



SAR EVALUATION REPORT

Applicant Name:

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Date of Testing:

09/12/22 - 11/14/22

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Element, Columbia, MD, USA

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FCC ID:

A3LSMS918U

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Portable Handset

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model(s):

SM-S918U, SM-S918U1

Equipment Class	Band & Mode	Tx Frequency	SAR			
			1g Head (W/kg)	1g Body-Worn (W/kg)	1g Hotspot (W/kg)	10g Phantom (W/kg)
PCE	GSMPHSR5EDGE-B50	824.05 - 848.80 MHz	0.17	0.28	1.11	N/A
PCE	GSMPHSR5EDGE-1900	1920.20 - 1920.90 MHz	< 0.1	0.42	0.87	1.85
PCE	UMTS-B50	824.05 - 848.80 MHz	0.23	0.39	0.77	N/A
PCE	UMTS-T30	1710.4 - 1725.3 MHz	0.17	0.14	0.48	2.69
PCE	UMTS-T300	1885.4 - 1907.8 MHz	0.19	0.71	1.05	2.91
PCE	LTE-Band 12	699.5 - 699.5 MHz	0.13	0.18	0.31	N/A
PCE	LTE-Band 12	699.5 - 715.3 MHz	0.18	0.23	0.34	N/A
PCE	LTE-Band 13	778.5 - 784.5 MHz	0.18	0.29	0.57	N/A
PCE	LTE-Band 14	798.5 - 798.5 MHz	0.24	0.27	0.52	N/A
PCE	LTE-Band 25 (C-05)	824.7 - 848.3 MHz	0.28	0.35	0.74	N/A
PCE	LTE-Band 5 (C-05)	824.7 - 848.3 MHz	0.28	0.42	0.78	N/A
PCE	LTE-Band 5 (C-05)	1710.7 - 1725.3 MHz	0.09	0.71	1.13	2.58
PCE	LTE-Band 4 (C-05)	1710.7 - 1725.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE-Band 25 (C-05)	1885.7 - 1894.3 MHz	0.78	0.70	0.98	2.41
PCE	LTE-Band 2 (C-05)	1885.7 - 1894.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE-Band 20	2307.5 - 2312.5 MHz	0.62	0.47	0.62	1.69
PCE	LTE-Band 7	2502.5 - 2567.5 MHz	0.52	0.41	0.63	2.90
PCE	LTE-Band 41	2496.5 - 2567.5 MHz	1.18	0.29	0.57	2.54
PCE	LTE-Band 39	2572.5 - 2613.5 MHz	N/A	N/A	N/A	N/A
PCE	LTE-Band 48	2652.5 - 2697.5 MHz	0.66	0.12	0.30	N/A
PCE	NR-Band n11	699.5 - 699.5 MHz	0.15	0.20	0.31	N/A
PCE	NR-Band n12	703.5 - 713.5 MHz	0.19	0.24	0.35	N/A
PCE	NR-Band n26	815.5 - 848.5 MHz	0.28	0.41	0.52	N/A
PCE	NR-Band n26	825.5 - 848.5 MHz	N/A	N/A	N/A	N/A
PCE	NR-Band n26	1712.5 - 1777.5 MHz	0.99	0.78	1.12	3.18
PCE	NR-Band n26	1882.5 - 1912.5 MHz	0.67	0.82	0.99	2.59
PCE	NR-Band n2	1882.5 - 1907.5 MHz	N/A	N/A	N/A	N/A
PCE	NR-Band n20	2307.5 - 2312.5 MHz	0.78	0.59	1.08	2.13
PCE	NR-Band n20	2502.5 - 2567.5 MHz	1.05	0.56	1.09	3.12
PCE	NR-Band n41	2501.01 - 2688 MHz	1.09	0.18	0.66	2.61
PCE	NR-Band n26	2629 - 2653 MHz	N/A	N/A	N/A	N/A
PCE	NR-Band n26	2655 - 2654.98 MHz	0.91	0.14	0.38	N/A
PCE	NR-Band n77 DSS	3455.01 - 3544.98 MHz	0.67	0.13	0.36	2.01
PCE	NR-Band n77	3710 - 3710.3 MHz	0.75	0.14	0.32	1.90
DTS	2.4 GHz WLAN	2412 - 2462 MHz	0.37	<0.1	0.14	N/A
NI	U-NB-1	5180 - 5240 MHz	N/A	N/A	N/A	N/A
NI	U-NB-2A	5250 - 5320 MHz	0.39*	0.19*	N/A	0.98*
NI	U-NB-2C	5520 - 5720 MHz	0.34*	0.13*	N/A	0.94*
NI	U-NB-3	6700 - 6825 MHz	0.22*	0.11*	N/A	0.88*
NI	U-NB-4	6840 - 6885 MHz	0.23*	0.13*	N/A	0.89*
DSS/DTS	Bluetooth	2402 - 2480 MHz	0.18	<0.1	0.22	N/A
DSS	Wi-Fi	2.4 GHz	N/A	N/A	N/A	N/A
Simultaneous SAR per IC60702 D03v02v03:			1.56	1.29	1.16	3.82

* Note: * SAR values represent RF exposure during MIMO operations.

Note: This revised test report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.9 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.

RJ Ortanez
Executive Vice President



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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n12	Voice/Data	701.5 - 713.5 MHz
NR Band n26	Voice/Data	816.5 - 846.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n66	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2	Voice/Data	1852.5 - 1907.5 MHz
NR Band n30	Voice/Data	2307.5 - 2312.5 MHz
NR Band n7	Voice/Data	2502.5 - 2567.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n38	Voice/Data	2575 - 2615 MHz
NR Band n48	Voice/Data	3555 - 3694.98 MHz
NR Band n77 DoD	Voice/Data	3455.01 - 3544.98 MHz
NR Band n77	Voice/Data	3705 - 3975 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2462 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
U-NII-4	Voice/Data	5845 - 5885 MHz
U-NII-5	Voice/Data	5935 - 6415 MHz
U-NII-6	Voice/Data	6435 - 6515 MHz
U-NII-7	Voice/Data	6535 - 6875 MHz
U-NII-8	Voice/Data	6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
NR Band n258	Data	24250 - 24450 MHz; 24750 - 25250 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz
UWB	Data	6489.6 - 7987.2 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 1.11 – Bibliography).

Note that WLAN operations are not enabled with Smart Transmit.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_{design_target} , below the predefined time-averaged power limit (i.e., P_{limit} for sub-6 radio), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN could be found in Section 1.11 - Bibliography).

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_{design_target} or PD_{design_target} , below the predefined time-averaged power limit (i.e., P_{limit} for sub-6 radio, and $input.power.limit$ for 5G mmW NR), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN can be found in Section 1.11 - Bibliography).

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI). Note that the device uncertainty for sub-6GHz WWAN is 1.0dB for this EUT.

Exposure Scenario			Body-Worn	Phablet Max	Phablet Reduced	Head	Hotspot	Earjack	Maximum Tune-Up Output Power*
Averaging Volume			1g	10g	10g	1g	1g	10g	
Spacing			15 mm	8 mm, 6 mm, 12 mm, 0 mm	0 mm	0 mm	10 mm	0 mm	
DSI			0	0	1	2	3	4	
Technology/Band	Antenna	Antenna Group							Pmax
CSM 850	A	AQ0	28.5		28.5	31.4	25.6	28.5	25.3
CSM 1900	A	AQ0	24.6		20.0	33.2	18.0	20.0	22.1
UMTS 850	A	AQ0	29.1		27.4	31.3	26.2	27.4	24.0
UMTS 1750	A	AQ0	25.3		19.0	31.8	19.0	19.0	23.0
UMTS 1900	A	AQ0	25.5		19.5	32.2	17.5	19.5	23.0
LTE Band 71	A	AQ0	27.8		27.8	34.3	27.8	27.8	24.5
LTE Band 12	A	AQ0	29.0		27.5	33.4	27.5	27.5	24.5
LTE Band 13	A	AQ0	29.4		28.6	31.9	27.6	28.6	24.5
LTE Band 14	A	AQ0	28.3		27.9	31.7	27.9	27.9	24.5
LTE Band 26 (Cell)	A	AQ0	29.1		27.6	31.1	26.7	27.6	24.5
LTE Band 5 (Cell)	A	AQ0	29.3		27.8	30.9	26.6	27.8	24.5
LTE Band 66/4 (AWS)	A	AQ0	26.0		20.0	31.4	19.5	20.0	23.5
LTE Band 66/4 (AWS)	F	AG1	20.0		20.0	18.0	20.0	20.0	23.5
LTE Band 25/2 (PCS)	A	AG0	26.0		20.0	33.9	17.5	20.0	23.5
LTE Band 25/2 (PCS)	F	AG1	18.0		18.0	17.0	18.0	18.0	23.5
LTE Band 30	A	AG0	26.7		21.5	33.2	19.0	21.5	22.5
LTE Band 30	F	AG1	20.0		20.0	17.0	20.0	20.0	22.5
LTE Band 7	B	AG0	26.1		20.0	37.7	20.0	20.0	23.0
LTE Band 7	F	AG1	18.5		18.5	16.0	18.5	18.5	23.0
LTE Band 48	G	AG1	18.0		20.0	20.0	18.0	18.0	20.0
LTE Band 41/38 (PC2)	B	AG0	22.0		20.0	22.0	20.0	20.0	22.0
LTE Band 41 (PC2)	B	AG0	22.0		20.0	22.0	20.0	20.0	22.1
LTE Band 41/38 (PC3)	F	AG1	19.0		19.0	17.0	19.0	19.0	22.0
LTE Band 41 (PC2)	F	AG1	19.0		19.0	17.0	19.0	19.0	22.1
NR Band n71	A	AG0	27.3		27.3	33.7	27.3	27.3	24.5
NR Band n12	A	AG0	28.6		27.0	32.8	27.0	27.0	24.5
NR Band n26/n5	A	AG0	29.0		27.4	31.6	25.8	27.4	24.5
NR Band n66	A	AG0	25.6		20.0	32.3	19.5	20.0	23.5
NR Band n66	F	AG1	20.0		20.0	18.0	20.0	20.0	23.5
NR Band n25/n2 (PCS)	A	AG0	24.6		20.0	33.6	17.5	20.0	23.5
NR Band n25/n2 (PCS)	F	AG1	20.0		20.0	17.0	20.0	20.0	23.5
NR Band n30	A	AG0	26.9		21.5	35.4	19.0	21.5	22.5
NR Band n30	F	AG1	20.0		20.0	17.0	20.0	20.0	22.5
NR Band n7	B	AG0	25.8		20.0	36.7	20.0	20.0	23.0
NR Band n7	F	AG1	18.5		18.5	16.0	18.5	18.5	23.0
NR Band n41 Path 1 (PC2)	F	AG1	19.0		19.0	17.0	19.0	19.0	26.0
NR Band n41 Path 1 (PC2)	B	AG0	17.0		17.0	15.0	17.0	17.0	22.0
NR Band n41 Path 1 (PC2)	E	AG1	15.0		15.0	13.0	15.0	15.0	20.0
NR Band n41 Path 1 (PC2)	D	AG0	16.5		16.5	15.5	16.5	16.5	21.0
NR Band n41 Path 2 (PC2)	B	AG0	19.0		19.0	17.0	19.0	19.0	26.0
NR Band n41 Path 2 (PC2)	F	AG1	17.0		17.0	16.0	17.0	17.0	22.0
NR Band n41 Path 2 (PC2)	D	AG0	16.0		16.0	14.5	16.0	16.0	19.0
NR Band n41 Path 2 (PC2)	E	AG1	14.0		14.0	12.5	14.0	14.0	20.0
NR Band n38	F	AG1	19.0		19.0	17.0	19.0	19.0	24.0
NR Band n38	B	AG0	19.0		19.0	17.0	19.0	19.0	24.0
NR Band n48	G	AG1	18.0		18.0	16.0	18.0	18.0	22.5
NR Band n48	C	AG0	13.5		13.5	11.5	13.5	13.5	18.5
NR Band n48	I	AG1	15.5		15.5	13.5	15.5	15.5	21.0
NR Band n48	D	AG0	13.5		13.5	11.5	13.5	13.5	19.0
NR Band n77 DoD (PC2)	G	AG1	18.0		18.0	18.0	18.0	18.0	26.0
NR Band n77 DoD (PC2)	C	AG0	14.0		14.0	14.0	14.0	14.0	20.0
NR Band n77 DoD (PC2)	I	AG1	17.0		17.0	17.0	17.0	17.0	23.5
NR Band n77 DoD (PC2)	D	AG0	14.5		14.5	14.5	14.5	14.5	21.0
NR Band n77 (PC2)	G	AG1	18.0		18.0	18.0	18.0	18.0	26.0
NR Band n77 (PC2)	C	AG0	14.0		14.0	14.0	14.0	14.0	20.5
NR Band n77 (PC2)	I	AG1	17.0		17.0	17.0	17.0	17.0	23.0
NR Band n77 (PC2)	D	AG0	14.5		14.5	14.5	14.5	14.5	21.0



*Note all P_{limit} EFS and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (e.g. GSM and LTE TDD).

*Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty.

The maximum time-averaged output power (dBm) for any Sub6 WWAN technology, band, and DSI = minimum of " P_{limit} EFS" and "Maximum tune up output power P_{max} " + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.

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

Measurement Condition: All conducted power and SAR measurements in this report (Part 1 test) were performed by setting *Reserve_power_margin* (Smart Transmit EFS entry) to 0dB.

1.3 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for WLAN/BT operations during voice or VoIP held to ear scenarios and when 5G NR is active. Per FCC Guidance, the held-to-ear exposure conditions were evaluated at reduced power according to the head SAR positions described in IEEE 1528-2013. Detailed descriptions of the power reduction mechanism are included in the operational description.

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1.4 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D04v01.

Note: Targets for 802.11ax RU operations can be found in 802.11ax RU SAR Exclusion Appendix.

1.4.1 Licensed Output Power

GSM/GPRS/EDGE 850										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Pmax	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (Body-Worn or Phablet Max)	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 1 (Phablet Reduced)	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 2 (Head)	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 3 (Hotspot)	Max Allowed Power	N/A	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	N/A	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 4 (Earjack)	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
GSM/GPRS/EDGE 1900										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Pmax	Max Allowed Power	30.0	30.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 0 (Body-Worn or Phablet Max)	Max Allowed Power	30.0	30.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 1 (Phablet Reduced)	Max Allowed Power	30.0	30.0	27.2	25.4	24.2	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	26.2	24.4	23.2	26.0	24.0	22.0	21.0
DSI = 2 (Head)	Max Allowed Power	30.0	30.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 3 (Hotspot)	Max Allowed Power	N/A	28.2	25.2	23.4	22.2	27.0	25.0	23.0	22.0
	Nominal	N/A	27.2	24.2	22.4	21.2	26.0	24.0	22.0	21.0
DSI = 4 (Earjack)	Max Allowed Power	30.0	30.0	27.2	25.4	24.2	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	26.2	24.4	23.2	26.0	24.0	22.0	21.0

For GSM, the above powers listed are GSM burst average values.

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UMTS Band 5 (850 MHz)					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 0 (Body-Worn or Phablet Max)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 1 (Phablet Reduced)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 2 (Head)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 3 (Hotspot)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 4 (Earjack)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
UMTS Band 4 (1750 MHz)					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 0 (Body-Worn or Phablet Max)	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 1 (Phablet Reduced)	Max Allowed Power	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0
DSI = 2 (Head)	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 3 (Hotspot)	Max Allowed Power	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0
DSI = 4 (Earjack)	Max Allowed Power	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0
UMTS Band 2 (1900 MHz)					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 0 (Body-Worn or Phablet Max)	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 1 (Phablet Reduced)	Max Allowed Power	20.5	19.5	19.5	19.5
	Nominal	19.5	18.5	18.5	18.5
DSI = 2 (Head)	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 3 (Hotspot)	Max Allowed Power	18.5	17.5	17.5	17.5
	Nominal	17.5	16.5	16.5	16.5
DSI = 4 (Earjack)	Max Allowed Power	20.5	19.5	19.5	19.5
	Nominal	19.5	18.5	18.5	18.5

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)					
			Pmax	DSI = 0 (Body-Worn or Phablet Max)	DSI = 1 (Phablet Reduced)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
LTE Band 71	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 12	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 13	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 14	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 26 (Cell)	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 5 (Cell)	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 66 (AWS)	A	Max Allowed Power	24.5	24.5	21.0	24.5	20.5	21.0
		Nominal	23.5	23.5	20.0	23.5	19.5	20.0
LTE Band 66 (AWS)	F	Max Allowed Power	24.5	21.0	21.0	19.0	21.0	21.0
		Nominal	23.5	20.0	20.0	18.0	20.0	20.0
LTE Band 4 (AWS)	A	Max Allowed Power	24.5	24.5	21.0	24.5	20.5	21.0
		Nominal	23.5	23.5	20.0	23.5	19.5	20.0
LTE Band 4 (AWS)	F	Max Allowed Power	24.5	21.0	21.0	19.0	21.0	21.0
		Nominal	23.5	20.0	20.0	18.0	20.0	20.0
LTE Band 25 (PCS)	A	Max Allowed Power	24.5	24.5	21.0	24.5	18.5	21.0
		Nominal	23.5	23.5	20.0	23.5	17.5	20.0
LTE Band 25 (PCS)	F	Max Allowed Power	24.5	19.0	19.0	18.0	19.0	19.0
		Nominal	23.5	18.0	18.0	17.0	18.0	18.0
LTE Band 2 (PCS)	A	Max Allowed Power	24.5	24.5	21.0	24.5	18.5	21.0
		Nominal	23.5	23.5	20.0	23.5	17.5	20.0
LTE Band 2 (PCS)	F	Max Allowed Power	24.5	19.0	19.0	18.0	19.0	19.0
		Nominal	23.5	18.0	18.0	17.0	18.0	18.0
LTE Band 30	A	Max Allowed Power	23.5	23.5	22.5	23.5	20.0	22.5
		Nominal	22.5	22.5	21.5	22.5	19.0	21.5
LTE Band 30	F	Max Allowed Power	23.5	21.0	21.0	18.0	21.0	21.0
		Nominal	22.5	20.0	20.0	17.0	20.0	20.0
LTE Band 7	B	Max Allowed Power	24.0	24.0	21.0	24.0	21.0	21.0
		Nominal	23.0	23.0	20.0	23.0	20.0	20.0
LTE Band 7	F	Max Allowed Power	24.0	19.5	19.5	17.0	19.5	19.5
		Nominal	23.0	18.5	18.5	16.0	18.5	18.5
LTE Band 48	G	Max Allowed Power	23.5	21.0	21.0	19.0	21.0	21.0
		Nominal	22.5	20.0	20.0	18.0	20.0	20.0
LTE Band 41 (PC3)	B	Max Allowed Power	25.0	25.0	23.0	25.0	23.0	23.0
		Nominal	24.0	24.0	22.0	24.0	22.0	22.0
LTE Band 41 (PC2)	B	Max Allowed Power	26.7	26.6	24.6	26.6	24.6	24.6
		Nominal	25.7	25.6	23.6	25.6	23.6	23.6
LTE Band 41 (PC3)	F	Max Allowed Power	25.0	22.0	22.0	20.0	22.0	22.0
		Nominal	24.0	21.0	21.0	19.0	21.0	21.0
LTE Band 41 (PC2)	F	Max Allowed Power	26.7	23.6	23.6	21.6	23.6	23.6
		Nominal	25.7	22.6	22.6	20.6	22.6	22.6
LTE Band 38	B	Max Allowed Power	25.0	25.0	23.0	25.0	23.0	23.0
		Nominal	24.0	24.0	22.0	24.0	22.0	22.0
LTE Band 38	F	Max Allowed Power	25.0	22.0	22.0	20.0	22.0	22.0
		Nominal	24.0	21.0	21.0	19.0	21.0	21.0

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			Pmax	DSI = 0 (Body-Worn or Phablet Max)	DSI = 1 (Phablet Reduced)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
NR Band n71	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
NR Band n12	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
NR Band n26	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
NR Band n5	A	Max Allowed Power	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
NR Band n66	A	Max Allowed Power	24.5	24.5	21.0	24.5	20.5	21.0
		Nominal	23.5	23.5	20.0	23.5	19.5	20.0
NR Band n66	F	Max Allowed Power	24.5	21.0	21.0	19.0	21.0	21.0
		Nominal	23.5	20.0	20.0	18.0	20.0	20.0
NR Band n25	A	Max Allowed Power	24.5	24.5	21.0	24.5	18.5	21.0
		Nominal	23.5	23.5	20.0	23.5	17.5	20.0
NR Band n25	F	Max Allowed Power	24.5	21.0	21.0	18.0	21.0	21.0
		Nominal	23.5	20.0	20.0	17.0	20.0	20.0
NR Band n2 (PCS)	A	Max Allowed Power	24.5	24.5	21.0	24.5	18.5	21.0
		Nominal	23.5	23.5	20.0	23.5	17.5	20.0
NR Band n2 (PCS)	F	Max Allowed Power	24.5	21.0	21.0	18.0	21.0	21.0
		Nominal	23.5	20.0	20.0	17.0	20.0	20.0
NR Band n30	A	Max Allowed Power	23.5	23.5	22.5	23.5	20.0	22.5
		Nominal	22.5	22.5	21.5	22.5	19.0	21.5
NR Band n30	F	Max Allowed Power	23.5	21.0	21.0	18.0	21.0	21.0
		Nominal	22.5	20.0	20.0	17.0	20.0	20.0
NR Band n7	B	Max Allowed Power	24.0	24.0	21.0	24.0	21.0	21.0
		Nominal	23.0	23.0	20.0	23.0	20.0	20.0
NR Band n7	F	Max Allowed Power	24.0	19.5	19.5	17.0	19.5	19.5
		Nominal	23.0	18.5	18.5	16.0	18.5	18.5
NR Band n41 Path 1 (PC2)	F	Max Allowed Power	27.0	20.0	20.0	18.0	20.0	20.0
		Nominal	26.0	19.0	19.0	17.0	19.0	19.0
NR Band n41 Path 2 (PC2)	F	Max Allowed Power	23.0	18.0	18.0	17.0	18.0	18.0
		Nominal	22.0	17.0	17.0	16.0	17.0	17.0
NR Band n41 Path 1 (PC2)	B	Max Allowed Power	23.0	18.0	18.0	16.0	18.0	18.0
		Nominal	22.0	17.0	17.0	15.0	17.0	17.0
NR Band n41 Path 2 (PC2)	B	Max Allowed Power	27.0	20.0	20.0	18.0	20.0	20.0
		Nominal	26.0	19.0	19.0	17.0	19.0	19.0
NR Band n41 Path 1 (PC2)	E	Max Allowed Power	21.0	16.0	16.0	14.0	16.0	16.0
		Nominal	20.0	15.0	15.0	13.0	15.0	15.0
NR Band n41 Path 2 (PC2)	E	Max Allowed Power	21.0	15.0	15.0	13.5	15.0	15.0
		Nominal	20.0	14.0	14.0	12.5	14.0	14.0
NR Band n41 Path 1 (PC2)	D	Max Allowed Power	22.0	17.5	17.5	16.5	17.5	17.5
		Nominal	21.0	16.5	16.5	15.5	16.5	16.5
NR Band n41 Path 2 (PC2)	D	Max Allowed Power	20.0	17.0	17.0	15.5	17.0	17.0
		Nominal	19.0	16.0	16.0	14.5	16.0	16.0
NR Band n38	F	Max Allowed Power	25.0	20.0	20.0	18.0	20.0	20.0
		Nominal	24.0	19.0	19.0	17.0	19.0	19.0
NR Band n38	B	Max Allowed Power	25.0	20.0	20.0	18.0	20.0	20.0
		Nominal	24.0	19.0	19.0	17.0	19.0	19.0
NR Band n48	G	Max Allowed Power	23.5	19.0	19.0	17.0	19.0	19.0
		Nominal	22.5	18.0	18.0	16.0	18.0	18.0
NR Band n48	C	Max Allowed Power	19.5	14.5	14.5	12.5	14.5	14.5
		Nominal	18.5	13.5	13.5	11.5	13.5	13.5
NR Band n48	I	Max Allowed Power	22.0	16.5	16.5	14.5	16.5	16.5
		Nominal	21.0	15.5	15.5	13.5	15.5	15.5
NR Band n48	D	Max Allowed Power	20.0	14.5	14.5	12.5	14.5	14.5
		Nominal	19.0	13.5	13.5	11.5	13.5	13.5
NR Band n77 DoD (PC2)	G	Max Allowed Power	27.0	19.0	19.0	19.0	19.0	19.0
		Nominal	26.0	18.0	18.0	18.0	18.0	18.0
NR Band n77 DoD (PC2)	C	Max Allowed Power	21.5	15.0	15.0	15.0	15.0	15.0
		Nominal	20.5	14.0	14.0	14.0	14.0	14.0
NR Band n77 DoD (PC2)	I	Max Allowed Power	24.0	18.0	18.0	18.0	18.0	18.0
		Nominal	23.0	17.0	17.0	17.0	17.0	17.0
NR Band n77 DoD (PC2)	D	Max Allowed Power	22.0	15.5	15.5	15.5	15.5	15.5
		Nominal	21.0	14.5	14.5	14.5	14.5	14.5
NR Band n77 (PC2)	G	Max Allowed Power	27.0	19.0	19.0	19.0	19.0	19.0
		Nominal	26.0	18.0	18.0	18.0	18.0	18.0
NR Band n77 (PC2)	C	Max Allowed Power	21.5	15.0	15.0	15.0	15.0	15.0
		Nominal	20.5	14.0	14.0	14.0	14.0	14.0
NR Band n77 (PC2)	I	Max Allowed Power	24.0	18.0	18.0	18.0	18.0	18.0
		Nominal	23.0	17.0	17.0	17.0	17.0	17.0
NR Band n77 (PC2)	D	Max Allowed Power	22.0	15.5	15.5	15.5	15.5	15.5
		Nominal	21.0	14.5	14.5	14.5	14.5	14.5

For LTE TDD and NR TDD, the above powers listed are TDD burst average values.

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1.4.2 2.4 GHz Maximum WLAN Output Power

Mode	Band	IEEE 802.11 (in dBm)															
		SISO								MIMO							
		Antenna 2															
		b		g		n		ax (SU)		b CDD + STBC		g (CDD + STBC)		n (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WIFI	2.45 GHz	20.0	19.0	18.0	17.0	18.0	17.0	17.0	16.0	23.0	22.0	21.0	20.0	21.0	20.0	20.0	19.0

1.4.3 2.4 GHz Reduced WLAN Output Powers

The below table is applicable in the following conditions:

- Simultaneous conditions with 5/6 GHz WLAN and/or 5G NR

Mode	Band	IEEE 802.11 (in dBm)															
		SISO								MIMO							
		Antenna 2															
		b		g		n		ax (SU)		b CDD + STBC		g (CDD + STBC)		n (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WIFI	2.45 GHz	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	20.0	19.0	20.0	19.0	20.0	19.0	20.0	19.0

The below table is applicable in the following conditions:

- RCV Active
- RCV Active during simultaneous conditions with 5/6 GHz WLAN and/or 5G NR

Mode	Band	IEEE 802.11 (in dBm)															
		SISO								MIMO							
		Antenna 2															
		b		g		n		ax (SU)		b CDD + STBC		g (CDD + STBC)		n (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WIFI	2.45 GHz	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	19.0	18.0	19.0	18.0	19.0	18.0	19.0	18.0

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1.4.4 5 GHz Maximum WLAN Output Power

Mode	Band	IEEE 802.11 (in dBm)							
		MIMO							
		a (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	UNII-1	20.5	19.5	20.5	19.5	20.5	19.5	20.5	19.5
	UNII-2A	20.5	19.5	20.5	19.5	20.5	19.5	20.5	19.5
	UNII-2C	20.5	19.5	20.5	19.5	20.5	19.5	20.5	19.5
	UNII-3	20.5	19.5	20.5	19.5	20.5	19.5	20.5	19.5
	UNII-4	20.5	19.5	20.5	19.5	20.5	19.5	20.5	19.5
5 GHz WIFI (40MHz BW)	UNII-1			20.0	19.0	20.0	19.0	20.0	19.0
	UNII-2A			20.0	19.0	20.0	19.0	20.0	19.0
	UNII-2C			20.0	19.0	20.0	19.0	20.0	19.0
	UNII-3			20.0	19.0	20.0	19.0	20.0	19.0
	UNII-4			20.0	19.0	20.0	19.0	20.0	19.0
5 GHz WIFI (80MHz BW)	UNII-1					19.0	18.0	19.0	18.0
	UNII-2A					19.0	18.0	19.0	18.0
	UNII-2C					19.0	18.0	19.0	18.0
	UNII-3					19.0	18.0	19.0	18.0
	UNII-4					19.0	18.0	19.0	18.0
5 GHz WIFI (160MHz BW)	UNII-1 & 2A					19.0	18.0	19.0	18.0
	UNII-2C					19.0	18.0	19.0	18.0
	UNII-3 & 4					19.0	18.0	19.0	18.0

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1.4.5 5 GHz Reduced WLAN Output Powers

The below table is applicable in the following conditions:

- Simultaneous conditions with 2.4 GHz WLAN and/or 5G NR

		IEEE 802.11 (in dBm)							
Mode	Band	MIMO							
		a (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	UNII-1	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNII-2A	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNII-2C	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNII-3	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNII-4	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
5 GHz WIFI (40MHz BW)	UNII-1			18.0	17.0	18.0	17.0	18.0	17.0
	UNII-2A			18.0	17.0	18.0	17.0	18.0	17.0
	UNII-2C			18.0	17.0	18.0	17.0	18.0	17.0
	UNII-3			18.0	17.0	18.0	17.0	18.0	17.0
	UNII-4			18.0	17.0	18.0	17.0	18.0	17.0
5 GHz WIFI (80MHz BW)	UNII-1					18.0	17.0	18.0	17.0
	UNII-2A					18.0	17.0	18.0	17.0
	UNII-2C					18.0	17.0	18.0	17.0
	UNII-3					18.0	17.0	18.0	17.0
	UNII-4					18.0	17.0	18.0	17.0
5 GHz WIFI (160MHz BW)	UNII-1 & 2A					18.0	17.0	18.0	17.0
	UNII-2C					18.0	17.0	18.0	17.0
	UNII-3 & 4					18.0	17.0	18.0	17.0

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The below table is applicable in the following conditions:

- RCV Active
- RCV Active during simultaneous conditions with 2.4 GHz WLAN and/or 5G NR

Mode	Band	IEEE 802.11 (in dBm)							
		MIMO							
		a (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	UNII-1	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-2A	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-2C	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-3	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-4	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
5 GHz WIFI (40MHz BW)	UNII-1			16.0	15.0	16.0	15.0	16.0	15.0
	UNII-2A			16.0	15.0	16.0	15.0	16.0	15.0
	UNII-2C			16.0	15.0	16.0	15.0	16.0	15.0
	UNII-3			16.0	15.0	16.0	15.0	16.0	15.0
	UNII-4			16.0	15.0	16.0	15.0	16.0	15.0
5 GHz WIFI (80MHz BW)	UNII-1					16.0	15.0	16.0	15.0
	UNII-2A					16.0	15.0	16.0	15.0
	UNII-2C					16.0	15.0	16.0	15.0
	UNII-3					16.0	15.0	16.0	15.0
	UNII-4					16.0	15.0	16.0	15.0
5 GHz WIFI (160MHz BW)	UNII-1 & 2A					16.0	15.0	16.0	15.0
	UNII-2C					16.0	15.0	16.0	15.0
	UNII-3 & 4					16.0	15.0	16.0	15.0

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1.4.6 2.4 GHz Maximum Bluetooth Output Power

Mode	Single Antenna				Dual Antenna	
	Antenna 1		Antenna 2			
	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Bluetooth (in dBm)	18.5	17.5	18.5	17.5	17.5	16.5
Bluetooth EDR (in dBm)	15.0	14.0	14.5	13.5	14.5	13.5
Bluetooth LE 1Mbps/2Mbps (in dBm)	18.5	17.5	18.5	17.5		
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	11.5	10.5	11.0	10.0		

1.4.7 2.4 GHz Reduced Bluetooth Output Power

The below table is applicable in the following conditions:

- RCV active

REV active

Mode	Single Antenna				Dual Antenna	
	Antenna 1		Antenna 2			
	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Bluetooth (in dBm)	13.0	12.0	13.0	12.0	16.0	15.0
Bluetooth EDR (in dBm)	13.0	12.0	13.0	12.0	14.5	13.5
Bluetooth LE 1Mbps/2Mbps (in dBm)	13.0	12.0	13.0	12.0		
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	11.5	10.5	11.0	10.0		

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1.5 DUT Antenna Locations

The overall dimensions of this device are > 9 x 5 cm. A diagram showing the location of the device antennas can be found in DUT Antenna Diagram & SAR Test Setup Photographs Appendix. Since the display diagonal dimension of this device is > 150 mm and <200 mm, it is considered a “phablet.” Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filing.

Table 1-1
Device Edges/Sides for SAR Testing

Mode	Back	Front	Top	Bottom	Right	Left
GPRS 850	Yes	Yes	No	Yes	Yes	Yes
GPRS 1900	Yes	Yes	No	Yes	Yes	Yes
UMTS 850	Yes	Yes	No	Yes	Yes	Yes
UMTS 1750	Yes	Yes	No	Yes	Yes	Yes
UMTS 1900	Yes	Yes	No	Yes	Yes	Yes
LTE Band 71	Yes	Yes	No	Yes	Yes	Yes
LTE Band 12	Yes	Yes	No	Yes	Yes	Yes
LTE Band 13	Yes	Yes	No	Yes	Yes	Yes
LTE Band 14	Yes	Yes	No	Yes	Yes	Yes
LTE Band 26 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 66 (AWS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
LTE Band 25 (PCS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
LTE Band 30 Antenna A	Yes	Yes	No	Yes	Yes	Yes
LTE Band 7 Antenna B	Yes	Yes	No	Yes	Yes	No
LTE Band 41 Antenna B	Yes	Yes	No	Yes	Yes	No
LTE Band 66 (AWS) Antenna F	Yes	Yes	Yes	No	No	Yes
LTE Band 25 (PCS) Antenna F	Yes	Yes	Yes	No	No	Yes
LTE Band 30 Antenna F	Yes	Yes	Yes	No	No	Yes
LTE Band 7 Antenna F	Yes	Yes	Yes	No	No	Yes
LTE Band 41 Antenna F	Yes	Yes	Yes	No	No	Yes
LTE Band 48	Yes	Yes	Yes	No	No	Yes
NR Band n71	Yes	Yes	No	Yes	Yes	Yes
NR Band n12	Yes	Yes	No	Yes	Yes	Yes
NR Band n26	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 Antenna F	Yes	Yes	Yes	No	No	Yes
NR Band n25 Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n25 Antenna F	Yes	Yes	Yes	No	No	Yes
NR Band n30 Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n30 Antenna F	Yes	Yes	Yes	No	No	Yes
NR Band n7 Antenna B	Yes	Yes	No	Yes	Yes	No
NR Band n7 Antenna F	Yes	Yes	Yes	No	No	Yes
NR Band n41 Antenna F	Yes	Yes	Yes	No	No	Yes
NR Band n41 Antenna B	Yes	Yes	No	Yes	Yes	No
NR Band n41 Antenna E	Yes	Yes	Yes	No	Yes	No
NR Band n41 Antenna D	Yes	Yes	No	Yes	No	Yes
NR Band n48 Antenna G	Yes	Yes	Yes	No	No	Yes
NR Band n48 Antenna C	Yes	Yes	No	Yes	Yes	No
NR Band n48 Antenna I	Yes	Yes	No	No	No	Yes
NR Band n48 Antenna D	Yes	Yes	No	Yes	No	Yes
NR Band n77 Antenna G	Yes	Yes	Yes	No	No	Yes
NR Band n77 Antenna C	Yes	Yes	No	Yes	Yes	No
NR Band n77 Antenna I	Yes	Yes	No	No	No	Yes
NR Band n77 Antenna D	Yes	Yes	No	Yes	No	Yes
2.4 GHz WLAN Ant 2	Yes	Yes	Yes	No	Yes	No
2.4 GHz WLAN MIMO	Yes	Yes	Yes	No	Yes	Yes
5 GHz WLAN MIMO	Yes	Yes	Yes	No	No	Yes
Bluetooth Ant 1	Yes	Yes	Yes	No	No	Yes
Bluetooth Ant 2	Yes	Yes	Yes	No	Yes	No
Bluetooth MIMO	Yes	Yes	Yes	No	Yes	Yes
NFC	Yes	Yes	No	No	Yes	Yes

Note: Particular DUT edges were not required to be evaluated for wireless router SAR or phablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 941225 D06v02r01 Section III and FCC KDB Publication 648474 D04v01r03. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, U-NII-1, U-NII-2A, U-NII-2C, U-NII-4, and WIFI6E operations are disabled.

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1.6 Near Field Communications (NFC) Antenna

This DUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in DUT Antenna Diagram & SAR Test Setup Photographs Appendix.

1.7 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D04v01 procedures.

**Table 1-2
Simultaneous Transmission Scenarios**

No.	Capable Transmitter Configuration	Head	Body Worn Accessory	Wireless Router	Phablet	Notes
1	GSM voice + 2.4GHz Bluetooth Ant 1	Yes*	Yes	N/A	Yes	* Bluetooth Tethering is considered
2	GSM voice + 2.4GHz Bluetooth Ant 2	Yes	Yes	N/A	Yes	
3	GSM voice + 2.4GHz WLAN MIMO	Yes	Yes	N/A	Yes	
4	GSM voice + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
5	GSM voice + 6GHz WLAN MIMO	Yes	Yes	N/A	Yes	
6	GSM voice + 2.4GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
7	GSM voice + 2.4GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
8	GSM voice + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes*	Yes	N/A	Yes	* Bluetooth Tethering is considered
9	GSM voice + 2.4GHz Bluetooth MIMO	Yes	Yes	N/A	Yes	
10	GSM voice + 2.4GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth Tethering is considered
11	GSM voice + 2.4GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth Tethering is considered
12	GSM voice + 2.4GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
13	GSM voice + 2.4GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
14	GSM voice + 2.4GHz Bluetooth MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
15	GSM voice + 2.4GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
16	GSM voice + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth Tethering is considered
17	GSM voice + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth Tethering is considered
18	UMTS + 2.4GHz Bluetooth Ant 1	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
19	UMTS + 2.4GHz Bluetooth Ant 2	Yes	Yes	Yes	Yes	
20	UMTS + 2.4GHz WLAN MIMO	Yes	Yes	Yes	Yes	
21	UMTS + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
22	UMTS + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
23	UMTS + 2.4GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
24	UMTS + 2.4GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
25	UMTS + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
26	UMTS + 2.4GHz Bluetooth MIMO	Yes	Yes	Yes	Yes	
27	UMTS + 2.4GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
28	UMTS + 2.4GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
29	UMTS + 2.4GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
30	UMTS + 2.4GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
31	UMTS + 2.4GHz Bluetooth MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
32	UMTS + 2.4GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
33	UMTS + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
34	UMTS + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth Tethering is considered
35	LTE + 2.4GHz Bluetooth Ant 1	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
36	LTE + 2.4GHz Bluetooth Ant 2	Yes	Yes	Yes	Yes	
37	LTE + 2.4GHz WLAN MIMO	Yes	Yes	Yes	Yes	
38	LTE + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
39	LTE + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
40	LTE + 2.4GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
41	LTE + 2.4GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
42	LTE + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
43	LTE + 2.4GHz Bluetooth MIMO	Yes	Yes	Yes	Yes	
44	LTE + 2.4GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
45	LTE + 2.4GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth Tethering is considered
46	LTE + 2.4GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
47	LTE + 2.4GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
48	LTE + 2.4GHz Bluetooth MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
49	LTE + 2.4GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
50	LTE + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
51	LTE + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth Tethering is considered
52	LTE + NR	Yes	Yes	N/A	Yes	
53	LTE + NR + 2.4GHz Bluetooth Ant 1	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
54	LTE + NR + 2.4GHz Bluetooth Ant 2	Yes	Yes	Yes	Yes	
55	LTE + NR + 2.4GHz WLAN MIMO	Yes	Yes	Yes	Yes	
56	LTE + NR + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
57	LTE + NR + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
58	LTE + NR + 2.4GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
59	LTE + NR + 2.4GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
60	LTE + NR + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
61	LTE + NR + 2.4GHz Bluetooth MIMO	Yes	Yes	Yes	Yes	
62	LTE + NR + 2.4GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
63	LTE + NR + 2.4GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth Tethering is considered
64	LTE + NR + 2.4GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
65	LTE + NR + 2.4GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
66	LTE + NR + 2.4GHz Bluetooth MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
67	LTE + NR + 2.4GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
68	LTE + NR + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
69	LTE + NR + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth Tethering is considered
70	NR + 2.4GHz Bluetooth Ant 1	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
71	NR + 2.4GHz Bluetooth Ant 2	Yes	Yes	Yes	Yes	
72	NR + 2.4GHz WLAN MIMO	Yes	Yes	Yes	Yes	
73	NR + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
74	NR + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
75	NR + 2.4GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
76	NR + 2.4GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
77	NR + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
78	NR + 2.4GHz Bluetooth MIMO	Yes	Yes	Yes	Yes	
79	NR + 2.4GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
80	NR + 2.4GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth Tethering is considered
81	NR + 2.4GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
82	NR + 2.4GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
83	NR + 2.4GHz Bluetooth MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
84	NR + 2.4GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
85	NR + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes*	Yes	Yes*	Yes	* Bluetooth Tethering is considered
86	NR + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth Tethering is considered
87	SPRS/EDGE + 2.4GHz Bluetooth Ant 1	N/A	N/A	Yes*	Yes	* Bluetooth Tethering is considered
88	SPRS/EDGE + 2.4GHz Bluetooth Ant 2	N/A	N/A	Yes	Yes	
89	SPRS/EDGE + 2.4GHz WLAN MIMO	N/A	N/A	Yes	Yes	
90	SPRS/EDGE + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
91	SPRS/EDGE + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
92	SPRS/EDGE + 2.4GHz WLAN MIMO + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
93	SPRS/EDGE + 2.4GHz WLAN MIMO + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
94	SPRS/EDGE + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	N/A	N/A	Yes*	Yes	* Bluetooth Tethering is considered
95	SPRS/EDGE + 2.4GHz Bluetooth MIMO	N/A	N/A	Yes	Yes	
96	SPRS/EDGE + 2.4GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	N/A	N/A	Yes*	Yes	* Bluetooth Tethering is considered
97	SPRS/EDGE + 2.4GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
98	SPRS/EDGE + 2.4GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
99	SPRS/EDGE + 2.4GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
100	SPRS/EDGE + 2.4GHz Bluetooth MIMO + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
101	SPRS/EDGE + 2.4GHz Bluetooth MIMO + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
102	SPRS/EDGE + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	N/A	N/A	Yes*	Yes	* Bluetooth Tethering is considered
103	SPRS/EDGE + 2.4GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	

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1. No other simultaneous scenarios besides described above is supported for this model.
2. When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN Hotspot scenario.
3. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
4. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII-2A, U-NII-2C, and U-NII-4 were not evaluated for wireless router conditions.
5. 6 GHz Wireless Router is not supported, therefore it was not evaluated for wireless router conditions.
6. This device supports 2x2 MIMO Tx for WLAN 802.11a/b/g/n/ac/ax. 802.11a/b/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM.
7. This device supports VoWIFI.
8. This device supports Bluetooth Tethering on Ant 1 only.
9. This device supports VoLTE.
10. This device supports VoNR.
11. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
12. 5G NR FR2 n258, n260, and n261 cannot transmit simultaneously.
13. LTE + 5G NR FR2 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR2 checklist.
14. UWB and NFC were evaluated for phablet based on expected usage conditions.

1.8 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg, SAR is not required for U-NII-1 band according to FCC KDB Publication 248227 D01v02r02.

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A, U-NII-2C, and U-NII-4 WIFI, only 2.4 GHz WIFI, 2.4 GHz Bluetooth, and U-NII-3 WIFI Hotspot SAR tests and combinations are considered for SAR with respect to Wireless Router configurations according to FCC KDB 941225 D06v02r01.

This device supports IEEE 802.11ax with the following features:

- a) Up to 160 MHz Bandwidth only for 5/6 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) 2 Tx antenna output
- d) Up to 1024 QAM is supported
- e) TDWR and Band gap channels are supported for 5/6 GHz
- f) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for U-NII-1, U-NII-2A, U-NII-2C, and U-NII-4 WLAN, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4 GHz Bluetooth, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

Per April 2019 TCB Workshop Notes, SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.

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This device supports 6 GHz WIFI Operations. RF Exposure assessment for these bands can be found in the WIFI 6E RF Exposure Report (report SN can be found in Section 1.11 – Bibliography). Simultaneous transmission analysis is addressed in Multi-Tx and Antenna SAR Considerations Appendix of this report.

(B) Licensed Transmitter(s)

GSM/GPRS/EDGE DTM is not supported for US bands. Therefore, the GSM Voice modes in this report do not transmit simultaneously with GPRS/EDGE Data.

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r04.

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB Publication 941225 D05A v01r02, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive. The downlink carrier aggregation exclusion analysis can be found in Downlink LTE CA RF Conducted Powers Appendix.

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm and less than 200mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.

This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

This device supports LTE/NR capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE/NR Band falls completely within an LTE/NR band with a larger transmission frequency range, both LTE/NR bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE/NR bands share the same transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range.

This device supports both Power Class 2 (PC2) and Power Class 3 (PC3) for LTE Band 41. Per May 2017 TCB Workshop Notes, SAR tests were performed with Power Class 3 (given the specific UL/DL limitations for Power Class 2). Additionally, SAR testing for the power class 2 condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 13).

This device supports LTE Carrier Aggregation (CA) for LTE Band 41, LTE Band 5, LTE Band 66, and LTE Band 48 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

This device can transmit with antenna F for LTE B2/4/7/25/30/38/41/66 and NR Band n2/25/7/66, antenna A for NR Band n30, or antenna B for NR Band n38/41. SAR tests for antenna F, antenna A, and antenna B respectively were additionally performed for these LTE and NR bands to ensure compliance.

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Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 – 3544.98 MHz).

This device uses two transmit pathways for n41 operations (Path 1 and Path 2). For each exposure condition, the pathway with the highest target power was fully evaluated. The worst case for each antenna and exposure condition was additionally evaluated using the other path.

This device supports 5G NR for Bands n258, n260, and n261. RF Exposure assessment and simultaneous transmission analysis for these bands can be found in the Near Field PD Report (report SN can be found in Section 1.11 – Bibliography).

NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.

SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.

1.9 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 648474 D04v01r03 (Phablet Procedures)
- FCC KDB Publication 616217 D04v01r02 (Proximity Sensor)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO, LTE Band 41 Power Class 2/3)
- November 2017, April 2018, October 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax, Dynamic Antenna Tuning)

1.10 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 11.

