
	Right Tilt	0.253	0.077	0.311	0.010	0.049	0.330	0.564	0.263	0.302
Body-worn & Hotspot	Rear	0.892	0.428	0.282	0.209	0.221	1.320	1.174	1.101	1.113
	Front	0.593	0.298	0.282	0.236	0.136	0.891	0.875	0.829	0.729
Hotspot	Edge 1	0.528		0.282		0.089	0.528	0.810	0.528	0.617
	Edge 2	0.897		0.282		0.194	0.897	1.179	0.897	1.092
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					$\sum$ 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	0.998	0.049	0.330	0.046	0.084	1.093	1.131	1.374	1.412
	Left Tilt	0.772	0.049	0.330	0.002	0.059	0.823	0.880	1.104	1.161
	Right Touch	0.321	0.049	0.330	0.030	0.017	0.401	0.388	0.681	0.668
	Right Tilt	0.253	0.049	0.340	0.011	0.018	0.313	0.320	0.604	0.611
Body-worn & Airplay	Rear	0.892	0.341	0.427	0.096	0.068	1.329	1.301	1.415	1.387
	Front	0.593	0.341	0.343	0.097	0.042	1.031	0.976	1.033	0.978
Airplay	Edge 1	0.528		0.343		0.030	0.528	0.558	0.871	0.901
	Edge 2	0.897				0.063	0.897	0.960	0.897	0.960

Appendixes

Refer to separated files for the following appendixes.

12204524-S1V1 Appendix A: SAR Setup Photos

12204524-S1V1 Appendix B: SAR System Check Plots

12204524-S1V1 Appendix C: Highest SAR Test Plots

12204524-S1V1 Appendix D: SAR Liquid Tissue Ingredients

12204524-S1V1 Appendix E: SAR Probe Calibration Certificates

12204524-S1V1 Appendix F: SAR Dipole Calibration Certificates

END OF REPORT