1.11 Bibliography

Report Type	Report Serial Number
Near Field PD Report (Part 1)	1M2209010098-01.A3L
Near Field PD Part 0 Report	
RF Exposure Part 2 Test Report	1M2209010098-04.A3L
RF Exposure Compliance Summary Report	1M2209010098-05.A3L
RF Exposure Part 0 Test Report	1M2209010098-29.A3L
WIFI 6-8GHz RF exposure	1M2209010098-02.A3L

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2 LTE AND NR INFORMATION

LTE Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	LTE Band 71 (665.5 - 695.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)				
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)				
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)				
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)				
	LTE Band 30 (2307.5 - 2312.5 MHz)				
	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
	LTE Band 38 (2572.5 - 2617.5 MHz)				
	LTE Band 48 (3552.5 - 3697.5 MHz)				
	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
LTE Band 13: 5 MHz, 10 MHz					
LTE Band 14: 5 MHz, 10 MHz					
LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz					
LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz					
LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz					
LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz					
LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz					
LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz					
LTE Band 30: 5 MHz, 10 MHz					
LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz					
LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz					
LTE Band 38: 5 MHz, 10 MHz, 15 MHz, 20 MHz					
LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz					
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133147)		680.5 (133297)		695.5 (133447)
LTE Band 71: 10 MHz	668 (133172)		680.5 (133297)		693 (133422)
LTE Band 71: 15 MHz	670.5 (133197)		680.5 (133297)		690.5 (133397)
LTE Band 71: 20 MHz	673 (133222)		680.5 (133297)		688 (133372)
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)		715.3 (23173)
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)		714.5 (23165)
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)		713.5 (23155)
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)		711 (23130)
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)		784.5 (23255)
LTE Band 13: 10 MHz	N/A		782 (23230)		N/A
LTE Band 14: 5 MHz	790.5 (23305)		793 (23330)		795.5 (23355)
LTE Band 14: 10 MHz	N/A		793 (23330)		N/A
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)		831.5 (26865)		848.3 (27033)
LTE Band 26 (Cell): 3 MHz	815.5 (26705)		831.5 (26865)		847.5 (27025)
LTE Band 26 (Cell): 5 MHz	816.5 (26715)		831.5 (26865)		846.5 (27015)
LTE Band 26 (Cell): 10 MHz	819 (26740)		831.5 (26865)		844 (26990)
LTE Band 26 (Cell): 15 MHz	821.5 (26765)		831.5 (26865)		841.5 (26965)
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)		836.5 (20525)		848.3 (20643)
LTE Band 5 (Cell): 3 MHz	825.5 (20415)		836.5 (20525)		847.5 (20635)
LTE Band 5 (Cell): 5 MHz	826.5 (20425)		836.5 (20525)		846.5 (20625)
LTE Band 5 (Cell): 10 MHz	829 (20450)		836.5 (20525)		844 (20600)
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)		1745 (132322)		1779.3 (132665)
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)		1745 (132322)		1778.5 (132657)
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)		1745 (132322)		1777.5 (132647)
LTE Band 66 (AWS): 10 MHz	1715 (132022)		1745 (132322)		1775 (132622)
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)		1745 (132322)		1772.5 (132597)
LTE Band 66 (AWS): 20 MHz	1720 (132072)		1745 (132322)		1770 (132572)
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)		1732.5 (20175)		1754.3 (20393)
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)		1732.5 (20175)		1753.5 (20385)
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)		1732.5 (20175)		1752.5 (20375)
LTE Band 4 (AWS): 10 MHz	1715 (20000)		1732.5 (20175)		1750 (20350)
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)		1732.5 (20175)		1747.5 (20325)
LTE Band 4 (AWS): 20 MHz	1720 (20050)		1732.5 (20175)		1745 (20300)
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)		1882.5 (26365)		1914.3 (26683)
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)		1882.5 (26365)		1913.5 (26675)
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)		1882.5 (26365)		1912.5 (26665)
LTE Band 25 (PCS): 10 MHz	1855 (26090)		1882.5 (26365)		1910 (26640)
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)		1882.5 (26365)		1907.5 (26615)
LTE Band 25 (PCS): 20 MHz	1860 (26140)		1882.5 (26365)		1905 (26590)
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)		1880 (18900)		1909.3 (19193)
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)		1880 (18900)		1908.5 (19185)
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)		1880 (18900)		1907.5 (19175)
LTE Band 2 (PCS): 10 MHz	1855 (18650)		1880 (18900)		1905 (19150)
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)		1880 (18900)		1902.5 (19125)
LTE Band 2 (PCS): 20 MHz	1860 (18700)		1880 (18900)		1900 (19100)
LTE Band 30: 5 MHz	2307.5 (27195)		2310 (27210)		2312.5 (27235)
LTE Band 30: 10 MHz	N/A		2310 (27210)		N/A
LTE Band 7: 5 MHz	2502.5 (20775)		2535 (21100)		2567.5 (21425)
LTE Band 7: 10 MHz	2505 (20800)		2535 (21100)		2565 (21400)
LTE Band 7: 15 MHz	2507.5 (20825)		2505 (21100)		2562.5 (21375)
LTE Band 7: 20 MHz	2510 (20850)		2535 (21100)		2560 (21350)
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 38: 5 MHz	2572.5 (37775)	2575 (37800)	2595 (38000)	2617.5 (38225)	
LTE Band 38: 10 MHz	2575 (37800)	2575 (37800)	2595 (38000)	2615 (38200)	
LTE Band 38: 15 MHz	2577.5 (37825)	2577.5 (37825)	2595 (38000)	2612.5 (38175)	
LTE Band 38: 20 MHz	2580 (37850)	2580 (37850)	2595 (38000)	2610 (38150)	
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	N/A	3649.2 (56232)	3697.5 (56715)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)	3695 (56690)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)	3692.5 (56665)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)	3690 (56640)
UE Category	DL UE Cat 20, UL UE Cat 18				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO, LAA features as shown in the RF Conducted Powers section of this report and the Downlink LTE CA RF Conducted Powers Appendix. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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NR Information				
Form Factor	Frequency Range of each NR transmission band	Portable Handset		
		NR Band n71 (665.5 - 695.5 MHz) NR Band n12 (701.5 - 713.5 MHz) NR Band n28 (813.5 - 846.5 MHz) NR Band n6 (825.5 - 846.5 MHz) NR Band n66 (1712.5 - 1777.5 MHz) NR Band n25 (1852.5 - 1912.5 MHz) NR Band n3 (1862.5 - 1907.5 MHz) NR Band n30 (2307.5 - 2312.5 MHz) NR Band n7 (2502.5 - 2567.5 MHz) NR Band n41 (2503.01 - 2585 MHz) NR Band n38 (2575 - 2615 MHz) NR Band n48 (2555 - 3694.98 MHz) NR Band n77 DxD (2455.01 - 2544.98 MHz) NR Band n71 (6705 - 6975 MHz) NR Band n71.5 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n12 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n28 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n6 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n66 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz NR Band n25 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz NR Band n3 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n30 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n7 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz NR Band n41 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz NR Band n7 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz		
Channel Bandwidths				
Channel Numbers and Frequencies (MHz)				
NR Band n71 5 MHz	665.5 (131100)	690.5 (136100)	695.5 (139100)	
NR Band n71 10 MHz	668 (132600)	690.5 (136100)	693 (138600)	
NR Band n71 15 MHz	670.5 (134100)	690.5 (136100)	690.5 (138100)	
NR Band n71 20 MHz	673 (134600)	690.5 (136100)	698 (137600)	
NR Band n12 5 MHz	701.5 (140300)	707.5 (141500)	713.5 (142700)	
NR Band n12 10 MHz	704 (140800)	707.5 (141500)	711 (142200)	
NR Band n12 15 MHz	706.5 (141300)	707.5 (141500)	708.5 (141700)	
NR Band n28 5 MHz	813.5 (163300)	831.5 (166300)	846.5 (169300)	
NR Band n28 10 MHz	819 (163800)	831.5 (166300)	844 (168800)	
NR Band n28 15 MHz	821.5 (164300)	831.5 (166300)	841.5 (168300)	
NR Band n28 20 MHz	824 (164800)	831.5 (166300)	839 (167800)	
NR Band n6 5 MHz	828.5 (165300)	838.5 (167300)	846.5 (169300)	
NR Band n6 10 MHz	829 (165800)	838.5 (167300)	844 (168800)	
NR Band n6 15 MHz	831.5 (166300)	838.5 (167300)	841.5 (168300)	
NR Band n6 20 MHz	834 (166800)	838.5 (167300)	839 (167800)	
NR Band n66 5 MHz	1712.5 (342500)	1745 (349000)	1777.5 (350500)	
NR Band n66 10 MHz	1715 (343000)	1745 (349000)	1775 (350000)	
NR Band n66 15 MHz	1717.5 (343500)	1745 (349000)	1772.5 (354500)	
NR Band n66 20 MHz	1720 (344000)	1745 (349000)	1770 (354000)	
NR Band n66 25 MHz	1722.5 (344500)	1745 (349000)	1767.5 (353500)	
NR Band n66 30 MHz	1725 (345000)	1745 (349000)	1765 (353000)	
NR Band n66 40 MHz	1730 (346000)	1745 (349000)	1760 (352000)	
NR Band n25 5 MHz	1852.5 (370500)	1882.5 (376500)	1912.5 (376500)	
NR Band n25 10 MHz	1855 (371000)	1882.5 (376500)	1910 (382000)	
NR Band n25 15 MHz	1857.5 (371500)	1882.5 (376500)	1907.5 (381500)	
NR Band n25 20 MHz	1860 (372000)	1882.5 (376500)	1905 (381000)	
NR Band n25 25 MHz	1862.5 (372500)	1882.5 (376500)	1902.5 (380500)	
NR Band n25 30 MHz	1865 (373000)	1882.5 (376500)	1900 (380000)	
NR Band n25 40 MHz	1870 (374000)	1882.5 (376500)	1899 (379900)	
NR Band n3 5 MHz	1882.5 (376500)	1895 (377000)	1907.5 (381500)	
NR Band n3 10 MHz	1885 (377000)	1895 (377000)	1905 (381000)	
NR Band n3 15 MHz	1887.5 (377500)	1895 (377000)	1902.5 (380500)	
NR Band n3 20 MHz	1890 (378000)	1895 (377000)	1900 (380000)	
NR Band n30 5 MHz	2307.5 (461500)	2310 (462000)	2312.5 (462500)	
NR Band n30 10 MHz	N/A	2310 (462000)	N/A	
NR Band n7 5 MHz	2502.5 (500500)	2535 (507000)	2567.5 (513500)	
NR Band n7 10 MHz	2505 (501000)	2535 (507000)	2565 (513000)	
NR Band n7 15 MHz	2507.5 (501500)	2535 (507000)	2562.5 (512500)	
NR Band n7 20 MHz	2510 (502000)	2535 (507000)	2560 (512000)	
NR Band n7 25 MHz	2512.5 (502500)	2535 (507000)	2557.5 (511500)	
NR Band n7 30 MHz	2515 (503000)	2535 (507000)	2555 (511000)	
NR Band n7 40 MHz	2520 (504000)	2535 (507000)	2550 (510000)	
NR Band n41 10 MHz	2501.02 (500202)	2541 (509400)	2592.99 (518598)	2639.01 (527601)
NR Band n41 15 MHz	2503.5 (500700)	2548.28 (509652)	2592.99 (518598)	2637.75 (527598)
NR Band n41 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)	2636.49 (527398)
NR Band n41 25 MHz	2511 (502200)	2553.01 (510402)	2592.99 (518598)	2634 (526900)
NR Band n41 30 MHz	2516.01 (503202)	2567.34 (513458)	N/A	2618.67 (523734)
NR Band n41 40 MHz	2521.02 (504204)	2592.99 (518598)	2594.99 (519098)	2616.99 (523698)
NR Band n41 60 MHz	2526 (505200)	2592.99 (518598)	2599.99 (524098)	2618.99 (523698)
NR Band n41 70 MHz	2531.01 (506202)	N/A	N/A	2605 (521000)
NR Band n41 80 MHz	2536.02 (507204)	N/A	N/A	2649.99 (525998)
NR Band n41 90 MHz	2541 (508200)	N/A	N/A	2644.98 (525998)
NR Band n41 100 MHz	2546.01 (509202)	2592.99 (518598)	2594.99 (519098)	2640 (523000)
NR Band n38 10 MHz	2575 (513000)	2592.99 (518598)	2594.99 (519098)	2640 (523000)
NR Band n38 15 MHz	2577.5 (513500)	2595 (519000)	2615 (523000)	2612.5 (522500)
NR Band n38 20 MHz	2580 (514000)	2595 (519000)	2610 (522000)	2610 (522000)
NR Band n38 30 MHz	2585 (517000)	2595 (519000)	2605 (521000)	2605 (521000)
NR Band n38 40 MHz	2590 (518000)	2595 (519000)	2600 (520000)	2600 (520000)
NR Band n48 10 MHz	2655 (531000)	2691.99 (540112)	N/A	2649.23 (542222)
NR Band n48 15 MHz	2657.52 (531768)	2692.49 (540166)	N/A	2647.49 (542166)
NR Band n48 20 MHz	2660.01 (532344)	2693.23 (540222)	N/A	2646.68 (542122)
NR Band n48 30 MHz	2665.02 (533344)	2695.01 (540344)	N/A	2646 (543000)
NR Band n48 40 MHz	2670 (534300)	N/A	2674.99 (541866)	2645 (543000)
NR Band n77 DxD 10 MHz	3470 (693000)	3500.01 (693334)	3500.01 (693334)	3544.98 (696332)
NR Band n77 DxD 15 MHz	N/A	3500.01 (693334)	N/A	N/A
NR Band n77 DxD 20 MHz	N/A	3500.01 (693334)	N/A	N/A
NR Band n77 DxD 25 MHz	N/A	3500.01 (693334)	N/A	N/A
NR Band n77 DxD 30 MHz	N/A	3500.01 (693334)	N/A	N/A
NR Band n77 DxD 40 MHz	N/A	3500.01 (693334)	N/A	N/A
NR Band n77 DxD 50 MHz	N/A	3500.01 (693334)	N/A	N/A
NR Band n77 DxD 60 MHz	N/A	3500.01 (693334)	N/A	N/A
NR Band n77 DxD 70 MHz	N/A	3500.01 (693334)	N/A	N/A
NR Band n77 DxD 80 MHz	N/A	3500.01 (693334)	N/A	N/A
NR Band n77 DxD 90 MHz	N/A	3500.01 (693334)	N/A	N/A
NR Band n77 DxD 100 MHz	N/A	3500.01 (693334)	N/A	N/A
NR Band n7 10 MHz	3705 (647000)	3729 (652600)	3813 (654200)	3887 (657800)
NR Band n7 15 MHz	3707.52 (647198)	3763.5 (650700)	3813.5 (654234)	3886.49 (657766)
NR Band n7 20 MHz	3710.01 (647394)	3769 (650800)	3813.99 (654268)	3886.01 (657734)
NR Band n7 25 MHz	3712.5 (647500)	3763.5 (650900)	3814.5 (654300)	3885.5 (657700)
NR Band n7 30 MHz	3715.01 (647698)	3765 (651000)	3815.01 (654334)	3884.99 (657666)
NR Band n7 40 MHz	3720 (648000)	3768 (651200)	3815 (654400)	3884 (657600)
NR Band n7 50 MHz	3725 (648334)	3769.49 (652166)	3816 (655000)	3887.51 (658634)
NR Band n7 60 MHz	3730 (649000)	3803.34 (653556)	N/A	3876.66 (658444)
NR Band n7 70 MHz	3735 (649500)	3804.99 (653666)	N/A	3875.01 (658372)
NR Band n7 80 MHz	3740.01 (649334)	N/A	3840 (656000)	3879.99 (652666)
NR Band n7 90 MHz	3745.02 (649668)	N/A	3840 (656000)	3874.98 (652332)
NR Band n7 100 MHz	3750 (650000)	N/A	N/A	3870 (652000)
SCS for NR Band n71n12n28n66n30n38n7			15 kHz	
SCS for NR Band n48n38n48n77			30 kHz	
Modulations Supported in UL				
DFT-s-OFDM: m/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM				
YES				
The technical description includes all the possible carrier aggregation combinations				
A-MPR (Additional MPDR) disabled for SAR Testing?				
EN-DC Carrier Aggregation Possible Combinations				
LTE Anchor Bands for NR Band n71				
LTE Anchor Bands for NR Band n12				
LTE Anchor Bands for NR Band n28				
LTE Anchor Bands for NR Band n6				
LTE Anchor Bands for NR Band n66				
LTE Anchor Bands for NR Band n25				
LTE Anchor Bands for NR Band n3				
LTE Anchor Bands for NR Band n30				
LTE Anchor Bands for NR Band n7				
LTE Anchor Bands for NR Band n41				
LTE Anchor Bands for NR Band n48				
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3 INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

3.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 3-1).

Equation 3-1
SAR Mathematical Equation

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

- σ = conductivity of the tissue-simulating material (S/m)
- ρ = mass density of the tissue-simulating material (kg/m³)
- E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013.
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

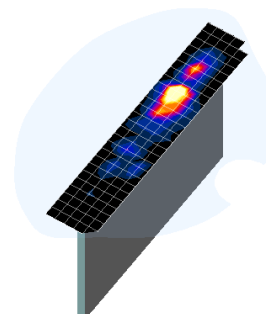


Figure 4-1
Sample SAR Area Scan

Table 4-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	≤ 1.5* $\Delta z_{\text{zoom}}(n-1)$	≥ 22

*Also compliant to IEEE 1528-2013 Table 6

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5 DEFINITION OF REFERENCE POINTS

5.1 EAR REFERENCE POINT

Figure 5-2 shows the front, back and side views of the SAM Twin Phantom. The point “M” is the reference point for the center of the mouth, “LE” is the left ear reference point (ERP), and “RE” is the right ERP. The ERP is 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 5-1. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (see Figure 5-1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning [5].

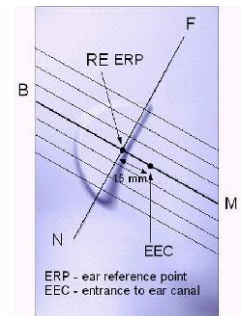


Figure 5-1
Close-Up Side view
of ERP

5.2 HANDSET REFERENCE POINTS

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the acoustic output located along the “vertical centerline” on the front of the device aligned to the “ear reference point” (See Figure 5-3). The acoustic output was then located at the same level as the center of the ear reference point. The test device was positioned so that the “vertical centerline” was bisecting the front surface of the handset at its top and bottom edges, positioning the “ear reference point” on the outer surface of the both the left and right head phantoms on the ear reference point.



Figure 5-2
Front, back and side view of SAM Twin Phantom

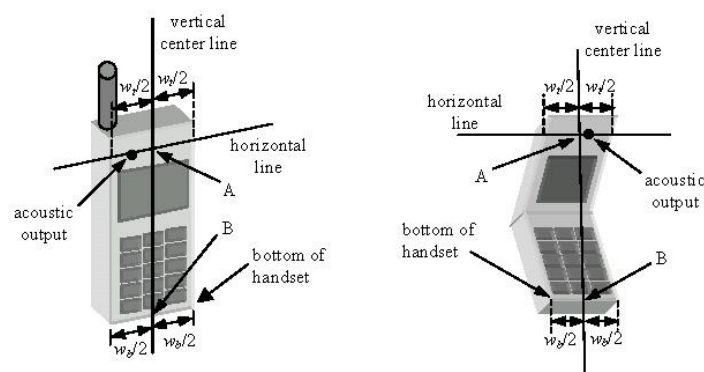


Figure 5-3
Handset Vertical Center & Horizontal Line Reference Points

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6 TEST CONFIGURATION POSITIONS

6.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$.

6.2 Positioning for Cheek

1. The test device was positioned with the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 6-1), such that the plane defined by the vertical center line and the horizontal line of the phone is approximately parallel to the sagittal plane of the phantom.

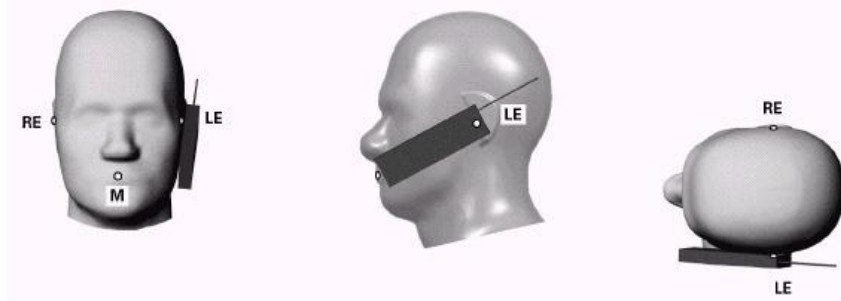


Figure 6-1 Front, Side and Top View of Cheek Position

2. The handset was translated towards the phantom along the line passing through RE & LE until the handset touches the pinna.
3. While maintaining the handset in this plane, the handset was rotated around the LE-RE line until the vertical centerline was in the reference plane.
4. The phone was then rotated around the vertical centerline until the phone (horizontal line) was symmetrical with respect to the line NF.
5. While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE, and maintaining the device contact with the ear, the device was rotated about the NF line until any point on the handset made contact with a phantom point below the ear (cheek) (See Figure 6-2).

6.3 Positioning for Ear / 15° Tilt

With the test device aligned in the “Cheek Position”:

1. While maintaining the orientation of the phone, the phone was retracted parallel to the reference plane far enough to enable a rotation of the phone by 15 degrees.
2. The phone was then rotated around the horizontal line by 15 degrees.
3. While maintaining the orientation of the phone, the phone was moved parallel to the reference plane until any part of the handset touched the head. (In this position, point A was located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact was at any location other than the pinna, the angle of the phone would then be reduced. In this situation, the tilted position was obtained when any part of the phone was in contact of the ear as well as a second part of the phone was in contact with the head (see Figure 6-2).

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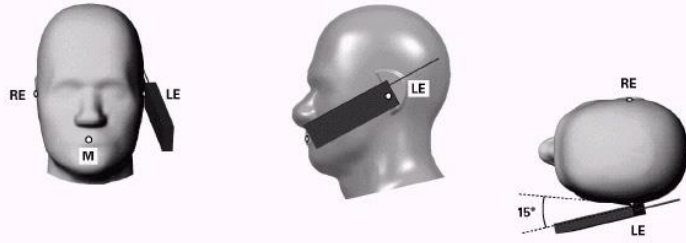


Figure 6-2 Front, Side and Top View of Ear/15° Tilt Position

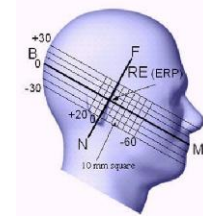


Figure 6-3 Side view w/ relevant markings

6.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

Antennas located near the bottom of a phone may require SAR measurements around the mouth and jaw regions of the SAM head phantom. This typically applies to clam-shell style phones that are generally longer in the unfolded normal use positions or to certain older style long rectangular phones. Per IEEE 1528-2013, a rotated SAM phantom is necessary to allow probe access to such regions. Both SAM heads of the TwinSAM-Chin20 are rotated 20 degrees around the NF line. Each head can be removed from the table for emptying and cleaning.

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04v01r03. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR location identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

6.5 Body-Worn Accessory Configurations

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6-4). Per FCC KDB Publication 648474 D04v01r03, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D04v01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a 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.

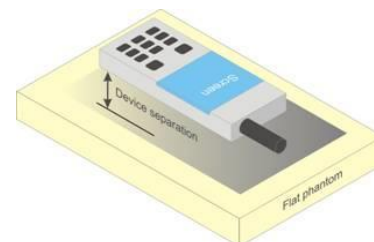


Figure 6-4 Sample Body-Worn Diagram

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not

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contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented.

Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

6.6 Extremity Exposure Configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions; i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1g body and 10g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D04v01 should be applied to determine SAR test requirements.

Per KDB Publication 447498 D04v01, Cell phones (handsets) are not normally designed to be used on extremities or operated in extremity only exposure conditions. The maximum output power levels of handsets generally do not require extremity SAR testing to show compliance. Therefore, extremity SAR was not evaluated for this device.

6.7 Wireless Router Configurations

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06v02r01 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D04v01 procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

6.8 Phablet Configurations

For smart phones with a display diagonal dimension $> 150 \text{ mm}$ or an overall diagonal dimension $> 160 \text{ mm}$ that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that

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support voice calls next to the ear, the phablets procedures outlined in KDB Publication 648474 D04v01r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna ≤ 25 mm from that surface or edge, in direct contact with the phantom, for 10g SAR. The UMPC mini-tablet 1g SAR at 5 mm is not required. When hotspot mode applies, 10g SAR is required only for the surfaces and edges with hotspot mode 1g SAR > 1.2 W/kg.

6.9 Proximity Sensor Considerations

This device uses a power reduction mechanism to reduce output powers in certain use conditions when the device is used close the user's body.

When the device's antenna is within a certain distance of the user, the sensor activates and reduces the maximum allowed output power. However, the sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, additional evaluation is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a non-reduced output power level. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional test positions. Sensor triggering distance summary data is included in Power Reduction Verification Appendix.

The sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the sensor entirely covers the antennas.

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7 RF EXPOSURE LIMITS

7.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

7.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Table 7-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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8 FCC MEASUREMENT PROCEDURES

Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

8.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D04v01, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

8.2 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

8.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

The device is placed into a simulated call using a base station simulator in a RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a “point SAR” at an arbitrary reference point at the start and end of the 1 gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

8.4 SAR Measurement Conditions for UMTS

8.4.1 Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all “1s” or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

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8.4.2 Head SAR Measurements

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 as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

8.4.3 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all “1s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCH_n configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCH_n, for the highest reported SAR configuration in 12.2 kbps RMC.

8.4.4 SAR Measurements with Rel 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

8.4.5 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

8.4.6 SAR Measurement Conditions for DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

8.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

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8.5.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

8.5.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

8.5.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

8.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to $\frac{1}{2}$ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/kg.

8.5.5 TDD

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r04. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r04. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

8.5.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink

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carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

8.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

8.6.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. 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 is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

8.6.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.6.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. Each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

8.6.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all

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positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.6.5 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

2.4 GHz 802.11 g/n/ax OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.6.6 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. Per April 2019 TCB Workshop guidance, 802.11ax was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

8.6.7 Initial Test Configuration Procedure

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest

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802.11 mode is considered for SAR measurements (See Section 8.6.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.6.8 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.6.9 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D04v01 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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9 RF CONDUCTED POWERS

All conducted power measurements for Sub6 WWAN technologies and bands in this section were performed by setting *Reserve_power_margin* (Qualcomm® Smart Transmit EFS entry) to 0dB, so that the EUT transmits continuously at minimum (P_{limit} , maximum tune up output power P_{max}).

9.1 GSM Conducted Powers

Table 9-1
Measured P_{max} for all DSI for GSM 850

Measured P_{max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) for GSM 1900

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	31.87	31.72	30.66	29.15	27.35	26.30	24.61	22.89	21.51
	190	31.52	31.49	30.72	28.64	26.94	26.20	24.81	22.92	21.49
	251	31.82	31.76	30.67	28.97	27.09	26.25	24.44	23.17	22.06
GSM 1900	512	28.55	28.57	27.45	26.24	24.07	24.58	23.55	21.42	20.63
	661	28.75	28.78	27.55	26.25	24.14	24.53	23.47	21.71	20.76
	810	28.86	28.90	27.61	26.40	24.12	24.56	23.53	21.58	20.53

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	22.67	22.52	24.47	24.72	24.17	17.10	18.42	18.46	18.33
	190	22.32	22.29	24.53	24.21	23.76	17.00	18.62	18.49	18.31
	251	22.62	22.56	24.48	24.54	23.91	17.05	18.25	18.74	18.88
GSM 1900	512	19.35	19.37	21.26	21.81	20.89	15.38	17.36	16.99	17.45
	661	19.55	19.58	21.36	21.82	20.96	15.33	17.28	17.28	17.58
	810	19.66	19.70	21.42	21.97	20.94	15.36	17.34	17.15	17.35

GSM 850	Frame Avg. Targets:	22.80	22.80	25.31	25.07	24.32	17.80	18.81	18.57	18.82
GSM 1900		19.80	19.80	21.81	22.07	21.32	16.80	17.81	17.57	17.82

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Table 9-2
Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI=4 (Earjack active)

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	28.55	28.57	27.13	24.77	23.85	24.58	23.55	21.42	20.63
	661	28.75	28.78	27.05	25.22	23.86	24.53	23.47	21.71	20.76
	810	28.86	28.90	27.17	25.32	24.01	24.56	23.53	21.58	20.53

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	19.35	19.37	20.94	20.34	20.67	15.38	17.36	16.99	17.45
	661	19.55	19.58	20.86	20.79	20.68	15.33	17.28	17.28	17.58
	810	19.66	19.70	20.98	20.89	20.83	15.36	17.34	17.15	17.35

GSM 1900	Frame Avg.Targets:	19.80	19.80	20.01	19.97	20.02	16.80	17.81	17.57	17.82
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Table 9-3
Measured P_{limit} for DSI = 3 (Hotspot mode)

Maximum Burst-Averaged Output Power									
Band	Channel	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	26.96	23.86	22.01	20.60	24.58	23.55	21.42	20.63
	661	26.87	24.09	22.25	20.87	24.53	23.47	21.71	20.76
	810	27.05	24.01	22.09	20.77	24.56	23.53	21.58	20.53

Calculated Maximum Frame-Averaged Output Power									
Band	Channel	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	17.76	17.67	17.58	17.42	15.38	17.36	16.99	17.45
	661	17.67	17.90	17.82	17.69	15.33	17.28	17.28	17.58
	810	17.85	17.82	17.66	17.59	15.36	17.34	17.15	17.35

GSM 1900	Frame Avg. Targets:	18.00	18.01	17.97	18.02	16.80	17.81	17.57	17.82
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Note:

- Both burst-averaged and calculated frame-averaged powers are included. Frame-averaged power was calculated from the measured burst-averaged power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- GPRS/EDGE (GMSK) output powers were measured with coding scheme setting of 1 (CS1) on the base station simulator. CS1 was configured to measure GPRS output power measurements and SAR to ensure GMSK modulation in the signal. Our Investigation has shown that CS1 - CS4 settings do not have any impact on the output levels or modulation in the GPRS modes.
- EDGE (8-PSK) output powers were measured with MCS7 on the base station simulator. MCS7 coding scheme was used to measure the output powers for EDGE since investigation has shown that choosing MCS7 coding scheme will ensure 8-PSK modulation. It has been shown that MCS levels that produce 8-PSK modulation do not have an impact on output power.

GSM Class: B
GPRS Multislot class: 33 (Max 4 Tx uplink slots)
EDGE Multislot class: 33 (Max 4 Tx uplink slots)
DTM Multislot Class: N/A



Figure 9-1
Power Measurement Setup

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9.2 UMTS Conducted Powers

Table 9-4
Measured P_{max} for all DSI for UMTS 850
Measured P_{max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) for UMTS 1750 & UMTS 1900

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	23.67	23.68	23.55	22.68	22.77	22.76	22.73	22.74	22.65	-
99		12.2 kbps AMR	23.65	23.62	23.65	22.78	22.73	22.74	22.81	22.83	22.76	-
6	HSDPA	Subtest 1	23.10	23.10	23.04	22.33	22.35	22.32	22.31	22.33	22.36	0
6		Subtest 2	23.11	23.10	23.03	22.36	22.43	22.37	22.34	22.32	22.34	0
6		Subtest 3	22.64	22.57	22.51	21.86	21.95	21.87	21.83	21.85	21.86	0.5
6		Subtest 4	22.61	22.48	22.56	21.87	21.95	21.91	21.84	21.83	21.86	0.5
6	HSUPA	Subtest 1	23.09	23.08	23.01	22.40	22.44	22.41	22.36	22.36	22.39	0
6		Subtest 2	21.07	21.08	21.03	20.41	20.44	20.41	20.35	20.37	20.36	2
6		Subtest 3	22.06	22.07	22.02	21.41	21.45	21.44	21.36	21.36	21.37	1
6		Subtest 4	21.08	21.07	21.01	20.40	20.47	20.45	20.36	20.38	20.38	2
6		Subtest 5	23.10	23.10	23.03	22.37	22.47	22.44	22.35	22.34	22.39	0
8	DC-HSDPA	Subtest 1	23.09	23.05	22.99	22.35	22.46	22.42	22.35	22.35	22.36	0
8		Subtest 2	23.11	23.08	23.03	22.36	22.43	22.41	22.34	22.34	22.35	0
8		Subtest 3	22.63	22.60	22.52	21.86	21.93	21.91	21.86	21.86	21.87	0.5
8		Subtest 4	22.61	22.60	22.56	21.87	21.92	21.90	21.85	21.86	21.87	0.5

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Table 9-5
Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active)

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	18.49	18.51	18.42	19.20	19.21	19.24	-
99		12.2 kbps AMR	18.47	18.58	18.47	19.16	19.17	19.19	-
6	HSDPA	Subtest 1	18.39	18.43	18.34	18.44	18.44	18.47	0
6		Subtest 2	18.32	18.36	18.35	18.39	18.40	18.47	0
6		Subtest 3	17.82	17.83	17.82	17.89	17.92	17.97	0.5
6		Subtest 4	17.81	17.84	17.85	17.94	17.91	17.96	0.5
6	HSUPA	Subtest 1	18.35	18.37	18.35	18.44	18.48	18.51	0
6		Subtest 2	16.30	16.36	16.32	16.45	16.46	16.51	2
6		Subtest 3	17.31	17.35	17.34	17.46	17.46	17.53	1
6		Subtest 4	16.32	16.36	16.35	16.45	16.45	16.52	2
6		Subtest 5	18.37	18.39	18.36	18.44	18.46	18.51	0
8	DC-HSDPA	Subtest 1	18.31	18.36	18.35	18.26	18.49	18.52	0
8		Subtest 2	18.30	18.35	18.34	18.48	18.49	18.51	0
8		Subtest 3	17.80	17.85	17.82	17.99	17.98	18.02	0.5
8		Subtest 4	17.81	17.85	17.84	17.98	17.99	18.01	0.5

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Table 9-6
Measured P_{limit} for DSI = 3 (Hotspot mode)

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	18.49	18.51	18.42	17.12	17.08	17.10	-
99		12.2 kbps AMR	18.47	18.58	18.47	17.11	17.07	17.08	-
6	HSDPA	Subtest 1	18.39	18.43	18.34	16.90	16.88	16.87	0
6		Subtest 2	18.32	18.36	18.35	16.87	16.90	16.88	0
6		Subtest 3	17.82	17.83	17.82	16.36	16.34	16.37	0.5
6		Subtest 4	17.81	17.84	17.85	16.34	16.33	16.37	0.5
6	HSUPA	Subtest 1	18.35	18.37	18.35	16.87	16.86	16.88	0
6		Subtest 2	16.30	16.36	16.32	14.86	14.85	14.88	2
6		Subtest 3	17.31	17.35	17.34	15.85	15.84	15.85	1
6		Subtest 4	16.32	16.36	16.35	14.85	14.87	14.87	2
6		Subtest 5	18.37	18.39	18.36	16.87	16.85	16.91	0
8	DC-HSDPA	Subtest 1	18.31	18.36	18.35	16.86	16.86	16.88	0
8		Subtest 2	18.30	18.35	18.34	16.88	16.86	16.85	0
8		Subtest 3	17.80	17.85	17.82	16.36	16.37	16.38	0.5
8		Subtest 4	17.81	17.85	17.84	16.39	16.37	16.37	0.5

DC-HSDPA considerations

- 3GPP Specification 34.121-1 Release 8 Ver 8.10.0 was used for DC-HSDPA guidance
- H-Set 12 (QPSK) was confirmed to be used during DC-HSDPA measurements
- The DUT supports UE category 24 for HSDPA

It is expected by the manufacturer that MPR for some HSPA subtests may be up to 2 dB more than specified by 3GPP, but also as low as 0 dB according to the chipset implementation in this model.



Figure 9-2
Power Measurement Setup

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9.3 LTE Conducted Powers

Note: Per FCC KDB Publication 941225 D05v02r05, LTE SAR for the lower bandwidths was not required for testing since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg. Lower bandwidth conducted powers for all LTE bands can be found in LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Note: Some bands do not support three non-overlapping channels. Per KDB Publication 941225 D05v02, 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.

LTE Carrier Aggregation Notes:

1. This device supports uplink carrier aggregation for LTE CA_5B, LTE CA_66B, LTE CA_66C, LTE CA_48C, and LTE CA_41C with a maximum of two component carriers. For intraband contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.
2. Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.

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9.3.1 LTE Band 71

Table 9-7
LTE Band 71 Measured P_{Max} for all DSI - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.46	0	0
	1	50	24.55		0
	1	99	24.49		0
	50	0	23.45	0-1	1
	50	25	23.42		1
	50	50	23.41		1
	100	0	23.41		1
16QAM	1	0	24.10	0-1	1
	1	50	24.17		1
	1	99	24.13		1
	50	0	22.44	0-2	2
	50	25	22.38		2
	50	50	22.40		2
	100	0	22.42		2
64QAM	1	0	22.65	0-2	2
	1	50	22.74		2
	1	99	22.66		2
	50	0	21.46	0-3	3
	50	25	21.46		3
	50	50	21.39		3
	100	0	21.47		3
256QAM	1	0	19.54	0-5	5
	1	50	19.70		5
	1	99	19.80		5
	50	0	19.41		5
	50	25	19.42		5
	50	50	19.45		5
	100	0	19.38		5

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9.3.2 LTE Band 12

Table 9-8
LTE Band 12 Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.50	0	0
	1	25	24.51		0
	1	49	24.48		0
	25	0	23.51	0-1	1
	25	12	23.51		1
	25	25	23.58		1
	50	0	23.57		1
16QAM	1	0	23.90	0-1	1
	1	25	23.91		1
	1	49	23.82		1
	25	0	22.48	0-2	2
	25	12	22.54		2
	25	25	22.59		2
	50	0	22.58		2
64QAM	1	0	22.70	0-2	2
	1	25	22.82		2
	1	49	22.78		2
	25	0	21.52	0-3	3
	25	12	21.54		3
	25	25	21.60		3
	50	0	21.65		3
256QAM	1	0	19.61	0-5	5
	1	25	19.72		5
	1	49	19.60		5
	25	0	19.59		5
	25	12	19.54		5
	25	25	19.60		5
	50	0	19.55		5

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9.3.3 LTE Band 13

Table 9-9
LTE Band 13 Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.92	0	0
	1	25	24.65		0
	1	49	24.69		0
	25	0	23.49	0-1	1
	25	12	23.55		1
	25	25	23.47		1
	50	0	23.50		1
16QAM	1	0	24.08	0-1	1
	1	25	23.83		1
	1	49	24.01		1
	25	0	22.53	0-2	2
	25	12	22.53		2
	25	25	22.46		2
	50	0	22.53		2
64QAM	1	0	22.72	0-2	2
	1	25	22.92		2
	1	49	22.66		2
	25	0	21.56	0-3	3
	25	12	21.48		3
	25	25	21.54		3
	50	0	21.51		3
256QAM	1	0	19.61	0-5	5
	1	25	19.59		5
	1	49	19.60		5
	25	0	19.55		5
	25	12	19.58		5
	25	25	19.54		5
	50	0	19.52		5

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9.3.4 LTE Band 14

Table 9-10
LTE Band 14 Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.42	0	0
	1	25	24.58		0
	1	49	24.57		0
	25	0	23.49	0-1	1
	25	12	23.50		1
	25	25	23.54		1
	50	0	23.51		1
16QAM	1	0	23.81	0-1	1
	1	25	23.95		1
	1	49	23.74		1
	25	0	22.45	0-2	2
	25	12	22.50		2
	25	25	22.56		2
	50	0	22.60		2
64QAM	1	0	22.55	0-2	2
	1	25	22.75		2
	1	49	22.70		2
	25	0	21.49	0-3	3
	25	12	21.47		3
	25	25	21.50		3
	50	0	21.55		3
256QAM	1	0	19.57	0-5	5
	1	25	19.60		5
	1	49	19.59		5
	25	0	19.43		5
	25	12	19.47		5
	25	25	19.51		5
	50	0	19.55		5

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9.3.5 LTE Band 26

Table 9-11
LTE Band 26 (Cell) Measured P_{Max} for all DSI - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.14	0	0
	1	36	24.27		0
	1	74	24.24		0
	36	0	23.28	0-1	1
	36	18	23.26		1
	36	37	23.35		1
	75	0	23.20		1
16QAM	1	0	23.62	0-1	1
	1	36	23.96		1
	1	74	23.53		1
	36	0	22.29	0-2	2
	36	18	22.29		2
	36	37	22.33		2
	75	0	22.18		2
64QAM	1	0	22.34	0-2	2
	1	36	22.59		2
	1	74	22.48		2
	36	0	21.26	0-3	3
	36	18	21.29		3
	36	37	21.34		3
	75	0	21.25		3
256QAM	1	0	19.32	0-5	5
	1	36	19.32		5
	1	74	19.33		5
	36	0	19.24		5
	36	18	19.25		5
	36	37	19.30		5
	75	0	19.24		5

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9.3.6 LTE Band 5

Table 9-12
LTE Band 5 (Cell) Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.39	0	0
	1	25	24.46		0
	1	49	24.35		0
	25	0	23.41	0-1	1
	25	12	23.42		1
	25	25	23.45		1
	50	0	23.39		1
16QAM	1	0	23.72	0-1	1
	1	25	23.77		1
	1	49	23.61		1
	25	0	22.42	0-2	2
	25	12	22.43		2
	25	25	22.45		2
	50	0	22.38		2
64QAM	1	0	22.61	0-2	2
	1	25	22.66		2
	1	49	22.54		2
	25	0	21.44	0-3	3
	25	12	21.44		3
	25	25	21.47		3
	50	0	21.39		3
256QAM	1	0	19.66	0-5	5
	1	25	19.82		5
	1	49	19.73		5
	25	0	19.41		5
	25	12	19.45		5
	25	25	19.50		5
	50	0	19.43		5

Table 9-13
LTE Band 5 (Cell) Uplink Carrier Aggregation Measured P_{Max} for all DSI - 10 MHz Bandwidth

PCC										SCC								Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	1	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	1	24	24.35	24.39
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9.3.7 LTE Band 66 Antenna A

Table 9-14

LTE Band 66 (AWS) Antenna A Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) – 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.02	23.30	23.32	0	0
	1	50	23.12	23.26	23.33		0
	1	99	23.24	23.35	23.26		0
	50	0	22.35	22.31	22.34	0-1	1
	50	25	22.35	22.30	22.36		1
	50	50	22.38	22.39	22.37		1
	100	0	22.34	22.33	22.32		1
16QAM	1	0	22.62	22.58	22.38	0-1	1
	1	50	22.73	22.42	22.37		1
	1	99	22.54	22.58	22.40		1
	50	0	21.30	21.24	21.31	0-2	2
	50	25	21.36	21.31	21.36		2
	50	50	21.42	21.40	21.32		2
	100	0	21.35	21.31	21.33		2
64QAM	1	0	21.62	21.50	21.34	0-2	2
	1	50	21.53	21.65	21.31		2
	1	99	21.61	21.59	21.44		2
	50	0	20.30	20.27	20.34	0-3	3
	50	25	20.37	20.26	20.36		3
	50	50	20.37	20.39	20.36		3
	100	0	20.33	20.30	20.33		3
256QAM	1	0	18.49	18.46	18.43	0-5	5
	1	50	18.40	18.47	18.59		5
	1	99	18.54	18.59	18.54		5
	50	0	18.36	18.27	18.36		5
	50	25	18.35	18.35	18.36		5
	50	50	18.43	18.40	18.33		5
	100	0	18.41	18.32	18.33		5

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Table 9-15

LTE Band 66 (AWS) Antenna A Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) – 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.44	23.45	23.40	0	0
	1	25	23.59	23.57	23.48		0
	1	49	23.57	23.54	23.46		0
	25	0	22.46	22.41	22.49	0-1	1
	25	12	22.53	22.45	22.48		1
	25	25	22.47	22.50	22.48		1
	50	0	22.47	22.40	22.45		1
16QAM	1	0	22.58	22.49	22.68	0-1	1
	1	25	22.83	22.53	22.49		1
	1	49	22.65	22.83	22.53		1
	25	0	21.49	21.38	21.50	0-2	2
	25	12	21.57	21.45	21.48		2
	25	25	21.50	21.53	21.48		2
	50	0	21.46	21.47	21.48		2
64QAM	1	0	21.52	21.58	21.59	0-2	2
	1	25	21.60	21.68	21.61		2
	1	49	21.53	21.69	21.59		2
	25	0	20.51	20.37	20.50	0-3	3
	25	12	20.47	20.46	20.54		3
	25	25	20.47	20.53	20.50		3
	50	0	20.48	20.39	20.46		3
256QAM	1	0	18.37	18.60	18.68	0-5	5
	1	25	18.57	18.64	18.63		5
	1	49	18.60	18.63	18.39		5
	25	0	18.47	18.41	18.43		5
	25	12	18.49	18.39	18.54		5
	25	25	18.48	18.41	18.47		5
	50	0	18.44	18.39	18.46		5

Table 9-16

LTE Band 66 (AWS) Antenna A Uplink Carrier Aggregation Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head)

Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC					SCC								Power		
					PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_66C	LTE B66	20	132322	1745.0	66786	2145.0	QPSK	1	99	LTE B66	20	132520	1764.8	66984	2164.8	QPSK	1	0	23.45	23.35
CA_66B	LTE B66	10	132322	1745.0	66786	2145.0	QPSK	1	49	LTE B66	10	132421	1754.9	66885	2154.9	QPSK	1	0	23.47	23.54

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Table 9-17

LTE Band 66 (AWS) Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.73	19.79	19.78	0	0
	1	50	19.64	19.75	19.90		0
	1	99	19.85	19.84	19.73		0
	50	0	19.82	19.81	19.83	0-1	0
	50	25	19.91	19.85	19.92		0
	50	50	19.88	19.90	19.83		0
	100	0	19.87	19.77	19.84		0
16QAM	1	0	20.03	19.85	19.89	0-1	0
	1	50	19.90	20.06	20.19		0
	1	99	20.13	20.08	19.89		0
	50	0	19.87	19.77	19.85	0-2	0
	50	25	19.85	19.80	19.87		0
	50	50	19.84	19.87	19.86		0
	100	0	19.87	19.79	19.83		0
64QAM	1	0	19.95	19.81	20.08	0-2	0
	1	50	19.95	19.94	20.10		0
	1	99	20.08	20.17	19.89		0
	50	0	19.81	19.78	19.82	0-3	0
	50	25	19.88	19.78	19.83		0
	50	50	19.86	19.92	19.86		0
	100	0	19.83	19.76	19.80		0
256QAM	1	0	18.25	18.40	18.33	0-5	1.5
	1	50	18.48	18.50	18.45		1.5
	1	99	18.40	18.61	18.56		1.5
	50	0	18.31	18.33	18.41		1.5
	50	25	18.38	18.35	18.35		1.5
	50	50	18.39	18.39	18.35		1.5
	100	0	18.36	18.31	18.38		1.5

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Table 9-18

LTE Band 66 (AWS) Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.95	19.97	19.93	0	0
	1	25	20.05	19.97	19.92		0
	1	49	20.05	19.91	19.97		0
	25	0	19.95	19.89	19.99	0-1	0
	25	12	19.99	19.90	20.02		0
	25	25	19.99	20.02	19.98		0
	50	0	19.98	19.93	20.00		0
16QAM	1	0	20.26	20.20	20.14	0-1	0
	1	25	20.28	20.24	20.18		0
	1	49	20.15	20.19	20.19		0
	25	0	19.98	19.92	19.99	0-2	0
	25	12	19.99	19.97	20.06		0
	25	25	19.99	20.03	20.01		0
	50	0	19.95	19.93	19.98		0
64QAM	1	0	19.95	20.14	20.05	0-2	0
	1	25	20.15	20.26	20.25		0
	1	49	20.00	20.14	19.88		0
	25	0	19.90	19.92	19.98	0-3	0
	25	12	19.99	19.96	20.03		0
	25	25	20.01	19.98	19.98		0
	50	0	19.98	19.92	20.00		0
256QAM	1	0	18.47	18.46	18.56	0-5	1.5
	1	25	18.70	18.71	18.55		1.5
	1	49	18.45	18.50	18.42		1.5
	25	0	18.45	18.39	18.47		1.5
	25	12	18.52	18.43	18.54		1.5
	25	25	18.44	18.52	18.50		1.5
	50	0	18.47	18.49	18.53		1.5

Table 9-19

LTE Band 66 (AWS) Antenna A Uplink Carrier Aggregation Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active)

Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC					SCC								Power		
					PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL#	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL#	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_66C	LTE B66	20	132072	1720	66536	2120	QPSK	100	0	LTE B66	20	132270	1739.8	66734	2139.8	QPSK	100	0	19.99	19.87
CA_66B	LTE B66	10	132022	1715	66486	2115	QPSK	50	0	LTE B66	10	132121	1724.9	66585	2124.9	QPSK	50	0	20.03	19.98

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Table 9-20

LTE Band 66 (AWS) Antenna A Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.26	19.36	19.55	0	0
	1	50	19.28	19.38	19.52		0
	1	99	19.37	19.49	19.54		0
	50	0	19.43	19.38	19.51	0-1	0
	50	25	19.47	19.35	19.51		0
	50	50	19.40	19.46	19.53		0
	100	0	19.43	19.40	19.52		0
16QAM	1	0	19.55	19.67	19.54	0-1	0
	1	50	19.94	19.53	19.59		0
	1	99	19.55	19.85	19.53		0
	50	0	19.45	19.45	19.53	0-2	0
	50	25	19.46	19.40	19.55		0
	50	50	19.45	19.51	19.53		0
	100	0	19.44	19.38	19.52		0
64QAM	1	0	19.57	19.37	19.68	0-2	0
	1	50	19.51	19.55	19.67		0
	1	99	19.72	19.57	19.61		0
	50	0	19.43	19.39	19.51	0-3	0
	50	25	19.44	19.38	19.49		0
	50	50	19.41	19.45	19.50		0
	100	0	19.45	19.38	19.51		0
256QAM	1	0	18.26	18.62	18.42	0-5	1
	1	50	18.35	18.33	18.39		1
	1	99	18.39	18.41	18.42		1
	50	0	18.32	18.28	18.28		1
	50	25	18.35	18.26	18.29		1
	50	50	18.38	18.41	18.31		1
	100	0	18.34	18.30	18.31		1

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Table 9-21
LTE Band 66 (AWS) Antenna A Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.61	19.45	19.60	0	0
	1	25	19.66	19.51	19.66		0
	1	49	19.69	19.46	19.62		0
	25	0	19.53	19.55	19.66	0-1	0
	25	12	19.58	19.53	19.68		0
	25	25	19.59	19.57	19.66		0
	50	0	19.58	19.52	19.65		0
16QAM	1	0	19.64	19.73	19.82	0-1	0
	1	25	19.72	19.95	19.72		0
	1	49	19.72	19.78	19.88		0
	25	0	19.53	19.52	19.66	0-2	0
	25	12	19.60	19.55	19.73		0
	25	25	19.56	19.65	19.66		0
	50	0	19.54	19.54	19.65		0
64QAM	1	0	19.69	19.73	19.92	0-2	0
	1	25	19.82	19.87	19.76		0
	1	49	19.82	19.81	19.69		0
	25	0	19.57	19.54	19.63	0-3	0
	25	12	19.53	19.59	19.64		0
	25	25	19.59	19.63	19.64		0
	50	0	19.55	19.49	19.70		0
256QAM	1	0	18.41	18.43	18.38	0-5	1
	1	25	18.45	18.61	18.65		1
	1	49	18.56	18.41	18.36		1
	25	0	18.46	18.40	18.43		1
	25	12	18.49	18.44	18.51		1
	25	25	18.43	18.47	18.44		1
	50	0	18.39	18.39	18.41		1

Table 9-22
LTE Band 66 (AWS) Antenna A Uplink Carrier Aggregation Measured P_{Limit} for DSI = 3 (Hotspot Mode)

Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC					SCC							Power			
					PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_66C	LTE B66	20	132572	1770.0	67036	2170.0	QPSK	50	0	LTE B66	20	132374	1750.2	66838	2150.2	QPSK	50	50	19.58	19.51
CA_66B	LTE B66	10	132622	1775.0	67086	2175.0	QPSK	25	0	LTE B66	10	132523	1765.1	66987	2165.1	QPSK	25	25	19.51	19.66

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9.3.8 LTE Band 66 Antenna F

Table 9-23

LTE Band 66 (AWS) Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) – 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.91	19.92	19.88	0	0
	1	50	19.95	19.92	19.92		0
	1	99	19.93	19.94	19.82		0
	50	0	19.93	19.83	19.81	0-1	0
	50	25	19.91	19.82	19.81		0
	50	50	20.00	19.84	19.84		0
	100	0	19.84	19.81	19.80		0
16QAM	1	0	19.94	19.83	19.57	0-1	0
	1	50	19.92	19.93	19.91		0
	1	99	20.01	19.95	19.81		0
	50	0	19.80	19.82	19.73	0-2	0
	50	25	19.88	19.84	19.74		0
	50	50	19.84	19.85	19.80		0
	100	0	19.82	19.85	19.83		0
64QAM	1	0	19.90	19.96	19.91	0-2	0
	1	50	19.84	19.98	19.90		0
	1	99	19.84	20.05	19.90		0
	50	0	19.84	19.84	19.65	0-3	0
	50	25	19.85	19.83	19.68		0
	50	50	19.84	19.83	19.84		0
	100	0	19.84	19.81	19.86		0
256QAM	1	0	18.16	18.28	18.53	0-5	1.5
	1	50	18.69	18.35	18.55		1.5
	1	99	18.40	18.50	18.43		1.5
	50	0	18.37	18.28	18.42		1.5
	50	25	18.40	18.42	18.41		1.5
	50	50	18.34	18.41	18.41		1.5
	100	0	18.41	18.41	18.37		1.5

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Table 9-24

LTE Band 66 (AWS) Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) – 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.88	20.06	20.22	0	0
	1	25	19.94	20.10	20.09		0
	1	49	20.13	20.08	20.01		0
	25	0	19.94	19.93	19.84	0-1	0
	25	12	20.02	20.08	20.03		0
	25	25	20.00	20.00	19.99		0
	50	0	19.99	20.01	20.02		0
16QAM	1	0	20.28	20.08	20.09	0-1	0
	1	25	20.29	20.34	20.38		0
	1	49	20.27	20.31	19.86		0
	25	0	20.03	19.97	19.99	0-2	0
	25	12	20.04	20.11	20.05		0
	25	25	20.06	20.04	20.06		0
	50	0	20.01	20.05	20.03		0
64QAM	1	0	20.13	20.13	20.30	0-2	0
	1	25	20.21	20.25	20.24		0
	1	49	20.17	20.20	20.15		0
	25	0	19.99	19.99	19.97	0-3	0
	25	12	19.98	20.07	20.05		0
	25	25	20.01	20.06	20.04		0
	50	0	20.00	20.05	20.05		0
256QAM	1	0	18.62	18.65	18.76	0-5	1.5
	1	25	18.76	18.82	18.79		1.5
	1	49	18.73	18.76	18.68		1.5
	25	0	18.59	18.55	18.62		1.5
	25	12	18.64	18.68	18.71		1.5
	25	25	18.62	18.66	18.62		1.5
	50	0	18.60	18.63	18.66		1.5

Table 9-25

LTE Band 66 (AWS) Antenna F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active)

Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC					SCC								Power		
					PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA 66C	LTE B66	20	132072	1720.0	66536	2120.0	QPSK	50	50	LTE B66	20	132270	1739.8	66734	2139.8	QPSK	50	0	19.65	20.00
CA 66B	LTE B66	10	132022	1715.0	66486	2115.0	QPSK	25	25	LTE B66	10	132121	1724.9	66585	2124.9	QPSK	25	0	19.86	20.00
CA 66C	LTE B66	20	132072	1720.0	66536	2120.0	QPSK	1	99	LTE B66	20	132270	1739.8	66734	2139.8	QPSK	1	0	19.75	19.93
CA 66B	LTE B66	10	132022	1715.0	66486	2115.0	QPSK	1	49	LTE B66	10	132121	1724.9	66585	2124.9	QPSK	1	0	19.96	20.13
CA 66C	LTE B66	20	132572	1770.0	67036	2170.0	QPSK	50	0	LTE B66	20	132374	1750.2	66838	2150.2	QPSK	50	50	19.95	19.81
CA 66B	LTE B66	10	132622	1775.0	67086	2175.0	QPSK	25	0	LTE B66	10	132523	1765.1	66987	2165.1	QPSK	25	25	19.94	19.84

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Table 9-26
LTE Band 66 (AWS) Antenna F Measured P_{Limit} for DSI = 2 (Head) - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.21	18.15	18.06	0	0
	1	50	18.13	18.17	18.20		0
	1	99	18.26	18.09	18.13		0
	50	0	18.08	18.04	18.01	0-1	0
	50	25	18.07	18.05	18.01		0
	50	50	18.23	18.12	18.11		0
	100	0	18.07	18.00	18.01		0
16QAM	1	0	18.26	18.20	18.03	0-1	0
	1	50	18.13	18.23	18.11		0
	1	99	18.17	18.15	18.12		0
	50	0	18.06	18.11	17.91	0-2	0
	50	25	18.07	18.06	17.98		0
	50	50	18.16	18.09	18.00		0
	100	0	18.07	18.09	17.94		0
64QAM	1	0	18.17	18.09	18.12	0-2	0
	1	50	18.10	18.07	18.05		0
	1	99	18.25	17.84	18.12		0
	50	0	18.10	18.02	18.01	0-3	0
	50	25	18.07	18.07	18.03		0
	50	50	18.09	18.07	18.05		0
	100	0	18.11	18.07	17.94		0
256QAM	1	0	17.84	17.62	17.92	0-5	0
	1	50	17.38	17.75	17.74		0
	1	99	17.70	17.61	17.84		0
	50	0	17.55	17.57	17.56		0
	50	25	17.61	17.60	17.50		0
	50	50	17.57	17.70	17.69		0
	100	0	17.61	17.66	17.56		0

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Table 9-27
LTE Band 66 (AWS) Antenna F Measured P_{Limit} for DSI = 2 (Head) - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.17	18.25	18.16	0	0
	1	25	18.26	18.12	18.14		0
	1	49	18.10	18.06	18.11		0
	25	0	18.23	18.19	18.10	0-1	0
	25	12	18.24	18.22	18.17		0
	25	25	18.24	18.20	18.16		0
	50	0	18.19	18.19	18.01		0
16QAM	1	0	18.37	18.45	18.42	0-1	0
	1	25	18.33	18.52	18.52		0
	1	49	18.37	18.43	18.45		0
	25	0	18.14	18.00	18.10	0-2	0
	25	12	18.18	18.13	18.20		0
	25	25	18.15	18.09	18.15		0
	50	0	18.13	18.12	18.14		0
64QAM	1	0	18.30	18.17	18.41	0-2	0
	1	25	18.44	18.38	18.30		0
	1	49	18.40	18.22	18.23		0
	25	0	18.14	18.02	18.06	0-3	0
	25	12	18.15	18.17	18.19		0
	25	25	18.15	18.12	18.14		0
	50	0	18.12	18.09	18.16		0
256QAM	1	0	17.98	18.06	18.15	0-5	0
	1	25	17.88	18.24	18.18		0
	1	49	18.08	18.10	18.10		0
	25	0	18.02	18.01	18.03		0
	25	12	18.07	18.10	18.00		0
	25	25	17.99	18.07	18.06		0
	50	0	18.05	18.06	18.04		0

Table 9-28
LTE Band 66 (AWS) Antenna A Uplink Carrier Aggregation Measured P_{Limit} for DSI = 2 (Head)

Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC					SCC								Power		
					PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_66C	LTE B66	20	132072	1720	66536	2120	QPSK	100	0	LTE B66	20	132270	1739.8	66734	2139.8	QPSK	100	0	18.07	18.07
CA_66B	LTE B66	10	132022	1715	66486	2115	QPSK	50	0	LTE B66	10	132121	1724.9	66585	2124.9	QPSK	50	0	18.25	18.19

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9.3.9 LTE Band 25 Antenna A

Table 9-29

LTE Band 25 (PCS) Antenna A Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) – 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.77	23.09	23.25	0	0
	1	50	22.87	23.08	23.24		0
	1	99	22.91	23.11	23.27		0
	50	0	22.09	22.15	22.21	0-1	1
	50	25	22.16	22.18	22.19		1
	50	50	22.14	22.17	22.22		1
	100	0	22.13	22.21	22.19		1
16QAM	1	0	22.34	22.24	22.34	0-1	1
	1	50	22.48	22.49	22.56		1
	1	99	22.35	22.34	22.53		1
	50	0	21.06	21.14	21.18	0-2	2
	50	25	21.17	21.22	21.23		2
	50	50	21.12	21.21	21.20		2
	100	0	21.16	21.14	21.20		2
64QAM	1	0	21.04	21.08	21.26	0-2	2
	1	50	21.24	21.20	21.29		2
	1	99	21.04	21.38	21.28		2
	50	0	20.09	20.16	20.21	0-3	3
	50	25	20.16	20.18	20.18		3
	50	50	20.14	20.23	20.19		3
	100	0	20.18	20.15	20.20		3
256QAM	1	0	18.02	18.40	18.15	0-5	5
	1	50	18.18	18.45	18.21		5
	1	99	18.27	18.49	18.49		5
	50	0	18.09	18.15	18.15		5
	50	25	18.18	18.15	18.21		5
	50	50	18.18	18.20	18.21		5
	100	0	18.11	18.16	18.17		5

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Table 9-30

LTE Band 25 (PCS) Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.95	20.03	20.20	0	0
	1	50	20.11	20.06	20.15		0
	1	99	19.97	20.10	20.10		0
	50	0	20.03	20.08	20.10	0-1	0
	50	25	20.00	20.10	20.16		0
	50	50	20.02	20.05	20.13		0
	100	0	20.04	20.09	20.10		0
16QAM	1	0	20.42	20.52	20.43	0-1	0
	1	50	20.37	20.43	20.61		0
	1	99	20.58	20.49	20.45		0
	50	0	20.01	20.05	20.10	0-2	0
	50	25	20.00	20.07	20.11		0
	50	50	20.04	20.03	20.10		0
	100	0	20.02	20.07	20.12		0
64QAM	1	0	19.98	20.08	20.12	0-2	0
	1	50	20.02	20.02	20.14		0
	1	99	19.99	20.03	20.22		0
	50	0	20.00	20.12	20.37	0-3	0
	50	25	20.12	19.99	20.22		0
	50	50	20.23	20.08	20.17		0
	100	0	20.47	20.20	20.22		0
256QAM	1	0	18.48	18.40	18.49	0-5	1.5
	1	50	18.30	18.31	18.16		1.5
	1	99	18.38	18.46	18.31		1.5
	50	0	18.28	18.37	18.36		1.5
	50	25	18.29	18.39	18.42		1.5
	50	50	18.33	18.33	18.41		1.5
	100	0	18.28	18.36	18.42		1.5

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Table 9-31
LTE Band 25 (PCS) Antenna A Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.41	17.37	17.04	0	0
	1	50	17.29	17.38	17.09		0
	1	99	17.44	17.31	17.10		0
	50	0	17.19	17.22	17.21	0-1	0
	50	25	17.24	17.12	17.21		0
	50	50	17.28	17.20	17.27		0
	100	0	17.19	17.14	17.23		0
16QAM	1	0	17.65	17.80	17.72	0-1	0
	1	50	17.87	17.62	17.80		0
	1	99	17.92	17.60	17.60		0
	50	0	17.20	17.22	17.24	0-2	0
	50	25	17.15	17.23	17.27		0
	50	50	17.20	17.20	17.29		0
	100	0	17.15	17.23	17.23		0
64QAM	1	0	17.13	17.22	17.41	0-2	0
	1	50	17.11	17.25	17.21		0
	1	99	17.12	17.21	17.24		0
	50	0	17.56	17.21	17.44	0-3	0
	50	25	17.20	17.24	17.32		0
	50	50	17.34	17.33	17.08		0
	100	0	17.56	17.21	17.12		0
256QAM	1	0	17.42	17.40	17.47	0-5	0
	1	50	17.43	17.29	17.44		0
	1	99	17.57	17.27	17.58		0
	50	0	17.15	17.13	17.16		0
	50	25	17.16	17.20	17.19		0
	50	50	17.21	17.19	17.26		0
	100	0	17.18	17.16	17.23		0

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9.3.10 LTE Band 25 Antenna F

Table 9-32

LTE Band 25 (PCS) Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active)
- 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.21	17.42	17.65	0	0
	1	50	17.33	17.55	17.54		0
	1	99	17.28	17.52	17.60		0
	50	0	17.57	17.55	17.57	0-1	0
	50	25	17.59	17.60	17.62		0
	50	50	17.62	17.60	17.63		0
	100	0	17.56	17.51	17.62		0
16QAM	1	0	17.67	17.63	17.75	0-1	0
	1	50	17.78	17.63	17.67		0
	1	99	17.65	17.59	17.84		0
	50	0	17.56	17.56	17.64	0-2	0
	50	25	17.59	17.62	17.67		0
	50	50	17.62	17.62	17.62		0
	100	0	17.61	17.51	17.65		0
64QAM	1	0	17.61	17.58	17.76	0-2	0
	1	50	17.76	17.67	17.73		0
	1	99	17.76	17.65	17.69		0
	50	0	17.57	17.53	17.64	0-3	0
	50	25	17.60	17.61	17.68		0
	50	50	17.66	17.61	17.64		0
	100	0	17.61	17.54	17.66		0
256QAM	1	0	17.58	17.63	17.72	0-5	0
	1	50	17.76	17.65	17.63		0
	1	99	17.79	17.77	17.76		0
	50	0	17.56	17.51	17.62		0
	50	25	17.58	17.61	17.70		0
	50	50	17.64	17.62	17.64		0
	100	0	17.59	17.51	17.66		0

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Table 9-33
LTE Band 25 (PCS) Antenna F Measured P_{Limit} for DSI = 2 (Head) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.41	16.30	16.44	0	0
	1	50	16.95	16.87	16.78		0
	1	99	16.81	16.57	16.81		0
	50	0	16.83	16.73	16.84	0-1	0
	50	25	16.83	16.77	16.83		0
	50	50	16.85	16.80	16.82		0
	100	0	16.80	16.69	16.84		0
16QAM	1	0	16.85	16.93	16.92	0-1	0
	1	50	17.11	16.91	16.79		0
	1	99	16.85	16.96	16.71		0
	50	0	16.82	16.77	16.85	0-2	0
	50	25	16.80	16.80	16.83		0
	50	50	16.88	16.77	16.77		0
	100	0	16.87	16.69	16.82		0
64QAM	1	0	16.89	16.96	16.93	0-2	0
	1	50	16.94	16.86	16.68		0
	1	99	16.63	16.76	16.79		0
	50	0	16.82	16.74	16.81	0-3	0
	50	25	16.88	16.85	16.86		0
	50	50	16.87	16.79	16.84		0
	100	0	16.85	16.70	16.91		0
256QAM	1	0	16.98	17.01	16.98	0-5	0
	1	50	16.89	16.98	16.93		0
	1	99	16.95	16.96	16.97		0
	50	0	16.92	16.99	16.98		0
	50	25	16.94	16.97	17.05		0
	50	50	16.93	17.03	17.01		0
	100	0	16.99	16.92	16.91		0

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9.3.11 LTE Band 30 Antenna A

Table 9-34

LTE Band 30 Antenna A Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) – 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.03	0	0
	1	25	22.20		0
	1	49	21.61		0
	25	0	21.08	0-1	1
	25	12	21.12		1
	25	25	21.16		1
	50	0	21.12		1
16QAM	1	0	21.18	0-1	1
	1	25	21.40		1
	1	49	21.30		1
	25	0	20.11	0-2	2
	25	12	20.14		2
	25	25	20.12		2
	50	0	20.16		2
64QAM	1	0	20.35	0-2	2
	1	25	20.49		2
	1	49	20.27		2
	25	0	19.06	0-3	3
	25	12	19.14		3
	25	25	19.06		3
	50	0	19.14		3
256QAM	1	0	17.19	0-5	5
	1	25	17.12		5
	1	49	17.36		5
	25	0	17.08		5
	25	12	17.13		5
	25	25	17.11		5
	50	0	17.07		5

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Table 9-35
LTE Band 30 Measured Antenna A P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.25	0	0
	1	25	21.33		0
	1	49	21.27		0
	25	0	21.25	0-1	0
	25	12	21.31		0
	25	25	21.35		0
	50	0	21.25		0
16QAM	1	0	21.50	0-1	0
	1	25	21.69		0
	1	49	21.69		0
	25	0	20.24	0-2	1
	25	12	20.31		1
	25	25	20.35		1
	50	0	20.26		1
64QAM	1	0	20.33	0-2	1
	1	25	20.44		1
	1	49	20.56		1
	25	0	19.21	0-3	2
	25	12	19.32		2
	25	25	19.47		2
	50	0	19.55		2
256QAM	1	0	17.35	0-5	4
	1	25	17.57		4
	1	49	17.44		4
	25	0	17.30		4
	25	12	17.36		4
	25	25	17.41		4
	50	0	17.29		4

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Table 9-36
LTE Band 30 Antenna A Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.93	0	0
	1	25	19.83		0
	1	49	19.75		0
	25	0	19.72	0-1	0
	25	12	19.76		0
	25	25	19.84		0
	50	0	19.75		0
16QAM	1	0	19.95	0-1	0
	1	25	20.00		0
	1	49	19.94		0
	25	0	19.69	0-2	0
	25	12	19.74		0
	25	25	19.87		0
	50	0	19.73		0
64QAM	1	0	19.88	0-2	0
	1	25	19.92		0
	1	49	19.80		0
	25	0	19.29	0-3	0
	25	12	19.34		0
	25	25	19.54		0
	50	0	19.57		0
256QAM	1	0	18.08	0-5	1.5
	1	25	18.17		1.5
	1	49	18.23		1.5
	25	0	18.07		1.5
	25	12	18.08		1.5
	25	25	18.15		1.5
	50	0	18.06		1.5

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9.3.12 LTE Band 30 Antenna F

Table 9-37

LTE Band 30 Measured Antenna F P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.66	0	0
	1	25	19.88		0
	1	49	19.77		0
	25	0	19.74	0-1	0
	25	12	19.81		0
	25	25	19.78		0
	50	0	19.76		0
16QAM	1	0	19.97	0-1	0
	1	25	20.04		0
	1	49	19.98		0
	25	0	19.75	0-2	0
	25	12	19.82		0
	25	25	19.77		0
	50	0	19.75		0
64QAM	1	0	19.92	0-2	0
	1	25	20.00		0
	1	49	19.91		0
	25	0	19.39	0-3	0.5
	25	12	19.45		0.5
	25	25	19.42		0.5
	50	0	19.40		0.5
256QAM	1	0	17.55	0-5	2.5
	1	25	17.75		2.5
	1	49	17.59		2.5
	25	0	17.57		2.5
	25	12	17.54		2.5
	25	25	17.58		2.5
	50	0	17.55		2.5

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Table 9-38
LTE Band 30 Antenna F Measured P_{Limit} for DSI = 2 (Head) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	17.41	0	0
	1	25	17.46		0
	1	49	17.31		0
	25	0	17.42	0-1	0
	25	12	17.44		0
	25	25	17.32		0
	50	0	17.34		0
16QAM	1	0	17.46	0-1	0
	1	25	17.75		0
	1	49	17.59		0
	25	0	17.37	0-2	0
	25	12	17.43		0
	25	25	17.33		0
	50	0	17.41		0
64QAM	1	0	17.43	0-2	0
	1	25	17.69		0
	1	49	17.49		0
	25	0	17.37	0-3	0
	25	12	17.43		0
	25	25	17.40		0
	50	0	17.35		0
256QAM	1	0	17.44	0-5	0
	1	25	17.60		0
	1	49	17.37		0
	25	0	17.41		0
	25	12	17.46		0
	25	25	17.37		0
	50	0	17.44		0

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9.3.13 LTE Band 7 Antenna B

Table 9-39

LTE Band 7 Antenna B Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) – 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.67	22.76	22.52	0	0
	1	50	22.83	22.84	22.46		0
	1	99	22.70	22.77	22.36		0
	50	0	21.64	21.61	21.52	0-1	1
	50	25	21.70	21.66	21.60		1
	50	50	21.71	21.73	21.62		1
	100	0	21.72	21.64	21.59		1
16QAM	1	0	21.85	21.98	21.77	0-1	1
	1	50	22.06	22.27	22.00		1
	1	99	21.96	22.00	21.90		1
	50	0	20.59	20.59	20.59	0-2	2
	50	25	20.72	20.70	20.59		2
	50	50	20.73	20.69	20.65		2
	100	0	20.70	20.63	20.65		2
64QAM	1	0	20.74	20.69	20.57	0-2	2
	1	50	20.74	20.57	20.61		2
	1	99	20.71	20.83	20.59		2
	50	0	19.57	19.55	19.49	0-3	3
	50	25	19.71	19.56	19.55		3
	50	50	19.63	19.58	19.57		3
	100	0	19.62	19.55	19.58		3
256QAM	1	0	17.69	17.83	17.66	0-5	5
	1	50	17.70	17.89	17.69		5
	1	99	17.75	17.98	17.83		5
	50	0	17.60	17.62	17.51		5
	50	25	17.74	17.66	17.61		5
	50	50	17.69	17.72	17.62		5
	100	0	17.68	17.63	17.59		5

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Table 9-40

LTE Band 7 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.29	19.34	19.41	0	0
	1	50	19.43	19.44	19.44		0
	1	99	19.39	19.33	19.62		0
	50	0	19.52	19.48	19.38	0-1	0
	50	25	19.60	19.54	19.61		0
	50	50	19.59	19.58	19.48		0
	100	0	19.57	19.51	19.58		0
16QAM	1	0	20.06	19.85	19.44	0-1	0
	1	50	19.96	19.95	19.75		0
	1	99	19.89	19.77	19.46		0
	50	0	19.47	19.44	19.30	0-2	0
	50	25	19.54	19.48	19.36		0
	50	50	19.55	19.54	19.40		0
	100	0	19.55	19.42	19.59		0
64QAM	1	0	19.78	19.92	19.95	0-2	0
	1	50	19.59	19.84	19.92		0
	1	99	19.92	19.72	19.67		0
	50	0	19.52	19.50	19.50	0-3	0
	50	25	19.54	19.54	19.54		0
	50	50	19.62	19.62	19.32		0
	100	0	19.66	19.77	19.52		0
256QAM	1	0	17.92	17.77	17.78	0-5	2
	1	50	18.06	17.65	17.82		2
	1	99	17.57	17.99	17.89		2
	50	0	17.74	17.82	17.88		2
	50	25	17.70	17.50	17.24		2
	50	50	17.76	17.56	17.14		2
	100	0	17.71	17.54	17.59		2

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9.3.14 LTE Band 7 Antenna F

Table 9-41

LTE Band 7 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.14	18.19	17.98	0	0
	1	50	18.29	18.13	18.06		0
	1	99	18.21	18.06	18.10		0
	50	0	18.25	18.14	18.02	0-1	0
	50	25	18.26	18.15	18.08		0
	50	50	18.24	18.03	17.97		0
	100	0	18.25	18.16	18.04		0
16QAM	1	0	18.30	18.14	18.11	0-1	0
	1	50	18.40	18.28	18.31		0
	1	99	18.32	18.22	18.07		0
	50	0	18.24	18.06	18.08	0-2	0
	50	25	18.31	18.06	18.03		0
	50	50	18.27	18.04	17.94		0
	100	0	18.35	18.06	18.06		0
64QAM	1	0	18.15	18.25	18.03	0-2	0
	1	50	18.50	18.26	17.98		0
	1	99	18.36	18.12	18.00		0
	50	0	18.29	18.06	18.00	0-3	0
	50	25	18.29	18.11	18.01		0
	50	50	18.28	18.09	17.97		0
	100	0	18.33	18.08	18.04		0
256QAM	1	0	17.67	17.72	17.62	0-5	0.5
	1	50	17.88	17.69	17.54		0.5
	1	99	17.84	17.73	17.49		0.5
	50	0	17.79	17.44	17.49		0.5
	50	25	17.82	17.57	17.48		0.5
	50	50	17.75	17.64	17.48		0.5
	100	0	17.77	17.61	17.54		0.5

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Table 9-42
LTE Band 7 Antenna F Measured P_{Limit} for DSI = 2 (Head) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.39	15.88	15.91	0	0
	1	50	16.29	15.95	15.91		0
	1	99	16.04	15.93	16.03		0
	50	0	16.38	15.97	15.91	0-1	0
	50	25	16.25	15.95	15.95		0
	50	50	16.22	15.88	15.98		0
	100	0	16.24	15.92	15.95		0
16QAM	1	0	16.44	16.14	15.97	0-1	0
	1	50	16.45	16.08	16.59		0
	1	99	16.20	16.04	16.12		0
	50	0	16.41	16.01	15.88	0-2	0
	50	25	16.23	15.94	16.00		0
	50	50	16.22	15.89	15.96		0
	100	0	16.25	15.97	15.95		0
64QAM	1	0	16.36	16.13	16.09	0-2	0
	1	50	16.45	16.02	16.02		0
	1	99	16.17	15.84	15.98		0
	50	0	16.36	16.04	15.99	0-3	0
	50	25	16.27	16.01	15.94		0
	50	50	16.21	15.93	15.99		0
	100	0	16.26	15.99	15.91		0
256QAM	1	0	16.46	16.34	16.07	0-5	0
	1	50	16.34	16.32	16.18		0
	1	99	16.27	16.36	16.41		0
	50	0	16.41	16.25	16.25		0
	50	25	16.33	16.41	16.34		0
	50	50	16.26	16.35	16.30		0
	100	0	16.26	16.22	16.28		0

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9.3.15 LTE Band 41 Antenna B

Table 9-43

LTE Band 41 PC3 Antenna B Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.02	23.93	24.05	23.85	23.85	0	0
	1	50	24.03	23.97	24.04	23.84	23.79		0
	1	99	23.93	23.88	24.07	23.78	23.76		0
	50	0	23.00	22.99	23.00	22.87	22.71	0-1	1
	50	25	23.08	23.04	23.17	22.91	22.81		1
	50	50	23.09	23.05	22.97	22.87	22.85		1
	100	0	22.97	23.04	23.08	22.94	22.69		1
16QAM	1	0	22.80	22.72	22.73	22.87	22.75	0-1	1
	1	50	22.77	22.67	23.10	22.78	22.53		1
	1	99	22.75	22.78	23.12	22.96	22.81		1
	50	0	22.12	22.01	22.05	21.82	21.93	0-2	2
	50	25	22.03	22.08	22.13	21.99	21.72		2
	50	50	22.04	22.01	22.10	21.97	21.92		2
	100	0	22.08	22.07	22.04	21.98	21.68		2
64QAM	1	0	21.80	21.79	22.18	21.89	21.66	0-2	2
	1	50	21.82	22.07	22.02	21.79	21.81		2
	1	99	21.67	21.79	21.82	21.78	21.71		2
	50	0	20.85	20.95	21.10	20.84	20.87	0-3	3
	50	25	21.09	21.01	21.13	20.98	20.72		3
	50	50	20.98	20.95	21.12	20.89	20.69		3
	100	0	20.94	21.02	20.98	20.94	20.71		3
256QAM	1	0	19.08	19.15	19.11	19.09	18.84	0-5	5
	1	50	19.15	19.12	19.02	19.16	18.76		5
	1	99	19.12	19.13	19.15	19.06	19.01		5
	50	0	18.94	19.06	19.10	18.81	18.95		5
	50	25	19.11	19.03	19.20	18.89	18.86		5
	50	50	19.00	19.06	19.06	18.95	18.94		5
	100	0	19.13	19.18	19.00	19.00	18.81		5

Table 9-44

LTE Band 41 PC2 Antenna B Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	25.85	25.81	25.98	25.48	25.94	0	0
	1	50	25.67	25.64	25.88	25.90	25.88		0
	1	99	25.31	25.47	25.82	25.84	25.78		0
	50	0	24.62	24.61	24.58	24.55	24.39	0-1	0.9
	50	25	24.63	24.60	24.64	24.59	24.41		0.9
	50	50	24.39	24.61	24.65	24.57	24.42		0.9
	100	0	24.45	24.61	24.61	24.52	24.30		0.9

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Table 9-45

LTE Band 41 Antenna B Uplink Carrier Aggregation Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head)

Combination	PCC								SCC						Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40620	2593.0	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	24.15	24.07
CA_41C	LTE B41	20	41055	2636.5	QPSK	1	0	LTE B41	20	40857	2616.7	QPSK	1	99	23.91	23.85

Combination	PCC								SCC						Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40620	2593.0	QPSK	1	99	LTE B41 PC2	20	40818	2612.8	QPSK	1	0	25.91	25.82
CA_41C	LTE B41 PC2	20	41055	2636.5	QPSK	1	0	LTE B41 PC2	20	40857	2616.7	QPSK	1	99	25.55	25.48

Table 9-46

LTE Band 41 Antenna B PC3 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	22.13	22.21	22.26	22.11	22.01	0	0
	1	50	21.92	22.04	22.22	22.03	22.02		0
	1	99	21.87	21.93	22.07	22.06	21.99		0
	50	0	22.02	22.12	22.14	22.13	21.95	0-1	0
	50	25	22.15	22.24	22.26	22.20	21.95		0
	50	50	22.14	22.22	22.25	22.14	22.01		0
	100	0	22.21	22.19	22.25	22.20	22.05		0
16QAM	1	0	22.08	21.97	22.14	21.76	21.96	0-1	0
	1	50	22.22	21.84	22.18	21.68	21.89		0
	1	99	21.99	21.82	22.25	22.10	21.91		0
	50	0	21.87	21.95	22.06	21.89	21.82	0-2	0
	50	25	21.98	22.05	22.06	21.40	21.89		0
	50	50	21.97	22.00	22.02	21.87	21.92		0
	100	0	22.02	22.03	22.09	21.85	21.78		0
64QAM	1	0	21.81	22.15	21.94	21.98	21.71	0-2	0
	1	50	21.96	22.14	21.91	21.86	21.86		0
	1	99	21.81	21.80	22.15	21.72	21.32		0
	50	0	20.89	21.02	20.97	20.87	20.86	0-3	1
	50	25	20.99	21.02	21.10	20.92	20.74		1
	50	50	20.97	20.96	21.01	20.97	20.79		1
	100	0	20.86	20.99	21.10	20.84	20.75		1
256QAM	1	0	18.89	18.80	19.26	19.01	18.91	0-5	3
	1	50	19.02	19.03	18.89	19.09	18.95		3
	1	99	18.89	19.07	18.86	19.03	18.94		3
	50	0	18.81	18.94	19.15	19.01	18.88		3
	50	25	19.09	18.95	19.15	18.88	18.71		3
	50	50	18.93	18.93	19.03	19.00	18.76		3
	100	0	19.00	19.01	19.02	19.03	18.88		3

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Table 9-47

LTE Band 41 PC2 Antenna B PC2 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]
Conducted Power [dBm]								
QPSK	1	0	23.78	24.16	24.20	23.79	24.12	0
	1	50	23.77	24.07	24.35	23.70	24.07	0
	1	99	23.77	23.72	24.38	23.80	23.65	0
	50	0	23.72	23.75	23.98	23.77	23.76	0
	50	25	23.77	23.84	23.88	23.72	23.69	0
	50	50	23.69	23.80	23.86	23.73	23.54	0
	100	0	23.82	23.81	23.86	23.74	23.52	0

Table 9-48

LTE Band 41 Antenna B Uplink Carrier Aggregation Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

Combination	PCC								SCC						Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40620	2593.0	QPSK	1	0	LTE B41	20	40422	2573.2	QPSK	1	99	22.31	22.26
Combination	PCC								SCC						Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40620	2593.0	QPSK	1	0	LTE B41 PC2	20	40422	2573.2	QPSK	1	99	24.25	24.20

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9.3.16 LTE Band 41 Antenna F

Table 9-49

LTE Band 41 PC3 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	21.48	21.24	21.25	21.20	21.35	0	0
	1	50	21.51	21.22	21.10	21.21	21.36		0
	1	99	21.57	21.37	21.11	21.26	21.23		0
	50	0	21.63	21.25	21.23	21.15	21.34	0-1	0
	50	25	21.50	21.35	21.22	21.22	21.27		0
	50	50	21.48	21.35	21.16	21.23	21.25		0
16QAM	100	0	21.53	21.27	21.24	21.18	21.20	0	
	1	0	21.64	21.68	21.35	21.01	21.16	0-1	0
	1	50	21.44	21.33	21.15	21.37	21.23		0
	1	99	21.65	21.08	21.00	21.31	21.21		0
	50	0	21.49	21.34	21.14	21.03	21.30	0-2	0
	50	25	21.37	21.23	21.27	21.17	21.36		0
64QAM	50	50	21.30	21.26	21.19	21.33	21.26		0
	100	0	21.31	21.39	21.32	21.16	21.22	0	
	1	0	21.62	21.58	21.11	21.14	21.35	0-2	0
	1	50	21.55	21.28	21.21	21.20	21.17		0
	1	99	21.31	21.33	21.26	21.25	21.12		0
	50	0	21.29	21.16	21.05	21.00	21.05	0-3	0
50	25	21.29	21.06	21.05	21.01	21.16	0		
50	50	21.26	21.02	21.08	21.12	21.04	0		
256QAM	100	0	21.13	21.13	21.13	20.99	21.04	0	
	1	0	19.16	19.05	19.25	19.16	19.03	0-5	2
	1	50	19.23	19.10	19.21	19.14	19.07		2
	1	99	19.02	19.25	19.09	19.21	19.15		2
	50	0	19.20	19.11	19.11	19.12	19.03		2
	50	25	19.26	19.16	19.08	19.02	19.11		2
50	50	19.19	19.13	19.16	19.02	19.06	2		
100	0	19.20	19.15	19.05	19.04	19.05	2		

Table 9-50

LTE Band 41 PC2 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) – 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	23.34	23.23	23.33	23.13	23.04	0	0
	1	50	23.13	23.12	23.08	23.19	23.20		0
	1	99	23.30	23.22	23.19	23.26	23.20		0
	50	0	23.21	22.94	22.95	22.78	22.95	0-1	0
	50	25	23.16	22.99	22.96	22.91	22.94		0
	50	50	23.12	23.03	22.80	22.92	22.91		0
	100	0	23.12	23.02	22.91	22.98	22.90		0

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Table 9-51

LTE Band 41 Antenna F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	39750	2506.0	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	21.64	21.48

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	39750	2506.0	QPSK	50	50	LTE B41 PC2	20	39948	2525.8	QPSK	50	0	23.35	23.12

Table 9-52

LTE Band 41 Antenna F PC3 Measured P_{Limit} for DSI = 2 (Head) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	19.57	19.22	19.26	19.33	19.30	0	0
	1	50	19.59	19.33	19.24	19.31	19.29		0
	1	99	19.45	19.27	19.33	19.44	19.34		0
	50	0	19.58	19.38	19.30	19.33	19.30	0-1	0
	50	25	19.47	19.41	19.40	19.44	19.41		0
	50	50	19.42	19.39	19.40	19.48	19.39		0
	100	0	19.42	19.40	19.37	19.43	19.31		0
16QAM	1	0	19.32	19.34	19.42	19.31	19.45	0-1	0
	1	50	19.53	19.43	19.33	19.49	19.49		0
	1	99	19.39	19.39	19.52	19.43	19.51		0
	50	0	19.52	19.39	19.28	19.34	19.30	0-2	0
	50	25	19.47	19.40	19.37	19.45	19.38		0
	50	50	19.45	19.39	19.41	19.46	19.35		0
	100	0	19.45	19.43	19.36	19.45	19.30		0
64QAM	1	0	19.48	19.29	19.09	19.21	19.29	0-2	0
	1	50	19.26	19.47	19.16	19.28	19.35		0
	1	99	19.39	19.20	19.29	19.47	19.38		0
	50	0	19.54	19.39	19.27	19.34	19.31	0-3	0
	50	25	19.48	19.43	19.39	19.45	19.39		0
	50	50	19.45	19.40	19.36	19.45	19.36		0
	100	0	19.44	19.43	19.38	19.43	19.31		0
256QAM	1	0	19.18	19.31	19.07	19.07	19.14	0-5	0
	1	50	19.28	19.20	18.92	19.08	19.21		0
	1	99	19.19	19.11	19.05	19.23	19.30		0
	50	0	19.30	19.19	19.12	19.11	19.10		0
	50	25	19.28	19.24	19.19	19.26	19.21		0
	50	50	19.26	19.22	19.17	19.28	19.15		0
	100	0	19.26	19.23	19.20	19.25	19.07		0

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Table 9-53
LTE Band 41 PC2 Antenna F PC2 Measured P_{Limit} for DSI = 2 (Head) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	21.16	20.99	20.97	21.05	20.96	0	0
	1	50	21.19	20.97	21.03	21.06	20.98		0
	1	99	21.12	20.91	21.03	21.17	21.00		0
	50	0	21.24	21.14	21.01	21.04	21.01	0-1	0
	50	25	21.16	21.19	21.11	21.16	21.10		0
	50	50	21.16	21.14	21.11	21.18	21.11		0
	100	0	21.18	21.18	21.07	21.15	21.03		0

Table 9-54
LTE Band 41 Antenna F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 2 (Head) - 20 MHz Bandwidth

LTE Band 41 Antenna 1 - Uplink Carrier Aggregation Measured 7.1kmh for DSI = 2 (Head) - 20 MHz Bandwidth																
Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	39750	2506.0	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	19.42	19.42
Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	39750	2506.0	QPSK	50	50	LTE B41 PC2	20	39948	2525.8	QPSK	50	0	21.16	21.16

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9.3.17 LTE Band 48

Table 9-55

LTE Band 48 Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	20.28	20.21	20.15	20.13	0	0
	1	50	20.34	20.29	20.29	20.15		0
	1	99	20.39	20.32	20.23	20.09		0
	50	0	20.31	20.33	20.31	20.17	0-1	0
	50	25	20.42	20.44	20.39	20.26		0
	50	50	20.47	20.46	20.37	20.22		0
	100	0	20.37	20.35	20.30	20.24		0
16QAM	1	0	20.26	20.33	20.28	20.02	0-1	0
	1	50	20.47	20.56	20.26	20.27		0
	1	99	20.33	20.35	20.23	20.08		0
	50	0	20.31	20.35	20.28	20.15	0-2	0
	50	25	20.42	20.46	20.40	20.23		0
	50	50	20.47	20.48	20.40	20.23		0
	100	0	20.39	20.43	20.40	20.24		0
64QAM	1	0	20.15	20.26	20.20	20.09	0-2	0
	1	50	20.21	20.31	20.32	20.11		0
	1	99	20.26	20.28	20.17	20.01		0
	50	0	19.24	19.21	19.20	19.09	0-3	0.5
	50	25	19.37	19.40	19.31	19.23		0.5
	50	50	19.38	19.39	19.29	19.15		0.5
	100	0	19.35	19.33	19.26	19.15		0.5
256QAM	1	0	17.27	17.24	17.12	17.14	0-5	2.5
	1	50	17.14	17.29	17.27	17.12		2.5
	1	99	17.33	17.38	17.35	17.18		2.5
	50	0	17.22	17.25	17.25	17.13		2.5
	50	25	17.37	17.37	17.34	17.21		2.5
	50	50	17.36	17.35	17.29	17.19		2.5
	100	0	17.32	17.33	17.28	17.18		2.5

Table 9-56

LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

Active, 20 MHz Bandwidth																
	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55340	3560.0	QPSK	50	50	LTE B48	20	55538	3579.8	QPSK	50	0	20.57	20.47
CA_48C	LTE B48	20	55340	3560.0	QPSK	1	99	LTE B48	20	55538	3579.8	QPSK	1	0	20.40	20.39

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Table 9-57
LTE Band 48 Measured P_{Limit} for DSI = 2 (Head) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	18.14	18.26	18.13	18.05	0	0
	1	50	18.22	18.30	18.19	18.08		0
	1	99	18.39	18.31	18.16	18.02		0
	50	0	18.28	18.30	18.21	18.11	0-1	0
	50	25	18.40	18.40	18.31	18.17		0
	50	50	18.44	18.43	18.30	18.18		0
	100	0	18.38	18.37	18.30	18.18		0
16QAM	1	0	18.33	18.24	18.32	18.23	0-1	0
	1	50	18.43	18.32	18.45	18.25		0
	1	99	18.36	18.29	18.34	18.17		0
	50	0	18.29	18.29	18.26	18.13	0-2	0
	50	25	18.40	18.42	18.33	18.21		0
	50	50	18.46	18.46	18.32	18.21		0
	100	0	18.42	18.41	18.33	18.21		0
64QAM	1	0	18.22	18.32	18.17	18.06	0-2	0
	1	50	18.41	18.40	18.24	18.09		0
	1	99	18.34	18.23	18.23	18.06		0
	50	0	18.35	18.35	18.27	18.14	0-3	0
	50	25	18.46	18.46	18.38	18.27		0
	50	50	18.50	18.50	18.36	18.24		0
	100	0	18.45	18.45	18.36	18.23		0
256QAM	1	0	17.49	17.59	17.54	17.46	0-5	0.5
	1	50	17.58	17.59	17.56	17.45		0.5
	1	99	17.63	17.79	17.64	17.54		0.5
	50	0	17.61	17.65	17.60	17.47		0.5
	50	25	17.78	17.77	17.70	17.55		0.5
	50	50	17.74	17.78	17.66	17.54		0.5
	100	0	17.74	17.75	17.68	17.56		0.5

Table 9-58
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} for DSI = 2 (Head) - 20 MHz Bandwidth

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled [dBm]	LTE Single Carrier Tx Power [dBm]
CA_48C	LTE B48	20	56207	3646.7	QPSK	1	99	LTE B48	20	56405	3666.5	QPSK	1	0	18.28	18.16



Figure 9-3
Power Measurement Setup

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9.4 NR Conducted Powers

Per October 2020 TCB Workshop Guidance, NR FR1 SAR evaluations are being generally based on adapting the existing LTE SAR procedures (FCC KDB Publication 941225 D05v02r05). Therefore, NR SAR for the lower bandwidths was not required for testing based on the measured output power and the reported NR SAR for the highest bandwidth. Lower bandwidth conducted powers for all NR bands can be found in LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Note: Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

9.4.1 NR Band n71

Table 9-59
NR Band n71 Measured P_{Max} for all DSI - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.04	0	0.0
	1	53	24.15		0.0
	1	104	24.01		0.0
	50	0	23.62	0-0.5	0.5
	50	28	24.13	0	0.0
	50	56	23.55	0-0.5	0.5
	100	0	23.70		0.5
DFT-s-OFDM QPSK	1	1	23.93	0	0.0
	1	53	24.03		0.0
	1	104	23.92		0.0
	50	0	23.13	0-1	1.0
	50	28	24.14	0	0.0
	50	56	23.02	0-1	1.0
	100	0	23.15		1.0
DFT-s-OFDM 16QAM	1	1	23.36	0-1	1.0
CP-OFDM QPSK	1	1	22.48	0-1.5	1.5

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9.4.2 NR Band n12

Table 9-60
NR Band n12 Measured P_{Max} for all DSI - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.13	0	0.0
	1	40	24.13		0.0
	1	77	24.09		0.0
	36	0	23.71	0-0.5	0.5
	36	22	24.13	0	0.0
	36	43	23.55	0-0.5	0.5
	75	0	23.62		0.5
DFT-s-OFDM QPSK	1	1	24.01	0	0.0
	1	40	24.00		0.0
	1	77	23.98		0.0
	36	0	23.16	0-1	1.0
	36	22	24.09	0	0.0
	36	43	23.04	0-1	1.0
	75	0	23.17		1.0
DFT-s-OFDM 16QAM	1	1	23.42	0-1	1.0
CP-OFDM QPSK	1	1	22.61	0-1.5	1.5

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9.4.3 NR Band n26

Table 9-61
NR Band n26 Measured P_{Max} for all DSI - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.22	0	0.0
	1	53	24.18		0.0
	1	104	24.10		0.0
	50	0	23.81	0-0.5	0.5
	50	28	24.22	0	0.0
	50	56	23.64	0-0.5	0.5
	100	0	23.80		0.5
DFT-s-OFDM QPSK	1	1	24.13	0	0.0
	1	53	24.12		0.0
	1	104	24.00		0.0
	50	0	23.31	0-1	1.0
	50	28	24.24	0	0.0
	50	56	23.16	0-1	1.0
	100	0	23.25		1.0
DFT-s-OFDM 16QAM	1	1	23.13	0-1	1.0
CP-OFDM QPSK	1	1	22.68	0-1.5	1.5

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9.4.4 NR Band n66 Antenna A

Table 9-62

NR Band n66 Antenna A Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.95	0	0.0
	1	108	23.97		0.0
	1	214	23.95		0.0
	108	0	23.63	0-0.5	0.5
	108	54	24.10	0	0.0
	108	108	23.72	0-0.5	0.5
	216	0	23.59		0.5
DFT-s-OFDM QPSK	1	1	23.94	0	0.0
	1	108	24.00		0.0
	1	214	23.96		0.0
	108	0	23.09	0-1	1.0
	108	54	24.14	0	0.0
	108	108	23.21	0-1	1.0
	216	0	23.13		1.0
DFT-s-OFDM 16QAM	1	1	23.37	0-1	1.0
CP-OFDM QPSK	1	1	22.54	0-1.5	1.5

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Table 9-63
NR Band n66 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or
DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.44	0	0.0
	1	108	20.50		0.0
	1	214	20.46		0.0
	108	0	20.52	0-0.5	0.0
	108	54	20.49	0	0.0
	108	108	20.62	0-0.5	0.0
	216	0	20.49		0.0
DFT-s-OFDM QPSK	1	1	20.33	0	0.0
	1	108	20.46		0.0
	1	214	20.37		0.0
	108	0	20.46	0-1	0.0
	108	54	20.47	0	0.0
	108	108	20.59	0-1	0.0
	216	0	20.45		0.0
DFT-s-OFDM 16QAM	1	1	20.68	0-1	0.0
CP-OFDM QPSK	1	1	20.41	0-1.5	0.0

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Table 9-64
NR Band n66 Antenna A Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.00	0	0.0
	1	108	20.07		0.0
	1	214	20.03		0.0
	108	0	20.04	0-0.5	0.0
	108	54	20.05	0	0.0
	108	108	20.15	0-0.5	0.0
	216	0	20.04		0.0
DFT-s-OFDM QPSK	1	1	19.84	0	0.0
	1	108	20.03		0.0
	1	214	19.86		0.0
	108	0	20.06	0-1	0.0
	108	54	20.06	0	0.0
	108	108	20.16	0-1	0.0
	216	0	20.01		0.0
DFT-s-OFDM 16QAM	1	1	20.34	0-1	0.0
CP-OFDM QPSK	1	1	20.00	0-1.5	0.0

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9.4.5 NR Band n66 Antenna F

Table 9-65

NR Band n66 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot mode active) and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.93	0	0.0
	1	108	20.07		0.0
	1	214	19.81		0.0
	108	0	19.96	0-0.5	0.0
	108	54	19.93	0	0.0
	108	108	20.01	0-0.5	0.0
	216	0	19.96		0.0
DFT-s-OFDM QPSK	1	1	19.75	0	0.0
	1	108	19.95		0.0
	1	214	19.66		0.0
	108	0	19.95	0-1	0.0
	108	54	20.01	0	0.0
	108	108	19.92	0-1	0.0
	216	0	19.94		0.0
DFT-s-OFDM 16QAM	1	1	20.06	0-1	0.0
CP-OFDM QPSK	1	1	19.82	0-1.5	0.0

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Table 9-66
NR Band n66 Antenna F Measured P_{Limit} for DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.11	0	0.0
	1	108	17.93		0.0
	1	214	17.94		0.0
	108	0	18.08	0-0.5	0.0
	108	54	18.04	0	0.0
	108	108	18.10	0-0.5	0.0
	216	0	18.04		0.0
DFT-s-OFDM QPSK	1	1	18.25	0	0.0
	1	108	18.00		0.0
	1	214	17.99		0.0
	108	0	18.10	0-1	0.0
	108	54	18.00	0	0.0
	108	108	18.23	0-1	0.0
	216	0	18.21		0.0
DFT-s-OFDM 16QAM	1	1	18.30	0-1	0.0
CP-OFDM QPSK	1	1	18.11	0-1.5	0.0

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9.4.6 NR Band n25 Antenna A

Table 9-67

NR Band n25 Antenna A Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.47	0	0.0
	1	108	23.56		0.0
	1	214	23.45		0.0
	108	0	23.09	0-0.5	0.5
	108	54	23.62	0	0.0
	108	108	23.11	0-0.5	0.5
	216	0	23.13		0.5
DFT-s-OFDM QPSK	1	1	23.33	0	0.0
	1	108	23.44		0.0
	1	214	23.31		0.0
	108	0	22.60	0-1	1.0
	108	54	23.63	0	0.0
	108	108	22.60	0-1	1.0
	216	0	22.64		1.0
DFT-s-OFDM 16QAM	1	1	22.75	0-1	1.0
CP-OFDM QPSK	1	1	21.61	0-1.5	1.5

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Table 9-68
NR Band n25 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or
DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.35	0	0.0
	1	108	20.44		0.0
	1	214	20.33		0.0
	108	0	20.47	0-0.5	0.0
	108	54	20.47	0	0.0
	108	108	20.43	0-0.5	0.0
	216	0	20.46		0.0
DFT-s-OFDM QPSK	1	1	20.22	0	0.0
	1	108	20.37		0.0
	1	214	20.22		0.0
	108	0	20.46	0-1	0.0
	108	54	20.45	0	0.0
	108	108	20.41	0-1	0.0
	216	0	20.36		0.0
DFT-s-OFDM 16QAM	1	1	20.50	0-1	0.0
CP-OFDM QPSK	1	1	20.34	0-1.5	0.0

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Table 9-69
NR Band n25 Antenna A Measured P_{Limit} for DSI = 3 (Hotspot mode) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.37	0	0.0
	1	108	17.45		0.0
	1	214	17.35		0.0
	108	0	17.45	0-0.5	0.0
	108	54	17.52	0	0.0
	108	108	17.45	0-0.5	0.0
	216	0	17.52		0.0
DFT-s-OFDM QPSK	1	1	17.26	0	0.0
	1	108	17.43		0.0
	1	214	17.24		0.0
	108	0	17.48	0-1	0.0
	108	54	17.53	0	0.0
	108	108	17.43	0-1	0.0
	216	0	17.42		0.0
DFT-s-OFDM 16QAM	1	1	17.64	0-1	0.0
CP-OFDM QPSK	1	1	17.34	0-1.5	0.0

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9.4.7 NR Band n25 Antenna F

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NR Band n25 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot mode active) and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.12	0	0.0
	1	108	20.24		0.0
	1	214	20.19		0.0
	108	0	20.20	0-0.5	0.0
	108	54	20.21	0	0.0
	108	108	20.24	0-0.5	0.0
	216	0	20.20		0.0
DFT-s-OFDM QPSK	1	1	20.09	0	0.0
	1	108	19.97		0.0
	1	214	19.89		0.0
	108	0	20.16	0-1	0.0
	108	54	20.22	0	0.0
	108	108	20.19	0-1	0.0
	216	0	20.08		0.0
DFT-s-OFDM 16QAM	1	1	20.34	0-1	0.0
CP-OFDM QPSK	1	1	19.98	0-1.5	0.0

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Table 9-71
NR Band n25 Antenna F Measured P_{Limit} for DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.11	0	0.0
	1	108	17.07		0.0
	1	214	17.01		0.0
	108	0	17.14	0-0.5	0.0
	108	54	17.19	0	0.0
	108	108	17.12	0-0.5	0.0
	216	0	17.21		0.0
DFT-s-OFDM QPSK	1	1	16.93	0	0.0
	1	108	17.00		0.0
	1	214	16.91		0.0
	108	0	17.14	0-1	0.0
	108	54	17.17	0	0.0
	108	108	17.13	0-1	0.0
	216	0	17.21		0.0
DFT-s-OFDM 16QAM	1	1	17.13	0-1	0.0
CP-OFDM QPSK	1	1	17.06	0-1.5	0.0

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9.4.8 NR Band n30 Antenna A

Table 9-72

NR Band n30 Antenna A Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	21.94	0	0.0
	1	26	22.40		0.0
	1	50	22.03		0.0
	25	0	22.03	0-0.5	0.5
	25	14	22.40	0	0.0
	25	27	21.84	0-0.5	0.5
	50	0	22.00		0.5
DFT-s-OFDM QPSK	1	1	21.99	0	0.0
	1	26	22.37		0.0
	1	50	21.99		0.0
	25	0	21.54	0-1	1.0
	25	14	22.27	0	0.0
	25	27	21.55	0-1	1.0
	50	0	21.53		1.0
DFT-s-OFDM 16QAM	1	1	21.60	0-1	1.0
CP-OFDM QPSK	1	1	20.33	0-1.5	1.5

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Table 9-73
NR Band n30 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	21.54	0	0.0
	1	26	21.57		0.0
	1	50	21.46		0.0
	25	0	21.54	0-0.5	0.0
	25	14	21.56	0	0.0
	25	27	21.54	0-0.5	0.0
	50	0	21.55		0.0
DFT-s-OFDM QPSK	1	1	21.47	0	0.0
	1	26	21.52		0.0
	1	50	21.35		0.0
	25	0	21.54	0-1	0.0
	25	14	21.53	0	0.0
	25	27	21.52	0-1	0.0
	50	0	21.51		0.0
DFT-s-OFDM 16QAM	1	1	21.67	0-1	0.0
CP-OFDM QPSK	1	1	20.35	0-1.5	0.5

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Table 9-74
NR Band n30 Antenna A Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.90	0	0.0
	1	26	19.89		0.0
	1	50	19.83		0.0
	25	0	19.87	0-0.5	0.0
	25	14	19.89	0	0.0
	25	27	19.85	0-0.5	0.0
	50	0	19.85		0.0
DFT-s-OFDM QPSK	1	1	19.67	0	0.0
	1	26	19.82		0.0
	1	50	19.64		0.0
	25	0	19.87	0-1	0.0
	25	14	19.90	0	0.0
	25	27	19.88	0-1	0.0
	50	0	19.81		0.0
DFT-s-OFDM 16QAM	1	1	19.94	0-1	0.0
CP-OFDM QPSK	1	1	19.83	0-1.5	0.0

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9.4.9 NR Band n30 Antenna F

Table 9-75

NR Band n30 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot mode active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.35	0	0.0
	1	26	20.34		0.0
	1	50	20.25		0.0
	25	0	20.40	0-0.5	0.0
	25	14	20.37	0	0.0
	25	27	20.36	0-0.5	0.0
	50	0	20.37		0.0
DFT-s-OFDM QPSK	1	1	20.33	0	0.0
	1	26	20.32		0.0
	1	50	20.23		0.0
	25	0	20.33	0-1	0.0
	25	14	20.37	0	0.0
	25	27	20.30	0-1	0.0
	50	0	20.30		0.0
DFT-s-OFDM 16QAM	1	1	20.78	0-1	0.0
CP-OFDM QPSK	1	1	20.40	0-1.5	0.0

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Table 9-76
NR Band n30 Antenna F Measured P_{Limit} for DSI = 2 (Head) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	16.22	0	0.0
	1	26	16.29		0.0
	1	50	16.25		0.0
	25	0	16.62	0-0.5	0.0
	25	14	16.74	0	0.0
	25	27	16.53	0-0.5	0.0
	50	0	16.64		0.0
DFT-s-OFDM QPSK	1	1	16.77	0	0.0
	1	26	16.61		0.0
	1	50	16.79		0.0
	25	0	16.78	0-1	0.0
	25	14	16.88	0	0.0
	25	27	16.84	0-1	0.0
	50	0	16.78		0.0
DFT-s-OFDM 16QAM	1	1	16.69	0-1	0.0
CP-OFDM QPSK	1	1	16.32	0-1.5	0.0

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9.4.10 NR Band n7 Antenna B

Table 9-77

NR Band n7 Antenna B Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.50	0	0.0
	1	108	23.52		0.0
	1	214	23.32		0.0
	108	0	23.08	0-0.5	0.5
	108	54	23.49	0	0.0
	108	108	23.07	0-0.5	0.5
	216	0	23.00		0.5
DFT-s-OFDM QPSK	1	1	23.41	0	0.0
	1	108	23.43		0.0
	1	214	23.22		0.0
	108	0	22.59	0-1	1.0
	108	54	23.48	0	0.0
	108	108	22.60	0-1	1.0
	216	0	22.53		1.0
DFT-s-OFDM 16QAM	1	1	22.91	0-1	1.0
CP-OFDM QPSK	1	1	21.99	0-1.5	1.5

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Table 9-78

NR Band n7 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active), or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.14	0	0.0
	1	108	20.20		0.0
	1	214	19.99		0.0
	108	0	20.18	0-0.5	0.0
	108	54	20.08	0	0.0
	108	108	20.14	0-0.5	0.0
	216	0	20.08		0.0
DFT-s-OFDM QPSK	1	1	19.93	0	0.0
	1	108	20.03		0.0
	1	214	19.81		0.0
	108	0	20.08	0-1	0.0
	108	54	20.01	0	0.0
	108	108	20.12	0-1	0.0
	216	0	20.01		0.0
DFT-s-OFDM 16QAM	1	1	20.39	0-1	0.0
CP-OFDM QPSK	1	1	20.13	0-1.5	0.0

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9.4.11 NR Band n7 Antenna F

Table 9-79

NR Band n7 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot mode active) and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.84	0	0.0
	1	108	18.77		0.0
	1	214	18.48		0.0
	108	0	18.85	0-0.5	0.0
	108	54	18.68	0	0.0
	108	108	18.63	0-0.5	0.0
	216	0	18.68		0.0
DFT-s-OFDM QPSK	1	1	18.73	0	0.0
	1	108	18.65		0.0
	1	214	18.40		0.0
	108	0	18.88	0-1	0.0
	108	54	18.65	0	0.0
	108	108	18.63	0-1	0.0
	216	0	18.68		0.0
DFT-s-OFDM 16QAM	1	1	19.24	0-1	0.0
CP-OFDM QPSK	1	1	18.82	0-1.5	0.0

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Table 9-80
NR Band n7 Antenna F Measured P_{Limit} for DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	16.30	0	0.0
	1	108	16.23		0.0
	1	214	16.09		0.0
	108	0	16.37	0-0.5	0.0
	108	54	16.29	0	0.0
	108	108	16.25	0-0.5	0.0
	216	0	16.31		0.0
DFT-s-OFDM QPSK	1	1	16.29	0	0.0
	1	108	16.16		0.0
	1	214	16.00		0.0
	108	0	16.34	0-1	0.0
	108	54	16.28	0	0.0
	108	108	16.24	0-1	0.0
	216	0	16.28		0.0
DFT-s-OFDM 16QAM	1	1	16.58	0-1	0.0
CP-OFDM QPSK	1	1	16.27	0-1.5	0.0

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9.4.12 NR Band n41 Antenna F – Path 1

Table 9-81

NR Band n41 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.06	0	0.0
	1	137	19.26		0.0
	1	271	19.14		0.0
	135	0	19.24	0-0.5	0.0
	135	69	19.26	0	0.0
	135	138	19.09	0-0.5	0.0
	270	0	19.19		0.0
DFT-s-OFDM QPSK	1	1	19.08	0	0.0
	1	137	19.33		0.0
	1	271	19.14		0.0
	135	0	19.22	0-1	0.0
	135	69	19.25	0	0.0
	135	138	19.09	0-1	0.0
	270	0	19.18		0.0
DFT-s-OFDM 16QAM	1	1	19.18	0-1	0.0
CP-OFDM QPSK	1	1	19.01	0-1.5	0.0

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Table 9-82
NR Band n41 Antenna F Measured P_{Limit} for DSI = 2 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.09	0	0.0
	1	137	17.26		0.0
	1	271	17.15		0.0
	135	0	17.23	0-0.5	0.0
	135	69	17.22	0	0.0
	135	138	17.05	0-0.5	0.0
	270	0	17.14		0.0
DFT-s-OFDM QPSK	1	1	17.11	0	0.0
	1	137	17.31		0.0
	1	271	17.16		0.0
	135	0	17.19	0-1	0.0
	135	69	17.32	0	0.0
	135	138	17.06	0-1	0.0
	270	0	17.30		0.0
DFT-s-OFDM 16QAM	1	1	17.08	0-1	0.0
CP-OFDM QPSK	1	1	17.05	0-1.5	0.0

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9.4.13 NR Band n41 Antenna B – Path 2

Table 9-83

NR Band n41 Antenna B Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.76	0	0.0
	1	137	19.03		0.0
	1	271	18.88		0.0
	135	0	18.87	0-0.5	0.0
	135	69	19.02	0	0.0
	135	138	19.00	0-0.5	0.0
	270	0	18.94		0.0
DFT-s-OFDM QPSK	1	1	18.85	0	0.0
	1	137	19.03		0.0
	1	271	18.88		0.0
	135	0	18.88	0-1	0.0
	135	69	19.02	0	0.0
	135	138	19.00	0-1	0.0
	270	0	18.94		0.0
DFT-s-OFDM 16QAM	1	1	18.55	0-1	0.0
CP-OFDM QPSK	1	1	18.85	0-1.5	0.0

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Table 9-84
NR Band n41 Antenna B Measured P_{Limit} for DSI = 2 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	16.89	0	0.0
	1	137	17.15		0.0
	1	271	17.03		0.0
	135	0	16.92	0-0.5	0.0
	135	69	17.07	0	0.0
	135	138	17.03	0-0.5	0.0
	270	0	17.00		0.0
DFT-s-OFDM QPSK	1	1	16.93	0	0.0
	1	137	17.12		0.0
	1	271	16.95		0.0
	135	0	16.91	0-1	0.0
	135	69	17.09	0	0.0
	135	138	17.08	0-1	0.0
	270	0	17.01		0.0
DFT-s-OFDM 16QAM	1	1	16.75	0-1	0.0
CP-OFDM QPSK	1	1	16.90	0-1.5	0.0

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9.4.14 NR Band n41 Antenna B, E, D – Path 1

Table 9-85

NR Band n41 Antenna B, E, D Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant B	16.97
SRS #3 Ant E	15.00
SRS #4 Ant D	16.50

Table 9-86

NR Band n41 Antenna B, E, D Measured P_{Limit} for DSI = 2 (Head) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Modulation	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant B	15.01
SRS #3 Ant E	13.05
SRS #4 Ant D	14.71

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9.4.15 NR Band n41 Antenna F, D, E – Path 2

Table 9-87

NR Band n41 Antenna F, D, E Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant F	17.01
SRS #3 Ant D	16.20
SRS #4 Ant E	13.88

Table 9-88

NR Band n41 Antenna F, D, E Measured P_{Limit} for DSI = 2 (Head) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Modulation	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant F	15.10
SRS #3 Ant D	14.16
SRS #4 Ant E	12.08

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9.4.16 NR Band n48 Antenna G

Table 9-89

NR Band n48 Antenna G Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.11	17.96	18.03	0	0.0
	1	53	18.06	17.96	17.92		0.0
	1	104	18.12	18.00	18.05		0.0
	50	0	18.07	17.92	17.86	0-0.5	0.0
	50	28	18.04	17.84	17.85	0	0.0
	50	56	18.06	17.87	17.87	0-0.5	0.0
	100	0	18.02	17.86	17.97		0.0
DFT-s-OFDM QPSK	1	1	18.20	18.03	18.07	0	0.0
	1	53	18.11	17.96	17.89		0.0
	1	104	18.13	18.04	18.07		0.0
	50	0	18.12	17.94	17.96	0-1	0.0
	50	28	18.11	17.87	17.90	0	0.0
	50	56	18.05	17.92	17.98	0-1	0.0
	100	0	18.01	17.89	17.98		0.0
DFT-s-OFDM 16QAM	1	1	18.10	17.86	17.96	0-1	0.0
CP-OFDM QPSK	1	1	18.11	17.91	17.97	0-1.5	0.0

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Table 9-90
NR Band n48 Antenna G Measured P_{Limit} for DSI = 2 (Head) - 40 MHz Bandwidth
NR Band n48
40 MHz Bandwidth

			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	16.29	16.29	16.11	0	0.0
	1	53	16.19	16.25	16.07		0.0
	1	104	16.34	16.24	16.20		0.0
	50	0	16.23	16.16	16.07	0-0.5	0.0
	50	28	16.20	16.05	16.03	0	0.0
	50	56	16.23	16.14	16.12	0-0.5	0.0
	100	0	16.20	16.10	16.08		0.0
DFT-s-OFDM QPSK	1	1	16.30	16.26	16.13	0	0.0
	1	53	16.10	16.20	16.09		0.0
	1	104	16.26	16.27	16.24		0.0
	50	0	16.27	16.17	16.09	0-1	0.0
	50	28	16.15	16.08	16.07	0	0.0
	50	56	16.22	16.16	16.12	0-1	0.0
	100	0	16.15	16.09	16.08		0.0
DFT-s-OFDM 16QAM	1	1	16.26	16.14	16.11	0-1	0.0
CP-OFDM QPSK	1	1	16.25	16.23	16.11	0-1.5	0.0

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9.4.17 NR Band n48 Antenna C, I, D

Table 9-91

NR Band n48 Antenna C, I, D Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth			
Channel			
Modulation	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS #2 Ant C	13.72	13.81	13.60
SRS #3 Ant I	15.73	15.59	15.27
SRS #4 Ant D	13.65	13.90	13.79

Table 9-92

NR Band n48 Antenna C, I, D Measured P_{Limit} for DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth			
Channel			
Modulation	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS #2 Ant C	11.69	11.76	11.55
SRS #3 Ant I	13.69	13.58	13.32
SRS #4 Ant D	11.69	11.88	11.83

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9.4.18 NR Band n77 DoD Antenna G

Table 9-93

NR Band n77 DoD Antenna G Measured P_{Limit} for all DSI - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.07	0	0.0
	1	137	18.18		0.0
	1	271	18.36		0.0
	135	0	18.18	0-0.5	0.0
	135	69	18.22	0	0.0
	135	138	18.28	0-0.5	0.0
	270	0	18.26		0.0
DFT-s-OFDM QPSK	1	1	18.23	0	0.0
	1	137	18.26		0.0
	1	271	18.42		0.0
	135	0	18.19	0-1	0.0
	135	69	18.23	0	0.0
	135	138	18.29	0-1	0.0
	270	0	18.17		0.0
DFT-s-OFDM 16QAM	1	1	18.25	0-1	0.0
CP-OFDM QPSK	1	1	18.16	0-1.5	0.0

9.4.19 NR Band n77 DoD Antenna C, I, D

Table 9-94

NR Band n77 DoD Antenna C, I, D Measured P_{Limit} for all DSI – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant C	13.96
SRS #3 Ant I	16.11
SRS #4 Ant D	13.66

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9.4.20 NR Band n77 Antenna G

Table 9-95
NR Band n77 Antenna G Measured P_{Limit} for all DSI - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.68	18.24	0	0.0
	1	137	18.74	18.55		0.0
	1	271	18.26	18.38		0.0
	135	0	18.70	18.43	0-0.5	0.0
	135	69	18.66	18.53	0	0.0
	135	138	18.39	18.52	0-0.5	0.0
	270	0	18.54	18.49		0.0
DFT-s-OFDM QPSK	1	1	18.74	18.22	0	0.0
	1	137	18.68	18.53		0.0
	1	271	18.26	18.35		0.0
	135	0	18.71	18.43	0-1	0.0
	135	69	18.54	18.57	0	0.0
	135	138	18.41	18.55	0-1	0.0
	270	0	18.57	18.48		0.0
DFT-s-OFDM 16QAM	1	1	18.66	17.77	0-1	0.0
CP-OFDM QPSK	1	1	18.57	18.22	0-1.5	0.0

9.4.21 NR Band n77 Antenna C, I, D

Table 9-96
NR Band n77 Antenna C, I, D Measured P_{Limit} for all DSI – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant C	14.14	13.32
SRS #3 Ant I	16.25	16.04
SRS #4 Ant D	14.36	13.74

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Figure 9-4
Power Measurement Setup – NR FDD

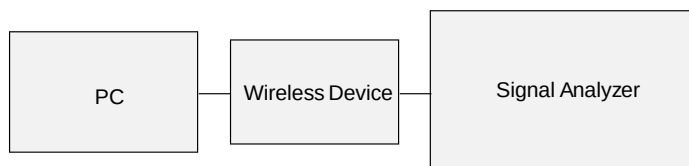


Figure 9-5
Power Measurement Setup – NR TDD

9.5 WLAN Conducted Powers

Table 9-97
2.4 GHz WLAN Maximum Average RF Power – Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	19.73	17.47	17.30	16.71
2437	6	19.79	17.43	17.40	16.76
2462	11	19.72	17.41	17.47	16.63

Table 9-98
2.4 GHz WLAN Maximum Average RF Power – MIMO

2.4GHz 802.11b Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	19.94	19.68	22.83
2437	6	19.63	19.77	22.71
2462	11	19.85	19.68	22.78

Table 9-99
2.4 GHz WLAN Reduced Average RF Power with RCV Active – Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	15.74	15.52	15.66	15.72
2437	6	15.65	15.82	15.81	15.61
2462	11	15.70	15.60	15.55	15.60

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Table 9-100

2.4 GHz WLAN Reduced Average RF Power with RCV Active– MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	15.35	15.55	18.46
2437	6	15.41	15.58	18.51
2462	11	15.29	15.51	18.41

Table 9-101

2.4 GHz WLAN Reduced Average RF Powers During Conditions with 5/6 GHz WLAN and/or 5G NR – Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	16.64	16.42	16.50	16.71
2437	6	16.52	16.92	16.71	16.76
2462	11	16.59	16.47	16.47	16.63

Table 9-102

2.4 GHz WLAN Reduced Average RF Powers During Conditions with 5/6 GHz WLAN and/or 5G NR – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	16.40	16.58	19.50
2437	6	16.22	16.61	19.43
2462	11	16.22	16.90	19.58

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Table 9-103
5 GHz WLAN Maximum Average RF Power – MIMO
5GHz (20MHz) 802.11n Conducted Power [dBm]

Freq [MHz]	Channel	ANT1	ANT2	MIMO
5180	36	17.36	17.23	20.31
5200	40	17.27	17.18	20.23
5220	44	17.37	17.41	20.40
5240	48	17.43	17.04	20.25
5260	52	17.49	17.00	20.26
5280	56	17.38	17.31	20.35
5300	60	17.37	17.30	20.35
5320	64	17.49	17.11	20.31
5500	100	17.47	17.27	20.38
5600	120	17.39	17.09	20.25
5620	124	17.37	16.78	20.10
5720	144	17.49	17.02	20.27
5745	149	17.47	17.08	20.29
5785	157	17.48	17.09	20.30
5825	165	17.42	17.14	20.29
5845	169	17.47	17.11	20.30
5865	173	17.49	17.22	20.37
5885	177	17.41	17.00	20.22

Table 9-104
5 GHz WLAN Reduced Average RF Power with RCV Active - MIMO
5GHz (80MHz) 802.11ac Conducted Power [dBm]

Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	12.28	12.74	15.53
5290	58	12.33	12.64	15.50
5530	106	12.15	12.71	15.45
5610	122	12.25	12.65	15.46
5690	138	12.28	12.77	15.54
5775	155	12.44	12.72	15.59
5855	171	12.22	12.65	15.45

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Table 9-105

5 GHz WLAN Reduced Average RF Power During Conditions with 5G FR1 NR and/or 2.4 GHz WLAN - MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	14.24	14.92	17.60
5290	58	14.28	14.86	17.59
5530	106	14.23	14.89	17.58
5610	122	14.38	14.78	17.59
5690	138	14.49	14.81	17.66
5775	155	14.20	14.77	17.50
5855	171	14.48	14.89	17.70

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

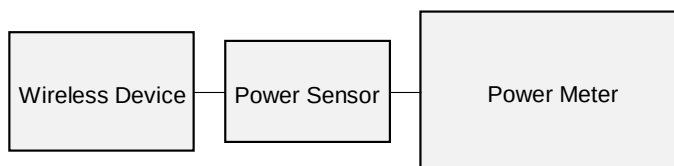


Figure 9-6
Power Measurement Setup

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9.6 Bluetooth Conducted Powers

Table 9-106
Bluetooth Maximum Average RF Power– Antenna 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	17.51	56.403
2441	1.0	GFSK	39	18.18	65.736
2480	1.0	GFSK	78	16.90	49.000
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	17.98	62.734
2440	1 Mbps	19	LE	18.36	68.517
2480	1 Mbps	39	LE	17.33	54.125

Table 9-107
Bluetooth Maximum Average RF Power– Antenna 2

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	17.43	55.373
2441	1.0	GFSK	39	17.72	59.156
2480	1.0	GFSK	78	16.80	47.841
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	17.82	60.548
2440	1 Mbps	19	LE	17.74	59.470
2480	1 Mbps	39	LE	16.89	48.865

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Table 9-108
Bluetooth Maximum Average RF Power – MIMO

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	ANT1 Avg Conducted Power		ANT2 Avg Conducted Power		Dual Avg Conducted Power	
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1.0	GFSK	0	14.11	25.781	13.09	20.370	16.64	46.151
2441	1.0	GFSK	39	14.49	28.132	13.46	22.192	17.02	50.324
2480	1.0	GFSK	78	13.40	21.863	12.79	19.006	16.11	40.869

Table 9-109
Bluetooth Reduced Average RF Power (RCV Active) – Antenna 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	11.46	13.996
2441	1.0	GFSK	39	12.48	17.701
2480	1.0	GFSK	78	11.15	13.032

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	11.53	14.223
2440	1 Mbps	19	LE	12.43	17.498
2480	1 Mbps	39	LE	11.05	12.735

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Table 9-110
Bluetooth Reduced Average RF Power (RCV Active) – Antenna 2

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	12.32	17.061
2441	1.0	GFSK	39	12.39	17.338
2480	1.0	GFSK	78	11.66	14.655
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	12.46	17.620
2440	1 Mbps	19	LE	12.51	17.824
2480	1 Mbps	39	LE	11.81	15.171

Table 9-111
Bluetooth Reduced Average RF Power (RCV Active) – MIMO

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	ANT1 Avg Conducted Power		ANT2 Avg Conducted Power		Dual Avg Conducted Power	
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1.0	GFSK	0	11.62	14.521	12.43	17.498	15.05	32.020
2441	1.0	GFSK	39	12.50	17.783	12.34	17.140	15.43	34.922
2480	1.0	GFSK	78	11.16	13.062	11.87	15.382	14.54	28.443

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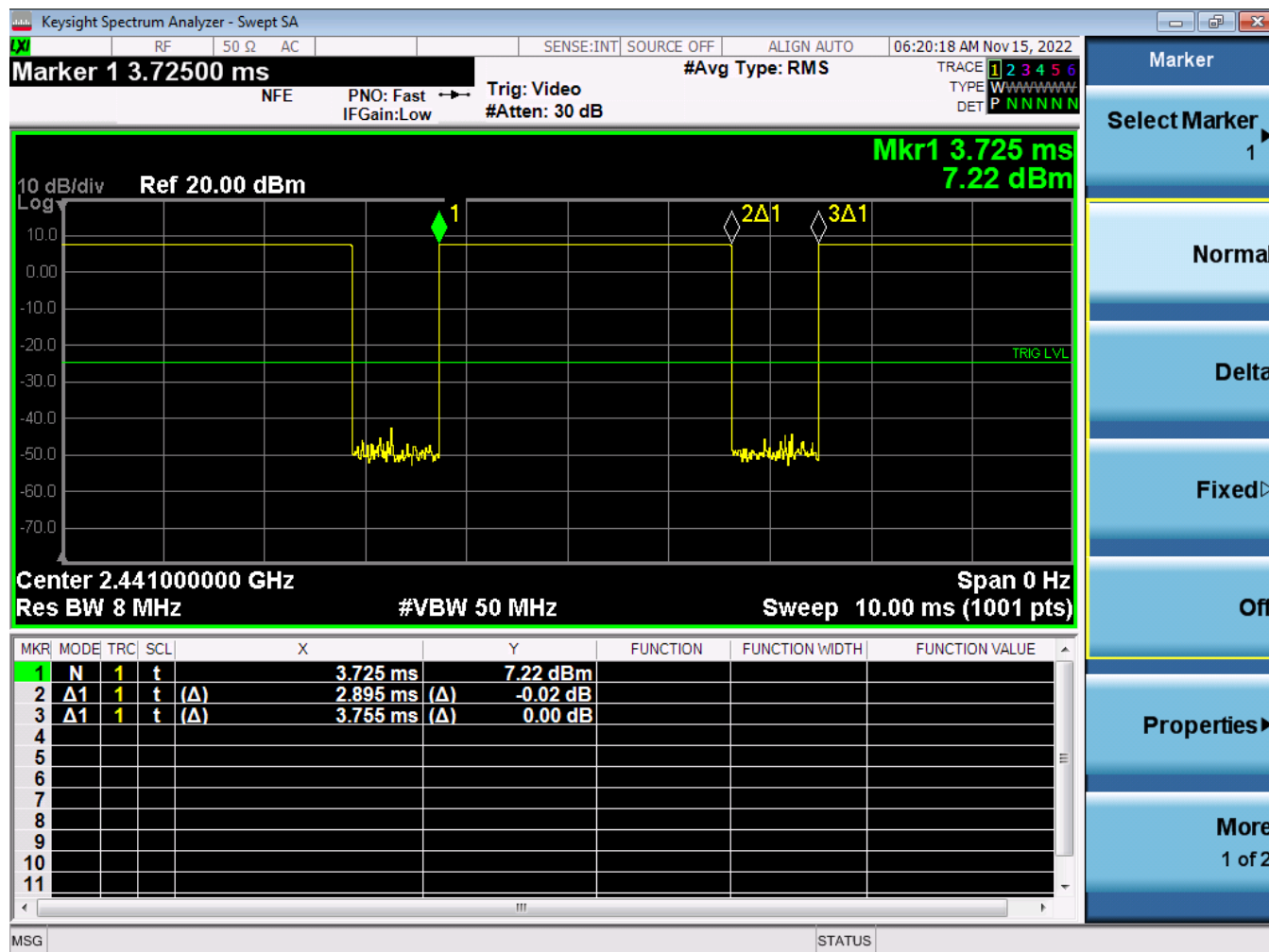


Figure 9-7
Bluetooth Antenna 1 Transmission Plot

Equation 9-1
Bluetooth Antenna 1 Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.895\text{ms}}{3.755\text{ms}} * 100\% = 77.09\%$$

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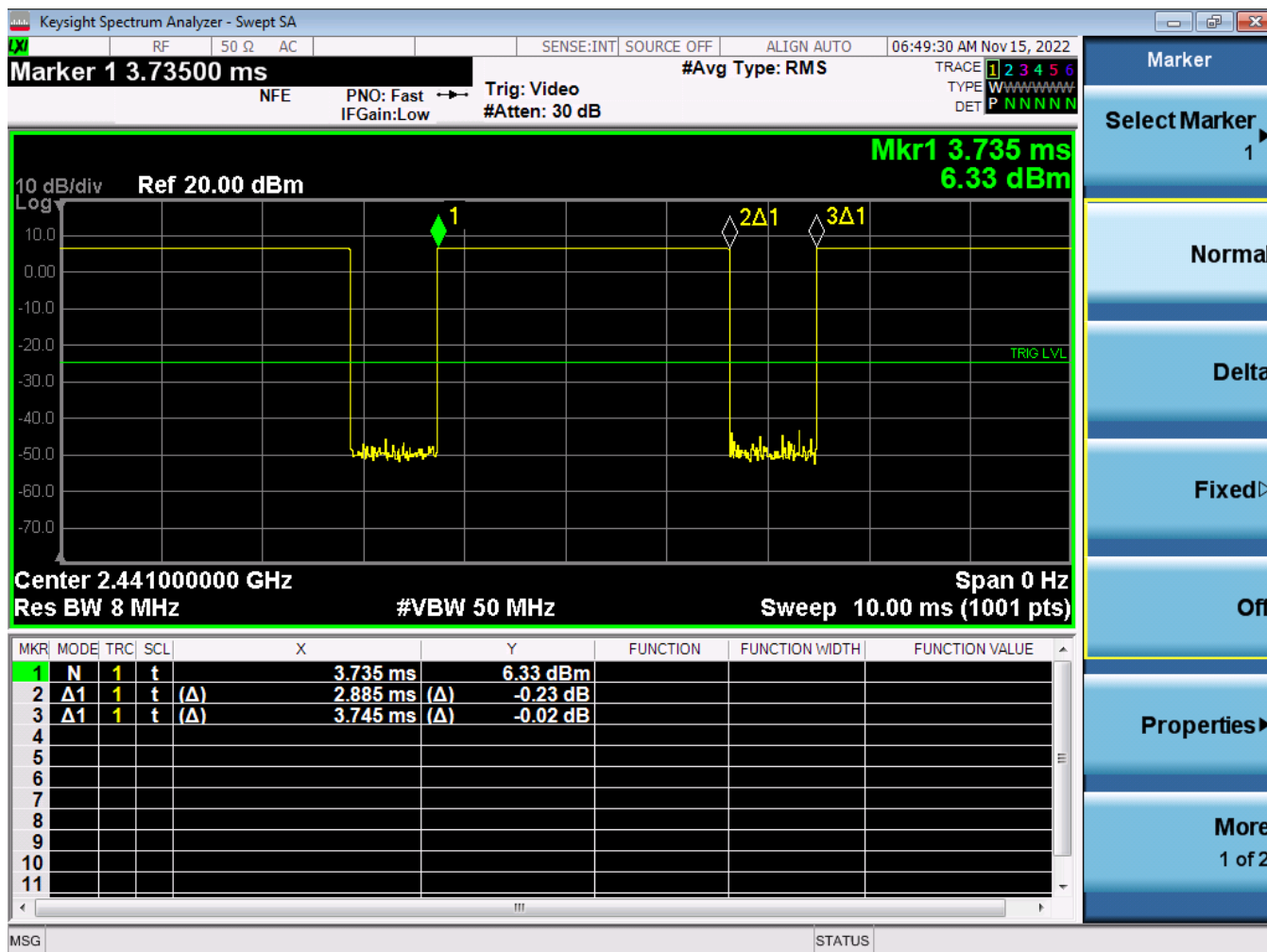


Figure 9-8
Bluetooth Antenna 2 Transmission Plot

Equation 9-2
Bluetooth Antenna 2 Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.885\text{ms}}{3.745\text{ms}} * 100\% = 77.03\%$$

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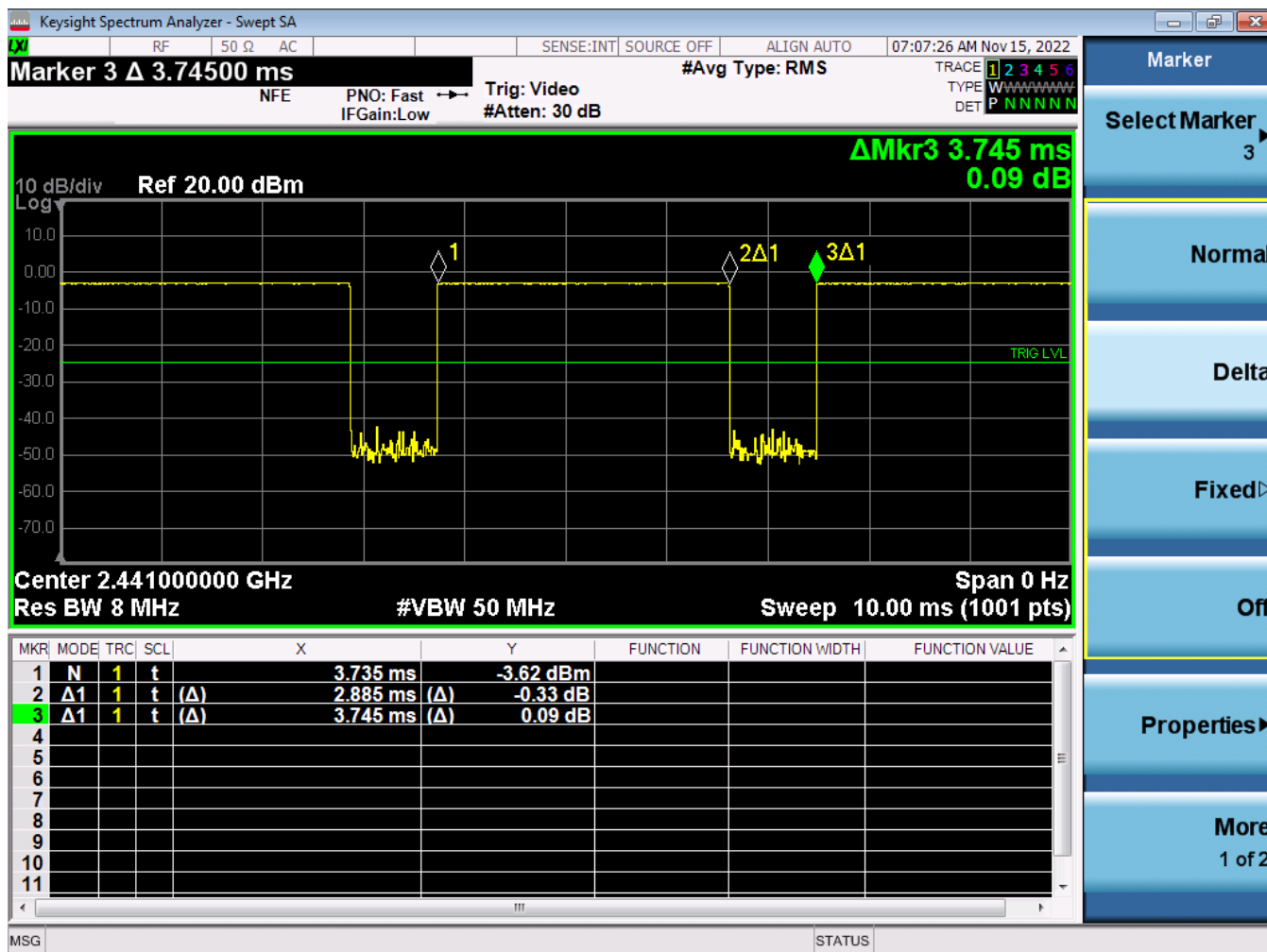


Figure 9-9
Bluetooth MIMO Transmission Plot

Equation 9-3
Bluetooth MIMO Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.885\text{ms}}{3.745\text{ms}} * 100\% = 77.03\%$$

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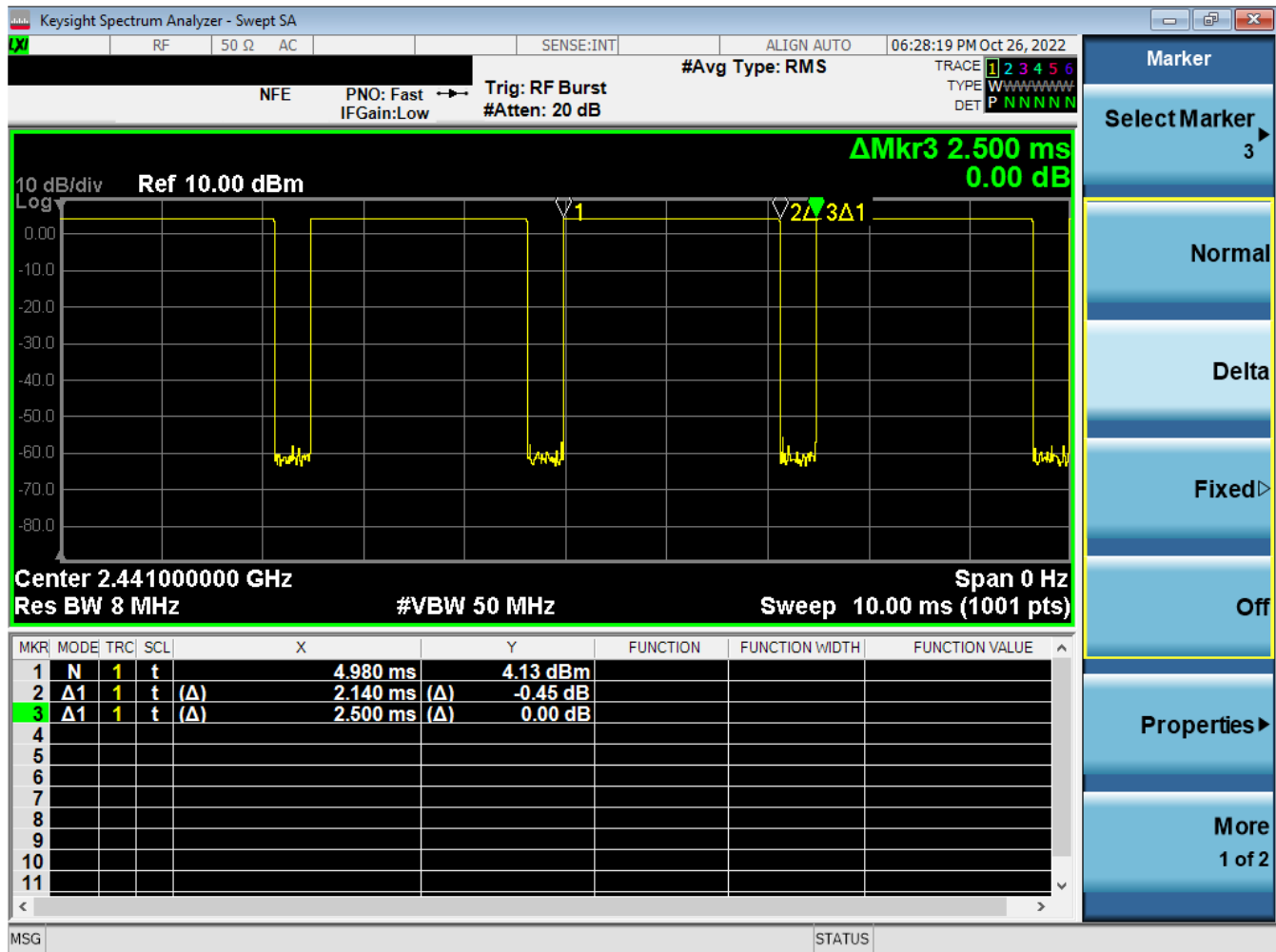


Figure 9-10
Bluetooth LE Antenna 1 Transmission Plot

Equation 9-4
Bluetooth LE Antenna 1 Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.140ms}{2.500ms} * 100\% = 85.60\%$$

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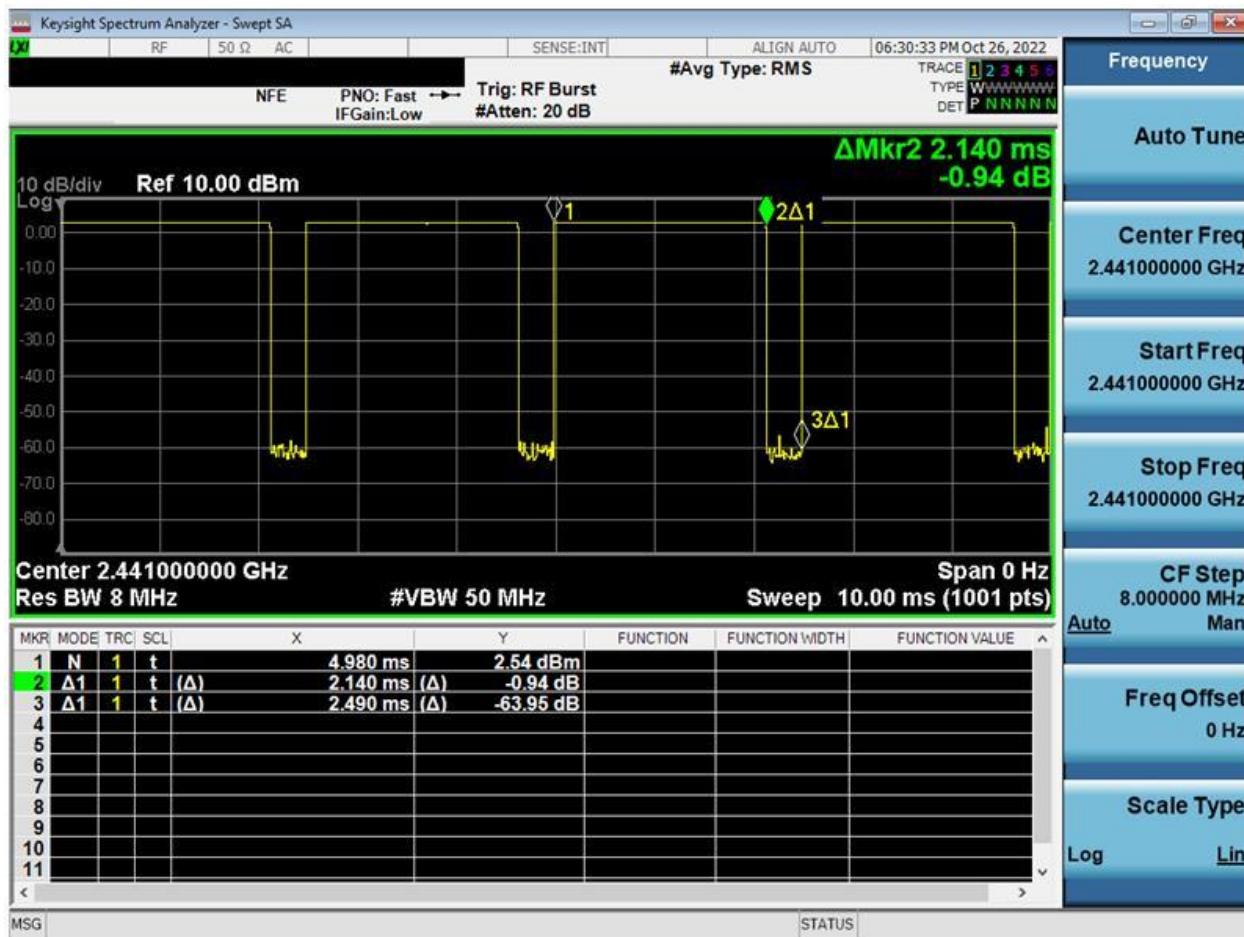


Figure 9-11
Bluetooth LE Antenna 2 Transmission Plot

Equation 9-5
Bluetooth LE Antenna 2 Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.140\text{ms}}{2.490\text{ms}} * 100\% = 85.94\%$$

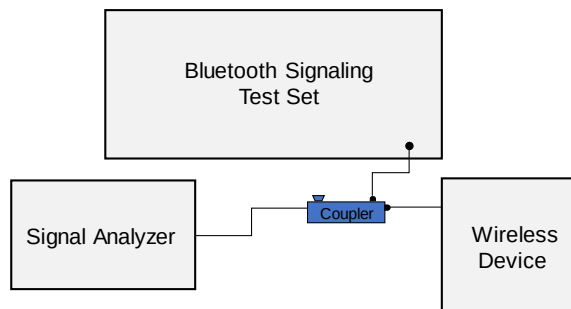


Figure 9-12
Power Measurement Setup

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10 SYSTEM VERIFICATION

10.1 Tissue Verification

Table 10-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/10/2022	30 Head	22.9	12	0.745	52.864	0.750	55.000	-0.67%	-3.67%
			13	0.745	53.011	0.750	55.000	-0.67%	-3.62%
			14	0.745	53.054	0.750	55.000	-0.67%	-3.54%
			680	0.853	42.065	0.888	42.305	-3.94%	-0.56%
09/12/2022	750 Head	22.0	695	0.862	42.069	0.889	42.227	-3.04%	-0.37%
			700	0.864	42.068	0.889	42.201	-2.81%	-0.32%
			710	0.868	42.060	0.890	42.149	-2.47%	-0.21%
			725	0.871	42.019	0.891	42.071	-2.24%	-0.12%
			750	0.872	41.906	0.894	41.942	-2.46%	-0.09%
			770	0.876	41.809	0.895	41.838	-2.12%	-0.07%
			785	0.882	41.749	0.896	41.760	-1.56%	-0.03%
			800	0.892	41.715	0.897	41.682	-0.56%	0.08%
			680	0.854	40.439	0.888	42.305	-3.83%	-4.41%
			695	0.859	40.408	0.889	42.227	-3.37%	-4.31%
09/14/2022	750 Head	21.9	700	0.860	40.398	0.889	42.201	-3.26%	-4.27%
			710	0.863	40.370	0.890	42.149	-3.03%	-4.22%
			725	0.868	40.319	0.891	42.071	-2.58%	-4.16%
			750	0.876	40.219	0.894	41.942	-2.01%	-4.11%
			770	0.882	40.152	0.895	41.838	-1.45%	-4.03%
			785	0.887	40.106	0.896	41.760	-1.00%	-3.96%
			800	0.892	40.072	0.897	41.682	-0.56%	-3.86%
			680	0.896	40.898	0.888	42.305	0.80%	-3.33%
			695	0.901	40.862	0.889	42.227	1.35%	-3.23%
			700	0.902	40.851	0.889	42.201	1.46%	-3.20%
09/26/2022	750 Head	22.3	710	0.905	40.827	0.890	42.149	1.69%	-3.14%
			725	0.911	40.786	0.891	42.071	2.24%	-3.05%
			750	0.919	40.731	0.894	41.942	2.80%	-2.89%
			770	0.926	40.684	0.895	41.838	3.46%	-2.76%
			785	0.931	40.641	0.896	41.760	3.91%	-2.68%
			800	0.936	40.592	0.897	41.682	4.35%	-2.62%
			680	0.894	40.378	0.888	42.305	0.68%	-4.56%
			695	0.895	40.340	0.889	42.227	1.12%	-4.47%
			700	0.901	40.325	0.889	42.201	1.35%	-4.45%
			710	0.904	40.297	0.890	42.149	1.57%	-4.39%
09/28/2022	750 Head	21.9	725	0.908	40.252	0.891	42.071	1.91%	-4.32%
			750	0.916	40.185	0.894	41.942	2.46%	-4.19%
			770	0.923	40.142	0.895	41.838	3.13%	-4.05%
			785	0.928	40.108	0.896	41.760	3.57%	-3.96%
			800	0.934	40.065	0.897	41.682	4.12%	-3.88%
			815	0.888	40.964	0.898	41.594	-1.11%	-1.51%
			820	0.890	40.948	0.899	41.578	-1.00%	-1.52%
			835	0.895	40.902	0.900	41.500	-0.56%	-1.44%
			850	0.901	40.854	0.916	41.500	-1.64%	-1.53%
			815	0.908	41.475	0.898	41.594	1.11%	-0.28%
09/21/2022	835 Head	21.1	820	0.910	41.460	0.899	41.578	1.22%	-0.28%
			835	0.916	41.414	0.900	41.500	1.78%	-0.21%
			850	0.921	41.379	0.916	41.500	0.55%	-0.29%
			815	0.915	40.456	0.898	41.594	1.89%	-2.74%
09/23/2022	835 Head	20.2	820	0.916	40.439	0.899	41.578	1.89%	-2.74%
			835	0.922	40.394	0.900	41.500	2.44%	-2.67%
			850	0.927	40.362	0.916	41.500	1.20%	-2.74%
			815	0.927	43.564	0.898	41.594	3.23%	4.74%
09/26/2022	835 Head	21.0	820	0.929	43.549	0.899	41.578	3.34%	4.74%
			835	0.935	43.502	0.900	41.500	3.89%	4.82%
			850	0.941	43.463	0.916	41.500	2.73%	4.73%
			1710	1.348	39.459	1.348	40.142	0.00%	-1.70%
09/14/2022	1750 Head	23.0	1720	1.359	39.410	1.354	40.126	0.37%	-1.78%
			1745	1.384	39.294	1.368	40.087	1.17%	-1.98%
			1750	1.389	39.271	1.371	40.079	1.31%	-2.02%
			1770	1.409	39.182	1.383	40.047	1.88%	-2.16%
10/24/2022	1750 Head	21.6	1790	1.428	39.094	1.394	40.016	2.44%	-2.30%
			1710	1.347	40.689	1.348	40.142	-0.07%	1.36%
			1720	1.357	40.645	1.354	40.126	0.22%	1.29%
			1745	1.385	40.548	1.368	40.087	1.24%	1.15%
11/02/2022	1750 Head	21.0	1750	1.390	40.527	1.371	40.079	1.39%	1.12%
			1770	1.411	40.445	1.383	40.047	2.02%	0.99%
			1790	1.431	40.356	1.394	40.016	2.65%	0.85%
			1710	1.316	38.602	1.348	40.142	-2.37%	-3.84%
09/19/2022	1900 Head	21.1	1720	1.322	38.585	1.354	40.126	-2.36%	-3.84%
			1745	1.336	38.550	1.368	40.087	-2.34%	-3.83%
			1750	1.339	38.544	1.371	40.079	-2.33%	-3.83%
			1770	1.360	38.527	1.383	40.047	-2.39%	-3.80%
11/04/2022	1900 Head	21.0	1790	1.361	38.508	1.394	40.016	-2.37%	-3.77%
			1850	1.370	40.295	1.400	40.000	-2.14%	0.74%
			1860	1.382	40.259	1.400	40.000	-1.29%	0.65%
			1880	1.405	40.188	1.400	40.000	0.36%	0.47%
11/04/2022	1900 Head	20.3	1900	1.425	40.113	1.400	40.000	1.79%	0.28%
			1905	1.430	40.091	1.400	40.000	2.14%	0.23%
			1910	1.435	40.070	1.400	40.000	2.50%	0.18%
			1850	1.399	38.721	1.400	40.000	-0.07%	-3.20%
11/04/2022	1900 Head	20.3	1860	1.406	38.711	1.400	40.000	0.43%	-3.22%
			1880	1.419	38.692	1.400	40.000	1.29%	-3.27%
			1900	1.429	38.668	1.400	40.000	2.00%	-3.33%
			1905	1.431	38.660	1.400	40.000	2.21%	-3.35%
			1910	1.434	38.654	1.400	40.000	2.43%	-3.36%
			1920	1.439	38.637	1.400	40.000	2.79%	-3.41%
			1950	1.457	38.589	1.400	40.000	4.07%	-3.53%
			1850	1.372	38.835	1.400	40.000	-2.00%	-2.91%
			1860	1.378	38.813	1.400	40.000	-1.57%	-2.97%
			1880	1.391	38.778	1.400	40.000	-0.64%	-3.06%
11/04/2022	1900 Head	20.3	1900	1.403	38.762	1.400	40.000	0.21%	-3.10%
			1905	1.408	38.753	1.400	40.000	0.43%	-3.12%
			1910	1.409	38.745	1.400	40.000	0.64%	-3.13%
			1920	1.415	38.736	1.400	40.000	1.07%	-3.16%
			1950	1.433	38.684	1.400	40.000	2.36%	-3.29%
			1980	1.453	38.628	1.400	40.000	3.79%	-3.43%

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Table 10-2
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
10/20/2022	2450 Head	19.0	2300	1.704	38.644	1.670	39.500	2.04%	-2.17%
			2310	1.712	38.631	1.679	39.480	1.97%	-2.15%
			2320	1.720	38.615	1.687	39.460	1.90%	-2.14%
			2400	1.784	38.488	1.758	39.289	1.89%	-2.04%
			2450	1.822	38.392	1.800	39.200	1.28%	-2.06%
			2480	1.847	38.341	1.833	39.162	0.76%	-2.10%
			2500	1.862	38.304	1.855	39.136	0.88%	-2.13%
			2510	1.870	38.287	1.866	39.123	0.21%	-2.14%
			2535	1.890	38.248	1.893	39.092	-0.16%	-2.17%
			2550	1.902	38.222	1.909	39.073	-0.37%	-2.18%
			2560	1.910	38.206	1.920	39.060	-0.52%	-2.19%
			2600	1.942	38.137	1.964	39.009	-1.12%	-2.24%
			2650	1.983	38.047	2.018	38.945	-1.73%	-2.31%
			2680	2.007	38.008	2.051	38.907	-2.15%	-2.31%
			2700	2.023	37.968	2.073	38.882	-2.41%	-2.35%
10/26/2022	2450 Head	20.7	2300	1.685	38.531	1.670	39.500	0.90%	-0.43%
			2310	1.692	38.522	1.679	39.480	0.77%	-0.40%
			2320	1.699	38.515	1.687	39.460	0.71%	-0.43%
			2400	1.755	38.204	1.758	39.289	-0.06%	-0.22%
			2450	1.795	38.146	1.800	39.200	-0.28%	-0.24%
			2480	1.816	38.107	1.833	39.162	-0.93%	-0.14%
			2500	1.831	38.070	1.855	39.136	-1.29%	-0.17%
			2510	1.840	38.053	1.866	39.123	-1.39%	-0.18%
			2535	1.862	38.010	1.893	39.082	-1.64%	-0.21%
			2550	1.875	38.992	1.909	39.073	-1.78%	-0.21%
			2560	1.884	38.978	1.920	39.060	-1.88%	-0.21%
			2600	1.912	38.927	1.964	39.009	-2.65%	-0.21%
			2650	1.954	38.812	2.018	38.945	-3.17%	-0.34%
			2680	1.980	38.773	2.051	38.907	-3.46%	-0.34%
			2700	1.994	38.763	2.073	38.882	-3.81%	-0.31%
10/30/2022	2450 Head	22.1	2300	1.704	38.775	1.670	39.500	2.04%	-1.84%
			2310	1.718	38.740	1.679	39.480	2.20%	-1.87%
			2320	1.729	38.700	1.687	39.460	2.42%	-1.93%
			2400	1.814	38.423	1.758	39.289	3.30%	-2.20%
			2450	1.868	38.214	1.800	39.200	3.78%	-2.52%
			2480	1.902	38.120	1.833	39.162	3.78%	-2.66%
			2500	1.926	38.046	1.855	39.136	3.63%	-2.73%
			2510	1.937	38.004	1.866	39.123	3.30%	-2.85%
			2535	1.962	37.953	1.893	39.092	3.65%	-3.04%
			2550	1.977	37.892	1.909	39.073	3.66%	-3.12%
			2560	1.989	37.823	1.920	39.060	3.69%	-3.17%
			2600	2.038	37.681	1.964	39.009	3.77%	-3.40%
			2650	2.087	37.480	2.018	38.945	3.42%	-3.70%
			2680	2.127	37.372	2.051	38.907	3.71%	-3.95%
			2700	2.147	37.287	2.073	38.882	3.57%	-4.06%
11/01/2022	2450 Head	22.3	2300	1.718	38.023	1.670	39.500	2.87%	-1.21%
			2310	1.725	38.004	1.679	39.480	2.88%	-1.27%
			2320	1.729	38.980	1.687	39.460	2.88%	-1.27%
			2400	1.821	38.555	1.758	39.289	3.70%	-1.87%
			2450	1.874	38.343	1.800	39.200	4.11%	-2.19%
			2480	1.905	38.225	1.833	39.162	3.63%	-2.39%
			2500	1.927	38.138	1.855	39.136	3.88%	-2.58%
			2510	1.938	38.092	1.866	39.123	3.86%	-2.64%
			2535	1.966	37.992	1.893	39.082	3.86%	-2.81%
			2550	1.982	37.943	1.909	39.073	3.82%	-2.89%
			2560	1.993	37.910	1.920	39.060	3.80%	-2.94%
			2600	2.035	37.748	1.964	39.009	3.62%	-3.24%
			2650	2.090	37.538	2.018	38.945	3.57%	-3.61%
			2680	2.121	37.434	2.051	38.907	3.41%	-3.79%
			2700	2.143	37.355	2.073	38.882	3.38%	-3.93%
11/03/2022	2450 Head	20.5	2300	1.737	40.621	1.670	39.500	4.02%	2.88%
			2310	1.745	40.615	1.679	39.480	3.92%	2.88%
			2320	1.753	40.604	1.687	39.460	3.91%	2.90%
			2400	1.815	40.486	1.758	39.289	3.36%	3.05%
			2450	1.852	40.396	1.800	39.200	2.89%	3.05%
			2480	1.876	40.354	1.833	39.162	2.36%	3.04%
			2500	1.892	40.326	1.855	39.136	1.99%	3.04%
			2510	1.901	40.314	1.866	39.123	1.88%	3.04%
			2535	1.923	40.278	1.893	39.082	1.68%	3.03%
			2550	1.936	40.247	1.909	39.073	1.41%	3.03%
			2560	1.944	40.228	1.920	39.060	1.25%	2.99%
			2600	1.976	40.156	1.964	39.009	0.61%	2.97%
			2650	2.019	40.066	2.018	38.945	0.05%	2.88%
			2680	2.045	40.013	2.051	38.907	-0.29%	2.86%
			2700	2.061	39.993	2.073	38.882	-0.58%	2.86%
11/04/2022	2450 Head	22.5	2300	1.666	39.075	1.670	39.500	-0.12%	-1.09%
			2310	1.675	39.070	1.679	39.480	-0.24%	-1.04%
			2320	1.682	39.066	1.687	39.460	-0.30%	-1.00%
			2400	1.742	38.952	1.758	39.289	-0.80%	-0.86%
			2450	1.762	38.882	1.800	39.200	-1.00%	-0.79%
			2480	1.802	38.807	1.833	39.162	-1.09%	-0.83%
			2500	1.817	38.803	1.855	39.136	-2.05%	-0.85%
			2510	1.826	38.785	1.866	39.123	-2.14%	-0.86%
			2535	1.840	38.745	1.893	39.082	-2.38%	-0.89%
			2550	1.861	38.725	1.909	39.073	-2.51%	-0.89%
			2560	1.865	38.709	1.920	39.060	-2.66%	-0.90%
			2600	1.898	38.640	1.964	39.009	-3.36%	-0.95%
			2650	1.936	38.544	2.018	38.945	-3.91%	-1.03%
			2680	1.964	38.499	2.051	38.907	-4.24%	-1.05%
			2700	1.978	38.476	2.073	38.882	-4.58%	-1.04%
11/09/2022	2450 Head	19.8	2300	1.659	38.120	1.670	39.500	-0.68%	-3.47%
			2310	1.667	38.120	1.679	39.480	-0.71%	-3.44%
			2320	1.674	38.108	1.687	39.460	-0.77%	-3.42%
			2400	1.732	37.951	1.758	39.289	-1.37%	-3.41%
			2450	1.770	37.878	1.800	39.200	-1.67%	-3.37%
			2480	1.792	37.810	1.833	39.162	-2.24%	-3.45%
			2500	1.807	37.776	1.855	39.136	-2.59%	-3.48%
			2510	1.815	37.762	1.866	39.123	-2.73%	-3.48%
			2535	1.836	37.723	1.893	39.082	-3.01%	-3.48%
			2550	1.848	37.711	1.909	39.073	-3.20%	-3.45%
			2560	1.856	37.691	1.920	39.060	-3.33%	-3.50%
			2600	1.887	37.613	1.964	39.009	-3.92%	-3.58%
			2650	1.929	37.533	2.018	38.945	-4.41%	-3.63%
			2680	1.954	37.483	2.051	38.907	-4.73%	-3.66%
			2700	1.970	37.459	2.073	38.882	-4.97%	-3.68%
11/11/2022	2450 Head	21.5	2300	1.687	38.531	1.670	39.500	1.02%	-2.45%
			2310	1.695	38.518	1.679	39.480	0.95%	-2.44%
			2320	1.703	38.505	1.687	39.460	0.86%	-2.42%
			2400	1.764	38.314	1.758	39.289	0.46%	-2.33%
			2450	1.805	38.296	1.800	39.200	0.28%	-2.31%
			2480	1.828	38.242	1.833	39.162	-0.27%	-2.35%
			2500	1.843	38.206	1.855	39.136	-0.65%	-2.38%
			2510	1.851	38.191	1.866	39.123	-0.80%	-2.38%
			2535	1.872	38.144	1.893	39.082	-1.11%	-2.42%
			2550	1.885	38.121	1.909	39.073	-1.26%	-2.44%
			2560	1.894	38.101	1.920	39.060	-1.35%	-2.46%
			2600	1.926	38.034	1.964	39.009	-1.83%	-2.52%
			2650	1.967	37.938	2.018	38.945	-2.53%	-2.61%
			2680	1.991	37.874	2.051	38.907	-2.93%	-2.66%
			2700	2.009	37.858	2.073	38.882	-3.09%	-2.64%

Table 10-3
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/07/2022	2450 Head	21.0	2300	1.659	39.205	1.670	39.500	-0.66%	-0.75%
			2310	1.667	39.193	1.679	39.480	-0.71%	-0.73%
			2320	1.674	39.183	1.687	39.460	-0.77%	-0.70%
			2400	1.735	39.084	1.756	39.289	-1.20%	-0.52%
			2450	1.775	38.996	1.800	39.200	-1.39%	-0.52%
			2480	1.798	38.953	1.833	39.162	-1.91%	-0.53%
			2500	1.813	38.923	1.855	39.136	-2.26%	-0.54%
			2510	1.821	38.906	1.866	39.123	-2.41%	-0.55%
			2535	1.841	38.858	1.893	39.092	-2.75%	-0.60%
			2550	1.854	38.829	1.909	39.073	-2.88%	-0.62%
			2560	1.863	38.807	1.920	39.060	-2.97%	-0.65%
			2600	1.894	38.746	1.964	39.009	-3.56%	-0.67%
			2650	1.933	38.645	2.018	38.945	-4.21%	-0.77%
			2680	1.959	38.592	2.051	38.907	-4.49%	-0.81%
			2700	1.973	38.576	2.073	38.882	-4.82%	-0.79%
10/11/2022	3600 Head	18.3	3300	2.599	38.623	2.708	38.157	-4.03%	1.22%
			3350	2.647	38.560	2.759	38.100	-4.06%	1.21%
			3450	2.741	38.399	2.861	37.986	-4.19%	1.09%
			3500	2.789	38.310	2.913	37.929	-4.26%	1.00%
			3550	2.840	38.221	2.964	37.871	-4.18%	0.92%
			3560	2.845	38.217	2.974	37.860	-4.34%	0.94%
			3600	2.887	38.154	3.015	37.814	-4.25%	0.90%
			3650	2.933	38.088	3.066	37.757	-4.34%	0.88%
			3690	2.973	38.003	3.107	37.711	-4.31%	0.77%
			3700	2.983	37.996	3.117	37.700	-4.30%	0.79%
			3750	3.033	37.937	3.169	37.643	-4.29%	0.78%
			3900	3.186	37.694	3.323	37.471	-4.12%	0.60%
			3930	3.220	37.639	3.353	37.437	-3.97%	0.54%
			4100	3.400	37.393	3.528	37.243	-3.63%	0.40%
			4150	3.453	37.326	3.579	37.186	-3.52%	0.38%
10/17/2022	3600 Head	20.4	3300	2.639	38.926	2.708	38.157	-2.55%	2.02%
			3350	2.687	38.843	2.759	38.100	-2.61%	1.95%
			3450	2.779	38.651	2.861	37.986	-2.87%	1.75%
			3500	2.825	38.561	2.913	37.929	-3.02%	1.67%
			3550	2.875	38.450	2.964	37.871	-3.00%	1.53%
			3560	2.884	38.444	2.974	37.860	-3.03%	1.54%
			3600	2.919	38.367	3.015	37.814	-3.18%	1.46%
			3650	2.971	38.278	3.066	37.757	-3.10%	1.38%
			3690	3.014	38.211	3.107	37.711	-2.99%	1.33%
			3700	3.022	38.191	3.117	37.700	-3.05%	1.30%
			3750	3.067	38.098	3.169	37.643	-3.22%	1.21%
			3900	3.227	37.847	3.323	37.471	-2.89%	1.00%
			3930	3.255	37.786	3.353	37.437	-2.92%	0.93%
			4100	3.435	37.499	3.528	37.243	-2.64%	0.69%
			4150	3.492	37.398	3.579	37.186	-2.43%	0.57%
10/17/2022	3600 Head	19.3	3300	2.603	38.781	2.708	38.157	-3.88%	1.64%
			3350	2.651	38.695	2.759	38.100	-3.91%	1.56%
			3450	2.744	38.524	2.861	37.986	-4.09%	1.42%
			3500	2.789	38.434	2.913	37.929	-4.26%	1.33%
			3550	2.837	38.361	2.964	37.871	-4.28%	1.29%
			3560	2.846	38.345	2.974	37.860	-4.30%	1.28%
			3600	2.884	38.267	3.015	37.814	-4.34%	1.20%
			3650	2.931	38.188	3.066	37.757	-4.40%	1.14%
			3690	2.970	38.102	3.107	37.711	-4.41%	1.04%
			3700	2.980	38.089	3.117	37.700	-4.40%	1.03%
			3750	3.028	38.018	3.169	37.643	-4.45%	1.00%
			3900	3.180	37.767	3.323	37.471	-4.30%	0.79%
			3930	3.212	37.723	3.353	37.437	-4.21%	0.76%
			4100	3.392	37.453	3.528	37.243	-3.85%	0.56%
			4150	3.447	37.360	3.579	37.186	-3.69%	0.47%

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Table 10-4
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
10/20/2022	3600 Head	21.4	3300	2.715	38.261	2.708	38.157	0.41%	0.32%
			3350	2.760	38.242	2.759	38.100	0.04%	0.37%
			3450	2.838	38.128	2.861	37.996	-0.80%	0.37%
			3500	2.878	38.066	2.913	37.929	-1.20%	0.36%
			3550	2.919	38.016	2.964	37.871	-1.52%	0.38%
			3560	2.925	38.016	2.974	37.860	-1.65%	0.41%
			3600	2.951	37.961	3.015	37.814	-1.92%	0.39%
			3650	2.987	37.936	3.065	37.757	-2.25%	0.47%
			3690	3.028	37.883	3.107	37.711	-2.54%	0.46%
			3700	3.038	37.874	3.117	37.700	-2.53%	0.46%
			3750	3.083	37.849	3.169	37.643	-2.71%	0.55%
			3900	3.203	37.703	3.323	37.471	-3.61%	0.62%
			3920	3.234	37.687	3.353	37.437	-3.55%	0.61%
			4100	3.385	37.517	3.528	37.243	-4.02%	0.74%
			4150	3.429	37.495	3.579	37.186	-4.19%	0.63%
			5180	4.449	34.913	4.635	36.009	-4.01%	-3.04%
			5190	4.459	34.903	4.645	35.998	-4.00%	-3.04%
			5200	4.469	34.891	4.655	35.986	-4.00%	-3.04%
			5210	4.480	34.873	4.665	35.975	-3.99%	-3.06%
10/31/2022	5200-5800 Head	18.8	5220	4.489	34.859	4.676	35.963	-4.00%	-3.05%
			5240	4.511	34.810	4.695	35.940	-3.94%	-3.14%
			5250	4.525	34.789	4.706	35.929	-3.85%	-3.17%
			5260	4.539	34.763	4.717	35.917	-3.77%	-3.21%
			5270	4.553	34.739	4.727	35.906	-3.68%	-3.25%
			5280	4.564	34.725	4.737	35.894	-3.65%	-3.26%
			5290	4.575	34.713	4.748	35.883	-3.64%	-3.26%
			5300	4.584	34.702	4.759	35.871	-3.66%	-3.26%
			5310	4.592	34.685	4.768	35.860	-3.69%	-3.28%
			5320	4.600	34.662	4.778	35.849	-3.73%	-3.31%
			5500	4.800	34.333	4.963	35.643	-3.28%	-3.68%
			5510	4.808	34.318	4.973	35.632	-3.32%	-3.69%
			5520	4.817	34.300	4.983	35.620	-3.35%	-3.72%
			5530	4.826	34.289	4.994	35.609	-3.32%	-3.73%
			5540	4.835	34.253	5.004	35.597	-3.30%	-3.78%
			5550	4.850	34.226	5.014	35.586	-3.27%	-3.82%
			5560	4.862	34.205	5.024	35.574	-3.22%	-3.85%
			5580	4.889	34.168	5.045	35.551	-3.09%	-3.89%
			5600	4.916	34.140	5.065	35.529	-2.94%	-3.91%
			5610	4.928	34.124	5.076	35.518	-2.92%	-3.92%
			5620	4.938	34.107	5.086	35.506	-2.91%	-3.94%
			5640	4.959	34.066	5.106	35.483	-2.68%	-3.99%
			5660	4.981	34.023	5.127	35.460	-2.85%	-4.05%
			5670	4.995	33.999	5.137	35.449	-2.76%	-4.09%
			5680	5.009	33.977	5.147	35.437	-2.68%	-4.12%
			5690	5.024	33.959	5.158	35.426	-2.60%	-4.14%
			5700	5.039	33.947	5.168	35.414	-2.52%	-4.14%
			5710	5.051	33.934	5.178	35.403	-2.45%	-4.15%
			5720	5.062	33.917	5.188	35.391	-2.43%	-4.16%
			5745	5.087	33.870	5.214	35.363	-2.44%	-4.22%
			5750	5.093	33.861	5.219	35.357	-2.41%	-4.23%
			5755	5.098	33.849	5.224	35.351	-2.41%	-4.25%
			5765	5.110	33.829	5.234	35.340	-2.37%	-4.28%
			5775	5.124	33.805	5.245	35.329	-2.31%	-4.31%
			5785	5.136	33.790	5.255	35.317	-2.26%	-4.32%
			5795	5.147	33.769	5.265	35.305	-2.24%	-4.35%
			5805	5.158	33.750	5.275	35.294	-2.22%	-4.37%
			5825	5.185	33.707	5.296	35.271	-2.10%	-4.43%
			5835	5.197	33.694	5.305	35.260	-2.04%	-4.46%
			5845	5.207	33.682	5.315	35.210	-2.03%	-4.34%
			5855	5.218	33.671	5.325	35.197	-2.01%	-4.34%
			5875	5.239	33.642	5.347	35.183	-2.02%	-4.38%
			5885	5.247	33.617	5.357	35.177	-2.05%	-4.43%
			5905	5.266	33.569	5.379	35.163	-2.10%	-4.53%
			5180	4.592	35.690	4.635	36.009	-0.93%	-0.89%
			5190	4.599	35.668	4.645	35.998	-0.99%	-0.92%
			5200	4.607	35.646	4.655	35.986	-1.03%	-0.94%
			5210	4.617	35.633	4.666	35.975	-1.05%	-0.95%
			5220	4.628	35.608	4.676	35.963	-1.03%	-0.99%
			5240	4.660	35.547	4.696	35.940	-0.77%	-1.09%
			5250	4.671	35.542	4.706	35.929	-0.74%	-1.08%
			5260	4.683	35.534	4.717	35.917	-0.72%	-1.07%
			5270	4.697	35.518	4.727	35.906	-0.63%	-1.08%
			5280	4.709	35.488	4.737	35.894	-0.59%	-1.13%
			5290	4.718	35.466	4.748	35.883	-0.63%	-1.16%
			5300	4.722	35.455	4.758	35.871	-0.76%	-1.16%
			5310	4.729	35.444	4.768	35.860	-0.82%	-1.16%
			5320	4.740	35.423	4.778	35.849	-0.80%	-1.19%
			5500	4.947	35.123	4.963	35.643	-0.32%	-1.46%
			5510	4.955	35.090	4.973	35.632	-0.36%	-1.52%
			5520	4.964	35.062	4.983	35.620	-0.38%	-1.57%
			5530	4.972	35.033	4.994	35.609	-0.44%	-1.62%
			5540	4.984	35.011	5.004	35.597	-0.40%	-1.65%
			5550	5.003	34.989	5.014	35.586	-0.22%	-1.68%
			5560	5.020	34.965	5.024	35.574	-0.08%	-1.72%
			5580	5.049	34.943	5.045	35.551	0.06%	-1.72%
			5600	5.075	34.928	5.065	35.529	0.20%	-1.69%
10/31/2022	5200-5800 Head	21.4	5610	5.081	34.905	5.076	35.518	0.10%	-1.73%
			5620	5.090	34.893	5.086	35.506	0.08%	-1.73%
			5640	5.106	34.861	5.106	35.483	0.00%	-1.75%
			5660	5.130	34.776	5.127	35.460	0.06%	-1.93%
			5670	5.140	34.763	5.137	35.449	0.23%	-1.94%
			5680	5.165	34.747	5.147	35.437	0.35%	-1.95%
			5690	5.179	34.736	5.158	35.426	0.41%	-1.95%
			5700	5.190	34.733	5.168	35.414	0.43%	-1.92%
			5710	5.201	34.721	5.178	35.403	0.44%	-1.93%
			5720	5.210	34.713	5.188	35.391	0.42%	-1.92%
			5745	5.225	34.654	5.214	35.383	0.23%	-2.00%
			5750	5.231	34.640	5.219	35.357	0.23%	-2.03%
			5755	5.237	34.615	5.224	35.351	0.25%	-2.08%
			5765	5.251	34.582	5.234	35.340	0.32%	-2.14%
			5775	5.264	34.567	5.245	35.329	0.36%	-2.16%
			5785	5.279	34.545	5.255	35.317	0.46%	-2.19%
			5795	5.299	34.533	5.265	35.305	0.65%	-2.19%
			5805	5.315	34.530	5.275	35.294	0.76%	-2.16%
			5825	5.334	34.530	5.296	35.271	0.72%	-2.10%
			5835	5.341	34.524	5.305	35.230	0.68%	-2.00%
			5845	5.351	34.503	5.315	35.210	0.68%	-2.01%
			5855	5.357	34.488	5.325	35.197	0.60%	-2.01%
			5875	5.378	34.418	5.347	35.183	0.58%	-2.17%
			5885	5.391	34.384	5.367	35.177	0.63%	-2.25%
			5905	5.424	34.350	5.379	35.163	0.84%	-2.31%

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Table 10-5
Measured Body Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
09/13/2022	750 Body	21.7	680	0.911	54.276	0.958	55.804	-4.91%	-2.74%
			695	0.916	54.239	0.959	55.745	-4.48%	-2.70%
			700	0.918	54.227	0.959	55.726	-4.28%	-2.69%
			710	0.921	54.194	0.960	55.687	-4.06%	-2.68%
			725	0.925	54.144	0.961	55.629	-3.75%	-2.67%
			750	0.933	54.069	0.964	55.531	-3.22%	-2.63%
			770	0.940	54.025	0.965	55.453	-2.59%	-2.58%
			785	0.947	53.992	0.966	55.395	-1.97%	-2.53%
09/21/2022	750 Body	24.7	800	0.954	53.961	0.967	55.336	-1.34%	-2.48%
			680	0.918	53.277	0.958	55.804	-4.18%	-4.53%
			695	0.922	53.237	0.959	55.745	-3.86%	-4.50%
			700	0.924	53.225	0.959	55.726	-3.65%	-4.49%
			710	0.927	53.198	0.960	55.687	-3.44%	-4.47%
			725	0.931	53.161	0.961	55.629	-3.12%	-4.44%
			750	0.939	53.100	0.964	55.531	-2.59%	-4.38%
			770	0.945	53.053	0.965	55.453	-2.07%	-4.33%
09/23/2022	750 Body	24.3	785	0.950	53.015	0.966	55.395	-1.66%	-4.30%
			800	0.955	52.979	0.967	55.336	-1.24%	-4.26%
			680	0.914	53.562	0.958	55.804	-4.59%	-4.02%
			695	0.918	53.519	0.959	55.745	-4.28%	-3.99%
			700	0.920	53.505	0.959	55.726	-4.07%	-3.99%
			710	0.922	53.476	0.960	55.687	-3.96%	-3.97%
			725	0.926	53.431	0.961	55.629	-3.64%	-3.95%
			750	0.934	53.362	0.964	55.531	-3.11%	-3.91%
09/26/2022	750 Body	24.8	770	0.940	53.309	0.965	55.453	-2.59%	-3.87%
			785	0.944	53.263	0.966	55.395	-2.28%	-3.85%
			800	0.948	53.207	0.967	55.336	-1.96%	-3.85%
			680	0.918	53.409	0.958	55.804	-4.18%	-4.29%
			695	0.923	53.366	0.959	55.745	-3.75%	-4.27%
			700	0.924	53.351	0.959	55.726	-3.65%	-4.26%
			710	0.927	53.321	0.960	55.687	-3.44%	-4.25%
			725	0.931	53.276	0.961	55.629	-3.12%	-4.23%
09/19/2022	835 Body	21.1	750	0.938	53.213	0.964	55.531	-2.70%	-4.17%
			770	0.944	53.169	0.965	55.453	-2.18%	-4.12%
			785	0.949	53.140	0.966	55.395	-1.76%	-4.07%
			800	0.953	53.102	0.967	55.336	-1.45%	-4.04%
			815	0.946	54.354	0.968	55.271	-2.27%	-1.66%
			820	0.951	54.304	0.969	55.258	-1.86%	-1.73%
			835	0.967	54.158	0.970	55.200	-0.31%	-1.89%
			850	0.982	54.011	0.988	55.154	-0.61%	-2.07%
09/21/2022	835 Body	24.1	815	0.929	53.073	0.968	55.271	-4.03%	-3.98%
			820	0.930	53.060	0.969	55.258	-4.02%	-3.98%
			835	0.935	53.020	0.970	55.200	-3.61%	-3.95%
			850	0.940	52.983	0.988	55.154	-4.86%	-3.94%
09/22/2022	835 Body	23.5	815	0.927	53.101	0.968	55.271	-4.24%	-3.93%
			820	0.929	53.088	0.969	55.258	-4.13%	-3.93%
			835	0.934	53.060	0.970	55.200	-3.71%	-3.88%
			850	0.940	53.047	0.988	55.154	-4.86%	-3.82%
09/26/2022	835 Body	21.9	815	0.924	53.187	0.968	55.271	-4.55%	-3.77%
			820	0.930	53.132	0.969	55.258	-4.02%	-3.85%
			835	0.946	52.968	0.970	55.200	-2.47%	-4.04%
			850	0.963	52.809	0.988	55.154	-2.53%	-4.25%
09/26/2022	835 Body	23.4	815	0.927	52.516	0.968	55.271	-4.24%	-4.98%
			820	0.929	52.507	0.969	55.258	-4.13%	-4.98%
			835	0.934	52.482	0.970	55.200	-3.71%	-4.92%
			850	0.939	52.455	0.988	55.154	-4.96%	-4.89%

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Table 10-6
Measured Body Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
09/14/2022	1750 Body	21.6	1710	1.458	50.986	1.463	53.537	-0.34%	-4.76%
			1720	1.470	50.948	1.469	53.511	0.07%	-4.79%
			1745	1.498	50.858	1.485	53.445	0.88%	-4.84%
			1750	1.503	50.839	1.488	53.432	1.01%	-4.85%
			1770	1.525	50.760	1.501	53.379	1.60%	-4.91%
			1790	1.547	50.679	1.514	53.326	2.18%	-4.96%
09/16/2022	1750 Body	21.9	1710	1.453	51.257	1.463	53.537	-0.68%	-4.26%
			1720	1.465	51.215	1.469	53.511	-0.27%	-4.29%
			1745	1.492	51.123	1.485	53.445	0.47%	-4.34%
			1750	1.498	51.103	1.488	53.432	0.67%	-4.36%
			1770	1.519	51.026	1.501	53.379	1.20%	-4.41%
			1790	1.540	50.950	1.514	53.326	1.72%	-4.46%
09/18/2022	1750 Body	21.7	1710	1.461	51.203	1.463	53.537	-0.14%	-4.36%
			1720	1.472	51.167	1.469	53.511	0.20%	-4.38%
			1745	1.500	51.078	1.485	53.445	1.01%	-4.43%
			1750	1.505	51.058	1.488	53.432	1.14%	-4.44%
			1770	1.526	50.973	1.501	53.379	1.67%	-4.51%
			1790	1.548	50.886	1.514	53.326	2.25%	-4.58%
09/22/2022	1750 Body	21.6	1710	1.494	51.341	1.463	53.537	2.12%	-4.10%
			1720	1.506	51.303	1.469	53.511	2.52%	-4.13%
			1745	1.534	51.206	1.485	53.445	3.30%	-4.19%
			1750	1.539	51.185	1.488	53.432	3.43%	-4.21%
			1770	1.560	51.095	1.501	53.379	3.93%	-4.28%
			1790	1.582	51.005	1.514	53.326	4.49%	-4.35%
10/03/2022	1750 Body	22.2	1710	1.455	52.148	1.463	53.537	-0.55%	-2.59%
			1720	1.466	52.110	1.469	53.511	-0.20%	-2.62%
			1745	1.494	52.013	1.485	53.445	0.61%	-2.68%
			1750	1.499	51.993	1.488	53.432	0.74%	-2.69%
			1770	1.520	51.911	1.501	53.379	1.27%	-2.75%
			1790	1.542	51.830	1.514	53.326	1.85%	-2.81%
11/10/2022	1750 Body	21.7	1710	1.490	52.189	1.463	53.537	1.85%	-2.52%
			1720	1.501	52.145	1.469	53.511	2.18%	-2.55%
			1745	1.531	52.040	1.485	53.445	3.10%	-2.63%
			1750	1.536	52.021	1.488	53.432	3.23%	-2.64%
			1770	1.558	51.950	1.501	53.379	3.80%	-2.68%
			1790	1.579	51.873	1.514	53.326	4.29%	-2.72%
09/12/2022	1900 Body	22.2	1850	1.500	51.034	1.520	53.300	-1.32%	-4.25%
			1860	1.512	50.994	1.520	53.300	-0.53%	-4.33%
			1880	1.534	50.920	1.520	53.300	0.92%	-4.47%
			1900	1.556	50.851	1.520	53.300	2.37%	-4.59%
			1905	1.562	50.835	1.520	53.300	2.76%	-4.62%
			1910	1.567	50.819	1.520	53.300	3.09%	-4.65%
09/14/2022	1900 Body	20.6	1850	1.506	51.257	1.520	53.300	-0.92%	-3.83%
			1860	1.518	51.216	1.520	53.300	-0.13%	-3.91%
			1880	1.543	51.143	1.520	53.300	1.51%	-4.05%
			1900	1.567	51.092	1.520	53.300	3.09%	-4.14%
			1905	1.572	51.080	1.520	53.300	3.42%	-4.17%
			1910	1.577	51.067	1.520	53.300	3.75%	-4.19%
09/19/2022	1900 Body	22.5	1850	1.500	51.568	1.520	53.300	-1.32%	-3.25%
			1860	1.511	51.536	1.520	53.300	-0.59%	-3.31%
			1880	1.534	51.468	1.520	53.300	0.92%	-3.44%
			1900	1.556	51.402	1.520	53.300	2.37%	-3.56%
			1905	1.562	51.388	1.520	53.300	2.76%	-3.59%
			1910	1.567	51.374	1.520	53.300	3.09%	-3.61%
09/25/2022	1900 Body	22.5	1850	1.511	51.137	1.520	53.300	-0.59%	-4.06%
			1860	1.522	51.110	1.520	53.300	0.13%	-4.11%
			1880	1.544	51.049	1.520	53.300	1.58%	-4.22%
			1900	1.566	50.982	1.520	53.300	3.03%	-4.35%
			1905	1.571	50.964	1.520	53.300	3.36%	-4.38%
			1910	1.577	50.946	1.520	53.300	3.75%	-4.42%
09/25/2022	1900 Body	23.9	1850	1.471	53.192	1.520	53.300	-3.22%	-0.20%
			1860	1.481	53.156	1.520	53.300	-2.57%	-0.27%
			1880	1.503	53.085	1.520	53.300	-1.12%	-0.40%
			1900	1.526	53.030	1.520	53.300	0.39%	-0.51%
			1905	1.531	53.014	1.520	53.300	0.72%	-0.54%
			1910	1.537	53.001	1.520	53.300	1.12%	-0.56%
09/29/2022	1900 Body	22.8	1850	1.499	51.653	1.520	53.300	-1.38%	-3.09%
			1860	1.510	51.626	1.520	53.300	-0.66%	-3.14%
			1880	1.534	51.572	1.520	53.300	0.92%	-3.24%
			1900	1.556	51.506	1.520	53.300	2.37%	-3.37%
			1905	1.562	51.491	1.520	53.300	2.76%	-3.39%
			1910	1.567	51.475	1.520	53.300	3.09%	-3.42%
10/21/2022	1900 Body	23.8	1850	1.491	51.381	1.520	53.300	-1.91%	-3.60%
			1860	1.502	51.349	1.520	53.300	-1.18%	-3.66%
			1880	1.524	51.283	1.520	53.300	0.26%	-3.78%
			1900	1.547	51.219	1.520	53.300	1.78%	-3.90%
			1905	1.552	51.202	1.520	53.300	2.11%	-3.94%
			1910	1.558	51.183	1.520	53.300	2.50%	-3.97%
11/06/2022	1900 Body	20.9	1850	1.525	51.829	1.520	53.300	0.33%	-2.76%
			1860	1.536	51.798	1.520	53.300	1.05%	-2.82%
			1880	1.558	51.737	1.520	53.300	2.50%	-2.93%
			1900	1.581	51.672	1.520	53.300	4.01%	-3.05%
			1905	1.587	51.657	1.520	53.300	4.41%	-3.08%
			1910	1.593	51.644	1.520	53.300	4.80%	-3.11%

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Table 10-7
Measured Body Tissue Properties

Calculated for Years Performed on:	Test Type	Time Temp During Cal Temp (°C)	Measured Frequency MHz	Measured Conductivity S/Bm	Measured Resistivity Cohesion, k	TARGET Conductivity S/Bm	TARGET Resistivity Cohesion, k	% dev n	% dev k
09/09/2022	2450 Body	20.0	2110	1.872	10.885	1.870	10.890	0.176%	0.020%
			2200	1.931	10.360	1.926	10.873	0.276%	0.020%
			2400	1.950	10.755	1.950	10.761	-0.036%	-0.023%
			2450	1.950	10.738	1.950	10.760	-0.000%	-0.020%
			2480	1.971	10.626	1.969	10.620	-0.000%	0.000%
			2500	1.959	10.580	1.955	10.646	1.048%	0.020%
			2520	1.968	10.540	1.969	10.620	-0.000%	0.000%
			2550	1.975	10.555	1.975	10.618	-0.000%	0.000%
			2580	1.995	10.500	1.994	10.585	-0.760%	0.060%
			2600	2.000	10.510	2.000	10.587	-1.000%	0.000%
			2620	2.000	10.520	2.000	10.573	-0.950%	0.000%
			2650	2.020	10.420	2.020	10.540	-1.476%	0.076%
09/02/2022	2450 Body	20.0	2680	2.000	10.514	2.000	10.553	-1.900%	0.000%
			2700	2.000	10.510	2.000	10.537	-1.660%	0.000%
			2750	1.933	10.330	1.930	10.587	-1.490%	-1.810%
			2810	1.853	10.080	1.838	10.636	-1.400%	-1.560%
			2830	1.863	10.075	1.838	10.620	-1.370%	-1.570%
			2400	1.972	10.767	1.962	10.682	-0.500%	-0.400%
			2420	1.968	10.760	1.969	10.665	-0.030%	-0.070%
			2440	1.959	10.833	1.950	10.677	-0.030%	-1.070%
			2460	1.950	10.800	1.950	10.660	-0.000%	-0.000%
			2480	1.950	10.730	1.950	10.650	-0.000%	-0.000%
			2510	2.022	10.700	2.020	10.623	-0.060%	-0.400%
			09/09/2022	2450 Body	20.0	2530	2.040	10.720	2.051
2550	2.000	10.720				2.000	10.573	-0.400%	-0.600%
2560	2.074	10.765				2.058	10.565	-1.860%	-2.420%
2580	2.000	10.650				2.000	10.590	-0.560%	-0.020%
2600	2.000	10.530				2.000	10.500	-0.290%	-0.000%
2620	2.000	10.530				2.000	10.500	-0.290%	-0.000%
2640	1.950	10.730				1.950	10.700	0.000%	-0.000%
2660	1.950	10.730				1.950	10.700	0.000%	-0.000%
2680	1.950	10.730				1.950	10.700	0.000%	-0.000%
2700	1.950	10.730				1.950	10.700	0.000%	-0.000%
2720	1.950	10.730				1.950	10.700	0.000%	-0.000%
2740	1.950	10.730				1.950	10.700	0.000%	-0.000%
10/08/2022	2450 Body	20.4	2780	1.950	10.730	1.950	10.707	0.000%	-0.076%
			2800	1.950	10.730	1.950	10.692	0.000%	-0.440%
			2820	1.950	10.730	1.950	10.687	0.000%	-0.450%
			2840	1.950	10.730	1.950	10.682	0.000%	-0.460%
			2860	1.950	10.730	1.950	10.677	0.000%	-0.470%
			2880	1.950	10.730	1.950	10.672	0.000%	-0.480%
			2900	1.950	10.730	1.950	10.667	0.000%	-0.490%
			2920	1.950	10.730	1.950	10.662	0.000%	-0.500%
			2940	1.950	10.730	1.950	10.657	0.000%	-0.510%
			2960	1.950	10.730	1.950	10.652	0.000%	-0.520%
			2980	1.950	10.730	1.950	10.647	0.000%	-0.530%
			3000	1.950	10.730	1.950	10.642	0.000%	-0.540%
10/24/2022	2450 Body	20.7	3020	1.950	10.730	1.950	10.637	0.000%	-0.550%
			3040	1.950	10.730	1.950	10.632	0.000%	-0.560%
			3060	1.950	10.730	1.950	10.627	0.000%	-0.570%
			3080	1.950	10.730	1.950	10.622	0.000%	-0.580%
			3100	1.950	10.730	1.950	10.617	0.000%	-0.590%
			3120	1.950	10.730	1.950	10.612	0.000%	-0.600%
			3140	1.950	10.730	1.950	10.607	0.000%	-0.610%
			3160	1.950	10.730	1.950	10.602	0.000%	-0.620%
			3180	1.950	10.730	1.950	10.597	0.000%	-0.630%
			3200	1.950	10.730	1.950	10.592	0.000%	-0.640%
			3220	1.950	10.730	1.950	10.587	0.000%	-0.650%
			3240	1.950	10.730	1.950	10.582	0.000%	-0.660%
10/24/2022	2450 Body	22.0	3260	1.950	10.730	1.950	10.577	0.000%	-0.670%
			3280	1.950	10.730	1.950	10.572	0.000%	-0.680%
			3300	1.950	10.730	1.950	10.567	0.000%	-0.690%
			3320	1.950	10.730	1.950	10.562	0.000%	-0.700%
			3340	1.950	10.730	1.950	10.557	0.000%	-0.710%
			3360	1.950	10.730	1.950	10.552	0.000%	-0.720%
			3380	1.950	10.730	1.950	10.547	0.000%	-0.730%
			3400	1.950	10.730	1.950	10.542	0.000%	-0.740%
			3420	1.950	10.730	1.950	10.537	0.000%	-0.750%
			3440	1.950	10.730	1.950	10.532	0.000%	-0.760%
			3460	1.950	10.730	1.950	10.527	0.000%	-0.770%
			3480	1.950	10.730	1.950	10.522	0.000%	-0.780%
10/31/2022	2450 Body	20.0	3500	1.950	10.730	1.950	10.517	0.000%	-0.790%
			3520	1.950	10.730	1.950	10.512	0.000%	-0.800%
			3540	1.950	10.730	1.950	10.507	0.000%	-0.810%
			3560	1.950	10.730	1.950	10.502	0.000%	-0.820%
			3580	1.950	10.730	1.950	10.497	0.000%	-0.830%
			3600	1.950	10.730	1.950	10.492	0.000%	-0.840%
			3620	1.950	10.730	1.950	10.487	0.000%	-0.850%
			3640	1.950	10.730	1.950	10.482	0.000%	-0.860%
			3660	1.950	10.730	1.950	10.477	0.000%	-0.870%
			3680	1.950	10.730	1.950	10.472	0.000%	-0.880%
			3700	1.950	10.730	1.950	10.467	0.000%	-0.890%
			3720	1.950	10.730	1.950	10.462	0.000%	-0.900%
11/07/2022	2450 Body	20.5	3740	1.950	10.730	1.950	10.457	0.000%	-0.910%
			3760	1.950	10.730	1.950	10.452	0.000%	-0.920%
			3780	1.950	10.730	1.950	10.447	0.000%	-0.930%
			3800	1.950	10.730	1.950	10.442	0.000%	-0.940%
			3820	1.950	10.730	1.950	10.437	0.000%	-0.950%
			3840	1.950	10.730	1.950	10.432	0.000%	-0.960%
			3860	1.950	10.730	1.950	10.427	0.000%	-0.970%
			3880	1.950	10.730	1.950	10.422	0.000%	-0.980%
			3900	1.950	10.730	1.950	10.417	0.000%	-0.990%
			3920	1.950	10.730	1.950	10.412	0.000%	-1.000%
			3940	1.950	10.730	1.950	10.407	0.000%	-1.010%
			3960	1.950	10.730	1.950	10.402	0.000%	-1.020%
11/07/2022	2450 Body	21.1	3980	1.950	10.730	1.950	10.397	0.000%	-1.030%
			4000	1.950	10.730	1.950	10.392	0.000%	-1.040%
			4020	1.950	10.730	1.950	10.387	0.000%	-1.050%
			4040	1.950	10.730	1.950	10.382	0.000%	-1.060%
			4060	1.950	10.730	1.950	10.377	0.000%	-1.070%
			4080	1.950	10.730	1.950	10.372	0.000%	-1.080%
			4100	1.950	10.730	1.950	10.367	0.000%	-1.090%
			4120	1.950	10.730	1.950	10.362	0.000%	-1.100%
			4140	1.950	10.730	1.950	10.357	0.000%	-1.110%
			4160	1.950	10.730	1.950	10.352	0.000%	-1.120%
			4180	1.950	10.730	1.950	10.347	0.000%	-1.130%
			4200	1.950	10.730	1.950	10.342	0.000%	-1.140%
11/14/2022	2450 Body	21.0	4220	1.950	10.730	1.950	10.337	0.000%	-1.150%
			4240	1.950	10.730	1.950	10.332	0.000%	-1.160%
			4260	1.950	10.730	1.950	10.327	0.000%	-1.170%
			4280	1.950	10.730	1.950	10.322	0.000%	-1.180%
			4300	1.950	10.730	1.950	10.317	0.000%	-1.190%
			4320	1.950	10.730	1.950	10.312	0.000%	-1.200%
			4340	1.950	10.730	1.950	10.307	0.000%	-1.210%
			4360	1.950	10.730	1.950	10.302	0.000%	-1.220%
			4380	1.950	10.730	1.950	10.297	0.000%	-1.230%

Table 10-8
Measured Body Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
10/03/2022	3600 Body	19.4	3300	2.927	50.647	3.080	51.593	-4.97%	-1.83%
			3350	2.983	50.535	3.139	51.525	-4.97%	-1.92%
			3450	3.113	50.273	3.256	51.389	-4.39%	-2.17%
			3500	3.179	50.103	3.314	51.321	-4.07%	-2.37%
			3550	3.244	49.975	3.372	51.254	-3.80%	-2.50%
			3560	3.256	49.953	3.384	51.240	-3.78%	-2.51%
			3600	3.305	49.830	3.431	51.186	-3.67%	-2.65%
			3650	3.368	49.742	3.489	51.118	-3.47%	-2.69%
			3690	3.421	49.592	3.536	51.063	-3.25%	-2.88%
			3700	3.435	49.570	3.548	51.050	-3.18%	-2.90%
			3750	3.499	49.450	3.606	50.982	-2.97%	-3.00%
			3900	3.705	49.014	3.781	50.779	-2.01%	-3.48%
			3930	3.748	48.911	3.816	50.738	-1.78%	-3.60%
			4100	3.984	48.429	4.015	50.507	-0.77%	-4.11%
			4150	4.049	48.319	4.073	50.439	-0.59%	-4.20%
10/24/2022	3600 Body	19.5	3300	2.987	51.221	3.080	51.593	-3.02%	-0.72%
			3350	3.046	51.139	3.139	51.525	-2.96%	-0.75%
			3450	3.162	50.953	3.256	51.389	-2.89%	-0.85%
			3500	3.216	50.853	3.314	51.321	-2.96%	-0.91%
			3550	3.282	50.757	3.372	51.254	-2.67%	-0.97%
			3560	3.291	50.756	3.384	51.240	-2.75%	-0.94%
			3600	3.337	50.681	3.431	51.186	-2.74%	-0.99%
			3650	3.398	50.594	3.489	51.118	-2.61%	-1.03%
			3690	3.448	50.519	3.536	51.063	-2.49%	-1.07%
			3700	3.460	50.500	3.548	51.050	-2.48%	-1.08%
			3750	3.523	50.424	3.606	50.982	-2.30%	-1.09%
			3900	3.713	50.144	3.781	50.779	-1.80%	-1.25%
			3930	3.757	50.081	3.816	50.738	-1.55%	-1.29%
			4100	3.981	49.796	4.015	50.507	-0.85%	-1.41%
			4150	4.050	49.702	4.073	50.439	-0.56%	-1.46%
10/31/2022	3600 Body	20.7	3300	2.974	51.492	3.080	51.593	-3.44%	-0.20%
			3350	3.031	51.388	3.139	51.525	-3.44%	-0.27%
			3450	3.146	51.201	3.256	51.389	-3.38%	-0.37%
			3500	3.202	51.102	3.314	51.321	-3.38%	-0.43%
			3550	3.263	51.036	3.372	51.254	-3.23%	-0.43%
			3560	3.273	51.009	3.384	51.240	-3.28%	-0.45%
			3600	3.319	50.940	3.431	51.186	-3.26%	-0.48%
			3650	3.381	50.843	3.489	51.118	-3.10%	-0.54%
			3690	3.425	50.803	3.536	51.063	-3.14%	-0.51%
			3700	3.440	50.775	3.548	51.050	-3.04%	-0.54%
			3750	3.504	50.684	3.606	50.982	-2.83%	-0.58%
			3900	3.690	50.436	3.781	50.779	-2.41%	-0.68%
			3930	3.734	50.389	3.816	50.738	-2.15%	-0.69%
			4100	3.965	50.114	4.015	50.507	-1.25%	-0.78%
			4150	4.034	50.023	4.073	50.439	-0.96%	-0.82%
11/03/2022	3600 Body	18.1	3300	2.930	50.168	3.080	51.593	-4.87%	-2.76%
			3350	2.989	50.070	3.139	51.525	-4.78%	-2.82%
			3450	3.099	49.917	3.256	51.389	-4.82%	-2.86%
			3500	3.154	49.835	3.314	51.321	-4.83%	-2.90%
			3550	3.216	49.734	3.372	51.254	-4.63%	-2.97%
			3560	3.224	49.714	3.384	51.240	-4.73%	-2.98%
			3600	3.273	49.643	3.431	51.186	-4.61%	-3.01%
			3650	3.330	49.537	3.489	51.118	-4.56%	-3.09%
			3690	3.378	49.465	3.536	51.063	-4.47%	-3.13%
			3700	3.391	49.439	3.548	51.050	-4.43%	-3.16%
			3750	3.455	49.348	3.606	50.982	-4.19%	-3.21%
			3900	3.649	49.092	3.781	50.779	-3.49%	-3.32%
			3930	3.690	49.045	3.816	50.738	-3.30%	-3.34%
			4100	3.909	48.724	4.015	50.507	-2.64%	-3.53%
			4150	3.979	48.641	4.073	50.439	-2.31%	-3.56%
11/07/2022	3600 Body	18.0	3300	2.937	49.500	3.080	51.593	-4.64%	-4.06%
			3350	2.995	49.404	3.139	51.525	-4.59%	-4.12%
			3450	3.107	49.216	3.256	51.389	-4.58%	-4.23%
			3500	3.162	49.127	3.314	51.321	-4.59%	-4.28%
			3550	3.221	49.031	3.372	51.254	-4.48%	-4.34%
			3560	3.232	49.020	3.384	51.240	-4.49%	-4.33%
			3600	3.283	48.940	3.431	51.186	-4.31%	-4.39%
			3650	3.340	48.851	3.489	51.118	-4.27%	-4.43%
			3690	3.389	48.758	3.536	51.063	-4.16%	-4.51%
			3700	3.404	48.737	3.548	51.050	-4.06%	-4.53%
			3750	3.466	48.666	3.606	50.982	-3.88%	-4.54%
			3900	3.657	48.385	3.781	50.779	-3.28%	-4.71%
			3930	3.699	48.335	3.816	50.738	-3.07%	-4.74%
			4100	3.924	48.011	4.015	50.507	-2.27%	-4.94%

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Table 10-9
Measured Body Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
10/20/2022	5200-5800 Body	21.7	5180	5.146	47.517	5.276	49.041	-2.46%	-3.11%
			5190	5.161	47.501	5.288	49.028	-2.40%	-3.11%
			5200	5.174	47.470	5.299	49.014	-2.36%	-3.15%
			5210	5.189	47.437	5.311	49.001	-2.30%	-3.19%
			5220	5.202	47.409	5.323	48.987	-2.27%	-3.22%
			5240	5.234	47.366	5.346	48.960	-2.10%	-3.26%
			5250	5.246	47.340	5.358	48.947	-2.09%	-3.28%
			5260	5.257	47.313	5.369	48.933	-2.09%	-3.31%
			5270	5.270	47.292	5.381	48.919	-2.06%	-3.33%
			5280	5.286	47.282	5.393	48.906	-1.98%	-3.32%
			5290	5.303	47.271	5.404	48.892	-1.87%	-3.32%
			5300	5.318	47.260	5.416	48.879	-1.81%	-3.31%
			5310	5.331	47.244	5.428	48.865	-1.79%	-3.32%
			5320	5.344	47.226	5.439	48.851	-1.75%	-3.33%
			5500	5.605	46.885	5.650	48.607	-0.80%	-3.54%
			5510	5.617	46.874	5.661	48.594	-0.78%	-3.54%
			5520	5.630	46.857	5.673	48.580	-0.76%	-3.55%
			5530	5.643	46.841	5.685	48.566	-0.74%	-3.55%
			5540	5.656	46.812	5.696	48.553	-0.70%	-3.59%
			5550	5.667	46.788	5.708	48.539	-0.72%	-3.61%
			5560	5.680	46.758	5.720	48.526	-0.70%	-3.64%
			5580	5.719	46.718	5.743	48.499	-0.42%	-3.67%
			5600	5.758	46.694	5.766	48.471	-0.14%	-3.67%
			5610	5.771	46.685	5.778	48.458	-0.12%	-3.66%
			5620	5.780	46.679	5.790	48.444	-0.17%	-3.64%
			5640	5.801	46.645	5.813	48.417	-0.21%	-3.66%
			5660	5.824	46.584	5.837	48.390	-0.22%	-3.73%
			5670	5.839	46.554	5.848	48.376	-0.15%	-3.77%
			5680	5.857	46.529	5.860	48.363	-0.05%	-3.79%
			5690	5.877	46.508	5.872	48.349	0.09%	-3.81%
			5700	5.895	46.491	5.883	48.336	0.20%	-3.82%
			5710	5.910	46.482	5.895	48.322	0.25%	-3.81%
			5720	5.925	46.478	5.907	48.309	0.30%	-3.79%
			5745	5.951	46.455	5.936	48.275	0.25%	-3.77%
			5750	5.957	46.446	5.942	48.268	0.25%	-3.77%
			5755	5.963	46.435	5.947	48.261	0.27%	-3.78%
			5765	5.979	46.403	5.959	48.248	0.34%	-3.82%
			5775	5.995	46.372	5.971	48.234	0.40%	-3.86%
			5785	6.010	46.344	5.982	48.220	0.47%	-3.89%
			5795	6.024	46.324	5.994	48.207	0.50%	-3.91%
			5800	6.033	46.315	6.000	48.200	0.55%	-3.91%
			5805	6.042	46.301	6.006	48.193	0.60%	-3.93%
			5825	6.077	46.267	6.029	48.166	0.80%	-3.94%
			5835	6.092	46.259	6.042	48.130	0.83%	-3.89%
			5845	6.106	46.249	6.054	48.110	0.86%	-3.87%
			5855	6.118	46.240	6.066	48.093	0.86%	-3.85%
			5865	6.128	46.227	6.077	48.080	0.84%	-3.85%
			5875	6.139	46.200	6.088	48.067	0.84%	-3.88%
			5885	6.151	46.161	6.100	48.053	0.84%	-3.94%
			5905	6.176	46.121	6.122	48.027	0.88%	-3.97%

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

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10.2 Test System Verification

Prior to SAR assessment, the system is verified to $\pm 10\%$ of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in SAR System Validation Appendix.

Table 10-10
System Verification Results – Head

System Verification TARGET & MEASURED																
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g	Deviation 10g (%)
G	13	HEAD	11/10/2022	22.8	21.9	1.00	1002	7527	0.587	0.557	0.587	5.39%	0.365	0.346	0.365	5.49%
P	750	HEAD	09/12/2022	21.5	21.0	0.20	1054	7409	1.720	8.520	8.600	0.94%	1.130	5.600	5.650	0.89%
P	750	HEAD	09/14/2022	23.5	20.9	0.20	1054	7409	1.720	8.520	8.600	0.94%	1.140	5.600	5.700	1.79%
K1	750	HEAD	09/26/2022	22.7	22.3	0.20	1046	7491	1.740	8.540	8.700	1.87%	1.140	5.610	5.700	1.60%
K1	750	HEAD	09/28/2022	22.8	21.9	0.20	1046	7491	1.720	8.540	8.600	0.70%	1.120	5.610	5.600	-0.18%
P	835	HEAD	09/21/2022	24.5	20.3	0.20	4d132	7409	1.980	9.660	9.900	2.48%	1.300	6.270	6.500	3.67%
K4	835	HEAD	09/21/2022	20.6	19.5	0.20	4d119	7637	1.810	9.660	9.050	-6.31%	1.180	6.340	5.900	-6.94%
K4	835	HEAD	09/23/2022	21.1	20.2	0.20	4d119	7637	1.990	9.660	9.950	3.00%	1.300	6.340	6.500	2.52%
K4	835	HEAD	09/26/2022	22.1	21.0	0.20	4d119	7637	2.020	9.660	10.100	4.55%	1.320	6.340	6.600	4.10%
I	1750	HEAD	09/14/2022	23.2	22.5	0.10	1150	7660	3.670	36.900	36.700	-0.54%	1.940	19.400	19.400	0.00%
S	1750	HEAD	10/24/2022	23.4	21.9	0.10	1148	7488	3.820	37.200	38.200	2.69%	2.030	19.400	20.300	4.64%
S	1750	HEAD	11/02/2022	20.8	21.0	0.10	1008	7488	3.660	37.400	36.600	-2.14%	1.950	19.600	19.500	-0.51%
S	1900	HEAD	09/19/2022	21.0	21.5	0.10	5d148	7488	4.120	40.100	41.200	2.74%	2.130	21.000	21.300	1.43%
S	1900	HEAD	11/04/2022	22.3	21.5	0.10	5d148	7488	4.210	40.100	42.100	4.99%	2.180	21.000	21.800	3.81%
AM6	1900	HEAD	11/04/2022	22.0	20.3	0.10	5d030	7532	3.950	39.800	39.500	-0.75%	2.040	20.400	20.400	0.00%
P	2300	HEAD	11/09/2022	21.1	21.0	0.10	1116	7409	4.730	49.600	47.300	-4.64%	2.260	23.800	22.600	-5.04%
P	2300	HEAD	11/11/2022	22.8	21.1	0.10	1073	7409	4.920	48.600	49.200	1.23%	2.350	23.700	23.500	-0.84%
L	2450	HEAD	10/26/2022	21.5	20.7	0.10	719	7410	5.590	55.000	55.900	1.64%	2.610	25.700	26.100	1.56%
K2	2450	HEAD	10/30/2022	21.8	22.1	0.10	882	7640	5.410	51.600	54.100	4.84%	2.480	24.000	24.800	3.33%
K2	2450	HEAD	11/01/2022	21.1	21.3	0.10	882	7640	5.410	51.600	54.100	4.84%	2.460	24.000	24.600	2.50%
AM8	2450	HEAD	11/03/2022	21.9	20.6	0.10	750	7546	4.920	52.600	49.200	-6.46%	2.280	24.500	22.800	-6.94%
L	2450	HEAD	11/07/2022	23.0	21.0	0.10	981	7410	4.970	53.900	49.700	-7.79%	2.330	25.400	23.300	-8.27%
K4	2600	HEAD	10/20/2022	20.2	19.0	0.10	1009	7637	5.610	56.800	56.100	-1.23%	2.490	25.400	24.900	-1.97%
L	2600	HEAD	10/26/2022	21.5	20.7	0.10	1071	7410	6.070	56.100	60.700	8.20%	2.740	25.100	27.400	9.16%
AM8	2600	HEAD	11/03/2022	21.9	20.6	0.10	1042	7546	5.310	55.800	53.100	-4.84%	2.380	24.900	23.800	-4.42%
L	2600	HEAD	11/04/2022	21.8	22.5	0.10	1004	7410	5.890	57.800	58.900	1.90%	2.670	25.700	26.700	3.89%
L	2600	HEAD	11/07/2022	23.0	21.0	0.10	1004	7410	5.800	57.800	58.000	0.35%	2.630	25.700	26.300	2.33%
AM7	3500	HEAD	10/11/2022	20.1	19.5	0.10	1126	7416	6.980	67.000	69.800	4.18%	2.680	25.000	26.800	7.20%
L	3500	HEAD	10/17/2022	20.7	20.4	0.10	1059	7410	6.340	63.700	63.400	-0.47%	2.470	23.900	24.700	3.35%
AM1	3500	HEAD	10/20/2022	22.2	21.2	0.10	1126	7639	6.260	67.000	62.600	-6.57%	2.350	25.000	23.500	-6.00%
AM7	3700	HEAD	10/11/2022	20.1	19.5	0.10	1097	7416	6.960	68.100	69.600	2.20%	2.590	24.500	25.900	5.71%
L	3700	HEAD	10/17/2022	20.7	20.4	0.10	1067	7410	6.980	67.200	69.800	3.87%	2.620	24.300	26.200	7.82%
AM7	3700	HEAD	10/17/2022	20.9	20.5	0.10	1097	7416	6.950	68.100	69.500	2.06%	2.590	24.500	25.900	5.71%
AM7	3900	HEAD	10/17/2022	20.9	20.5	0.10	1062	7416	6.960	68.600	69.600	1.46%	2.490	23.800	24.900	4.62%
K3	5250	HEAD	10/31/2022	20.2	20.1	0.05	1237	7565	3.800	80.800	76.000	-5.94%	1.080	22.800	21.600	-5.26%
K3	5600	HEAD	10/31/2022	20.2	20.1	0.05	1237	7565	4.100	84.100	82.000	-2.50%	1.170	23.700	23.400	-1.27%
K3	5750	HEAD	10/31/2022	20.2	20.1	0.05	1237	7565	3.880	81.100	77.600	-4.32%	1.110	22.600	22.200	-1.77%
G	5800	HEAD	10/31/2022	23.2	20.9	0.05	1057	7527	3.990	82.100	79.800	-2.80%	1.130	23.000	22.600	-1.74%

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Table 10-11
System Verification Results - Body

System Verification TARGET & MEASURED																
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g	Deviation 10g (%)
E	750	BODY	09/13/2022	21.9	21.4	0.20	1054	7668	1.710	8.630	8.550	-0.93%	1.130	5.720	5.650	-1.22%
K3	750	BODY	09/21/2022	23.1	23.1	0.20	1003	7565	1.710	8.800	8.550	-2.84%	1.140	5.840	5.700	-2.40%
K3	750	BODY	09/23/2022	23.1	23.0	0.20	1003	7565	1.750	8.800	8.750	-0.57%	1.180	5.840	5.900	1.03%
K3	750	BODY	09/26/2022	23.2	23.4	0.20	1003	7565	1.780	8.800	8.900	1.14%	1.200	5.840	6.000	2.74%
I	835	BODY	09/19/2022	23.4	20.8	0.20	4d047	7660	1.890	9.680	9.450	-2.38%	1.250	6.400	6.250	-2.34%
K5	835	BODY	09/21/2022	23.3	23.1	0.20	4d119	7402	1.980	9.910	9.900	-0.10%	1.310	6.590	6.550	-0.61%
K5	835	BODY	09/22/2022	23.4	23.5	0.20	4d119	7402	1.950	9.910	9.750	-1.61%	1.310	6.590	6.550	-0.61%
K2	835	BODY	09/26/2022	21.9	21.9	0.20	4d180	7640	1.890	9.710	9.450	-2.68%	1.250	6.390	6.250	-2.19%
K5	835	BODY	09/26/2022	23.3	23.4	0.20	4d119	7402	1.890	9.910	9.450	-4.64%	1.250	6.590	6.250	-5.16%
J	1750	BODY	09/14/2022	23.2	21.6	0.10	1150	7570	3.650	37.800	36.500	-3.44%	1.950	20.000	19.500	-2.50%
J	1750	BODY	09/16/2022	23.1	21.9	0.10	1150	7570	3.670	37.800	36.700	-2.91%	1.970	20.000	19.700	-1.50%
J	1750	BODY	09/18/2022	22.6	21.7	0.10	1150	7570	3.940	37.800	39.400	4.23%	2.110	20.000	21.100	5.50%
J	1750	BODY	09/22/2022	22.8	21.6	0.10	1150	7570	3.690	37.800	36.900	-2.38%	1.920	20.000	19.200	-4.00%
I	1750	BODY	10/03/2022	22.3	22.0	0.10	1150	7660	3.880	37.800	38.800	2.65%	2.060	20.000	20.600	3.00%
D	1750	BODY	11/10/2022	22.3	21.7	0.10	1148	7571	3.930	37.100	39.300	5.93%	2.070	19.600	20.700	5.61%
O	1900	BODY	09/12/2022	21.7	22.2	0.10	5d080	7417	4.010	40.700	40.100	-1.47%	2.050	21.300	20.500	-3.76%
O	1900	BODY	09/14/2022	21.3	20.6	0.10	5d080	7417	4.020	40.700	40.200	-1.23%	2.070	21.300	20.700	-2.82%
O	1900	BODY	09/19/2022	22.3	20.9	0.10	5d080	7417	4.170	40.700	41.700	2.46%	2.140	21.300	21.400	0.47%
P	1900	BODY	09/25/2022	21.8	20.5	0.10	5d148	7409	4.140	39.900	41.400	3.76%	2.130	20.900	21.300	1.91%
J	1900	BODY	09/25/2022	21.7	21.9	0.10	5d149	7570	4.110	40.400	41.100	1.73%	2.140	21.100	21.400	1.42%
P	1900	BODY	09/29/2022	23.0	21.0	0.10	5d148	7409	4.350	39.900	43.500	9.02%	2.240	20.900	22.400	7.18%
J	1900	BODY	10/21/2022	22.4	22.2	0.10	5d080	7570	3.980	40.700	39.800	-2.21%	2.060	21.300	20.600	-3.29%
J	1900	BODY	11/06/2022	21.4	22.3	0.10	5d149	7570	4.250	40.400	42.500	5.20%	2.200	21.100	22.000	4.27%
K	2300	BODY	09/19/2022	21.9	20.7	0.10	1073	7659	4.890	48.100	48.900	1.66%	2.360	23.600	23.600	0.00%
K	2300	BODY	09/22/2022	22.2	21.0	0.10	1116	7659	4.530	49.200	45.300	-7.93%	2.190	23.700	21.900	-7.59%
K	2300	BODY	09/26/2022	22.0	20.8	0.10	1116	7659	4.530	49.200	45.300	-7.93%	2.190	23.700	21.900	-7.59%
O	2300	BODY	11/14/2022	21.5	20.3	0.10	1073	7417	4.770	48.100	47.700	-0.83%	2.220	23.600	22.200	-5.93%
K	2450	BODY	09/19/2022	21.9	20.7	0.10	719	7659	4.940	52.000	49.400	-5.00%	2.320	24.700	23.200	-6.07%
K2	2450	BODY	10/18/2022	21.7	21.4	0.10	882	7640	4.890	51.000	48.900	-4.12%	2.270	24.000	22.700	-5.42%
E	2450	BODY	10/31/2022	21.6	20.3	0.10	719	7668	5.080	52.000	50.800	-2.31%	2.330	24.700	23.300	-5.67%
AM10	2450	BODY	11/01/2022	21.9	20.5	0.10	750	7308	4.890	50.500	48.900	-3.17%	2.230	23.900	22.300	-6.69%
C	2450	BODY	11/07/2022	21.1	21.5	0.10	719	7406	4.960	52.000	49.600	-4.62%	2.250	24.700	22.500	-8.91%
AM4	2450	BODY	11/07/2022	22.0	20.7	0.10	921	3837	5.170	49.700	51.700	4.02%	2.380	23.600	23.800	0.85%
K	2600	BODY	09/19/2022	21.9	20.7	0.10	1071	7659	5.250	54.300	52.500	-3.31%	2.380	24.100	23.800	-1.24%
K	2600	BODY	09/26/2022	22.0	20.8	0.10	1004	7659	5.210	55.400	52.100	-5.96%	2.350	24.800	23.500	-5.24%
O	2600	BODY	10/24/2022	23.1	21.7	0.10	1071	7417	5.490	54.300	54.900	1.10%	2.430	24.100	24.300	0.83%
K1	2600	BODY	10/24/2022	22.1	22.0	0.10	1126	7491	5.170	54.700	51.700	-5.48%	2.330	24.700	23.300	-5.67%
AM10	2600	BODY	11/01/2022	21.9	20.5	0.10	1042	7308	5.100	53.700	51.000	-5.03%	2.230	24.000	22.300	-7.08%
C	2600	BODY	11/07/2022	21.1	21.5	0.10	1064	7406	5.290	54.600	52.900	-3.11%	2.300	24.400	23.000	-5.74%
AM4	2600	BODY	11/07/2022	22.0	20.7	0.10	1042	3837	5.100	53.700	51.000	-5.03%	2.240	24.000	22.400	-6.67%
AM1	3500	BODY	10/03/2022	22.9	20.3	0.10	1126	7639	6.380	63.600	63.800	0.31%	2.420	23.600	24.200	2.54%
AM4	3500	BODY	10/24/2022	22.7	20.7	0.10	1126	3837	6.370	63.600	63.700	0.16%	2.430	23.600	24.300	2.97%
L	3500	BODY	10/31/2022	23.0	20.7	0.10	1059	7410	6.160	63.000	61.600	-2.22%	2.340	23.300	23.400	0.43%
AM3	3500	BODY	11/07/2022	21.8	19.5	0.10	1126	7427	6.590	63.600	65.900	3.62%	2.510	23.600	25.100	6.36%
AM4	3700	BODY	10/24/2022	22.7	20.7	0.10	1097	3837	6.340	62.300	63.400	1.77%	2.350	22.200	23.500	5.86%
L	3700	BODY	10/31/2022	23.0	20.7	0.10	1067	7410	6.580	65.200	65.800	0.92%	2.410	23.300	24.100	3.43%
AM3	3700	BODY	11/03/2022	21.8	19.3	0.10	1097	7427	6.510	62.300	65.100	4.49%	2.390	22.200	23.900	7.66%
AM4	3900	BODY	10/24/2022	22.7	20.7	0.10	1062	3837	6.840	66.300	68.400	3.17%	2.380	23.100	23.800	3.03%
AM3	3900	BODY	11/03/2022	21.8	19.3	0.10	1062	7427	6.640	66.300	66.400	0.15%	2.330	23.100	23.300	0.87%
K	5250	BODY	10/20/2022	22.2	21.7	0.05	1057	7659	3.540	74.200	70.800	-4.58%	1.010	20.600	20.200	-1.94%
K	5600	BODY	10/20/2022	22.2	21.7	0.05	1057	7659	3.790	77.000	75.800	-1.56%	1.070	21.200	21.400	0.94%
K	5750	BODY	10/20/2022	22.2	21.7	0.05	1057	7659	3.460	74.900	69.200	-7.61%	0.982	20.700	19.640	-5.12%
K	5800	BODY	10/20/2022	22.2	21.7	0.05	1057	7659	3.600	74.800	72.000	-3.74%	1.010	20.500	20.200	-1.46%

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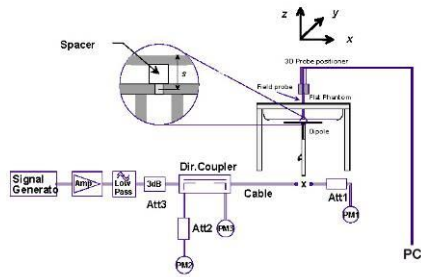


Figure 10-1
System Verification Setup Diagram



Figure 10-2
System Verification Setup Photo

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11 SAR DATA SUMMARY

11.1 Standalone Head SAR Data

Table 11-1
GSM 850 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
824.20	128	Right	Cheek	GSM 850	GSM	A	0208M	33.0	31.87	0.14	1:8.3	0.103	1.297	0.134	
824.20	128	Right	Tilt	GSM 850	GSM	A	0208M	33.0	31.87	-0.03	1:8.3	0.077	1.297	0.100	
824.20	128	Left	Cheek	GSM 850	GSM	A	0208M	33.0	31.87	0.09	1:8.3	0.133	1.297	0.173	A1
824.20	128	Left	Tilt	GSM 850	GSM	A	0208M	33.0	31.87	0.08	1:8.3	0.071	1.297	0.092	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-2
GSM 1900 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1909.80	810	Right	Cheek	GSM 1900	GSM	A	0181M	30.0	28.86	-0.11	1:8.3	0.044	1.300	0.057	A2
1909.80	810	Right	Tilt	GSM 1900	GSM	A	0181M	30.0	28.86	0.17	1:8.3	0.020	1.300	0.026	
1909.80	810	Left	Cheek	GSM 1900	GSM	A	0181M	30.0	28.86	0.05	1:8.3	0.032	1.300	0.042	
1909.80	810	Left	Tilt	GSM 1900	GSM	A	0181M	30.0	28.86	-0.03	1:8.3	0.032	1.300	0.042	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-3
UMTS 850 Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Tune State	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	4183	Right	Cheek	UMTS 850	RMC	A	3	0208M	25.0	23.68	0.05	1:1	0.131	1.355	0.178	
836.60	4183	Right	Tilt	UMTS 850	RMC	A	3	0208M	25.0	23.68	0.00	1:1	0.090	1.355	0.122	
836.60	4183	Left	Cheek	UMTS 850	RMC	A	3	0208M	25.0	23.68	0.04	1:1	0.173	1.355	0.234	A3
836.60	4183	Left	Tilt	UMTS 850	RMC	A	3	0208M	25.0	23.68	0.15	1:1	0.087	1.355	0.118	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram								

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Table 11-4
UMTS 1750 Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Tune State	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
1732.40	1412	Right	Cheek	UMTS 1750	RMC	A	32	0171M	24.0	22.77	-0.03	1:1	0.125	1.327	0.166	A4
1732.40	1412	Right	Tilt	UMTS 1750	RMC	A	32	0171M	24.0	22.77	-0.01	1:1	0.094	1.327	0.125	
1732.40	1412	Left	Cheek	UMTS 1750	RMC	A	32	0171M	24.0	22.77	0.03	1:1	0.081	1.327	0.107	
1732.40	1412	Left	Tilt	UMTS 1750	RMC	A	32	0171M	24.0	22.77	-0.03	1:1	0.087	1.327	0.115	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-5
UMTS 1900 Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Tune State	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
1880.00	9400	Right	Cheek	UMTS 1900	RMC	A	33	0181M	24.0	22.74	-0.09	1:1	0.113	1.337	0.151	A5
1880.00	9400	Right	Tilt	UMTS 1900	RMC	A	33	0181M	24.0	22.74	0.05	1:1	0.057	1.337	0.076	
1880.00	9400	Left	Cheek	UMTS 1900	RMC	A	33	0181M	24.0	22.74	0.01	1:1	0.094	1.337	0.126	
1880.00	9400	Left	Tilt	UMTS 1900	RMC	A	33	0181M	24.0	22.74	0.05	1:1	0.074	1.337	0.099	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-6
LTE Band 71 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot	
MHz	Ch.																(W/kg)		(W/kg)		
680.50	133297	Mid	Right	Cheek	LTE Band 71	A	3	0184M	20	QPSK	1	50	25.5	24.55	0	-0.01	1:1	0.107	1.245	0.133	A6
680.50	133297	Mid	Right	Cheek	LTE Band 71	A	3	0184M	20	QPSK	50	0	24.5	23.45	1	0.10	1:1	0.072	1.274	0.092	
680.50	133297	Mid	Right	Tilt	LTE Band 71	A	3	0184M	20	QPSK	1	50	25.5	24.55	0	-0.06	1:1	0.040	1.245	0.050	
680.50	133297	Mid	Right	Tilt	LTE Band 71	A	3	0184M	20	QPSK	50	0	24.5	23.45	1	0.00	1:1	0.031	1.274	0.039	
680.50	133297	Mid	Left	Cheek	LTE Band 71	A	3	0184M	20	QPSK	1	50	25.5	24.55	0	-0.01	1:1	0.099	1.245	0.123	
680.50	133297	Mid	Left	Cheek	LTE Band 71	A	3	0184M	20	QPSK	50	0	24.5	23.45	1	-0.04	1:1	0.070	1.274	0.089	
680.50	133297	Mid	Left	Tilt	LTE Band 71	A	3	0184M	20	QPSK	1	50	25.5	24.55	0	0.03	1:1	0.039	1.245	0.049	
680.50	133297	Mid	Left	Tilt	LTE Band 71	A	3	0184M	20	QPSK	50	0	24.5	23.45	1	0.14	1:1	0.030	1.274	0.038	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-7
LTE Band 12 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
707.50	23095	Mid	Right	Cheek	LTE Band 12	A	132	0184M	10	QPSK	1	25	25.5	24.51	0	0.09	1:1	0.116	1.256	0.146	
707.50	23095	Mid	Right	Cheek	LTE Band 12	A	132	0184M	10	QPSK	25	25	24.5	23.58	1	0.14	1:1	0.094	1.236	0.116	
707.50	23095	Mid	Right	Tilt	LTE Band 12	A	132	0184M	10	QPSK	1	25	25.5	24.51	0	0.14	1:1	0.073	1.256	0.092	
707.50	23095	Mid	Right	Tilt	LTE Band 12	A	132	0184M	10	QPSK	25	25	24.5	23.58	1	0.09	1:1	0.054	1.236	0.067	
707.50	23095	Mid	Left	Cheek	LTE Band 12	A	132	0184M	10	QPSK	1	25	25.5	24.51	0	0.10	1:1	0.130	1.256	0.163	A7
707.50	23095	Mid	Left	Cheek	LTE Band 12	A	132	0184M	10	QPSK	25	25	24.5	23.58	1	0.14	1:1	0.103	1.236	0.127	
707.50	23095	Mid	Left	Tilt	LTE Band 12	A	132	0184M	10	QPSK	1	25	25.5	24.51	0	0.09	1:1	0.060	1.256	0.075	
707.50	23095	Mid	Left	Tilt	LTE Band 12	A	132	0184M	10	QPSK	25	25	24.5	23.58	1	0.18	1:1	0.045	1.236	0.056	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-8
LTE Band 13 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
782.00	23230	Mid	Right	Cheek	LTE Band 13	A	1	0184M	10	QPSK	1	0	25.5	24.92	0	0.04	1:1	0.145	1.143	0.166	A8
782.00	23230	Mid	Right	Cheek	LTE Band 13	A	1	0184M	10	QPSK	25	12	24.5	23.55	1	0.12	1:1	0.088	1.245	0.110	
782.00	23230	Mid	Right	Tilt	LTE Band 13	A	1	0184M	10	QPSK	1	0	25.5	24.92	0	0.19	1:1	0.096	1.143	0.110	
782.00	23230	Mid	Right	Tilt	LTE Band 13	A	1	0184M	10	QPSK	25	12	24.5	23.55	1	0.03	1:1	0.055	1.245	0.068	
782.00	23230	Mid	Left	Cheek	LTE Band 13	A	5	0184M	10	QPSK	1	0	25.5	24.92	0	0.20	1:1	0.161	1.143	0.184	
782.00	23230	Mid	Left	Cheek	LTE Band 13	A	5	0184M	10	QPSK	25	12	24.5	23.55	1	0.10	1:1	0.145	1.245	0.181	
782.00	23230	Mid	Left	Tilt	LTE Band 13	A	1	0184M	10	QPSK	1	0	25.5	24.92	0	0.16	1:1	0.068	1.143	0.078	
782.00	23230	Mid	Left	Tilt	LTE Band 13	A	1	0184M	10	QPSK	25	12	24.5	23.55	1	0.17	1:1	0.050	1.245	0.062	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-9
LTE Band 14 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
793.00	23330	Mid	Right	Cheek	LTE Band 14	A	7	0184M	10	QPSK	1	25	25.5	24.58	0	0.08	1:1	0.155	1.236	0.192	
793.00	23330	Mid	Right	Cheek	LTE Band 14	A	7	0184M	10	QPSK	25	25	24.5	23.54	1	0.13	1:1	0.119	1.247	0.148	
793.00	23330	Mid	Right	Tilt	LTE Band 14	A	7	0184M	10	QPSK	1	25	25.5	24.58	0	-0.02	1:1	0.070	1.236	0.087	
793.00	23330	Mid	Right	Tilt	LTE Band 14	A	7	0184M	10	QPSK	25	25	24.5	23.54	1	0.04	1:1	0.051	1.247	0.064	
793.00	23330	Mid	Left	Cheek	LTE Band 14	A	7	0184M	10	QPSK	1	25	25.5	24.58	0	0.06	1:1	0.193	1.236	0.239	A9
793.00	23330	Mid	Left	Cheek	LTE Band 14	A	7	0184M	10	QPSK	25	25	24.5	23.54	1	0.12	1:1	0.150	1.247	0.187	
793.00	23330	Mid	Left	Tilt	LTE Band 14	A	7	0184M	10	QPSK	1	25	25.5	24.58	0	0.09	1:1	0.082	1.236	0.101	
793.00	23330	Mid	Left	Tilt	LTE Band 14	A	7	0184M	10	QPSK	25	25	24.5	23.54	1	0.16	1:1	0.066	1.247	0.082	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-10
LTE Band 26 (Cell) Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot	
MHz	Ch.																(W/kg)		(W/kg)		
831.50	26865	Mid	Right	Cheek	LTE Band 26 (Cell)	A	3	0208M	15	QPSK	1	36	25.5	24.27	0	0.05	1.1	0.161	1.327	0.214	
831.50	26865	Mid	Right	Cheek	LTE Band 26 (Cell)	A	3	0208M	15	QPSK	36	37	24.5	23.35	1	0.08	1.1	0.124	1.303	0.162	
831.50	26865	Mid	Right	Tilt	LTE Band 26 (Cell)	A	3	0208M	15	QPSK	1	36	25.5	24.27	0	0.09	1.1	0.109	1.327	0.145	
831.50	26865	Mid	Right	Tilt	LTE Band 26 (Cell)	A	3	0208M	15	QPSK	36	37	24.5	23.35	1	-0.03	1.1	0.095	1.303	0.124	
831.50	26865	Mid	Left	Cheek	LTE Band 26 (Cell)	A	3	0208M	15	QPSK	1	36	25.5	24.27	0	0.03	1.1	0.209	1.327	0.277	A10
831.50	26865	Mid	Left	Cheek	LTE Band 26 (Cell)	A	3	0208M	15	QPSK	36	37	24.5	23.35	1	0.02	1.1	0.159	1.303	0.207	
831.50	26865	Mid	Left	Tilt	LTE Band 26 (Cell)	A	3	0208M	15	QPSK	1	36	25.5	24.27	0	0.06	1.1	0.113	1.327	0.150	
831.50	26865	Mid	Left	Tilt	LTE Band 26 (Cell)	A	3	0208M	15	QPSK	36	37	24.5	23.35	1	0.13	1.1	0.090	1.303	0.117	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Table 11-11
LTE Band 5 (Cell) Head SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot	
		MHz	Ch.																(W/kg)		(W/kg)		
1 CC Uplink	N/A	836.50	20525	Mid	Right	Cheek	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	1	25	25.5	24.46	0	0.02	1.1	0.187	1.271	0.238	
1 CC Uplink	N/A	836.50	20525	Mid	Right	Cheek	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	25	25	24.5	23.45	1	0.05	1.1	0.133	1.274	0.169	
1 CC Uplink	N/A	836.50	20525	Mid	Right	Tilt	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	1	25	25.5	24.46	0	0.18	1.1	0.139	1.271	0.177	
1 CC Uplink	N/A	836.50	20525	Mid	Right	Tilt	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	25	25	24.5	23.45	1	0.03	1.1	0.106	1.274	0.135	
1 CC Uplink	N/A	836.50	20525	Mid	Left	Cheek	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	1	0	25.5	24.39	0	0.17	1.1	0.224	1.291	0.289	A11
1 CC Uplink	N/A	836.50	20525	Mid	Left	Cheek	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	1	25	25.5	24.46	0	0.02	1.1	0.207	1.271	0.263	
1 CC Uplink	N/A	836.50	20525	Mid	Left	Cheek	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	25	25	24.5	23.45	1	0.04	1.1	0.155	1.274	0.197	
2 CC Uplink	PCC	836.50	20525	Mid	Left	Cheek	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	1	0	25.5	24.35	0	0.01	1.1	0.213	1.303	0.278	
	SCC	829.30	20453								5		1	24									
1 CC Uplink	N/A	836.50	20525	Mid	Left	Tilt	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	1	25	25.5	24.46	0	-0.07	1.1	0.112	1.271	0.142	
1 CC Uplink	N/A	836.50	20525	Mid	Left	Tilt	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	25	25	24.5	23.45	1	0.05	1.1	0.082	1.274	0.104	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Head											
Spatial Peak												1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population												averaged over 1 gram											

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Table 11-12
LTE Band 66 (AWS) Head SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
		MHz	Ch.																[W/kg]		[W/kg]		
1 CC Uplink	N/A	1745.00	132322	Md	Right	Cheek	LTE Band 66 (AWS)	A	133	0032M	20	QPSK	1	99	24.5	23.35	0	-0.12	1:1	0.157	1.303	0.205	
1 CC Uplink	N/A	1745.00	132322	Md	Right	Cheek	LTE Band 66 (AWS)	A	133	0032M	20	QPSK	50	50	23.5	22.39	1	0.05	1:1	0.110	1.291	0.142	
1 CC Uplink	N/A	1745.00	132322	Md	Right	Cheek	LTE Band 66 (AWS)	A	133	0032M	10	QPSK	1	49	24.5	23.54	0	-0.07	1:1	0.169	1.247	0.211	
2 CC Uplink CA_66C	PCC	1745.00	132322	Md	Right	Cheek	LTE Band 66 (AWS)	A	133	0032M	20	QPSK	1	99	24.5	23.45	0	0.15	1:1	0.159	1.274	0.203	
	SCC	1764.80	132520											0									
2 CC Uplink CA_66B	PCC	1745.00	132322	Md	Right	Cheek	LTE Band 66 (AWS)	A	133	0032M	10	QPSK	1	49	24.5	23.47	0	0.04	1:1	0.151	1.268	0.191	
	SCC	1754.90	132421											0									
1 CC Uplink	N/A	1745.00	132322	Md	Right	Tilt	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	1	99	24.5	23.35	0	0.14	1:1	0.106	1.303	0.138	
1 CC Uplink	N/A	1745.00	132322	Md	Right	Tilt	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	50	50	23.5	22.39	1	0.09	1:1	0.092	1.291	0.119	
1 CC Uplink	N/A	1745.00	132322	Md	Left	Cheek	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	1	99	24.5	23.35	0	-0.02	1:1	0.068	1.303	0.089	
1 CC Uplink	N/A	1745.00	132322	Md	Left	Cheek	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	50	50	23.5	22.39	1	-0.01	1:1	0.063	1.291	0.081	
1 CC Uplink	N/A	1745.00	132322	Md	Left	Tilt	LTE Band 66 (AWS)	A	133	0032M	20	QPSK	1	99	24.5	23.35	0	-0.19	1:1	0.118	1.303	0.154	
1 CC Uplink	N/A	1745.00	132322	Md	Left	Tilt	LTE Band 66 (AWS)	A	133	0032M	20	QPSK	50	50	23.5	22.39	1	-0.11	1:1	0.089	1.291	0.115	
1 CC Uplink	N/A	1720.00	132072	Low	Right	Cheek	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	99	19.0	18.26	0	-0.07	1:1	0.674	1.186	0.799	
1 CC Uplink	N/A	1745.00	132322	Md	Right	Cheek	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	50	19.0	18.17	0	-0.01	1:1	0.646	1.211	0.782	
1 CC Uplink	N/A	1770.00	132572	High	Right	Cheek	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	50	19.0	18.20	0	0.00	1:1	0.619	1.202	0.744	
1 CC Uplink	N/A	1720.00	132072	Low	Right	Cheek	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	19.0	18.23	0	-0.01	1:1	0.670	1.194	0.800	
1 CC Uplink	N/A	1745.00	132322	Md	Right	Cheek	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	19.0	18.12	0	-0.02	1:1	0.639	1.225	0.783	
1 CC Uplink	N/A	1770.00	132572	High	Right	Cheek	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	19.0	18.11	0	0.01	1:1	0.635	1.227	0.779	
1 CC Uplink	N/A	1720.00	132072	Low	Right	Cheek	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	100	0	19.0	18.07	0	-0.03	1:1	0.640	1.239	0.793	
1 CC Uplink	N/A	1720.00	132072	Low	Right	Tilt	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	99	19.0	18.26	0	0.01	1:1	0.786	1.186	0.932	
1 CC Uplink	N/A	1745.00	132322	Md	Right	Tilt	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	50	19.0	18.17	0	0.02	1:1	0.753	1.211	0.912	
1 CC Uplink	N/A	1770.00	132572	High	Right	Tilt	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	50	19.0	18.20	0	0.12	1:1	0.757	1.202	0.910	
1 CC Uplink	N/A	1720.00	132072	Low	Right	Tilt	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	19.0	18.23	0	0.02	1:1	0.779	1.194	0.930	
1 CC Uplink	N/A	1745.00	132322	Md	Right	Tilt	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	19.0	18.12	0	-0.02	1:1	0.742	1.225	0.909	
1 CC Uplink	N/A	1770.00	132572	High	Right	Tilt	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	19.0	18.11	0	-0.03	1:1	0.732	1.227	0.898	
1 CC Uplink	N/A	1720.00	132072	Low	Right	Tilt	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	100	0	19.0	18.07	0	-0.03	1:1	0.795	1.239	0.985	
1 CC Uplink	N/A	1715.00	132022	Low	Right	Tilt	LTE Band 66 (AWS)	F	N/A	1513M	10	QPSK	50	0	19.0	18.19	0	-0.02	1:1	0.815	1.205	0.982	
2 CC Uplink CA_66C	PCC	1720.00	132072	Low	Right	Tilt	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	100	0	19.0	18.07	0	0.00	1:1	0.786	1.239	0.974	
	SCC	1739.80	132270											0									
2 CC Uplink CA_66B	PCC	1715.00	132022	Low	Right	Tilt	LTE Band 66 (AWS)	F	N/A	1513M	10	QPSK	50	0	19.0	18.25	0	0.03	1:1	0.821	1.189	0.976	A12
	SCC	1724.90	132121											0									
1 CC Uplink	N/A	1720.00	132072	Low	Left	Cheek	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	99	19.0	18.26	0	0.00	1:1	0.469	1.186	0.556	
1 CC Uplink	N/A	1720.00	132072	Low	Left	Cheek	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	19.0	18.23	0	0.00	1:1	0.459	1.194	0.548	
1 CC Uplink	N/A	1720.00	132072	Low	Left	Tilt	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	99	19.0	18.26	0	0.17	1:1	0.584	1.186	0.693	
1 CC Uplink	N/A	1720.00	132072	Low	Left	Tilt	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	19.0	18.23	0	-0.02	1:1	0.561	1.194	0.670	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head 1.6 W/kg (mW/g) averaged over 1 gram												
Spatial Peak Uncontrolled Exposure/General Population																							

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Table 11-13
LTE Band 25 (PCS) Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
1905.00	26590	High	Right	Cheek	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	1	99	24.5	23.27	0	0.04	1:1	0.081	1.327	0.107	
1905.00	26590	High	Right	Cheek	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	50	50	23.5	22.22	1	-0.03	1:1	0.064	1.343	0.086	
1905.00	26590	High	Right	Tilt	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	1	99	24.5	23.27	0	-0.06	1:1	0.038	1.327	0.050	
1905.00	26590	High	Right	Tilt	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	50	50	23.5	22.22	1	0.01	1:1	0.020	1.343	0.027	
1905.00	26590	High	Left	Cheek	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	1	99	24.5	23.27	0	0.08	1:1	0.084	1.327	0.111	
1905.00	26590	High	Left	Cheek	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	50	50	23.5	22.22	1	0.00	1:1	0.068	1.343	0.091	
1905.00	26590	High	Left	Tilt	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	1	99	24.5	23.27	0	0.03	1:1	0.068	1.327	0.090	
1905.00	26590	High	Left	Tilt	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	50	50	23.5	22.22	1	-0.04	1:1	0.044	1.343	0.059	
1860.00	26140	Low	Right	Cheek	LTE Band 25 (PCS)	F	N/A	1467M	20	QPSK	1	50	18.0	16.95	0	0.08	1:1	0.562	1.274	0.716	
1860.00	26140	Low	Right	Cheek	LTE Band 25 (PCS)	F	N/A	1467M	20	QPSK	50	50	18.0	16.85	0	0.01	1:1	0.566	1.303	0.737	
1860.00	26140	Low	Right	Tilt	LTE Band 25 (PCS)	F	N/A	1467M	20	QPSK	1	50	18.0	16.95	0	-0.01	1:1	0.581	1.274	0.740	
1860.00	26140	Low	Right	Tilt	LTE Band 25 (PCS)	F	N/A	1467M	20	QPSK	50	50	18.0	16.85	0	0.01	1:1	0.576	1.303	0.751	
1882.50	26365	Mid	Right	Tilt	LTE Band 25 (PCS)	F	N/A	1467M	20	QPSK	50	50	18.0	16.80	0	-0.02	1:1	0.591	1.318	0.779	
1905.00	26590	High	Right	Tilt	LTE Band 25 (PCS)	F	N/A	1467M	20	QPSK	50	0	18.0	16.84	0	0.02	1:1	0.606	1.306	0.791	A13
1860.00	26140	Low	Left	Cheek	LTE Band 25 (PCS)	F	N/A	1467M	20	QPSK	1	50	18.0	16.95	0	0.02	1:1	0.331	1.274	0.422	
1860.00	26140	Low	Left	Cheek	LTE Band 25 (PCS)	F	N/A	1467M	20	QPSK	50	50	18.0	16.85	0	-0.03	1:1	0.322	1.303	0.420	
1860.00	26140	Low	Left	Tilt	LTE Band 25 (PCS)	F	N/A	1467M	20	QPSK	1	50	18.0	16.95	0	-0.13	1:1	0.442	1.274	0.563	
1860.00	26140	Low	Left	Tilt	LTE Band 25 (PCS)	F	N/A	1467M	20	QPSK	50	50	18.0	16.85	0	0.02	1:1	0.445	1.303	0.580	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-14
LTE Band 30 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY		Side	Test Position	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
2310.00	27710	Mid	Right	Cheek	LTE Band 30	A	0182M	10	QPSK	1	25	23.5	22.20	0	-0.14	1.1	0.056	1.349	0.076	
2310.00	27710	Mid	Right	Cheek	LTE Band 30	A	0182M	10	QPSK	25	25	22.5	21.16	1	-0.04	1.1	0.041	1.361	0.056	
2310.00	27710	Mid	Right	Tilt	LTE Band 30	A	0182M	10	QPSK	1	25	23.5	22.20	0	-0.04	1.1	0.059	1.349	0.080	
2310.00	27710	Mid	Right	Tilt	LTE Band 30	A	0182M	10	QPSK	25	25	22.5	21.16	1	-0.01	1.1	0.047	1.361	0.064	
2310.00	27710	Mid	Left	Cheek	LTE Band 30	A	0182M	10	QPSK	1	25	23.5	22.20	0	0.07	1.1	0.050	1.349	0.067	
2310.00	27710	Mid	Left	Cheek	LTE Band 30	A	0182M	10	QPSK	25	25	22.5	21.16	1	0.02	1.1	0.041	1.361	0.056	
2310.00	27710	Mid	Left	Tilt	LTE Band 30	A	0182M	10	QPSK	1	25	23.5	22.20	0	0.01	1.1	0.064	1.349	0.086	
2310.00	27710	Mid	Left	Tilt	LTE Band 30	A	0182M	10	QPSK	25	25	22.5	21.16	1	0.05	1.1	0.062	1.361	0.084	
2310.00	27710	Mid	Right	Cheek	LTE Band 30	F	0422M	10	QPSK	1	25	18.0	17.46	0	0.00	1.1	0.505	1.132	0.572	
2310.00	27710	Mid	Right	Cheek	LTE Band 30	F	0422M	10	QPSK	25	12	18.0	17.44	0	-0.12	1.1	0.503	1.138	0.572	
2310.00	27710	Mid	Right	Tilt	LTE Band 30	F	0422M	10	QPSK	1	25	18.0	17.46	0	0.02	1.1	0.503	1.132	0.569	
2310.00	27710	Mid	Right	Tilt	LTE Band 30	F	0422M	10	QPSK	25	12	18.0	17.44	0	0.01	1.1	0.489	1.138	0.556	
2310.00	27710	Mid	Left	Cheek	LTE Band 30	F	0422M	10	QPSK	1	25	18.0	17.46	0	0.00	1.1	0.373	1.132	0.422	
2310.00	27710	Mid	Left	Cheek	LTE Band 30	F	0422M	10	QPSK	25	12	18.0	17.44	0	0.01	1.1	0.364	1.138	0.414	
2310.00	27710	Mid	Left	Tilt	LTE Band 30	F	0422M	10	QPSK	1	25	18.0	17.46	0	-0.01	1.1	0.546	1.132	0.618	AI4
2310.00	27710	Mid	Left	Tilt	LTE Band 30	F	0422M	10	QPSK	25	12	18.0	17.44	0	-0.04	1.1	0.527	1.138	0.600	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-15
LTE Band 7 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY		Side	Test Position	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
2535.00	21100	Mid	Right	Cheek	LTE Band 7	B	0182M	20	QPSK	1	50	24.0	22.84	0	0.03	1:1	0.028	1.306	0.037	
2535.00	21100	Mid	Right	Cheek	LTE Band 7	B	0182M	20	QPSK	50	50	23.0	21.73	1	0.20	1:1	0.016	1.340	0.021	
2535.00	21100	Mid	Right	Tilt	LTE Band 7	B	0182M	20	QPSK	1	50	24.0	22.84	0	0.08	1:1	0.025	1.306	0.033	
2535.00	21100	Mid	Right	Tilt	LTE Band 7	B	0182M	20	QPSK	50	50	23.0	21.73	1	-0.17	1:1	0.023	1.340	0.031	
2535.00	21100	Mid	Left	Cheek	LTE Band 7	B	0182M	20	QPSK	1	50	24.0	22.84	0	0.04	1:1	0.033	1.306	0.043	
2535.00	21100	Mid	Left	Cheek	LTE Band 7	B	0182M	20	QPSK	50	50	23.0	21.73	1	-0.17	1:1	0.023	1.340	0.031	
2535.00	21100	Mid	Left	Tilt	LTE Band 7	B	0182M	20	QPSK	1	50	24.0	22.84	0	0.08	1:1	0.023	1.306	0.030	
2535.00	21100	Mid	Left	Tilt	LTE Band 7	B	0182M	20	QPSK	50	50	23.0	21.73	1	0.11	1:1	0.021	1.340	0.028	
2510.00	20850	Low	Right	Cheek	LTE Band 7	F	1559M	20	QPSK	1	0	17.0	16.39	0	-0.01	1:1	0.674	1.151	0.776	
2510.00	20850	Low	Right	Cheek	LTE Band 7	F	1559M	20	QPSK	50	0	17.0	16.38	0	0.02	1:1	0.683	1.153	0.787	
2535.00	21100	Mid	Right	Cheek	LTE Band 7	F	1559M	20	QPSK	50	0	17.0	15.97	0	-0.04	1:1	0.523	1.268	0.663	
2560.00	21350	High	Right	Cheek	LTE Band 7	F	1559M	20	QPSK	50	50	17.0	15.98	0	0.01	1:1	0.484	1.265	0.612	
2510.00	20850	Low	Right	Cheek	LTE Band 7	F	1559M	20	QPSK	100	0	17.0	16.24	0	-0.01	1:1	0.674	1.191	0.803	
2510.00	20850	Low	Right	Tilt	LTE Band 7	F	1559M	20	QPSK	1	0	17.0	16.39	0	0.02	1:1	0.673	1.151	0.775	
2510.00	20850	Low	Right	Tilt	LTE Band 7	F	1559M	20	QPSK	50	0	17.0	16.38	0	-0.01	1:1	0.689	1.153	0.794	A15
2535.00	21100	Mid	Right	Tilt	LTE Band 7	F	1559M	20	QPSK	50	0	17.0	15.97	0	-0.01	1:1	0.644	1.268	0.817	
2560.00	21350	High	Right	Tilt	LTE Band 7	F	1559M	20	QPSK	50	50	17.0	15.98	0	0.00	1:1	0.632	1.265	0.799	
2510.00	20850	Low	Right	Tilt	LTE Band 7	F	1559M	20	QPSK	100	0	17.0	16.24	0	0.02	1:1	0.681	1.191	0.811	
2510.00	20850	Low	Left	Cheek	LTE Band 7	F	1559M	20	QPSK	1	0	17.0	16.39	0	0.08	1:1	0.324	1.151	0.373	
2510.00	20850	Low	Left	Cheek	LTE Band 7	F	1559M	20	QPSK	50	0	17.0	16.38	0	0.07	1:1	0.325	1.153	0.375	
2510.00	20850	Low	Left	Tilt	LTE Band 7	F	1559M	20	QPSK	1	0	17.0	16.39	0	-0.02	1:1	0.374	1.151	0.430	
2510.00	20850	Low	Left	Tilt	LTE Band 7	F	1559M	20	QPSK	50	0	17.0	16.38	0	0.03	1:1	0.379	1.153	0.437	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Head											
Spatial Peak									1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population									averaged over 1 gram											

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Table 11-16
LTE Band 41 Head SAR

MEASUREMENT RESULTS																					
# CC Uplink - Power Class	Component Carrier	FREQUENCY		Side	Test Position	Mode	Antenna Config.	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.														(W/kg)		(W/kg)		
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Right	Cheek	LTE Band 41	B	20	QPSK	1	99	25.0	24.07	0	-0.04	1.158	0.016	1.239	0.020	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Right	Cheek	LTE Band 41	B	20	QPSK	50	25	24.0	23.17	1	0.14	1.158	0.017	1.211	0.021	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Right	Tilt	LTE Band 41	B	20	QPSK	1	99	25.0	24.07	0	0.16	1.158	0.018	1.239	0.022	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Right	Tilt	LTE Band 41	B	20	QPSK	50	25	24.0	23.17	1	0.01	1.158	0.013	1.211	0.016	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Left	Cheek	LTE Band 41	B	20	QPSK	1	99	25.0	24.07	0	-0.07	1.158	0.027	1.239	0.033	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Left	Cheek	LTE Band 41	B	20	QPSK	50	25	24.0	23.17	1	-0.10	1.158	0.022	1.211	0.027	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	Left	Cheek	LTE Band 41	B	20	QPSK	1	99	26.6	25.82	0	0.06	1.231	0.025	1.197	0.030	
2 CC Uplink - Power Class 3	PCC	2593.00	40620	Mid	Left	Cheek	LTE Band 41	B	20	QPSK	1	99	25.0	24.15	0	0.02	1.158	0.027	1.216	0.033	
	SCC	2612.80	40818									0									
2 CC Uplink - Power Class 2	PCC	2593.00	40620	Mid	Left	Cheek	LTE Band 41	B	20	QPSK	1	99	26.6	25.91	0	0.01	1.231	0.027	1.172	0.032	
	SCC	2612.80	40818									0									
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Left	Tilt	LTE Band 41	B	20	QPSK	1	99	25.0	24.07	0	0.09	1.158	0.012	1.239	0.015	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Left	Tilt	LTE Band 41	B	20	QPSK	50	25	24.0	23.17	1	0.03	1.158	0.011	1.211	0.013	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Right	Cheek	LTE Band 41	F	20	QPSK	1	50	20.0	19.59	0	-0.02	1.158	0.612	1.099	0.673	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Right	Cheek	LTE Band 41	F	20	QPSK	1	50	20.0	19.33	0	-0.03	1.158	0.683	1.167	0.797	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Right	Cheek	LTE Band 41	F	20	QPSK	1	99	20.0	19.33	0	-0.04	1.158	0.669	1.167	0.781	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	Right	Cheek	LTE Band 41	F	20	QPSK	1	99	20.0	19.44	0	0.00	1.158	0.512	1.138	0.583	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Right	Cheek	LTE Band 41	F	20	QPSK	1	99	20.0	19.34	0	-0.02	1.158	0.484	1.164	0.563	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Right	Cheek	LTE Band 41	F	20	QPSK	50	0	20.0	19.58	0	0.00	1.158	0.600	1.102	0.661	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Right	Cheek	LTE Band 41	F	20	QPSK	50	25	20.0	19.41	0	0.01	1.158	0.683	1.146	0.783	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Right	Cheek	LTE Band 41	F	20	QPSK	50	25	20.0	19.40	0	-0.02	1.158	0.552	1.148	0.634	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	Right	Cheek	LTE Band 41	F	20	QPSK	50	50	20.0	19.48	0	-0.01	1.158	0.521	1.127	0.587	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Right	Cheek	LTE Band 41	F	20	QPSK	50	25	20.0	19.41	0	-0.01	1.158	0.617	1.146	0.707	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	Right	Cheek	LTE Band 41	F	20	QPSK	100	0	20.0	19.43	0	0.09	1.158	0.629	1.140	0.717	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Right	Tilt	LTE Band 41	F	20	QPSK	1	50	20.0	19.59	0	0.01	1.158	1.020	1.099	1.121	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Right	Tilt	LTE Band 41	F	20	QPSK	1	50	20.0	19.33	0	-0.08	1.158	0.874	1.167	1.020	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Right	Tilt	LTE Band 41	F	20	QPSK	1	99	20.0	19.33	0	0.04	1.158	0.863	1.167	1.007	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	Right	Tilt	LTE Band 41	F	20	QPSK	1	99	20.0	19.44	0	-0.04	1.158	0.848	1.138	0.965	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Right	Tilt	LTE Band 41	F	20	QPSK	1	99	20.0	19.34	0	0.14	1.158	0.899	1.164	1.046	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Right	Tilt	LTE Band 41	F	20	QPSK	50	0	20.0	19.58	0	-0.04	1.158	1.020	1.102	1.124	A16
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Right	Tilt	LTE Band 41	F	20	QPSK	50	50	20.0	19.42	0	-0.03	1.158	0.973	1.143	1.112	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Right	Tilt	LTE Band 41	F	20	QPSK	50	25	20.0	19.41	0	-0.04	1.158	0.896	1.146	1.027	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Right	Tilt	LTE Band 41	F	20	QPSK	50	25	20.0	19.40	0	-0.03	1.158	0.883	1.148	1.014	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	Right	Tilt	LTE Band 41	F	20	QPSK	50	50	20.0	19.48	0	-0.06	1.158	0.848	1.127	0.956	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Right	Tilt	LTE Band 41	F	20	QPSK	50	25	20.0	19.41	0	0.03	1.158	0.934	1.146	1.070	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	Right	Tilt	LTE Band 41	F	20	QPSK	100	0	20.0	19.43	0	-0.10	1.158	0.830	1.140	0.946	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	Right	Tilt	LTE Band 41	F	20	QPSK	50	0	21.6	21.24	0	-0.01	1.231	1.010	1.086	1.097	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	Right	Tilt	LTE Band 41	F	20	QPSK	50	50	21.6	21.16	0	0.01	1.231	0.973	1.107	1.077	
2 CC Uplink - Power Class 3	PCC	2506.00	39750	Low	Right	Tilt	LTE Band 41	F	20	QPSK	50	50	20.0	19.42	0	-0.01	1.158	0.972	1.143	1.111	
	SCC	2525.80	39948									0									
2 CC Uplink - Power Class 2	PCC	2506.00	39750	Low	Right	Tilt	LTE Band 41	F	20	QPSK	50	50	21.6	21.16	0	-0.04	1.231	0.975	1.107	1.079	
	SCC	2525.80	39948									0									
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Left	Cheek	LTE Band 41	F	20	QPSK	1	50	20.0	19.59	0	0.00	1.158	0.454	1.099	0.499	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Left	Cheek	LTE Band 41	F	20	QPSK	50	0	20.0	19.58	0	-0.01	1.158	0.461	1.102	0.508	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Left	Tilt	LTE Band 41	F	20	QPSK	1	50	20.0	19.59	0	0.00	1.158	0.453	1.099	0.498	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Left	Tilt	LTE Band 41	F	20	QPSK	50	0	20.0	19.58	0	0.05	1.158	0.462	1.102	0.509	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Right	Tilt	LTE Band 41	F	20	QPSK	50	0	20.0	19.58	0	-0.01	1.158	1.020	1.102	1.124	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Right	Tilt	LTE Band 41	F	20	QPSK	50	25	20.0	19.41	0	0.02	1.158	0.873	1.146	1.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Note: Blue entry represents variability measurement.

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Table 11-17
LTE Band 48 Head SAR

MEASUREMENT RESULTS																						
# CC Uplink	Component Carrier	FREQUENCY			Side	Test Position	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
		MHz	Ch.	(W/kg)															(W/kg)			
1 CC Uplink	N/A	3560.00	55340	Low	Right	Cheek	LTE Band 48	G	1533M	20	QPSK	1	99	19.0	18.39	0	-0.01	1.158	0.562	1.151	0.647	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Right	Cheek	LTE Band 48	G	1533M	20	QPSK	1	99	19.0	18.31	0	0.03	1.158	0.547	1.173	0.642	
1 CC Uplink	N/A	3646.70	56207	Mid-High	Right	Cheek	LTE Band 48	G	1533M	20	QPSK	1	50	19.0	18.19	0	-0.02	1.158	0.564	1.205	0.680	
1 CC Uplink	N/A	3646.70	56207	Mid-High	Right	Cheek	LTE Band 48	G	1533M	20	QPSK	1	99	19.0	18.16	0	0.00	1.158	0.540	1.214	0.656	
1 CC Uplink	N/A	3690.00	56640	High	Right	Cheek	LTE Band 48	G	1533M	20	QPSK	1	50	19.0	18.08	0	-0.01	1.158	0.534	1.237	0.661	
1 CC Uplink	N/A	3560.00	55340	Low	Right	Cheek	LTE Band 48	G	1533M	20	QPSK	50	50	19.0	18.44	0	-0.01	1.158	0.553	1.138	0.629	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Right	Cheek	LTE Band 48	G	1533M	20	QPSK	50	50	19.0	18.43	0	0.02	1.158	0.578	1.140	0.659	A17
1 CC Uplink	N/A	3646.70	56207	Mid-High	Right	Cheek	LTE Band 48	G	1533M	20	QPSK	50	25	19.0	18.31	0	0.00	1.158	0.576	1.173	0.676	
1 CC Uplink	N/A	3690.00	56640	High	Right	Cheek	LTE Band 48	G	1533M	20	QPSK	50	50	19.0	18.18	0	0.00	1.158	0.546	1.206	0.658	
1 CC Uplink	N/A	3560.00	55340	Low	Right	Cheek	LTE Band 48	G	1533M	20	QPSK	100	0	19.0	18.38	0	0.09	1.158	0.562	1.153	0.648	
2 CC Uplink	PCC	3646.70	56207	Mid-High	Right	Cheek	LTE Band 48	G	1533M	20	QPSK	1	99	19.0	18.28	0	0.00	1.158	0.541	1.180	0.638	
	SCC	3666.50	56405										0									
1 CC Uplink	N/A	3560.00	55340	Low	Right	Tilt	LTE Band 48	G	1533M	20	QPSK	1	99	19.0	18.39	0	0.05	1.158	0.502	1.151	0.578	
1 CC Uplink	N/A	3560.00	55340	Low	Right	Tilt	LTE Band 48	G	1533M	20	QPSK	50	50	19.0	18.44	0	0.00	1.158	0.523	1.138	0.595	
1 CC Uplink	N/A	3560.00	55340	Low	Left	Cheek	LTE Band 48	G	1533M	20	QPSK	1	99	19.0	18.39	0	0.01	1.158	0.131	1.151	0.151	
1 CC Uplink	N/A	3560.00	55340	Low	Left	Cheek	LTE Band 48	G	1533M	20	QPSK	50	50	19.0	18.44	0	0.05	1.158	0.137	1.138	0.156	
1 CC Uplink	N/A	3560.00	55340	Low	Left	Tilt	LTE Band 48	G	1533M	20	QPSK	1	99	19.0	18.39	0	0.01	1.158	0.154	1.151	0.177	
1 CC Uplink	N/A	3560.00	55340	Low	Left	Tilt	LTE Band 48	G	1533M	20	QPSK	50	50	19.0	18.44	0	-0.04	1.158	0.155	1.138	0.176	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

Table 11-18
NR Band n71 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPRR[dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
680.50	136100	Mid	Right	Cheek	NR Band n71	A	132	0176M	20	DFT-S-OFDM	QPSK	1	53	25.5	24.03	0	0.00	1.1	0.109	1.403	0.153	A18
680.50	136100	Mid	Right	Cheek	NR Band n71	A	132	0176M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.14	0	-0.02	1.1	0.093	1.368	0.127	
680.50	136100	Mid	Right	Cheek	NR Band n71	A	132	0176M	20	CP-OFDM	QPSK	1	1	24.0	22.48	1.5	0.10	1.1	0.064	1.419	0.091	
680.50	136100	Mid	Right	Tilt	NR Band n71	A	3	0176M	20	DFT-S-OFDM	QPSK	1	53	25.5	24.03	0	0.04	1.1	0.054	1.403	0.076	
680.50	136100	Mid	Right	Tilt	NR Band n71	A	3	0176M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.14	0	-0.02	1.1	0.048	1.368	0.066	
680.50	136100	Mid	Left	Cheek	NR Band n71	A	132	0176M	20	DFT-S-OFDM	QPSK	1	53	25.5	24.03	0	0.00	1.1	0.102	1.403	0.143	
680.50	136100	Mid	Left	Cheek	NR Band n71	A	132	0176M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.14	0	-0.01	1.1	0.084	1.368	0.115	
680.50	136100	Mid	Left	Tilt	NR Band n71	A	3	0176M	20	DFT-S-OFDM	QPSK	1	53	25.5	24.03	0	-0.10	1.1	0.035	1.403	0.049	
680.50	136100	Mid	Left	Tilt	NR Band n71	A	3	0176M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.14	0	-0.04	1.1	0.033	1.368	0.045	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

Table 11-19
NR Band n12 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR [1g]	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
707.50	141500	Mid	Right	Cheek	NR Band n12	A	132	0176M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.01	0	0.04	1.1	0.127	1.409	0.179	
707.50	141500	Mid	Right	Cheek	NR Band n12	A	132	0176M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.09	0	0.12	1.1	0.127	1.384	0.176	
707.50	141500	Mid	Right	Tilt	NR Band n12	A	132	0176M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.01	0	-0.18	1.1	0.089	1.409	0.125	
707.50	141500	Mid	Right	Tilt	NR Band n12	A	132	0176M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.09	0	-0.08	1.1	0.083	1.384	0.115	
707.50	141500	Mid	Left	Cheek	NR Band n12	A	132	0176M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.01	0	0.11	1.1	0.111	1.409	0.156	
707.50	141500	Mid	Left	Cheek	NR Band n12	A	132	0176M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.09	0	0.01	1.1	0.134	1.384	0.185	A19
707.50	141500	Mid	Left	Cheek	NR Band n12	A	132	0176M	15	CP-OFDM	QPSK	1	1	24.0	22.61	1.5	0.01	1.1	0.073	1.377	0.101	
707.50	141500	Mid	Left	Tilt	NR Band n12	A	132	0176M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.01	0	-0.01	1.1	0.075	1.409	0.106	
707.50	141500	Mid	Left	Tilt	NR Band n12	A	132	0176M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.09	0	0.03	1.1	0.062	1.384	0.086	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

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Table 11-20
NR Band n26 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
831.50	166300	Mid	Right	Cheek	NR Band n26	A	1	0176M	20	DFT-S-OFDM	QPSK	1	1	25.5	24.13	0	0.00	1:1	0.121	1.371	0.166	
831.50	166300	Mid	Right	Cheek	NR Band n26	A	1	0176M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.24	0	0.05	1:1	0.128	1.337	0.171	
831.50	166300	Mid	Right	Tilt	NR Band n26	A	3	0176M	20	DFT-S-OFDM	QPSK	1	1	25.5	24.13	0	-0.08	1:1	0.107	1.371	0.147	
831.50	166300	Mid	Right	Tilt	NR Band n26	A	3	0176M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.24	0	0.03	1:1	0.103	1.337	0.138	
831.50	166300	Mid	Left	Cheek	NR Band n26	A	3	0176M	20	DFT-S-OFDM	QPSK	1	1	25.5	24.13	0	0.02	1:1	0.175	1.371	0.240	
831.50	166300	Mid	Left	Cheek	NR Band n26	A	3	0176M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.24	0	-0.11	1:1	0.182	1.337	0.243	A20
831.50	166300	Mid	Left	Cheek	NR Band n26	A	0	0176M	20	CP-OFDM	QPSK	1	1	24.0	22.68	1.5	0.07	1:1	0.100	1.355	0.136	
831.50	166300	Mid	Left	Tilt	NR Band n26	A	0	0176M	20	DFT-S-OFDM	QPSK	1	1	25.5	24.13	0	-0.19	1:1	0.104	1.371	0.143	
831.50	166300	Mid	Left	Tilt	NR Band n26	A	0	0176M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.24	0	0.02	1:1	0.107	1.337	0.143	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

Table 11-21
NR Band n66 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
1745.00	349000	Mid	Right	Cheek	NR Band n66	A	133	0163M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.00	0	0.00	1:1	0.144	1.122	0.162	
1745.00	349000	Mid	Right	Cheek	NR Band n66	A	133	0163M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	-0.01	1:1	0.135	1.086	0.147	
1745.00	349000	Mid	Right	Cheek	NR Band n66	A	133	0163M	40	CP-OFDM	QPSK	1	1	23.0	22.54	1.5	0.02	1:1	0.105	1.112	0.117	
1745.00	349000	Mid	Right	Tilt	NR Band n66	A	32	0163M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.00	0	0.11	1:1	0.095	1.122	0.107	
1745.00	349000	Mid	Right	Tilt	NR Band n66	A	32	0163M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	0.09	1:1	0.086	1.086	0.093	
1745.00	349000	Mid	Left	Cheek	NR Band n66	A	133	0163M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.00	0	0.05	1:1	0.075	1.122	0.084	
1745.00	349000	Mid	Left	Cheek	NR Band n66	A	133	0163M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	0.06	1:1	0.073	1.086	0.079	
1745.00	349000	Mid	Left	Tilt	NR Band n66	A	133	0163M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.00	0	0.09	1:1	0.096	1.122	0.108	
1745.00	349000	Mid	Left	Tilt	NR Band n66	A	133	0163M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	-0.06	1:1	0.097	1.086	0.105	
1745.00	349000	Mid	Right	Cheek	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	1	1	19.0	18.25	0	0.09	1:1	0.679	1.189	0.807	
1745.00	349000	Mid	Right	Cheek	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	108	108	19.0	18.23	0	0.03	1:1	0.669	1.194	0.799	
1745.00	349000	Mid	Right	Cheek	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	216	0	19.0	18.21	0	0.02	1:1	0.672	1.199	0.806	
1745.00	349000	Mid	Right	Tilt	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	1	1	19.0	18.25	0	-0.04	1:1	0.782	1.189	0.930	
1745.00	349000	Mid	Right	Tilt	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	108	108	19.0	18.23	0	0.12	1:1	0.779	1.194	0.930	
1745.00	349000	Mid	Right	Tilt	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	216	0	19.0	18.21	0	0.08	1:1	0.828	1.199	0.993	A21
1745.00	349000	Mid	Right	Tilt	NR Band n66	F	N/A	1673M	40	CP-OFDM	QPSK	1	1	19.0	18.11	0	0.03	1:1	0.739	1.227	0.907	
1745.00	349000	Mid	Left	Cheek	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	1	1	19.0	18.25	0	0.00	1:1	0.378	1.189	0.449	
1745.00	349000	Mid	Left	Cheek	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	108	108	19.0	18.23	0	-0.02	1:1	0.369	1.194	0.441	
1745.00	349000	Mid	Left	Tilt	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	1	1	19.0	18.25	0	-0.08	1:1	0.609	1.189	0.724	
1745.00	349000	Mid	Left	Tilt	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	108	108	19.0	18.23	0	0.05	1:1	0.553	1.194	0.660	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT											Head											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

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Table 11-22
NR Band n25 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY			Side	Test Position	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																					
1882.50	376500	Mid	Right	Cheek	NR Band n25	A	71	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.44	0	-0.16	1:1	0.072	1.276	0.092	
1882.50	376500	Mid	Right	Cheek	NR Band n25	A	71	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.63	0	-0.06	1:1	0.085	1.222	0.104	
1882.50	376500	Mid	Right	Tilt	NR Band n25	A	71	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.44	0	-0.18	1:1	0.038	1.276	0.046	
1882.50	376500	Mid	Right	Tilt	NR Band n25	A	71	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.63	0	-0.09	1:1	0.041	1.222	0.050	
1882.50	376500	Mid	Left	Cheek	NR Band n25	A	37	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.44	0	-0.19	1:1	0.096	1.276	0.122	
1882.50	376500	Mid	Left	Cheek	NR Band n25	A	65	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.63	0	-0.06	1:1	0.092	1.222	0.112	
1882.50	376500	Mid	Left	Cheek	NR Band n25	A	71	0028M	40	CP-OFDM	QPSK	1	1	23.0	21.61	1.5	0.12	1:1	0.056	1.377	0.077	
1882.50	376500	Mid	Left	Tilt	NR Band n25	A	65	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.44	0	-0.17	1:1	0.064	1.276	0.082	
1882.50	376500	Mid	Left	Tilt	NR Band n25	A	65	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.63	0	0.00	1:1	0.066	1.222	0.081	
1882.50	376500	Mid	Right	Cheek	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	1	108	18.0	17.00	0	0.05	1:1	0.463	1.259	0.583	
1882.50	376500	Mid	Right	Cheek	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	108	54	18.0	17.17	0	0.00	1:1	0.488	1.211	0.591	
1882.50	376500	Mid	Right	Cheek	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	216	0	18.0	17.21	0	-0.02	1:1	0.492	1.199	0.590	
1882.50	376500	Mid	Right	Tilt	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	1	108	18.0	17.00	0	-0.05	1:1	0.523	1.259	0.658	
1882.50	376500	Mid	Right	Tilt	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	108	54	18.0	17.17	0	0.05	1:1	0.536	1.211	0.649	
1882.50	376500	Mid	Right	Tilt	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	216	0	18.0	17.21	0	0.01	1:1	0.533	1.199	0.639	
1882.50	376500	Mid	Right	Tilt	NR Band n25	F	N/A	1623M	40	CP-OFDM	QPSK	1	1	18.0	17.06	0	0.02	1:1	0.541	1.242	0.672	A22
1882.50	376500	Mid	Left	Cheek	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	1	108	18.0	17.00	0	0.00	1:1	0.301	1.259	0.379	
1882.50	376500	Mid	Left	Cheek	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	108	54	18.0	17.17	0	0.02	1:1	0.314	1.211	0.380	
1882.50	376500	Mid	Left	Cheek	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	216	0	18.0	17.21	0	-0.06	1:1	0.320	1.199	0.384	
1882.50	376500	Mid	Left	Tilt	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	1	108	18.0	17.00	0	-0.04	1:1	0.368	1.259	0.463	
1882.50	376500	Mid	Left	Tilt	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	108	54	18.0	17.17	0	0.02	1:1	0.394	1.211	0.477	
1882.50	376500	Mid	Left	Tilt	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	216	0	18.0	17.21	0	0.05	1:1	0.404	1.199	0.484	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Table 11-23
NR Band n30 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR	Plot #	
MHz	Ch.																		(W/kg)		(W/kg)
2310.00	462000	Mid	Right	Cheek	NR Band n30	A	0208M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.37	0	0.08	1:1	0.038	1.297	0.049	
2310.00	462000	Mid	Right	Cheek	NR Band n30	A	0208M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.27	0	0.14	1:1	0.035	1.327	0.046	
2310.00	462000	Mid	Right	Tilt	NR Band n30	A	0208M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.37	0	0.03	1:1	0.035	1.297	0.045	
2310.00	462000	Mid	Right	Tilt	NR Band n30	A	0208M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.27	0	0.02	1:1	0.031	1.327	0.041	
2310.00	462000	Mid	Left	Cheek	NR Band n30	A	0208M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.37	0	0.13	1:1	0.031	1.297	0.040	
2310.00	462000	Mid	Left	Cheek	NR Band n30	A	0208M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.27	0	0.03	1:1	0.033	1.327	0.044	
2310.00	462000	Mid	Left	Tilt	NR Band n30	A	0208M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.37	0	-0.18	1:1	0.049	1.297	0.064	
2310.00	462000	Mid	Left	Tilt	NR Band n30	A	0208M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.27	0	0.04	1:1	0.049	1.327	0.065	
2310.00	462000	Mid	Left	Tilt	NR Band n30	A	0208M	10	CP-OFDM	QPSK	1	1	22.0	20.33	1.5	0.03	1:1	0.031	1.469	0.046	
2310.00	462000	Mid	Right	Cheek	NR Band n30	F	0422M	10	DFT-S-OFDM	QPSK	1	50	18.0	16.79	0	-0.01	1:1	0.478	1.321	0.631	
2310.00	462000	Mid	Right	Cheek	NR Band n30	F	0422M	10	DFT-S-OFDM	QPSK	25	14	18.0	16.88	0	-0.04	1:1	0.481	1.294	0.622	
2310.00	462000	Mid	Right	Tilt	NR Band n30	F	0422M	10	DFT-S-OFDM	QPSK	1	50	18.0	16.79	0	0.00	1:1	0.513	1.321	0.678	
2310.00	462000	Mid	Right	Tilt	NR Band n30	F	0422M	10	DFT-S-OFDM	QPSK	25	14	18.0	16.88	0	-0.03	1:1	0.515	1.294	0.666	A23
2310.00	462000	Mid	Right	Tilt	NR Band n30	F	0422M	10	CP-OFDM	QPSK	1	1	18.0	16.32	0	0.06	1:1	0.539	1.472	0.793	
2310.00	462000	Mid	Left	Cheek	NR Band n30	F	0422M	10	DFT-S-OFDM	QPSK	1	50	18.0	16.79	0	0.02	1:1	0.298	1.321	0.394	
2310.00	462000	Mid	Left	Cheek	NR Band n30	F	0422M	10	DFT-S-OFDM	QPSK	25	14	18.0	16.88	0	0.03	1:1	0.294	1.294	0.380	
2310.00	462000	Mid	Left	Tilt	NR Band n30	F	0422M	10	DFT-S-OFDM	QPSK	1	50	18.0	16.79	0	0.02	1:1	0.402	1.321	0.531	
2310.00	462000	Mid	Left	Tilt	NR Band n30	F	0422M	10	DFT-S-OFDM	QPSK	25	14	18.0	16.88	0	-0.01	1:1	0.408	1.294	0.528	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Head									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

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Table 11-24
NR Band n7 Head SAR

MEASUREMENT RESULTS																		
FREQUENCY			Side	Test Position	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)
MHz	Ch.																	Scaling Factor
2535.00	507000	Mid	Right	Cheek	NR Band n7	B	0208M	40	DFT-S-OFDM	QPSK	1	108	24.0	23.43	0	-0.07	1:1	0.011
2535.00	507000	Mid	Right	Cheek	NR Band n7	B	0208M	40	DFT-S-OFDM	QPSK	108	54	24.0	23.48	0	0.06	1:1	0.020
2535.00	507000	Mid	Right	Tilt	NR Band n7	B	0208M	40	DFT-S-OFDM	QPSK	1	108	24.0	23.43	0	0.04	1:1	0.024
2535.00	507000	Mid	Right	Tilt	NR Band n7	B	0208M	40	DFT-S-OFDM	QPSK	108	54	24.0	23.48	0	0.08	1:1	0.024
2535.00	507000	Mid	Left	Cheek	NR Band n7	B	0208M	40	DFT-S-OFDM	QPSK	1	108	24.0	23.43	0	0.06	1:1	0.047
2535.00	507000	Mid	Left	Cheek	NR Band n7	B	0208M	40	DFT-S-OFDM	QPSK	108	54	24.0	23.48	0	0.07	1:1	0.045
2535.00	507000	Mid	Left	Cheek	NR Band n7	B	0208M	40	CP-OFDM	QPSK	1	1	22.5	21.99	1.5	0.17	1:1	0.029
2535.00	507000	Mid	Left	Tilt	NR Band n7	B	0208M	40	DFT-S-OFDM	QPSK	1	108	24.0	23.43	0	0.01	1:1	0.022
2535.00	507000	Mid	Left	Tilt	NR Band n7	B	0208M	40	DFT-S-OFDM	QPSK	108	54	24.0	23.48	0	0.07	1:1	0.026
2535.00	507000	Mid	Right	Cheek	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	1	1	17.0	16.29	0	0.09	1:1	0.470
2535.00	507000	Mid	Right	Cheek	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	108	0	17.0	16.34	0	-0.02	1:1	0.468
2535.00	507000	Mid	Right	Tilt	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	1	1	17.0	16.29	0	0.04	1:1	0.841
2535.00	507000	Mid	Right	Tilt	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	108	0	17.0	16.34	0	0.00	1:1	0.867
2535.00	507000	Mid	Right	Tilt	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	216	0	17.0	16.28	0	-0.02	1:1	0.852
2535.00	507000	Mid	Right	Tilt	NR Band n7	F	1673M	40	CP-OFDM	QPSK	1	1	17.0	16.27	0	-0.03	1:1	0.884
2535.00	507000	Mid	Left	Cheek	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	1	1	17.0	16.29	0	-0.02	1:1	0.404
2535.00	507000	Mid	Left	Cheek	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	108	0	17.0	16.34	0	0.00	1:1	0.413
2535.00	507000	Mid	Left	Tilt	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	1	1	17.0	16.29	0	-0.06	1:1	0.407
2535.00	507000	Mid	Left	Tilt	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	108	0	17.0	16.34	0	-0.02	1:1	0.417
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram								

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Table 11-25
NR Band n41 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	Mode	Antenna Config	Path	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
MHz	Ch																	(W/kg)		(W/kg)		
2592.99	518598	Mid	Right	Cheek	NR Band n41	F	Path 1	1665M	100	DFT-S-OFDM	QPSK	1	137	18.0	17.31	0	0.07	1:1	0.678	1.172	0.795	
2592.99	518598	Mid	Right	Cheek	NR Band n41	F	Path 1	1665M	100	DFT-S-OFDM	QPSK	135	69	18.0	17.32	0	-0.01	1:1	0.691	1.169	0.808	
2592.99	518598	Mid	Right	Cheek	NR Band n41	F	Path 1	1665M	100	DFT-S-OFDM	QPSK	270	0	18.0	17.30	0	0.05	1:1	0.688	1.175	0.808	
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	Path 1	1665M	100	DFT-S-OFDM	QPSK	1	137	18.0	17.31	0	0.02	1:1	0.823	1.172	0.965	
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	Path 1	1665M	100	DFT-S-OFDM	QPSK	135	69	18.0	17.32	0	-0.01	1:1	0.847	1.169	0.990	
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	Path 1	1665M	100	DFT-S-OFDM	QPSK	270	0	18.0	17.30	0	0.10	1:1	0.857	1.175	1.007	
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	Path 1	1665M	100	CP-OFDM	QPSK	1	1	18.0	17.05	0	0.01	1:1	0.875	1.245	1.089	A25
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	Path 2	1665M	100	CW/RSR	N/A	N/A	N/A	17.0	15.10	N/A	0.02	1:1	0.413	1.549	0.640	
2592.99	518598	Mid	Left	Cheek	NR Band n41	F	Path 1	1665M	100	DFT-S-OFDM	QPSK	1	137	18.0	17.31	0	0.05	1:1	0.292	1.172	0.342	
2592.99	518598	Mid	Left	Cheek	NR Band n41	F	Path 1	1665M	100	DFT-S-OFDM	QPSK	135	69	18.0	17.32	0	0.04	1:1	0.295	1.169	0.345	
2592.99	518598	Mid	Left	Tilt	NR Band n41	F	Path 1	1665M	100	DFT-S-OFDM	QPSK	1	137	18.0	17.31	0	0.13	1:1	0.357	1.172	0.418	
2592.99	518598	Mid	Left	Tilt	NR Band n41	F	Path 1	1665M	100	DFT-S-OFDM	QPSK	135	69	18.0	17.32	0	0.02	1:1	0.364	1.169	0.426	
2592.99	518598	Mid	Right	Cheek	NR Band n41	B	Path 2	1665M	100	DFT-S-OFDM	QPSK	1	137	18.0	17.12	0	0.03	1:1	0.005	1.225	0.006	
2592.99	518598	Mid	Right	Cheek	NR Band n41	B	Path 2	1665M	100	DFT-S-OFDM	QPSK	135	69	18.0	17.09	0	0.17	1:1	0.004	1.233	0.005	
2592.99	518598	Mid	Right	Tilt	NR Band n41	B	Path 2	1665M	100	DFT-S-OFDM	QPSK	1	137	18.0	17.12	0	0.09	1:1	0.009	1.225	0.000	
2592.99	518598	Mid	Right	Tilt	NR Band n41	B	Path 2	1665M	100	DFT-S-OFDM	QPSK	135	69	18.0	17.09	0	0.06	1:1	0.000	1.233	0.000	
2592.99	518598	Mid	Left	Cheek	NR Band n41	B	Path 2	1665M	100	DFT-S-OFDM	QPSK	1	137	18.0	17.12	0	0.01	1:1	0.005	1.225	0.006	
2592.99	518598	Mid	Left	Cheek	NR Band n41	B	Path 2	1665M	100	DFT-S-OFDM	QPSK	135	69	18.0	17.09	0	0.03	1:1	0.006	1.233	0.007	
2592.99	518598	Mid	Left	Cheek	NR Band n41	B	Path 2	1665M	100	CP-OFDM	QPSK	1	1	18.0	16.90	0	-0.13	1:1	0.005	1.288	0.006	
2592.99	518598	Mid	Left	Cheek	NR Band n41	B	Path 1	1665M	100	CW/RSR	N/A	N/A	N/A	16.0	15.01	N/A	0.04	1:1	0.001	1.256	0.001	
2592.99	518598	Mid	Left	Tilt	NR Band n41	B	Path 2	1665M	100	DFT-S-OFDM	QPSK	1	137	18.0	17.12	0	0.20	1:1	0.002	1.225	0.002	
2592.99	518598	Mid	Left	Tilt	NR Band n41	B	Path 2	1665M	100	DFT-S-OFDM	QPSK	135	69	18.0	17.09	0	-0.02	1:1	0.001	1.233	0.001	
2592.99	518598	Mid	Right	Cheek	NR Band n41	E	Path 1	1665M	100	CW/RSR	N/A	N/A	N/A	14.0	13.05	N/A	0.05	1:1	0.266	1.245	0.331	
2592.99	518598	Mid	Right	Tilt	NR Band n41	E	Path 1	1665M	100	CW/RSR	N/A	N/A	N/A	14.0	13.05	N/A	0.08	1:1	0.195	1.245	0.243	
2592.99	518598	Mid	Left	Cheek	NR Band n41	E	Path 1	1665M	100	CW/RSR	N/A	N/A	N/A	14.0	13.05	N/A	0.04	1:1	0.377	1.245	0.469	
2592.99	518598	Mid	Left	Cheek	NR Band n41	E	Path 2	1665M	100	CW/RSR	N/A	N/A	N/A	13.5	12.08	N/A	0.06	1:1	0.292	1.387	0.405	
2592.99	518598	Mid	Left	Tilt	NR Band n41	E	Path 1	1665M	100	CW/RSR	N/A	N/A	N/A	14.0	13.05	N/A	0.05	1:1	0.290	1.245	0.361	
2592.99	518598	Mid	Right	Cheek	NR Band n41	D	Path 1	1665M	100	CW/RSR	N/A	N/A	N/A	16.5	14.71	N/A	0.19	1:1	0.000	1.510	0.000	
2592.99	518598	Mid	Right	Cheek	NR Band n41	D	Path 2	1665M	100	CW/RSR	N/A	N/A	N/A	15.5	14.16	N/A	0.00	1:1	0.000	1.361	0.000	
2592.99	518598	Mid	Right	Tilt	NR Band n41	D	Path 1	1665M	100	CW/RSR	N/A	N/A	N/A	16.5	14.71	N/A	0.19	1:1	0.000	1.510	0.000	
2592.99	518598	Mid	Left	Cheek	NR Band n41	D	Path 1	1665M	100	CW/RSR	N/A	N/A	N/A	16.5	14.71	N/A	0.00	1:1	0.000	1.510	0.000	
2592.99	518598	Mid	Left	Tilt	NR Band n41	D	Path 1	1665M	100	CW/RSR	N/A	N/A	N/A	16.5	14.71	N/A	0.12	1:1	0.000	1.510	0.000	
ANSI / IEEE C63.1 1992 - SAFETY LIMIT										Head												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Note: Light purple entries indicate the additional check on the worst case exposure scenario for the n41 pathway that is not fully evaluated.

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Table 11-26
NR Band n48 Head SAR

MEASUREMENT RESULTS																			
FREQUENCY			Side	Test Position	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Reported SAR (1g)
MHz	Ch.																	(W/kg)	(W/kg)
3570.00	638000	Low	Right	Cheek	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	1	1	17.0	16.30	0	0.01	1:1	0.688	0.808
3624.99	641666	Mid	Right	Cheek	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	1	104	17.0	16.27	0	0.02	1:1	0.651	0.770
3679.98	645332	High	Right	Cheek	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	1	104	17.0	16.24	0	-0.02	1:1	0.493	0.587
3570.00	638000	Low	Right	Cheek	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	50	0	17.0	16.27	0	0.02	1:1	0.609	0.720
3624.99	641666	Mid	Right	Cheek	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	50	0	17.0	16.17	0	0.07	1:1	0.531	0.643
3679.98	645332	High	Right	Cheek	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	50	56	17.0	16.12	0	0.07	1:1	0.507	0.621
3570.00	638000	Low	Right	Cheek	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	100	0	17.0	16.15	0	-0.04	1:1	0.548	0.666
3570.00	638000	Low	Right	Cheek	NR Band n48	G	1626M	40	CP-OFDM	QPSK	1	1	17.0	16.25	0	0.01	1:1	0.513	0.610
3570.00	638000	Low	Right	Tilt	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	1	1	17.0	16.30	0	-0.02	1:1	0.508	0.597
3624.99	641666	Mid	Right	Tilt	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	1	104	17.0	16.27	0	0.01	1:1	0.495	0.586
3679.98	645332	High	Right	Tilt	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	1	104	17.0	16.24	0	0.04	1:1	0.456	0.543
3570.00	638000	Low	Right	Tilt	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	50	0	17.0	16.27	0	-0.03	1:1	0.498	0.589
3624.99	641666	Mid	Right	Tilt	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	50	0	17.0	16.17	0	0.03	1:1	0.502	0.608
3679.98	645332	High	Right	Tilt	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	50	56	17.0	16.12	0	-0.09	1:1	0.466	0.571
3570.00	638000	Low	Right	Tilt	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	100	0	17.0	16.15	0	0.04	1:1	0.491	0.597
3570.00	638000	Low	Left	Cheek	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	1	1	17.0	16.30	0	0.09	1:1	0.146	0.172
3570.00	638000	Low	Left	Cheek	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	50	0	17.0	16.27	0	0.12	1:1	0.143	0.169
3570.00	638000	Low	Left	Tilt	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	1	1	17.0	16.30	0	0.15	1:1	0.175	0.206
3570.00	638000	Low	Left	Tilt	NR Band n48	G	1626M	40	DFT-S-OFDM	QPSK	50	0	17.0	16.27	0	0.14	1:1	0.178	0.211
3624.99	641666	Mid	Right	Cheek	NR Band n48	C	1626M	40	CW/SSRS	N/A	N/A	N/A	12.5	11.76	N/A	0.02	1:1	0.008	0.009
3624.99	641666	Mid	Right	Tilt	NR Band n48	C	1626M	40	CW/SSRS	N/A	N/A	N/A	12.5	11.76	N/A	0.08	1:1	0.003	0.004
3624.99	641666	Mid	Left	Cheek	NR Band n48	C	1626M	40	CW/SSRS	N/A	N/A	N/A	12.5	11.76	N/A	0.07	1:1	0.002	0.002
3624.99	641666	Mid	Left	Tilt	NR Band n48	C	1626M	40	CW/SSRS	N/A	N/A	N/A	12.5	11.76	N/A	0.20	1:1	0.000	0.000
3570.00	638000	Low	Right	Cheek	NR Band n48	I	1626M	40	CW/SSRS	N/A	N/A	N/A	14.5	13.69	N/A	-0.03	1:1	0.217	0.261
3570.00	638000	Low	Right	Tilt	NR Band n48	I	1626M	40	CW/SSRS	N/A	N/A	N/A	14.5	13.69	N/A	0.02	1:1	0.031	0.037
3570.00	638000	Low	Left	Cheek	NR Band n48	I	1626M	40	CW/SSRS	N/A	N/A	N/A	14.5	13.69	N/A	0.00	1:1	0.249	0.300
3570.00	638000	Low	Left	Tilt	NR Band n48	I	1626M	40	CW/SSRS	N/A	N/A	N/A	14.5	13.69	N/A	0.20	1:1	0.040	0.048
3624.99	641666	Mid	Right	Cheek	NR Band n48	D	1626M	40	CW/SSRS	N/A	N/A	N/A	12.5	11.88	N/A	0.06	1:1	0.000	0.000
3624.99	641666	Mid	Right	Tilt	NR Band n48	D	1626M	40	CW/SSRS	N/A	N/A	N/A	12.5	11.88	N/A	0.20	1:1	0.000	0.000
3624.99	641666	Mid	Left	Cheek	NR Band n48	D	1626M	40	CW/SSRS	N/A	N/A	N/A	12.5	11.88	N/A	0.04	1:1	0.000	0.000
3624.99	641666	Mid	Left	Tilt	NR Band n48	D	1626M	40	CW/SSRS	N/A	N/A	N/A	12.5	11.88	N/A	0.20	1:1	0.000	0.000
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head									
Spatial Peak										1.6 W/kg (mW/kg)									
Uncontrolled Exposure/General Population										averaged over 1 gram									

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Table 11-27
NR Band n77 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Antenna Config	Serial Number	Bands/dBm	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
3500.01	633334	Mid	Right	Tilt	NR Band n77 DoD	G	1651M	100	DFT-S-OFDM	QPSK	1	271	19.0	18.42	0	-0.01	1:1	0.582	1.143	0.665	A27
3500.01	633334	Mid	Left	Tilt	NR Band n77 DoD	C	1651M	100	CW/RSRS	N/A	N/A	N/A	15.0	13.96	N/A	-0.20	1:1	0.021	1.271	0.027	
3500.01	633334	Mid	Left	Cheek	NR Band n77 DoD	I	1651M	100	CW/RSRS	N/A	N/A	N/A	18.0	16.11	N/A	0.00	1:1	0.337	1.545	0.521	
3500.01	633334	Mid	Left	Tilt	NR Band n77 DoD	D	1651M	100	CW/RSRS	N/A	N/A	N/A	15.5	13.66	N/A	0.03	1:1	0.000	1.528	0.000	
3750.00	650000	Low	Right	Cheek	NR Band n77	G	1626M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.74	0	0.00	1:1	0.703	1.062	0.747	
3930.00	662000	High	Right	Cheek	NR Band n77	G	1626M	100	DFT-S-OFDM	QPSK	1	137	19.0	18.53	0	-0.05	1:1	0.573	1.114	0.638	
3750.00	650000	Low	Right	Cheek	NR Band n77	G	1626M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.71	0	0.03	1:1	0.608	1.069	0.650	
3930.00	662000	High	Right	Cheek	NR Band n77	G	1626M	100	DFT-S-OFDM	QPSK	135	69	19.0	18.57	0	0.02	1:1	0.591	1.104	0.652	
3750.00	650000	Low	Right	Cheek	NR Band n77	G	1626M	100	DFT-S-OFDM	QPSK	270	0	19.0	18.57	0	0.02	1:1	0.635	1.104	0.701	
3750.00	650000	Low	Right	Tilt	NR Band n77	G	1626M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.74	0	0.04	1:1	0.732	1.062	0.777	A28
3930.00	662000	High	Right	Tilt	NR Band n77	G	1626M	100	DFT-S-OFDM	QPSK	1	137	19.0	18.53	0	-0.02	1:1	0.458	1.114	0.510	
3750.00	650000	Low	Right	Tilt	NR Band n77	G	1626M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.71	0	-0.01	1:1	0.697	1.069	0.745	
3930.00	662000	High	Right	Tilt	NR Band n77	G	1626M	100	DFT-S-OFDM	QPSK	135	69	19.0	18.57	0	-0.02	1:1	0.462	1.104	0.510	
3750.00	650000	Low	Right	Tilt	NR Band n77	G	1626M	100	DFT-S-OFDM	QPSK	270	0	19.0	18.57	0	0.00	1:1	0.620	1.104	0.684	
3750.00	650000	Low	Right	Tilt	NR Band n77	G	1626M	100	CP-OFDM	QPSK	1	1	19.0	18.57	0	0.02	1:1	0.622	1.104	0.687	
3750.00	650000	Low	Left	Cheek	NR Band n77	G	1626M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.74	0	0.01	1:1	0.224	1.062	0.238	
3750.00	650000	Low	Left	Cheek	NR Band n77	G	1626M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.71	0	0.02	1:1	0.235	1.069	0.251	
3750.00	650000	Low	Left	Tilt	NR Band n77	G	1626M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.74	0	-0.05	1:1	0.230	1.062	0.244	
3750.00	650000	Low	Left	Tilt	NR Band n77	G	1626M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.71	0	0.00	1:1	0.262	1.069	0.280	
3750.00	650000	Low	Right	Cheek	NR Band n77	C	1626M	100	CW/RSRS	N/A	N/A	N/A	15.0	14.14	N/A	0.03	1:1	0.004	1.219	0.005	
3750.00	650000	Low	Right	Tilt	NR Band n77	C	1626M	100	CW/RSRS	N/A	N/A	N/A	15.0	14.14	N/A	0.20	1:1	0.003	1.219	0.004	
3750.00	650000	Low	Left	Cheek	NR Band n77	C	1626M	100	CW/RSRS	N/A	N/A	N/A	15.0	14.14	N/A	0.20	1:1	0.000	1.219	0.000	
3750.00	650000	Low	Left	Tilt	NR Band n77	C	1626M	100	CW/RSRS	N/A	N/A	N/A	15.0	14.14	N/A	0.20	1:1	0.004	1.219	0.005	
3750.00	650000	Low	Right	Cheek	NR Band n77	I	1626M	100	CW/RSRS	N/A	N/A	N/A	18.0	16.25	N/A	0.20	1:1	0.124	1.496	0.186	
3750.00	650000	Low	Right	Tilt	NR Band n77	I	1626M	100	CW/RSRS	N/A	N/A	N/A	18.0	16.25	N/A	0.03	1:1	0.017	1.496	0.025	
3750.00	650000	Low	Left	Cheek	NR Band n77	I	1626M	100	CW/RSRS	N/A	N/A	N/A	18.0	16.25	N/A	-0.10	1:1	0.245	1.496	0.367	
3750.00	650000	Low	Left	Tilt	NR Band n77	I	1626M	100	CW/RSRS	N/A	N/A	N/A	18.0	16.25	N/A	0.02	1:1	0.039	1.496	0.058	
3750.00	650000	Low	Right	Cheek	NR Band n77	D	1626M	100	CW/RSRS	N/A	N/A	N/A	15.5	14.36	N/A	0.02	1:1	0.000	1.300	0.000	
3750.00	650000	Low	Right	Tilt	NR Band n77	D	1626M	100	CW/RSRS	N/A	N/A	N/A	15.5	14.36	N/A	0.07	1:1	0.000	1.300	0.000	
3750.00	650000	Low	Left	Cheek	NR Band n77	D	1626M	100	CW/RSRS	N/A	N/A	N/A	15.5	14.36	N/A	0.08	1:1	0.000	1.300	0.000	
3750.00	650000	Low	Left	Tilt	NR Band n77	D	1626M	100	CW/RSRS	N/A	N/A	N/A	15.5	14.36	N/A	0.03	1:1	0.000	1.300	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Head									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

Table 11-28
DTS Head SISO SAR

MEASUREMENT RESULTS																			
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	
2412	1	Right	Cheek	802.11b	DSSS	2	1469M	22	1	16.0	15.74	0.01	100.00	98.90	0.201	1.062	1.011	0.216	
2412	1	Right	Tilt	802.11b	DSSS	2	1469M	22	1	16.0	15.74	-0.02	100.00	98.90	0.024	1.062	1.011	0.026	
2412	1	Left	Cheek	802.11b	DSSS	2	1469M	22	1	16.0	15.74	-0.01	100.00	98.90	0.343	1.062	1.011	0.368	A29
2412	1	Left	Tilt	802.11b	DSSS	2	1469M	22	1	16.0	15.74	-0.06	100.00	98.90	0.037	1.062	1.011	0.040	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head								
Spatial Peak											1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population											averaged over 1 gram								

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Table 11-29
DTS Head MIMO SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot
MHz	Ch.																(W/kg)			(W/kg)	
2437	6	Right	Cheek	802.11n	OFDM	MIMO	1469M	20	13	16.0	15.41	16.0	15.58	0.00	100.00	92.20	0.161	1.146	1.085	0.200	
2437	6	Right	Tilt	802.11n	OFDM	MIMO	1469M	20	13	16.0	15.41	16.0	15.58	-0.03	100.00	92.20	0.077	1.146	1.085	0.096	
2437	6	Left	Cheek	802.11n	OFDM	MIMO	1469M	20	13	16.0	15.41	16.0	15.58	0.00	100.00	92.20	0.232	1.146	1.085	0.288	
2437	6	Left	Tilt	802.11n	OFDM	MIMO	1469M	20	13	16.0	15.41	16.0	15.58	0.06	100.00	92.20	0.029	1.146	1.085	0.036	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram									

Note: To achieve the 19.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 16.0 dBm.

Table 11-30
NII MIMO Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot
MHz	Ch.																(W/kg)			(W/kg)	
5290	58	Right	Cheek	802.11ac	OFDM	MIMO	1553M	80	58.5	13.0	12.33	13.0	12.64	0.00	100.00	92.21	0.085	1.167	1.084	0.108	
5290	58	Right	Tilt	802.11ac	OFDM	MIMO	1553M	80	58.5	13.0	12.33	13.0	12.64	0.18	100.00	92.21	0.077	1.167	1.084	0.097	
5290	58	Left	Cheek	802.11ac	OFDM	MIMO	1553M	80	58.5	13.0	12.33	13.0	12.64	0.05	100.00	92.21	0.160	1.167	1.084	0.202	
5290	58	Left	Tilt	802.11ac	OFDM	MIMO	1553M	80	58.5	13.0	12.33	13.0	12.64	-0.19	100.00	92.21	0.118	1.167	1.084	0.149	
5690	138	Right	Cheek	802.11ac	OFDM	MIMO	1469M	80	58.5	13.0	12.28	13.0	12.77	-0.02	100.00	92.21	0.120	1.180	1.084	0.153	
5690	138	Right	Tilt	802.11ac	OFDM	MIMO	1469M	80	58.5	13.0	12.28	13.0	12.77	-0.05	100.00	92.21	0.096	1.180	1.084	0.123	
5690	138	Left	Cheek	802.11ac	OFDM	MIMO	1469M	80	58.5	13.0	12.28	13.0	12.77	0.07	100.00	92.21	0.190	1.180	1.084	0.243	A30
5690	138	Left	Tilt	802.11ac	OFDM	MIMO	1469M	80	58.5	13.0	12.28	13.0	12.77	0.06	100.00	92.21	0.133	1.180	1.084	0.170	
5775	155	Right	Cheek	802.11ac	OFDM	MIMO	1469M	80	58.5	13.0	12.44	13.0	12.72	-0.17	100.00	92.21	0.121	1.138	1.084	0.149	
5775	155	Right	Tilt	802.11ac	OFDM	MIMO	1469M	80	58.5	13.0	12.44	13.0	12.72	-0.11	100.00	92.21	0.106	1.138	1.084	0.131	
5775	155	Left	Cheek	802.11ac	OFDM	MIMO	1469M	80	58.5	13.0	12.44	13.0	12.72	0.09	100.00	92.21	0.187	1.138	1.084	0.231	
5775	155	Left	Tilt	802.11ac	OFDM	MIMO	1469M	80	58.5	13.0	12.44	13.0	12.72	0.04	100.00	92.21	0.153	1.138	1.084	0.189	
5855	171	Right	Cheek	802.11ac	OFDM	MIMO	1553M	80	58.5	13.0	12.22	13.0	12.65	0.20	100.00	92.21	0.081	1.197	1.084	0.105	
5855	171	Right	Tilt	802.11ac	OFDM	MIMO	1553M	80	58.5	13.0	12.22	13.0	12.65	-0.07	100.00	92.21	0.078	1.197	1.084	0.101	
5855	171	Left	Cheek	802.11ac	OFDM	MIMO	1553M	80	58.5	13.0	12.22	13.0	12.65	0.01	100.00	92.21	0.180	1.197	1.084	0.234	
5855	171	Left	Tilt	802.11ac	OFDM	MIMO	1553M	80	58.5	13.0	12.22	13.0	12.65	0.09	100.00	92.21	0.134	1.197	1.084	0.174	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram										

Note: To achieve the 16.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 13.0 dBm.

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Table 11-31
DSS Head SISO SAR

MEASUREMENT RESULTS																		
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch													(W/kg)			(W/kg)	
2441	39	Right	Cheek	Bluetooth	FHSS	1	1521M	1	13.0	12.48	-0.07	79.00	77.09	0.128	1.127	1.025	0.148	
2440	19	Right	Cheek	Bluetooth LE	DSSS	1	1521M	1	13.0	12.43	-0.04	87.00	85.60	0.044	1.140	1.016	0.051	
2441	39	Right	Tilt	Bluetooth	FHSS	1	1469M	1	13.0	12.48	0.09	79.00	77.09	0.073	1.127	1.025	0.084	
2441	39	Left	Cheek	Bluetooth	FHSS	1	1469M	1	13.0	12.48	0.06	79.00	77.09	0.053	1.127	1.025	0.061	
2441	39	Left	Tilt	Bluetooth	FHSS	1	1469M	1	13.0	12.48	0.02	79.00	77.09	0.026	1.127	1.025	0.030	
2441	39	Right	Cheek	Bluetooth	FHSS	2	1469M	1	13.0	12.39	0.00	79.00	77.03	0.140	1.151	1.026	0.165	
2441	39	Right	Tilt	Bluetooth	FHSS	2	1469M	1	13.0	12.39	-0.04	79.00	77.03	0.017	1.151	1.026	0.020	
2441	39	Left	Cheek	Bluetooth	FHSS	2	1469M	1	13.0	12.39	0.05	79.00	77.03	0.161	1.151	1.026	0.190	
2440	19	Left	Cheek	Bluetooth LE	DSSS	2	1521M	1	13.0	12.51	-0.01	87.00	85.94	0.050	1.119	1.012	0.057	
2441	39	Left	Tilt	Bluetooth	FHSS	2	1469M	1	13.0	12.39	0.15	79.00	77.03	0.020	1.151	1.026	0.024	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Light green entries indicate the additional check on the worst case exposure scenario for BT LE that is not fully evaluated.

Table 11-32
DSS Head MIMO SAR

MEASUREMENT RESULTS																				
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot
MHz	Ch.															(W/kg)			(W/kg)	
2441	39	Right	Cheek	Bluetooth	FHSS	MIMO	1469M	1	13.0	12.50	13.0	12.34	0.19	79.00	77.03	0.101	1.164	1.026	0.116	
2441	39	Right	Tilt	Bluetooth	FHSS	MIMO	1469M	1	13.0	12.50	13.0	12.34	-0.06	79.00	77.03	0.037	1.164	1.026	0.043	
2441	39	Left	Cheek	Bluetooth	FHSS	MIMO	1469M	1	13.0	12.50	13.0	12.34	-0.02	79.00	77.03	0.166	1.164	1.026	0.191	A31
2441	39	Left	Tilt	Bluetooth	FHSS	MIMO	1469M	1	13.0	12.50	13.0	12.34	0.17	79.00	77.03	0.024	1.164	1.026	0.028	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram											

Note: To achieve the 16.0 dBm maximum allowed MIMO power shown in the documentation, antenna 1 and antenna 2 transmit at a maximum allowed power of 13.0 dBm.

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11.2 Standalone Body-Worn SAR Data

Table 11-33
GSM Body-Worn SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
824.20	128	back	15 mm	GSM 850	GSM	A	0174M	33.0	31.87	-0.01	1:8.3	0.212	1.297	0.275	A32
1909.80	810	back	15 mm	GSM 1900	GSM	A	0181M	30.0	28.86	0.06	1:8.3	0.319	1.300	0.415	A33
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-34
UMTS Body-Worn SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Tune State	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	4183	back	15 mm	UMTS 850	RMC	A	0	0174M	25.0	23.68	-0.11	1:1	0.289	1.355	0.392	A34
1712.40	1312	back	15 mm	UMTS 1750	RMC	A	71	0172M	24.0	22.68	-0.02	1:1	0.437	1.355	0.592	
1732.40	1412	back	15 mm	UMTS 1750	RMC	A	32	0172M	24.0	22.77	-0.02	1:1	0.527	1.327	0.699	
1752.60	1513	back	15 mm	UMTS 1750	RMC	A	32	0172M	24.0	22.76	-0.01	1:1	0.559	1.330	0.743	A35
1852.40	9262	back	15 mm	UMTS 1900	RMC	A	33	0181M	24.0	22.73	0.00	1:1	0.518	1.340	0.694	
1880.00	9400	back	15 mm	UMTS 1900	RMC	A	33	0181M	24.0	22.74	0.07	1:1	0.530	1.337	0.709	A36
1907.60	9538	back	15 mm	UMTS 1900	RMC	A	36	0181M	24.0	22.65	0.00	1:1	0.519	1.365	0.708	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram								

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Table 11-35
LTE Body-Worn SAR

MEASUREMENT RESULTS																							
# CC Uplink, Power Class	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune Start	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
		MHz	Ch.																				
1 CC Uplink	NIA	680.50	133297	Mid	back	15 mm	LTE Band 71	A	1	0184M	20	QPSK	1	50	25.5	24.55	0	-0.03	1:1	0.145	1.245	0.181	A37
1 CC Uplink	NIA	680.50	133297	Mid	back	15 mm	LTE Band 71	A	1	0184M	20	QPSK	50	0	24.5	23.45	1	-0.03	1:1	0.116	1.274	0.148	
1 CC Uplink	NIA	707.50	23095	Mid	back	15 mm	LTE Band 12	A	65	0184M	10	QPSK	1	25	25.5	24.51	0	0.01	1:1	0.184	1.256	0.231	A38
1 CC Uplink	NIA	707.50	23095	Mid	back	15 mm	LTE Band 12	A	65	0184M	10	QPSK	25	25	24.5	23.58	1	0.01	1:1	0.140	1.236	0.173	
1 CC Uplink	NIA	782.00	23230	Mid	back	15 mm	LTE Band 13	A	1	0208M	10	QPSK	1	0	25.5	24.92	0	-0.02	1:1	0.250	1.143	0.286	A39
1 CC Uplink	NIA	782.00	23230	Mid	back	15 mm	LTE Band 13	A	1	0208M	10	QPSK	25	12	24.5	23.55	1	0.03	1:1	0.201	1.245	0.250	
1 CC Uplink	NIA	793.00	23330	Mid	back	15 mm	LTE Band 14	A	7	0208M	10	QPSK	1	25	25.5	24.58	0	0.00	1:1	0.222	1.236	0.274	A40
1 CC Uplink	NIA	793.00	23330	Mid	back	15 mm	LTE Band 14	A	7	0208M	10	QPSK	25	25	24.5	23.54	1	-0.02	1:1	0.175	1.247	0.218	
1 CC Uplink	NIA	831.50	26865	Mid	back	15 mm	LTE Band 26 (Cell)	A	0	0174M	15	QPSK	1	36	25.5	24.27	0	-0.01	1:1	0.267	1.327	0.354	A41
1 CC Uplink	NIA	831.50	26865	Mid	back	15 mm	LTE Band 26 (Cell)	A	0	0174M	15	QPSK	36	37	24.5	23.35	1	-0.01	1:1	0.227	1.303	0.296	
1 CC Uplink	NIA	836.50	20525	Mid	back	15 mm	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	1	0	25.5	24.29	0	0.15	1:1	0.292	1.291	0.377	
1 CC Uplink	NIA	836.50	20525	Mid	back	15 mm	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	1	25	25.5	24.46	0	-0.12	1:1	0.328	1.271	0.417	A42
1 CC Uplink	NIA	836.50	20525	Mid	back	15 mm	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	25	25	24.5	23.45	1	-0.04	1:1	0.254	1.274	0.324	
2 CC Uplink	PCC	836.50	20525	Mid	back	15 mm	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	1	0	25.5	24.35	0	0.00	1:1	0.295	1.303	0.384	
	SCC	829.30	20453										1	24									
1 CC Uplink	NIA	1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	A	71	0032M	20	QPSK	1	99	24.5	23.24	0	0.02	1:1	0.453	1.337	0.606	
1 CC Uplink	NIA	1745.00	132322	Mid	back	15 mm	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	1	99	24.5	23.35	0	-0.09	1:1	0.541	1.303	0.705	
1 CC Uplink	NIA	1770.00	132572	High	back	15 mm	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	1	50	24.5	23.33	0	0.05	1:1	0.532	1.309	0.696	
1 CC Uplink	NIA	1745.00	132322	Mid	back	15 mm	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	50	50	23.5	22.39	1	0.00	1:1	0.419	1.291	0.541	
1 CC Uplink	NIA	1745.00	132322	Mid	back	15 mm	LTE Band 66 (AWS)	A	32	0032M	10	QPSK	1	49	24.5	23.54	0	0.05	1:1	0.544	1.247	0.678	
2 CC Uplink CA_66C	PCC	1745.00	132322	Mid	back	15 mm	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	1	99	24.5	23.45	0	0.04	1:1	0.558	1.274	0.711	A43
	SCC	1764.80	132520										0										
2 CC Uplink CA_66B	PCC	1745.00	132322	Mid	back	15 mm	LTE Band 66 (AWS)	A	32	0032M	10	QPSK	1	49	24.5	23.47	0	-0.01	1:1	0.548	1.268	0.695	
	SCC	1754.90	132421										0										
1 CC Uplink	NIA	1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	F	NIA	1513M	20	QPSK	1	50	21.0	19.95	0	-0.02	1:1	0.130	1.274	0.166	
1 CC Uplink	NIA	1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	F	NIA	1513M	20	QPSK	50	50	21.0	20.00	0	0.00	1:1	0.137	1.259	0.172	
1 CC Uplink	NIA	1715.00	132022	Low	back	15 mm	LTE Band 66 (AWS)	F	NIA	1513M	10	QPSK	25	25	21.0	20.00	0	0.00	1:1	0.138	1.259	0.174	
2 CC Uplink CA_66C	PCC	1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	F	NIA	1513M	20	QPSK	50	50	21.0	19.65	0	-0.02	1:1	0.121	1.365	0.165	
	SCC	1739.80	132270										0										
2 CC Uplink CA_66B	PCC	1715.00	132022	Low	back	15 mm	LTE Band 66 (AWS)	F	NIA	1513M	10	QPSK	25	25	21.0	19.86	0	0.02	1:1	0.128	1.300	0.166	
	SCC	1724.90	132121										0										
1 CC Uplink	NIA	1860.00	26140	Low	back	15 mm	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	1	99	24.5	22.91	0	0.00	1:1	0.488	1.442	0.704	
1 CC Uplink	NIA	1882.50	26365	Mid	back	15 mm	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	1	99	24.5	23.11	0	0.03	1:1	0.500	1.377	0.689	
1 CC Uplink	NIA	1905.00	26590	High	back	15 mm	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	1	99	24.5	23.27	0	-0.16	1:1	0.511	1.327	0.678	A44
1 CC Uplink	NIA	1905.00	26590	High	back	15 mm	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	50	50	23.5	22.22	1	0.00	1:1	0.421	1.343	0.565	
1 CC Uplink	NIA	1905.00	26590	High	back	15 mm	LTE Band 25 (PCS)	F	NIA	1492M	20	QPSK	1	0	19.0	17.65	0	0.10	1:1	0.066	1.365	0.090	
1 CC Uplink	NIA	1905.00	26590	High	back	15 mm	LTE Band 25 (PCS)	F	NIA	1492M	20	QPSK	50	50	19.0	17.63	0	0.04	1:1	0.071	1.371	0.097	
1 CC Uplink	NIA	2310.00	27710	Mid	back	15 mm	LTE Band 30	A	NIA	0171M	10	QPSK	1	25	23.5	22.20	0	-0.05	1:1	0.351	1.349	0.473	A45
1 CC Uplink	NIA	2310.00	27710	Mid	back	15 mm	LTE Band 30	A	NIA	0171M	10	QPSK	25	25	22.5	21.16	1	-0.02	1:1	0.276	1.361	0.376	
1 CC Uplink	NIA	2310.00	27710	Mid	back	15 mm	LTE Band 30	F	NIA	0171M	10	QPSK	1	25	21.0	19.88	0	-0.01	1:1	0.072	1.294	0.093	
1 CC Uplink	NIA	2310.00	27710	Mid	back	15 mm	LTE Band 30	F	NIA	0171M	10	QPSK	25	12	21.0	19.81	0	-0.06	1:1	0.070	1.315	0.092	
1 CC Uplink	NIA	2535.00	21100	Mid	back	15 mm	LTE Band 7	B	NIA	0171M	20	QPSK	1	50	24.0	22.84	0	0.02	1:1	0.312	1.306	0.407	A46
1 CC Uplink	NIA	2535.00	21100	Mid	back	15 mm	LTE Band 7	B	NIA	0171M	20	QPSK	50	50	23.0	21.73	1	0.03	1:1	0.247	1.340	0.331	
1 CC Uplink	NIA	2510.00	20850	Low	back	15 mm	LTE Band 7	F	NIA	1559M	20	QPSK	1	50	19.5	18.29	0	0.00	1:1	0.147	1.321	0.194	
1 CC Uplink	NIA	2510.00	20850	Low	back	15 mm	LTE Band 7	F	NIA	1559M	20	QPSK	50	25	19.5	18.26	0	0.00	1:1	0.146	1.330	0.194	
1 CC Uplink - Power Class 3	NIA	2593.00	40620	Mid	back	15 mm	LTE Band 41	B	NIA	0193M	20	QPSK	1	99	25.0	24.07	0	-0.03	1:1.58	0.231	1.239	0.286	
1 CC Uplink - Power Class 3	NIA	2593.00	40620	Mid	back	15 mm	LTE Band 41	B	NIA	0193M	20	QPSK	50	25	24.0	23.17	1	-0.02	1:1.58	0.181	1.211	0.219	
1 CC Uplink - Power Class 2	NIA	2593.00	40620	Mid	back	15 mm	LTE Band 41	B	NIA	0193M	20	QPSK	1	99	26.6	25.82	0	-0.04	1:2.31	0.228	1.197	0.273	
2 CC Uplink - Power Class 3	PCC	2593.00	40620	Mid	back	15 mm	LTE Band 41	B	NIA	0193M	20	QPSK	1	99	25.0	24.15	0	-0.01	1:1.58	0.236	1.216	0.287	A47
	SCC	2612.80	40818										0										
2 CC Uplink - Power Class 2	PCC	2593.00	40620	Mid	back	15 mm	LTE Band 41	B	NIA	0193M	20	QPSK	1	99	26.6	25.91	0	0.05	1:2.31	0.231	1.172	0.271	
1 CC Uplink - Power Class 3	NIA	2506.00	39750	Low	back	15 mm	LTE Band 41	F	NIA	1473M	20	QPSK	1	99	22.0	21.57	0	0.01	1:1.58	0.115	1.104	0.127	
1 CC Uplink - Power Class 3	NIA	2506.00	39750	Low	back	15 mm	LTE Band 41	F	NIA	1473M	20	QPSK	50	50	22.0	21.63	0	-0.01	1:1.58	0.126	1.089	0.137	
1 CC Uplink - Power Class 3	NIA	2506.00	39750	Low	back	15 mm	LTE Band 41	F	NIA	1473M	20	QPSK	50	50	22.0	21.48	0	0.02	1:1.58	0.131	1.127	0.148	
1 CC Uplink - Power Class 2	NIA	2506.00	39750	Low	back	15 mm	LTE Band 41	F	NIA	1473M	20	QPSK	50	0	23.6	23.21	0	0.02	1:2.31	0.132	1.094	0.144	
1 CC Uplink - Power Class 2	NIA	2506.00	39750	Low	back	15 mm	LTE Band 41	F	NIA	1473M	20	QPSK	50	50	23.6	23.12	0	0.00	1:2.31	0.126	1.117	0.141	
2 CC Uplink - Power Class 3	PCC	2506.00	39750	Low	back	15 mm	LTE Band 41	F	NIA	1473M	20	QPSK	50	50	22.0	21.84	0	0.02	1:1.58	0.133	1.086	0.144	
	SCC	2525.80	39948										0										
2 CC Uplink - Power Class 2	PCC	2506.00	39750	Low	back	15 mm	LTE Band 41	F	NIA	1473M	20	QPSK	50	50	23.6	23.35	0	0.02	1:2.31	0.130	1.059	0.138	
	SCC	2525.80	39948																				
1 CC Uplink	NIA	3560.00	55340	Low	back	15 mm	LTE Band 48	G	NIA	1533M	20	QPSK	1	99	21.0	20.39	0	0.09	1:1.58	0.108	1.151	0.124	
1 CC Uplink	NIA	3560.00	55340	Low	back	15 mm	LTE Band 48	G	NIA	1533M	20	QPSK	50	50	21.0	20.47	0	-0.13	1:1.58	0.110	1.129	0.124	
2 CC Uplink	PCC	3560.00	55340	Low	back	15 mm	LTE Band 48	G	NIA	1533M	20	QPSK	50	50	21.0	20.57	0	0.00	1:1.58	0.112	1.104	0.124	A48
	SCC	3579.80	55538										0										
ANSI / IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak																			Body 1.6 W/kg (mW/g) averaged per 1.0cm				
Uncontrolled Exposure/General Population																							

Table 11-36
NR Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR[dB]	Power Drift [dB]	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
680.50	136100	Mid	back	15 mm	NR Band n71	A	132	0170M	20	DFT-S-OFDM	QPSK	1	53	25.5	24.03	0	-0.08	1:1	0.141	1.403	0.198	A49
680.50	136100	Mid	back	15 mm	NR Band n71	A	132	0170M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.14	0	-0.04	1:1	0.130	1.368	0.178	
680.50	136100	Mid	back	15 mm	NR Band n71	A	132	0170M	20	CP-OFDM	QPSK	1	1	24.0	22.48	1.5	-0.02	1:1	0.098	1.419	0.139	
707.50	141500	Mid	back	15 mm	NR Band n12	A	132	0170M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.01	0	0.03	1:1	0.167	1.409	0.235	A50
707.50	141500	Mid	back	15 mm	NR Band n12	A	132	0170M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.09	0	0.03	1:1	0.159	1.384	0.220	
707.50	141500	Mid	back	15 mm	NR Band n12	A	68	0170M	15	CP-OFDM	QPSK	1	1	24.0	22.61	1.5	-0.01	1:1	0.118	1.377	0.162	
831.50	166300	Mid	back	15 mm	NR Band n26	A	0	0170M	20	DFT-S-OFDM	QPSK	1	1	25.5	24.13	0	0.00	1:1	0.260	1.371	0.356	
831.50	166300	Mid	back	15 mm	NR Band n26	A	4	0170M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.24	0	-0.04	1:1	0.304	1.337	0.406	A51
831.50	166300	Mid	back	15 mm	NR Band n26	A	4	0170M	20	CP-OFDM	QPSK	1	1	24.0	22.68	1.5	-0.02	1:1	0.190	1.355	0.257	
1745.00	349000	Mid	back	15 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.00	0	0.00	1:1	0.696	1.122	0.781	A52
1745.00	349000	Mid	back	15 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	0.03	1:1	0.689	1.086	0.748	
1745.00	349000	Mid	back	15 mm	NR Band n66	A	71	0028M	40	CP-OFDM	QPSK	1	1	23.0	22.54	1.5	0.03	1:1	0.324	1.112	0.360	
1745.00	349000	Mid	back	15 mm	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	1	108	21.0	19.95	0	0.08	1:1	0.108	1.274	0.138	
1745.00	349000	Mid	back	15 mm	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	108	54	21.0	20.01	0	0.02	1:1	0.112	1.256	0.141	
1745.00	349000	Mid	back	15 mm	NR Band n66	F	N/A	1673M	40	CP-OFDM	QPSK	1	1	21.0	19.82	0	-0.01	1:1	0.124	1.312	0.163	
1882.50	376500	Mid	back	15 mm	NR Band n25	A	132	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.44	0	-0.08	1:1	0.721	1.276	0.920	A53
1882.50	376500	Mid	back	15 mm	NR Band n25	A	132	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.63	0	0.04	1:1	0.710	1.222	0.868	
1882.50	376500	Mid	back	15 mm	NR Band n25	A	132	0028M	40	DFT-S-OFDM	QPSK	216	0	23.5	22.64	1	0.01	1:1	0.633	1.219	0.772	
1882.50	376500	Mid	back	15 mm	NR Band n25	A	132	0028M	40	CP-OFDM	QPSK	1	1	23.0	21.61	1.5	0.03	1:1	0.366	1.377	0.504	
1882.50	376500	Mid	back	15 mm	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	1	1	21.0	20.09	0	0.01	1:1	0.098	1.233	0.121	
1882.50	376500	Mid	back	15 mm	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	108	54	21.0	20.22	0	0.00	1:1	0.109	1.197	0.130	
1882.50	376500	Mid	back	15 mm	NR Band n25	F	N/A	1623M	40	CP-OFDM	QPSK	1	1	21.0	19.98	0	0.06	1:1	0.103	1.265	0.130	
2310.00	462000	Mid	back	15 mm	NR Band n30	A	N/A	0028M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.37	0	-0.20	1:1	0.297	1.297	0.385	A54
2310.00	462000	Mid	back	15 mm	NR Band n30	A	N/A	0028M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.27	0	0.02	1:1	0.277	1.327	0.368	
2310.00	462000	Mid	back	15 mm	NR Band n30	A	N/A	0028M	10	CP-OFDM	QPSK	1	1	22.0	20.33	1.5	0.06	1:1	0.222	1.469	0.326	
2310.00	462000	Mid	back	15 mm	NR Band n30	F	N/A	1673M	10	DFT-S-OFDM	QPSK	1	1	21.0	20.33	0	0.04	1:1	0.069	1.167	0.081	
2310.00	462000	Mid	back	15 mm	NR Band n30	F	N/A	1673M	10	DFT-S-OFDM	QPSK	25	14	21.0	20.37	0	0.04	1:1	0.068	1.156	0.079	
2310.00	462000	Mid	back	15 mm	NR Band n30	F	N/A	1673M	10	CP-OFDM	QPSK	1	1	21.0	20.40	0	0.09	1:1	0.070	1.148	0.080	
2535.00	507000	Mid	back	15 mm	NR Band n7	B	N/A	0028M	40	DFT-S-OFDM	QPSK	1	108	24.0	23.43	0	0.05	1:1	0.486	1.140	0.554	
2535.00	507000	Mid	back	15 mm	NR Band n7	B	N/A	0028M	40	DFT-S-OFDM	QPSK	108	54	24.0	23.48	0	-0.05	1:1	0.493	1.127	0.556	A55
2535.00	507000	Mid	back	15 mm	NR Band n7	B	N/A	0028M	40	CP-OFDM	QPSK	1	1	22.5	21.99	1.5	0.00	1:1	0.355	1.125	0.399	
2535.00	507000	Mid	back	15 mm	NR Band n7	F	N/A	1673M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.73	0	-0.07	1:1	0.148	1.194	0.177	
2535.00	507000	Mid	back	15 mm	NR Band n7	F	N/A	1673M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.88	0	-0.01	1:1	0.154	1.153	0.178	
2535.00	507000	Mid	back	15 mm	NR Band n7	F	N/A	1673M	40	CP-OFDM	QPSK	1	1	19.5	18.82	0	0.01	1:1	0.153	1.169	0.179	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Table 11-37
NR Band n41/n48 Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Path	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot ...	
MHz	Ch.																					
2592.99	518598	Mid	back	15 mm	NR Band n41	F	Path 1	1648M	100	DFT-S-OFDM	QPSK	1	137	20.0	19.33	0	0.02	1:1	0.113	1.167	0.132	A56
2592.99	518598	Mid	back	15 mm	NR Band n41	F	Path 1	1648M	100	DFT-S-OFDM	QPSK	135	69	20.0	19.25	0	-0.02	1:1	0.112	1.189	0.133	
2592.99	518598	Mid	back	15 mm	NR Band n41	F	Path 1	1648M	100	CP-OFDM	QPSK	1	1	20.0	19.01	0	-0.04	1:1	0.142	1.256	0.178	
2592.99	518598	Mid	back	15 mm	NR Band n41	F	Path 2	1648M	100	CW/RSRS	N/A	N/A	N/A	18.0	17.01	N/A	0.06	1:1	0.066	1.256	0.083	
2592.99	518598	Mid	back	15 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	1	137	20.0	19.03	0	-0.02	1:1	0.124	1.250	0.155	
2592.99	518598	Mid	back	15 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	135	69	20.0	19.02	0	-0.01	1:1	0.126	1.253	0.158	
2592.99	518598	Mid	back	15 mm	NR Band n41	B	Path 2	1648M	100	CP-OFDM	QPSK	1	1	20.0	18.85	0	-0.06	1:1	0.120	1.303	0.156	
2592.99	518598	Mid	back	15 mm	NR Band n41	B	Path 1	1648M	100	CW/RSRS	N/A	N/A	N/A	18.0	16.97	N/A	0.02	1:1	0.091	1.268	0.115	
2592.99	518598	Mid	back	15 mm	NR Band n41	E	Path 1	1648M	100	CW/RSRS	N/A	N/A	N/A	16.0	15.00	N/A	0.15	1:1	0.029	1.259	0.037	
2592.99	518598	Mid	back	15 mm	NR Band n41	E	Path 2	1648M	100	CW/RSRS	N/A	N/A	N/A	15.0	13.88	N/A	0.06	1:1	0.012	1.294	0.016	
2592.99	518598	Mid	back	15 mm	NR Band n41	D	Path 1	1648M	100	CW/RSRS	N/A	N/A	N/A	17.5	16.50	N/A	0.01	1:1	0.069	1.259	0.087	
2592.99	518598	Mid	back	15 mm	NR Band n41	D	Path 2	1648M	100	CW/RSRS	N/A	N/A	N/A	17.0	16.20	N/A	0.02	1:1	0.056	1.202	0.067	
3570.00	638000	Low	back	15 mm	NR Band n48	G	N/A	1611M	40	DFT-S-OFDM	QPSK	1	1	19.0	18.20	0	0.06	1:1	0.115	1.202	0.138	A57
3570.00	638000	Low	back	15 mm	NR Band n48	G	N/A	1611M	40	DFT-S-OFDM	QPSK	50	0	19.0	18.12	0	0.03	1:1	0.114	1.225	0.140	
3570.00	638000	Low	back	15 mm	NR Band n48	G	N/A	1611M	40	CP-OFDM	QPSK	1	1	19.0	18.11	0	0.00	1:1	0.113	1.227	0.139	
3624.99	641666	Mid	back	15 mm	NR Band n48	C	N/A	1611M	40	CW/RSRS	N/A	N/A	N/A	14.5	13.81	N/A	-0.12	1:1	0.041	1.172	0.048	
3570.00	638000	Low	back	15 mm	NR Band n48	I	N/A	1611M	40	CW/RSRS	N/A	N/A	N/A	16.5	15.73	N/A	0.04	1:1	0.108	1.194	0.129	
3624.99	641666	Mid	back	15 mm	NR Band n48	D	N/A	1611M	40	CW/RSRS	N/A	N/A	N/A	14.5	13.90	N/A	0.00	1:1	0.056	1.148	0.064	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Body											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

Note: Light

Table 11-38
NR Band n77 Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	G	1651M	100	DFT-S-OFDM	QPSK	1	271	19.0	18.42	0	0.00	1.1	0.115	1.143	0.131	A58
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	C	1619M	100	CW/SRS	N/A	NA	NA	15.0	13.96	N/A	0.01	1.1	0.028	1.271	0.036	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	I	1619M	100	CW/SRS	N/A	NA	NA	18.0	16.11	N/A	-0.07	1.1	0.085	1.545	0.131	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	D	1619M	100	CW/SRS	N/A	NA	NA	15.5	13.66	N/A	0.07	1.1	0.034	1.528	0.052	
3750.00	650000	Low	back	15 mm	NR Band n77	G	1611M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.74	0	-0.01	1.1	0.110	1.062	0.117	
3750.00	650000	Low	back	15 mm	NR Band n77	G	1611M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.71	0	-0.13	1.1	0.119	1.069	0.127	A59
3750.00	650000	Low	back	15 mm	NR Band n77	G	1611M	100	CP-OFDM	QPSK	1	1	19.0	18.57	0	0.02	1.1	0.113	1.104	0.125	
3750.00	650000	Low	back	15 mm	NR Band n77	C	1611M	100	CW/SRS	N/A	NA	NA	15.0	14.14	N/A	0.01	1.1	0.014	1.219	0.017	
3750.00	650000	Low	back	15 mm	NR Band n77	I	1611M	100	CW/SRS	N/A	NA	NA	18.0	16.25	N/A	0.03	1.1	0.094	1.496	0.141	
3750.00	650000	Low	back	15 mm	NR Band n77	D	1611M	100	CW/SRS	N/A	NA	NA	15.5	14.36	N/A	0.08	1.1	0.049	1.300	0.064	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Table 11-39
DTS SISO Body-Worn SAR

MEASUREMENT RESULTS																	
FREQUENCY		Side	Spacing	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2437	6	back	15 mm	2	1469M	22	1	20.0	19.79	-0.01	100.00	98.90	0.067	1.050	1.011	0.071	
2412	1	back	15 mm	2	1469M	22	1	17.0	16.64	-0.02	100.00	98.90	0.034	1.086	1.011	0.037	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body								
Spatial Peak									1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population									averaged over 1 gram								

Table 11-40
DTS MIMO Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)			(W/kg)	
2412	1	back	15 mm	802.11b	DSSS	MIMO	1469M	22	1	20.0	19.94	20.0	19.68	0.00	100.00	98.90	0.101	1.076	1.011	0.110	A60
2462	11	back	15 mm	802.11n	OFDM	MIMO	1469M	20	13	17.0	16.22	17.0	16.90	-0.10	100.00	92.20	0.055	1.197	1.085	0.071	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

Note: In max power mode, to achieve the 23.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 20.0 dBm. During simultaneous conditions with 5/6 GHz WLAN and/or 5G NR, to achieve the 20.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17.0 dBm

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Table 11-41
NII MIMO Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)			(W/kg)	
5300	60	back	15 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.37	17.5	17.30	-0.17	100.00	92.87	0.116	1.047	1.077	0.131	
5290	58	back	15 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.28	15.0	14.86	0.20	100.00	92.21	0.072	1.180	1.084	0.092	
5500	100	back	15 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.47	17.5	17.27	0.04	100.00	92.87	0.116	1.054	1.077	0.132	A61
5690	138	back	15 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.49	15.0	14.81	0.04	100.00	92.21	0.067	1.125	1.084	0.082	
5785	157	back	15 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.48	17.5	17.09	0.07	100.00	92.87	0.095	1.099	1.077	0.112	
5775	155	back	15 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.20	15.0	14.77	0.20	100.00	92.21	0.060	1.202	1.084	0.078	
5865	173	back	15 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.49	17.5	17.22	0.20	100.00	92.87	0.110	1.067	1.077	0.126	
5855	171	back	15 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.48	15.0	14.89	0.03	100.00	92.21	0.074	1.127	1.084	0.090	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: In max power, to achieve the 20.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17.5 dBm. During simultaneous conditions with 2.4 GHz WLAN and/or 5G NR, to achieve the 18.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15.0 dBm

Table 11-42
DSS SISO Body-Worn SAR

MEASUREMENT RESULTS																		
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													(W/kg)			(W/kg)	
2441	39	back	15 mm	Bluetooth	FHSS	1	1521M	1	18.5	18.18	0.15	79.00	77.09	0.035	1.076	1.025	0.039	A62
2441	39	back	15 mm	Bluetooth	FHSS	2	1521M	1	18.5	17.72	0.07	79.00	77.03	0.016	1.197	1.026	0.020	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 11-43
DSS MIMO Body-Worn SAR

MEASUREMENT RESULTS																				
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															(W/kg)			(W/kg)	
2441	39	back	15 mm	Bluetooth	FHSS	MIMO	1521M	1	14.5	14.49	14.5	13.46	-0.01	79.00	77.03	0.019	1.271	1.026	0.020	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body											
Spatial Peak									1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population									averaged over 1 gram											

Note: To achieve the 17.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14.5 dBm.

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11.3 Standalone Hotspot SAR Data

Table 11-44
GPRS Hotspot SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	# of Time Slots	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
824.20	128	back	10 mm	GSM 850	GPRS	A	0174M	3	30.5	29.15	0.01	1:2.76	0.610	1.365	0.833	A63
836.60	190	back	10 mm	GSM 850	GPRS	A	0174M	3	30.5	28.64	-0.05	1:2.76	0.724	1.535	1.111	
848.80	251	back	10 mm	GSM 850	GPRS	A	0174M	3	30.5	28.97	-0.04	1:2.76	0.703	1.422	1.000	
824.20	128	front	10 mm	GSM 850	GPRS	A	0174M	3	30.5	29.15	-0.02	1:2.76	0.335	1.365	0.457	
824.20	128	bottom	10 mm	GSM 850	GPRS	A	0174M	3	30.5	29.15	0.01	1:2.76	0.192	1.365	0.262	
824.20	128	right	10 mm	GSM 850	GPRS	A	0174M	3	30.5	29.15	0.01	1:2.76	0.128	1.365	0.175	
824.20	128	left	10 mm	GSM 850	GPRS	A	0174M	3	30.5	29.15	0.01	1:2.76	0.246	1.365	0.336	
1880.00	661	back	10 mm	GSM 1900	GPRS	A	0164M	4	22.2	20.87	-0.04	1:2.076	0.282	1.358	0.383	
1880.00	661	front	10 mm	GSM 1900	GPRS	A	0164M	4	22.2	20.87	-0.05	1:2.076	0.240	1.358	0.326	
1850.20	512	bottom	10 mm	GSM 1900	GPRS	A	0164M	4	22.2	20.60	0.00	1:2.076	0.483	1.445	0.698	
1880.00	661	bottom	10 mm	GSM 1900	GPRS	A	0164M	4	22.2	20.87	-0.03	1:2.076	0.566	1.358	0.769	
1909.80	810	bottom	10 mm	GSM 1900	GPRS	A	0164M	4	22.2	20.77	-0.11	1:2.076	0.622	1.390	0.865	A64
1880.00	661	right	10 mm	GSM 1900	GPRS	A	0164M	4	22.2	20.87	-0.03	1:2.076	0.036	1.358	0.049	
1880.00	661	left	10 mm	GSM 1900	GPRS	A	0164M	4	22.2	20.87	0.01	1:2.076	0.027	1.358	0.037	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 11-45
UMTS Hotspot SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Tune State	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
826.40	4132	back	10 mm	UMTS 850	RMC	A	2	0174M	25.0	23.67	-0.04	1:1	0.479	1.358	0.650	
836.60	4183	back	10 mm	UMTS 850	RMC	A	0	0174M	25.0	23.68	-0.13	1:1	0.535	1.355	0.725	
846.60	4233	back	10 mm	UMTS 850	RMC	A	132	0174M	25.0	23.55	-0.02	1:1	0.548	1.396	0.765	A65
836.60	4183	front	10 mm	UMTS 850	RMC	A	0	0174M	25.0	23.68	0.00	1:1	0.360	1.355	0.488	
836.60	4183	bottom	10 mm	UMTS 850	RMC	A	0	0174M	25.0	23.68	-0.04	1:1	0.180	1.355	0.244	
836.60	4183	right	10 mm	UMTS 850	RMC	A	0	0174M	25.0	23.68	0.05	1:1	0.064	1.355	0.087	
836.60	4183	left	10 mm	UMTS 850	RMC	A	0	0174M	25.0	23.68	0.00	1:1	0.201	1.355	0.272	
1732.40	1412	back	10 mm	UMTS 1750	RMC	A	32	0172M	20.0	18.51	0.00	1:1	0.393	1.409	0.554	
1732.40	1412	front	10 mm	UMTS 1750	RMC	A	32	0172M	20.0	18.51	0.01	1:1	0.403	1.409	0.568	
1712.40	1312	bottom	10 mm	UMTS 1750	RMC	A	74	0172M	20.0	18.49	0.00	1:1	0.744	1.416	1.054	
1732.40	1412	bottom	10 mm	UMTS 1750	RMC	A	71	0172M	20.0	18.51	-0.03	1:1	0.785	1.409	1.106	
1752.60	1513	bottom	10 mm	UMTS 1750	RMC	A	71	0172M	20.0	18.42	0.04	1:1	0.804	1.439	1.157	A66
1732.40	1412	right	10 mm	UMTS 1750	RMC	A	32	0172M	20.0	18.51	-0.01	1:1	0.110	1.409	0.155	
1732.40	1412	left	10 mm	UMTS 1750	RMC	A	32	0172M	20.0	18.51	0.03	1:1	0.056	1.409	0.079	
1852.40	9262	back	10 mm	UMTS 1900	RMC	A	32	0181M	18.5	17.12	0.01	1:1	0.314	1.374	0.431	
1852.40	9262	front	10 mm	UMTS 1900	RMC	A	133	0181M	18.5	17.12	0.00	1:1	0.205	1.374	0.282	
1852.40	9262	bottom	10 mm	UMTS 1900	RMC	A	65	0181M	18.5	17.12	-0.01	1:1	0.686	1.374	0.943	
1880.00	9400	bottom	10 mm	UMTS 1900	RMC	A	37	0181M	18.5	17.08	-0.02	1:1	0.750	1.387	1.040	
1907.60	9538	bottom	10 mm	UMTS 1900	RMC	A	133	0181M	18.5	17.10	-0.01	1:1	0.762	1.380	1.052	A67
1852.40	9262	right	10 mm	UMTS 1900	RMC	A	32	0181M	18.5	17.12	-0.04	1:1	0.046	1.374	0.063	
1852.40	9262	left	10 mm	UMTS 1900	RMC	A	65	0181M	18.5	17.12	0.04	1:1	0.044	1.374	0.060	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-46
LTE Band 71 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR(1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
680.50	133297	Mid	back	10 mm	LTE Band 71	A	3	0184M	20	QPSK	1	50	25.5	24.55	0	-0.09	1:1	0.250	1.245	0.311	A68
680.50	133297	Mid	back	10 mm	LTE Band 71	A	3	0184M	20	QPSK	50	0	24.5	23.45	1	-0.01	1:1	0.195	1.274	0.248	
680.50	133297	Mid	front	10 mm	LTE Band 71	A	132	0184M	20	QPSK	1	50	25.5	24.55	0	-0.07	1:1	0.140	1.245	0.174	
680.50	133297	Mid	front	10 mm	LTE Band 71	A	132	0184M	20	QPSK	50	0	24.5	23.45	1	-0.13	1:1	0.106	1.274	0.135	
680.50	133297	Mid	bottom	10 mm	LTE Band 71	A	132	0184M	20	QPSK	1	50	25.5	24.55	0	0.14	1:1	0.040	1.245	0.050	
680.50	133297	Mid	bottom	10 mm	LTE Band 71	A	132	0184M	20	QPSK	50	0	24.5	23.45	1	0.03	1:1	0.028	1.274	0.036	
680.50	133297	Mid	right	10 mm	LTE Band 71	A	3	0184M	20	QPSK	1	50	25.5	24.55	0	0.03	1:1	0.188	1.245	0.234	
680.50	133297	Mid	right	10 mm	LTE Band 71	A	3	0184M	20	QPSK	50	0	24.5	23.45	1	0.00	1:1	0.150	1.274	0.191	
680.50	133297	Mid	left	10 mm	LTE Band 71	A	132	0184M	20	QPSK	1	50	25.5	24.55	0	-0.02	1:1	0.169	1.245	0.210	
680.50	133297	Mid	left	10 mm	LTE Band 71	A	132	0184M	20	QPSK	50	0	24.5	23.45	1	0.02	1:1	0.120	1.274	0.153	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-47
LTE Band 12 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
707.50	23095	Mid	back	10 mm	LTE Band 12	A	132	0184M	10	QPSK	1	25	25.5	24.51	0	-0.07	1:1	0.274	1.256	0.344	A69
707.50	23095	Mid	back	10 mm	LTE Band 12	A	132	0184M	10	QPSK	25	25	24.5	23.58	1	0.02	1:1	0.218	1.236	0.269	
707.50	23095	Mid	front	10 mm	LTE Band 12	A	132	0184M	10	QPSK	1	25	25.5	24.51	0	0.01	1:1	0.178	1.256	0.224	
707.50	23095	Mid	front	10 mm	LTE Band 12	A	132	0184M	10	QPSK	25	25	24.5	23.58	1	0.02	1:1	0.136	1.236	0.168	
707.50	23095	Mid	bottom	10 mm	LTE Band 12	A	132	0184M	10	QPSK	1	25	25.5	24.51	0	-0.02	1:1	0.058	1.256	0.073	
707.50	23095	Mid	bottom	10 mm	LTE Band 12	A	132	0184M	10	QPSK	25	25	24.5	23.58	1	0.01	1:1	0.048	1.236	0.059	
707.50	23095	Mid	right	10 mm	LTE Band 12	A	132	0184M	10	QPSK	1	25	25.5	24.51	0	-0.14	1:1	0.204	1.256	0.256	
707.50	23095	Mid	right	10 mm	LTE Band 12	A	132	0184M	10	QPSK	25	25	24.5	23.58	1	-0.03	1:1	0.146	1.236	0.180	
707.50	23095	Mid	left	10 mm	LTE Band 12	A	132	0184M	10	QPSK	1	25	25.5	24.51	0	-0.11	1:1	0.255	1.256	0.320	
707.50	23095	Mid	left	10 mm	LTE Band 12	A	132	0184M	10	QPSK	25	25	24.5	23.58	1	-0.15	1:1	0.185	1.236	0.229	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak																					
Uncontrolled Exposure/General Population																					

Table 11-48
LTE Band 13 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
782.00	23230	Mid	back	10 mm	LTE Band 13	A	16	0208M	10	QPSK	1	0	25.5	24.92	0	0.01	1:1	0.494	1.143	0.565	A70
782.00	23230	Mid	back	10 mm	LTE Band 13	A	16	0208M	10	QPSK	25	12	24.5	23.55	1	0.01	1:1	0.396	1.245	0.493	
782.00	23230	Mid	front	10 mm	LTE Band 13	A	16	0208M	10	QPSK	1	0	25.5	24.92	0	-0.03	1:1	0.281	1.143	0.321	
782.00	23230	Mid	front	10 mm	LTE Band 13	A	16	0208M	10	QPSK	25	12	24.5	23.55	1	-0.05	1:1	0.223	1.245	0.278	
782.00	23230	Mid	bottom	10 mm	LTE Band 13	A	16	0208M	10	QPSK	1	0	25.5	24.92	0	-0.19	1:1	0.183	1.143	0.209	
782.00	23230	Mid	bottom	10 mm	LTE Band 13	A	16	0208M	10	QPSK	25	12	24.5	23.55	1	-0.04	1:1	0.136	1.245	0.169	
782.00	23230	Mid	right	10 mm	LTE Band 13	A	1	0208M	10	QPSK	1	0	25.5	24.92	0	-0.05	1:1	0.093	1.143	0.106	
782.00	23230	Mid	right	10 mm	LTE Band 13	A	1	0208M	10	QPSK	25	12	24.5	23.55	1	-0.07	1:1	0.084	1.245	0.105	
782.00	23230	Mid	left	10 mm	LTE Band 13	A	1	0208M	10	QPSK	1	0	25.5	24.92	0	-0.13	1:1	0.185	1.143	0.211	
782.00	23230	Mid	left	10 mm	LTE Band 13	A	1	0208M	10	QPSK	25	12	24.5	23.55	1	-0.04	1:1	0.151	1.245	0.188	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak																					
Uncontrolled Exposure/General Population																					

Table 11-49
LTE Band 14 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
793.00	23330	Mid	back	10 mm	LTE Band 14	A	4	0208M	10	QPSK	1	25	25.5	24.58	0	-0.09	1:1	0.422	1.236	0.522	A71
793.00	23330	Mid	back	10 mm	LTE Band 14	A	4	0208M	10	QPSK	25	25	24.5	23.54	1	0.00	1:1	0.336	1.247	0.419	
793.00	23330	Mid	front	10 mm	LTE Band 14	A	6	0208M	10	QPSK	1	25	25.5	24.58	0	0.00	1:1	0.304	1.236	0.376	
793.00	23330	Mid	front	10 mm	LTE Band 14	A	6	0208M	10	QPSK	25	25	24.5	23.54	1	-0.12	1:1	0.235	1.247	0.293	
793.00	23330	Mid	bottom	10 mm	LTE Band 14	A	6	0208M	10	QPSK	1	25	25.5	24.58	0	-0.02	1:1	0.151	1.236	0.187	
793.00	23330	Mid	bottom	10 mm	LTE Band 14	A	6	0208M	10	QPSK	25	25	24.5	23.54	1	0.00	1:1	0.127	1.247	0.158	
793.00	23330	Mid	right	10 mm	LTE Band 14	A	7	0208M	10	QPSK	1	25	25.5	24.58	0	-0.02	1:1	0.140	1.236	0.173	
793.00	23330	Mid	right	10 mm	LTE Band 14	A	7	0208M	10	QPSK	25	25	24.5	23.54	1	-0.04	1:1	0.120	1.247	0.150	
793.00	23330	Mid	left	10 mm	LTE Band 14	A	7	0208M	10	QPSK	1	25	25.5	24.58	0	0.01	1:1	0.203	1.236	0.251	
793.00	23330	Mid	left	10 mm	LTE Band 14	A	7	0208M	10	QPSK	25	25	24.5	23.54	1	0.01	1:1	0.161	1.247	0.201	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak																					
Uncontrolled Exposure/General Population																					

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Table 11-50
LTE Band 26 (Cell) Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
831.50	26865	Mid	back	10 mm	LTE Band 26 (Cell)	A	0	0174M	15	QPSK	1	36	25.5	24.27	0	-0.01	1:1	0.554	1.327	0.735	A72
831.50	26865	Mid	back	10 mm	LTE Band 26 (Cell)	A	0	0174M	15	QPSK	36	37	24.5	23.35	1	0.03	1:1	0.465	1.303	0.606	
831.50	26865	Mid	front	10 mm	LTE Band 26 (Cell)	A	0	0174M	15	QPSK	1	36	25.5	24.27	0	0.01	1:1	0.338	1.327	0.449	
831.50	26865	Mid	front	10 mm	LTE Band 26 (Cell)	A	0	0174M	15	QPSK	36	37	24.5	23.35	1	0.00	1:1	0.289	1.303	0.377	
831.50	26865	Mid	bottom	10 mm	LTE Band 26 (Cell)	A	0	0174M	15	QPSK	1	36	25.5	24.27	0	-0.01	1:1	0.183	1.327	0.243	
831.50	26865	Mid	bottom	10 mm	LTE Band 26 (Cell)	A	32	0174M	15	QPSK	36	37	24.5	23.35	1	0.01	1:1	0.150	1.303	0.195	
831.50	26865	Mid	right	10 mm	LTE Band 26 (Cell)	A	0	0174M	15	QPSK	1	36	25.5	24.27	0	0.04	1:1	0.071	1.327	0.094	
831.50	26865	Mid	right	10 mm	LTE Band 26 (Cell)	A	0	0174M	15	QPSK	36	37	24.5	23.35	1	-0.01	1:1	0.056	1.303	0.073	
831.50	26865	Mid	left	10 mm	LTE Band 26 (Cell)	A	0	0174M	15	QPSK	1	36	25.5	24.27	0	0.00	1:1	0.184	1.327	0.244	
831.50	26865	Mid	left	10 mm	LTE Band 26 (Cell)	A	0	0174M	15	QPSK	36	37	24.5	23.35	1	0.00	1:1	0.158	1.303	0.206	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Table 11-51
LTE Band 5 (Cell) Hotspot SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	Plot #	
		MHz	Ch.																				
1 CC Uplink	N/A	836.50	20525	Mid	back	10 mm	LTE Band 5 (Cell)	A	1	0188M	10	QPSK	1	0	25.5	24.39	0	0.09	1:1	0.603	1.291	0.778	
1 CC Uplink	N/A	836.50	20525	Mid	back	10 mm	LTE Band 5 (Cell)	A	1	0188M	10	QPSK	1	25	25.5	24.46	0	0.11	1:1	0.606	1.271	0.770	A73
1 CC Uplink	N/A	836.50	20525	Mid	back	10 mm	LTE Band 5 (Cell)	A	1	0188M	10	QPSK	25	25	24.5	23.45	1	-0.08	1:1	0.472	1.274	0.601	
2 CC Uplink	PCC	836.50	20525	Mid	back	10 mm	LTE Band 5 (Cell)	A	1	0188M	10	QPSK	1	0	25.5	24.35	0	0.01	1:1	0.584	1.303	0.761	
	SCC	829.30	20453								5		1	24									
1 CC Uplink	N/A	836.50	20525	Mid	front	10 mm	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	1	25	25.5	24.46	0	-0.11	1:1	0.392	1.271	0.498	
1 CC Uplink	N/A	836.50	20525	Mid	front	10 mm	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	25	25	24.5	23.45	1	-0.02	1:1	0.302	1.274	0.385	
1 CC Uplink	N/A	836.50	20525	Mid	bottom	10 mm	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	1	25	25.5	24.46	0	0.09	1:1	0.189	1.271	0.240	
1 CC Uplink	N/A	836.50	20525	Mid	bottom	10 mm	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	25	25	24.5	23.45	1	0.00	1:1	0.149	1.274	0.190	
1 CC Uplink	N/A	836.50	20525	Mid	right	10 mm	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	1	25	25.5	24.46	0	-0.11	1:1	0.073	1.271	0.093	
1 CC Uplink	N/A	836.50	20525	Mid	right	10 mm	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	25	25	24.5	23.45	1	0.02	1:1	0.051	1.274	0.065	
1 CC Uplink	N/A	836.50	20525	Mid	left	10 mm	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	1	25	25.5	24.46	0	0.05	1:1	0.216	1.271	0.275	
1 CC Uplink	N/A	836.50	20525	Mid	left	10 mm	LTE Band 5 (Cell)	A	0	0188M	10	QPSK	25	25	24.5	23.45	1	0.03	1:1	0.168	1.274	0.214	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body											
Spatial Peak												1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population												averaged over 1 gram											

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Table 11-52
LTE Band 66 (AWS) Hotspot SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.																(W/kg)		(W/kg)		
1 CC Uplink	N/A	1770.00	132572	High	back	10 mm	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	1	0	20.5	19.55	0	0.00	1:1	0.412	1.245	0.513	
1 CC Uplink	N/A	1770.00	132572	High	back	10 mm	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	50	50	20.5	19.53	0	-0.02	1:1	0.423	1.250	0.529	
1 CC Uplink	N/A	1770.00	132572	High	front	10 mm	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	1	0	20.5	19.55	0	0.03	1:1	0.399	1.245	0.497	
1 CC Uplink	N/A	1770.00	132572	High	front	10 mm	LTE Band 66 (AWS)	A	74	0032M	20	QPSK	50	50	20.5	19.53	0	0.02	1:1	0.403	1.250	0.504	
1 CC Uplink	N/A	1720.00	132072	Low	bottom	10 mm	LTE Band 66 (AWS)	A	74	0032M	20	QPSK	1	99	20.5	19.37	0	-0.07	1:1	0.847	1.297	1.099	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	10 mm	LTE Band 66 (AWS)	A	74	0032M	20	QPSK	1	99	20.5	19.49	0	0.17	1:1	0.842	1.262	1.063	
1 CC Uplink	N/A	1770.00	132572	High	bottom	10 mm	LTE Band 66 (AWS)	A	71	0032M	20	QPSK	1	0	20.5	19.55	0	0.09	1:1	0.843	1.245	1.050	
1 CC Uplink	N/A	1720.00	132072	Low	bottom	10 mm	LTE Band 66 (AWS)	A	74	0032M	20	QPSK	50	25	20.5	19.47	0	0.01	1:1	0.855	1.268	1.084	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	10 mm	LTE Band 66 (AWS)	A	74	0032M	20	QPSK	50	50	20.5	19.46	0	0.01	1:1	0.842	1.271	1.070	
1 CC Uplink	N/A	1770.00	132572	High	bottom	10 mm	LTE Band 66 (AWS)	A	71	0032M	20	QPSK	50	0	20.5	19.51	0	-0.04	1:1	0.849	1.256	1.066	
1 CC Uplink	N/A	1770.00	132572	High	bottom	10 mm	LTE Band 66 (AWS)	A	71	0032M	20	QPSK	50	50	20.5	19.53	0	-0.02	1:1	0.906	1.250	1.133	A74
1 CC Uplink	N/A	1770.00	132572	High	bottom	10 mm	LTE Band 66 (AWS)	A	74	0032M	20	QPSK	100	0	20.5	19.52	0	0.00	1:1	0.828	1.253	1.037	
1 CC Uplink	N/A	1775.00	132622	High	bottom	10 mm	LTE Band 66 (AWS)	A	71	0032M	10	QPSK	25	0	20.5	19.66	0	0.03	1:1	0.880	1.214	1.068	
2 CC Uplink CA_66C	PCC	1770.00	132572	High	bottom	10 mm	LTE Band 66 (AWS)	A	71	0032M	20	QPSK	50	0	20.5	19.58	0	0.00	1:1	0.846	1.236	1.046	
	SCC	1750.20	132374										50	50									
2 CC Uplink CA_66B	PCC	1775.00	132622	High	bottom	10 mm	LTE Band 66 (AWS)	A	71	0032M	10	QPSK	25	0	20.5	19.51	0	-0.01	1:1	0.823	1.256	1.034	
	SCC	1765.10	132523										25	25									
1 CC Uplink	N/A	1770.00	132572	High	right	10 mm	LTE Band 66 (AWS)	A	133	0032M	20	QPSK	1	0	20.5	19.55	0	-0.09	1:1	0.118	1.245	0.147	
1 CC Uplink	N/A	1770.00	132572	High	right	10 mm	LTE Band 66 (AWS)	A	133	0032M	20	QPSK	50	50	20.5	19.53	0	0.00	1:1	0.120	1.250	0.150	
1 CC Uplink	N/A	1770.00	132572	High	left	10 mm	LTE Band 66 (AWS)	A	133	0032M	20	QPSK	1	0	20.5	19.55	0	-0.16	1:1	0.078	1.245	0.097	
1 CC Uplink	N/A	1770.00	132572	High	left	10 mm	LTE Band 66 (AWS)	A	133	0032M	20	QPSK	50	50	20.5	19.53	0	-0.04	1:1	0.074	1.250	0.093	
1 CC Uplink	N/A	1720.00	132072	Low	back	10 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	50	21.0	19.95	0	-0.01	1:1	0.258	1.274	0.329	
1 CC Uplink	N/A	1720.00	132072	Low	back	10 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	21.0	20.00	0	-0.01	1:1	0.276	1.259	0.347	
1 CC Uplink	N/A	1720.00	132072	Low	front	10 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	50	21.0	19.95	0	0.01	1:1	0.214	1.274	0.273	
1 CC Uplink	N/A	1720.00	132072	Low	front	10 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	21.0	20.00	0	0.00	1:1	0.211	1.259	0.266	
1 CC Uplink	N/A	1720.00	132072	Low	top	10 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	50	21.0	19.95	0	-0.03	1:1	0.587	1.274	0.748	
1 CC Uplink	N/A	1720.00	132072	Low	top	10 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	99	21.0	19.93	0	0.01	1:1	0.619	1.279	0.792	
1 CC Uplink	N/A	1745.00	132322	Mid	top	10 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	99	21.0	19.94	0	0.01	1:1	0.563	1.276	0.718	
1 CC Uplink	N/A	1770.00	132572	High	top	10 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	50	21.0	19.92	0	-0.02	1:1	0.553	1.282	0.709	
1 CC Uplink	N/A	1720.00	132072	Low	top	10 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	21.0	20.00	0	-0.02	1:1	0.592	1.259	0.745	
1 CC Uplink	N/A	1715.00	132022	Low	top	10 mm	LTE Band 66 (AWS)	F	N/A	1513M	10	QPSK	1	49	21.0	20.13	0	0.00	1:1	0.624	1.222	0.763	
2 CC Uplink CA_66C	PCC	1720.00	132072	Low	top	10 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	99	21.0	19.75	0	0.10	1:1	0.568	1.334	0.758	
	SCC	1739.80	132270										0	0									
2 CC Uplink CA_66B	PCC	1715.00	132022	Low	top	10 mm	LTE Band 66 (AWS)	F	N/A	1513M	10	QPSK	1	49	21.0	19.96	0	0.03	1:1	0.577	1.271	0.733	
	SCC	1724.90	132121										0	0									
1 CC Uplink	N/A	1720.00	132072	Low	left	10 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	50	21.0	19.95	0	0.02	1:1	0.073	1.274	0.093	
1 CC Uplink	N/A	1720.00	132072	Low	left	10 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	21.0	20.00	0	0.01	1:1	0.079	1.259	0.099	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body											
Spatial Peak												1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population												averaged over 1 gram											

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Table 11-53
LTE Band 25 (PCS) Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
1860.00	26140	Low	back	10 mm	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	1	99	18.5	17.44	0	0.03	1:1	0.270	1.276	0.345	
1860.00	26140	Low	back	10 mm	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	50	50	18.5	17.28	0	-0.01	1:1	0.269	1.324	0.356	
1860.00	26140	Low	front	10 mm	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	1	99	18.5	17.44	0	-0.01	1:1	0.208	1.276	0.265	
1860.00	26140	Low	front	10 mm	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	50	50	18.5	17.28	0	0.04	1:1	0.222	1.324	0.294	
1860.00	26140	Low	bottom	10 mm	LTE Band 25 (PCS)	A	65	0164M	20	QPSK	1	99	18.5	17.44	0	0.02	1:1	0.579	1.276	0.739	
1860.00	26140	Low	bottom	10 mm	LTE Band 25 (PCS)	A	65	0164M	20	QPSK	50	50	18.5	17.28	0	0.00	1:1	0.603	1.324	0.798	
1882.50	26365	Mid	bottom	10 mm	LTE Band 25 (PCS)	A	65	0164M	20	QPSK	50	0	18.5	17.22	0	0.01	1:1	0.647	1.343	0.869	
1905.00	26590	High	bottom	10 mm	LTE Band 25 (PCS)	A	65	0164M	20	QPSK	50	50	18.5	17.27	0	0.03	1:1	0.735	1.327	0.975	A75
1905.00	26590	High	bottom	10 mm	LTE Band 25 (PCS)	A	65	0164M	20	QPSK	100	0	18.5	17.23	0	-0.01	1:1	0.726	1.340	0.973	
1860.00	26140	Low	right	10 mm	LTE Band 25 (PCS)	A	132	0164M	20	QPSK	1	99	18.5	17.44	0	0.02	1:1	0.019	1.276	0.024	
1860.00	26140	Low	right	10 mm	LTE Band 25 (PCS)	A	132	0164M	20	QPSK	50	50	18.5	17.28	0	-0.02	1:1	0.019	1.324	0.025	
1860.00	26140	Low	left	10 mm	LTE Band 25 (PCS)	A	65	0164M	20	QPSK	1	99	18.5	17.44	0	-0.18	1:1	0.025	1.276	0.032	
1860.00	26140	Low	left	10 mm	LTE Band 25 (PCS)	A	65	0164M	20	QPSK	50	50	18.5	17.28	0	0.12	1:1	0.026	1.324	0.034	
1905.00	26590	High	back	10 mm	LTE Band 25 (PCS)	F	N/A	1492M	20	QPSK	1	0	19.0	17.65	0	-0.08	1:1	0.113	1.365	0.154	
1905.00	26590	High	back	10 mm	LTE Band 25 (PCS)	F	N/A	1492M	20	QPSK	50	50	19.0	17.63	0	-0.03	1:1	0.119	1.371	0.163	
1905.00	26590	High	front	10 mm	LTE Band 25 (PCS)	F	N/A	1492M	20	QPSK	1	0	19.0	17.65	0	-0.09	1:1	0.089	1.365	0.121	
1905.00	26590	High	front	10 mm	LTE Band 25 (PCS)	F	N/A	1492M	20	QPSK	50	50	19.0	17.63	0	0.03	1:1	0.092	1.371	0.126	
1905.00	26590	High	top	10 mm	LTE Band 25 (PCS)	F	N/A	1492M	20	QPSK	1	0	19.0	17.65	0	0.03	1:1	0.348	1.365	0.475	
1905.00	26590	High	top	10 mm	LTE Band 25 (PCS)	F	N/A	1492M	20	QPSK	50	50	19.0	17.63	0	0.03	1:1	0.349	1.371	0.478	
1905.00	26590	High	left	10 mm	LTE Band 25 (PCS)	F	N/A	1492M	20	QPSK	1	0	19.0	17.65	0	0.09	1:1	0.044	1.365	0.060	
1905.00	26590	High	left	10 mm	LTE Band 25 (PCS)	F	N/A	1492M	20	QPSK	50	50	19.0	17.63	0	0.12	1:1	0.045	1.371	0.062	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

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Table 11-54
LTE Band 30 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)
2310.00	27710	Mid	back	10 mm	LTE Band 30	A	0171M	10	QPSK	1	0	20.0	19.93	0	0.02	1:1	0.381	1.016	0.387	
2310.00	27710	Mid	back	10 mm	LTE Band 30	A	0171M	10	QPSK	25	25	20.0	19.84	0	-0.02	1:1	0.386	1.038	0.401	
2310.00	27710	Mid	front	10 mm	LTE Band 30	A	0171M	10	QPSK	1	0	20.0	19.93	0	0.04	1:1	0.335	1.016	0.340	
2310.00	27710	Mid	front	10 mm	LTE Band 30	A	0171M	10	QPSK	25	25	20.0	19.84	0	0.02	1:1	0.339	1.038	0.352	
2310.00	27710	Mid	bottom	10 mm	LTE Band 30	A	0171M	10	QPSK	1	0	20.0	19.93	0	-0.01	1:1	0.859	1.016	0.873	
2310.00	27710	Mid	bottom	10 mm	LTE Band 30	A	0171M	10	QPSK	25	25	20.0	19.84	0	0.04	1:1	0.867	1.038	0.900	
2310.00	27710	Mid	bottom	10 mm	LTE Band 30	A	0171M	10	QPSK	50	0	20.0	19.75	0	0.03	1:1	0.867	1.059	0.918	A76
2310.00	27710	Mid	right	10 mm	LTE Band 30	A	0171M	10	QPSK	1	0	20.0	19.93	0	0.20	1:1	0.093	1.016	0.094	
2310.00	27710	Mid	right	10 mm	LTE Band 30	A	0171M	10	QPSK	25	25	20.0	19.84	0	-0.02	1:1	0.090	1.038	0.093	
2310.00	27710	Mid	left	10 mm	LTE Band 30	A	0171M	10	QPSK	1	0	20.0	19.93	0	0.11	1:1	0.045	1.016	0.046	
2310.00	27710	Mid	left	10 mm	LTE Band 30	A	0171M	10	QPSK	25	25	20.0	19.84	0	0.06	1:1	0.044	1.038	0.046	
2310.00	27710	Mid	back	10 mm	LTE Band 30	F	0171M	10	QPSK	1	25	21.0	19.88	0	-0.08	1:1	0.152	1.294	0.197	
2310.00	27710	Mid	back	10 mm	LTE Band 30	F	0171M	10	QPSK	25	12	21.0	19.81	0	0.02	1:1	0.144	1.315	0.189	
2310.00	27710	Mid	front	10 mm	LTE Band 30	F	0171M	10	QPSK	1	25	21.0	19.88	0	0.06	1:1	0.108	1.294	0.140	
2310.00	27710	Mid	front	10 mm	LTE Band 30	F	0171M	10	QPSK	25	12	21.0	19.81	0	0.05	1:1	0.105	1.315	0.138	
2310.00	27710	Mid	top	10 mm	LTE Band 30	F	0171M	10	QPSK	1	25	21.0	19.88	0	0.00	1:1	0.305	1.294	0.395	
2310.00	27710	Mid	top	10 mm	LTE Band 30	F	0171M	10	QPSK	25	12	21.0	19.81	0	0.01	1:1	0.292	1.315	0.384	
2310.00	27710	Mid	left	10 mm	LTE Band 30	F	0171M	10	QPSK	1	25	21.0	19.88	0	0.08	1:1	0.063	1.294	0.082	
2310.00	27710	Mid	left	10 mm	LTE Band 30	F	0171M	10	QPSK	25	12	21.0	19.81	0	0.01	1:1	0.057	1.315	0.075	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

Table 11-55
LTE Band 7 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																		(W/kg)	
2560.00	21350	High	back	10 mm	LTE Band 7	B	0171M	20	QPSK	1	99	21.0	19.62	0	-0.02	1:1	0.217	1.374	0.298	
2560.00	21350	High	back	10 mm	LTE Band 7	B	0171M	20	QPSK	50	25	21.0	19.61	0	0.06	1:1	0.213	1.377	0.293	
2560.00	21350	High	front	10 mm	LTE Band 7	B	0171M	20	QPSK	1	99	21.0	19.62	0	-0.01	1:1	0.239	1.374	0.328	
2560.00	21350	High	front	10 mm	LTE Band 7	B	0171M	20	QPSK	50	25	21.0	19.61	0	-0.01	1:1	0.236	1.377	0.325	
2560.00	21350	High	bottom	10 mm	LTE Band 7	B	0171M	20	QPSK	1	99	21.0	19.62	0	-0.04	1:1	0.436	1.374	0.599	
2560.00	21350	High	bottom	10 mm	LTE Band 7	B	0171M	20	QPSK	50	25	21.0	19.61	0	-0.01	1:1	0.417	1.377	0.574	
2560.00	21350	High	right	10 mm	LTE Band 7	B	0171M	20	QPSK	1	99	21.0	19.62	0	0.02	1:1	0.195	1.374	0.268	
2560.00	21350	High	right	10 mm	LTE Band 7	B	0171M	20	QPSK	50	25	21.0	19.61	0	0.01	1:1	0.196	1.377	0.270	
2510.00	20850	Low	back	10 mm	LTE Band 7	F	1559M	20	QPSK	1	50	19.5	18.29	0	-0.03	1:1	0.273	1.321	0.361	
2510.00	20850	Low	back	10 mm	LTE Band 7	F	1559M	20	QPSK	50	25	19.5	18.26	0	0.01	1:1	0.273	1.330	0.363	
2510.00	20850	Low	front	10 mm	LTE Band 7	F	1559M	20	QPSK	1	50	19.5	18.29	0	0.00	1:1	0.122	1.321	0.161	
2510.00	20850	Low	front	10 mm	LTE Band 7	F	1559M	20	QPSK	50	25	19.5	18.26	0	0.01	1:1	0.124	1.330	0.165	
2510.00	20850	Low	top	10 mm	LTE Band 7	F	1559M	20	QPSK	1	50	19.5	18.29	0	0.04	1:1	0.462	1.321	0.610	
2510.00	20850	Low	top	10 mm	LTE Band 7	F	1559M	20	QPSK	50	25	19.5	18.26	0	-0.03	1:1	0.471	1.330	0.626	A77
2535.00	21100	Mid	top	10 mm	LTE Band 7	F	1559M	20	QPSK	50	25	19.5	18.15	0	0.02	1:1	0.433	1.365	0.591	
2560.00	21350	High	top	10 mm	LTE Band 7	F	1559M	20	QPSK	50	25	19.5	18.08	0	0.01	1:1	0.385	1.387	0.534	
2510.00	20850	Low	left	10 mm	LTE Band 7	F	1559M	20	QPSK	1	50	19.5	18.29	0	-0.11	1:1	0.030	1.321	0.040	
2510.00	20850	Low	left	10 mm	LTE Band 7	F	1559M	20	QPSK	50	25	19.5	18.26	0	-0.07	1:1	0.033	1.330	0.044	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

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Table 11-56
LTE Band 41 Hotspot SAR

MEASUREMENT RESULTS																						
# CC Uplink, Power Class	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	back	10 mm	LTE Band 41	B	0193M	20	QPSK	1	0	23.0	22.26	0	0.05	1:1.58	0.316	1.186	0.375	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	back	10 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.26	0	0.01	1:1.58	0.317	1.186	0.376	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	front	10 mm	LTE Band 41	B	0193M	20	QPSK	1	0	23.0	22.26	0	0.02	1:1.58	0.253	1.186	0.300	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	front	10 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.26	0	0.02	1:1.58	0.249	1.186	0.295	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	10 mm	LTE Band 41	B	0193M	20	QPSK	1	0	23.0	22.26	0	0.02	1:1.58	0.484	1.186	0.574	A78
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	10 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.26	0	-0.01	1:1.58	0.482	1.186	0.572	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	bottom	10 mm	LTE Band 41	B	0193M	20	QPSK	1	0	24.6	24.20	0	0.01	1:2.31	0.466	1.096	0.511	
2 CC Uplink - Power Class 3	PCC	2593.00	40620	Mid	bottom	10 mm	LTE Band 41	B	0193M	20	QPSK	1	0	23.0	22.31	0	0.01	1:1.58	0.458	1.172	0.537	
	SCC	2573.20	40422										99									
2 CC Uplink - Power Class 2	PCC	2593.00	40620	Mid	bottom	10 mm	LTE Band 41	B	0193M	20	QPSK	1	0	24.6	24.25	0	0.02	1:2.31	0.447	1.084	0.485	
	SCC	2573.20	40422										99									
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	right	10 mm	LTE Band 41	B	0193M	20	QPSK	1	0	23.0	22.26	0	0.15	1:1.58	0.212	1.186	0.251	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	right	10 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.26	0	0.01	1:1.58	0.215	1.186	0.255	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	back	10 mm	LTE Band 41	F	1473M	20	QPSK	1	99	22.0	21.57	0	0.02	1:1.58	0.255	1.104	0.282	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	back	10 mm	LTE Band 41	F	1473M	20	QPSK	50	0	22.0	21.63	0	0.01	1:1.58	0.267	1.089	0.291	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	front	10 mm	LTE Band 41	F	1473M	20	QPSK	1	99	22.0	21.57	0	-0.01	1:1.58	0.229	1.104	0.253	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	front	10 mm	LTE Band 41	F	1473M	20	QPSK	50	0	22.0	21.63	0	-0.02	1:1.58	0.235	1.089	0.256	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	top	10 mm	LTE Band 41	F	1473M	20	QPSK	1	99	22.0	21.57	0	-0.04	1:1.58	0.425	1.104	0.469	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	top	10 mm	LTE Band 41	F	1473M	20	QPSK	50	0	22.0	21.63	0	-0.01	1:1.58	0.480	1.089	0.523	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	top	10 mm	LTE Band 41	F	1473M	20	QPSK	50	50	22.0	21.48	0	0.00	1:1.58	0.430	1.127	0.485	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	top	10 mm	LTE Band 41	F	1473M	20	QPSK	50	0	23.6	23.21	0	0.00	1:2.31	0.455	1.094	0.498	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	top	10 mm	LTE Band 41	F	1473M	20	QPSK	50	50	23.6	23.12	0	-0.01	1:2.31	0.414	1.117	0.462	
2 CC Uplink - Power Class 3	PCC	2506.00	39750	Low	top	10 mm	LTE Band 41	F	1473M	20	QPSK	50	50	22.0	21.64	0	-0.02	1:1.58	0.435	1.086	0.472	
	SCC	2525.80	39948										0									
2 CC Uplink - Power Class 2	PCC	2506.00	39750	Low	top	10 mm	LTE Band 41	F	1473M	20	QPSK	50	50	23.6	23.35	0	-0.02	1:2.31	0.422	1.059	0.447	
	SCC	2525.80	39948										0									
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	left	10 mm	LTE Band 41	F	1473M	20	QPSK	1	99	22.0	21.57	0	0.06	1:1.58	0.035	1.104	0.039	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	left	10 mm	LTE Band 41	F	1473M	20	QPSK	50	0	22.0	21.63	0	0.02	1:1.58	0.028	1.089	0.030	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Table 11-57
LTE Band 48 Hotspot SAR

MEASUREMENT RESULTS																						
# CC Uplink	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink	N/A	3560.00	55340	Low	back	10 mm	LTE Band 48	G	1533M	20	QPSK	1	99	21.0	20.39	0	0.03	1:1.58	0.237	1.151	0.273	
1 CC Uplink	N/A	3560.00	55340	Low	back	10 mm	LTE Band 48	G	1533M	20	QPSK	50	50	21.0	20.47	0	0.02	1:1.58	0.235	1.129	0.265	
1 CC Uplink	N/A	3560.00	55340	Low	front	10 mm	LTE Band 48	G	1533M	20	QPSK	1	99	21.0	20.39	0	-0.09	1:1.58	0.142	1.151	0.163	
1 CC Uplink	N/A	3560.00	55340	Low	front	10 mm	LTE Band 48	G	1533M	20	QPSK	50	50	21.0	20.47	0	0.00	1:1.58	0.148	1.129	0.167	
1 CC Uplink	N/A	3560.00	55340	Low	top	10 mm	LTE Band 48	G	1533M	20	QPSK	1	99	21.0	20.39	0	0.04	1:1.58	0.262	1.151	0.302	A79
1 CC Uplink	N/A	3560.00	55340	Low	top	10 mm	LTE Band 48	G	1533M	20	QPSK	50	50	21.0	20.47	0	-0.01	1:1.58	0.262	1.129	0.296	
2 CC Uplink	PCC	3560.00	55340	Low	top	10 mm	LTE Band 48	G	1533M	20	QPSK	1	99	21.0	20.40	0	-0.03	1:1.58	0.256	1.148	0.294	
	SCC	3579.80	55538										0									
1 CC Uplink	N/A	3560.00	55340	Low	left	10 mm	LTE Band 48	G	1533M	20	QPSK	1	99	21.0	20.39	0	0.03	1:1.58	0.199	1.151	0.229	
1 CC Uplink	N/A	3560.00	55340	Low	left	10 mm	LTE Band 48	G	1533M	20	QPSK	50	50	21.0	20.47	0	-0.02	1:1.58	0.207	1.129	0.234	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

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Table 11-58
NR Band n71 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY			Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPRE[dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																					
680.50	136100	Mid	back	10 mm	NR Band n71	A	1	0170M	20	DFT-S-OFDM	QPSK	1	53	25.5	24.03	0	0.17	1:1	0.202	1.403	0.283	AB0
680.50	136100	Mid	back	10 mm	NR Band n71	A	132	0170M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.14	0	0.05	1:1	0.224	1.368	0.306	
680.50	136100	Mid	back	10 mm	NR Band n71	A	132	0170M	20	CP-OFDM	QPSK	1	1	24.0	22.48	1.5	0.01	1:1	0.147	1.419	0.209	
680.50	136100	Mid	front	10 mm	NR Band n71	A	1	0170M	20	DFT-S-OFDM	QPSK	1	53	25.5	24.03	0	-0.09	1:1	0.161	1.403	0.226	
680.50	136100	Mid	front	10 mm	NR Band n71	A	3	0170M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.14	0	0.03	1:1	0.163	1.368	0.223	
680.50	136100	Mid	bottom	10 mm	NR Band n71	A	132	0170M	20	DFT-S-OFDM	QPSK	1	53	25.5	24.03	0	-0.07	1:1	0.037	1.403	0.052	
680.50	136100	Mid	bottom	10 mm	NR Band n71	A	132	0170M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.14	0	0.14	1:1	0.041	1.368	0.056	
680.50	136100	Mid	right	10 mm	NR Band n71	A	132	0170M	20	DFT-S-OFDM	QPSK	1	53	25.5	24.03	0	0.04	1:1	0.173	1.403	0.243	
680.50	136100	Mid	right	10 mm	NR Band n71	A	132	0170M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.14	0	0.06	1:1	0.197	1.368	0.269	
680.50	136100	Mid	left	10 mm	NR Band n71	A	132	0170M	20	DFT-S-OFDM	QPSK	1	53	25.5	24.03	0	0.06	1:1	0.166	1.403	0.233	
680.50	136100	Mid	left	10 mm	NR Band n71	A	3	0170M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.14	0	-0.03	1:1	0.188	1.368	0.254	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT														Body								
Spatial Peak														1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population														averaged over 1 gram								

Table 11-59
NR Band n12 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
707.50	141500	Mid	back	10 mm	NR Band n12	A	132	0170M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.01	0	-0.08	1:1	0.251	1.409	0.354	AB1
707.50	141500	Mid	back	10 mm	NR Band n12	A	132	0170M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.09	0	0.02	1:1	0.252	1.384	0.349	
707.50	141500	Mid	back	10 mm	NR Band n12	A	132	0170M	15	CP-OFDM	QPSK	1	1	24.0	22.61	1.5	-0.02	1:1	0.181	1.377	0.249	
707.50	141500	Mid	front	10 mm	NR Band n12	A	132	0170M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.01	0	0.01	1:1	0.135	1.409	0.190	
707.50	141500	Mid	front	10 mm	NR Band n12	A	132	0170M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.09	0	0.06	1:1	0.172	1.384	0.238	
707.50	141500	Mid	bottom	10 mm	NR Band n12	A	132	0170M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.01	0	0.09	1:1	0.053	1.409	0.075	
707.50	141500	Mid	bottom	10 mm	NR Band n12	A	132	0170M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.09	0	0.00	1:1	0.070	1.384	0.097	
707.50	141500	Mid	right	10 mm	NR Band n12	A	132	0170M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.01	0	-0.10	1:1	0.180	1.409	0.254	
707.50	141500	Mid	right	10 mm	NR Band n12	A	132	0170M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.09	0	0.09	1:1	0.168	1.384	0.233	
707.50	141500	Mid	left	10 mm	NR Band n12	A	132	0170M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.01	0	0.06	1:1	0.158	1.409	0.223	
707.50	141500	Mid	left	10 mm	NR Band n12	A	132	0170M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.09	0	-0.01	1:1	0.203	1.384	0.281	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Body											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

Table 11-60
NR Band n26 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																					
831.50	166300	Mid	back	10 mm	NR Band n26	A	7	0170M	20	DFT-S-OFDM	QPSK	1	1	25.5	24.13	0	-0.05	1:1	0.624	1.371	0.856	AB2
831.50	166300	Mid	back	10 mm	NR Band n26	A	7	0170M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.24	0	0.02	1:1	0.691	1.337	0.924	
831.50	166300	Mid	back	10 mm	NR Band n26	A	0	0170M	20	DFT-S-OFDM	QPSK	100	0	24.5	23.25	1	0.01	1:1	0.483	1.334	0.644	
831.50	166300	Mid	back	10 mm	NR Band n26	A	0	0170M	20	CP-OFDM	QPSK	1	1	24.0	22.68	1.5	-0.01	1:1	0.371	1.355	0.503	
831.50	166300	Mid	front	10 mm	NR Band n26	A	0	0170M	20	DFT-S-OFDM	QPSK	1	1	25.5	24.13	0	-0.04	1:1	0.320	1.371	0.439	
831.50	166300	Mid	front	10 mm	NR Band n26	A	2	0170M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.24	0	-0.01	1:1	0.381	1.337	0.509	
831.50	166300	Mid	bottom	10 mm	NR Band n26	A	4	0170M	20	DFT-S-OFDM	QPSK	1	1	25.5	24.13	0	0.00	1:1	0.193	1.371	0.265	
831.50	166300	Mid	bottom	10 mm	NR Band n26	A	0	0170M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.24	0	0.01	1:1	0.230	1.337	0.308	
831.50	166300	Mid	right	10 mm	NR Band n26	A	0	0170M	20	DFT-S-OFDM	QPSK	1	1	25.5	24.13	0	-0.03	1:1	0.096	1.371	0.132	
831.50	166300	Mid	right	10 mm	NR Band n26	A	0	0170M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.24	0	0.00	1:1	0.096	1.337	0.128	
831.50	166300	Mid	left	10 mm	NR Band n26	A	3	0170M	20	DFT-S-OFDM	QPSK	1	1	25.5	24.13	0	0.01	1:1	0.253	1.371	0.347	
831.50	166300	Mid	left	10 mm	NR Band n26	A	3	0170M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.24	0	0.00	1:1	0.276	1.337	0.369	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

FCC ID: A3LSMS918U	SAR EVALUATION REPORT	Approved by: Technical Manager
Document S/N: 1M2209010098-03.A3L (Rev1)	DUT Type: Portable Handset	Page 168 of 215



Table 11-61
NR Band n66 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																					
1745.00	349000	Mid	back	10 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	1	108	20.5	20.03	0	-0.01	1:1	0.475	1.114	0.529	
1745.00	349000	Mid	back	10 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	108	108	20.5	20.16	0	0.03	1:1	0.504	1.081	0.545	
1745.00	349000	Mid	front	10 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	1	108	20.5	20.03	0	0.04	1:1	0.431	1.114	0.480	
1745.00	349000	Mid	front	10 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	108	108	20.5	20.16	0	-0.01	1:1	0.453	1.081	0.490	
1745.00	349000	Mid	bottom	10 mm	NR Band n66	A	75	0028M	40	DFT-S-OFDM	QPSK	1	108	20.5	20.03	0	0.02	1:1	0.946	1.114	1.054	
1745.00	349000	Mid	bottom	10 mm	NR Band n66	A	75	0028M	40	DFT-S-OFDM	QPSK	108	108	20.5	20.16	0	-0.02	1:1	1.020	1.081	1.103	AB3
1745.00	349000	Mid	bottom	10 mm	NR Band n66	A	75	0028M	40	DFT-S-OFDM	QPSK	216	0	20.5	20.01	0	0.03	1:1	0.986	1.119	1.103	
1745.00	349000	Mid	bottom	10 mm	NR Band n66	A	75	0028M	40	CP-OFDM	QPSK	1	1	20.5	20.00	0	0.17	1:1	1.000	1.122	1.122	
1745.00	349000	Mid	right	10 mm	NR Band n66	A	133	0028M	40	DFT-S-OFDM	QPSK	1	108	20.5	20.03	0	0.04	1:1	0.121	1.114	0.135	
1745.00	349000	Mid	right	10 mm	NR Band n66	A	133	0028M	40	DFT-S-OFDM	QPSK	108	108	20.5	20.16	0	0.03	1:1	0.122	1.081	0.132	
1745.00	349000	Mid	left	10 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	1	108	20.5	20.03	0	0.12	1:1	0.068	1.114	0.076	
1745.00	349000	Mid	left	10 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	108	108	20.5	20.16	0	0.05	1:1	0.074	1.081	0.080	
1745.00	349000	Mid	back	10 mm	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	1	108	21.0	19.95	0	0.04	1:1	0.192	1.274	0.245	
1745.00	349000	Mid	back	10 mm	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	108	54	21.0	20.01	0	-0.01	1:1	0.199	1.256	0.250	
1745.00	349000	Mid	front	10 mm	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	1	108	21.0	19.95	0	0.08	1:1	0.179	1.274	0.228	
1745.00	349000	Mid	front	10 mm	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	108	54	21.0	20.01	0	0.01	1:1	0.184	1.256	0.231	
1745.00	349000	Mid	top	10 mm	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	1	108	21.0	19.95	0	0.01	1:1	0.493	1.274	0.628	
1745.00	349000	Mid	top	10 mm	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	108	54	21.0	20.01	0	-0.03	1:1	0.512	1.256	0.643	
1745.00	349000	Mid	top	10 mm	NR Band n66	F	N/A	1673M	40	CP-OFDM	QPSK	1	1	21.0	19.82	0	0.02	1:1	0.520	1.312	0.682	
1745.00	349000	Mid	left	10 mm	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	1	108	21.0	19.95	0	0.07	1:1	0.080	1.274	0.102	
1745.00	349000	Mid	left	10 mm	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	108	54	21.0	20.01	0	0.01	1:1	0.084	1.256	0.106	
1745.00	349000	Mid	bottom	10 mm	NR Band n66	A	75	0028M	40	DFT-S-OFDM	QPSK	108	108	20.5	20.16	0	-0.01	1:1	0.964	1.081	1.042	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Note: Blue entry represents variability measurement.

Table 11-62
NR Band n25 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																					
1882.50	376500	Mid	back	10 mm	NR Band n25	A	65	0028M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.43	0	-0.01	1:1	0.354	1.279	0.453	
1882.50	376500	Mid	back	10 mm	NR Band n25	A	65	0028M	40	DFT-S-OFDM	QPSK	108	54	18.5	17.53	0	0.00	1:1	0.359	1.250	0.449	
1882.50	376500	Mid	front	10 mm	NR Band n25	A	64	0028M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.43	0	0.01	1:1	0.243	1.279	0.311	
1882.50	376500	Mid	front	10 mm	NR Band n25	A	64	0028M	40	DFT-S-OFDM	QPSK	108	54	18.5	17.53	0	0.02	1:1	0.250	1.250	0.313	
1882.50	376500	Mid	bottom	10 mm	NR Band n25	A	65	0028M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.43	0	0.09	1:1	0.745	1.279	0.953	
1882.50	376500	Mid	bottom	10 mm	NR Band n25	A	65	0028M	40	DFT-S-OFDM	QPSK	108	54	18.5	17.53	0	-0.01	1:1	0.767	1.250	0.959	
1882.50	376500	Mid	bottom	10 mm	NR Band n25	A	65	0028M	40	DFT-S-OFDM	QPSK	216	0	18.5	17.42	0	0.01	1:1	0.770	1.282	0.987	AB4
1882.50	376500	Mid	bottom	10 mm	NR Band n25	A	65	0028M	40	CP-OFDM	QPSK	1	1	18.5	17.34	0	0.01	1:1	0.749	1.306	0.978	
1882.50	376500	Mid	right	10 mm	NR Band n25	A	65	0028M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.43	0	0.00	1:1	0.026	1.279	0.033	
1882.50	376500	Mid	right	10 mm	NR Band n25	A	65	0028M	40	DFT-S-OFDM	QPSK	108	54	18.5	17.53	0	0.20	1:1	0.027	1.250	0.034	
1882.50	376500	Mid	left	10 mm	NR Band n25	A	65	0028M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.43	0	0.11	1:1	0.038	1.279	0.049	
1882.50	376500	Mid	left	10 mm	NR Band n25	A	65	0028M	40	DFT-S-OFDM	QPSK	108	54	18.5	17.53	0	-0.01	1:1	0.038	1.250	0.048	
1882.50	376500	Mid	back	10 mm	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	1	1	21.0	20.09	0	0.00	1:1	0.184	1.233	0.227	
1882.50	376500	Mid	back	10 mm	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	108	54	21.0	20.22	0	0.02	1:1	0.196	1.197	0.235	
1882.50	376500	Mid	front	10 mm	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	1	1	21.0	20.09	0	0.01	1:1	0.164	1.233	0.202	
1882.50	376500	Mid	front	10 mm	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	108	54	21.0	20.22	0	-0.03	1:1	0.180	1.197	0.215	
1882.50	376500	Mid	top	10 mm	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	1	1	21.0	20.09	0	-0.01	1:1	0.542	1.233	0.668	
1882.50	376500	Mid	top	10 mm	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	108	54	21.0	20.22	0	-0.02	1:1	0.567	1.197	0.679	
1882.50	376500	Mid	top	10 mm	NR Band n25	F	N/A	1623M	40	CP-OFDM	QPSK	1	1	21.0	19.98	0	-0.06	1:1	0.573	1.265	0.725	
1882.50	376500	Mid	left	10 mm	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	1	1	21.0	20.09	0	0.03	1:1	0.080	1.233	0.099	
1882.50	376500	Mid	left	10 mm	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	108	54	21.0	20.22	0	0.03	1:1	0.083	1.197	0.099	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT													Body									
Spatial Peak													1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population													averaged over 1 gram									

FCC ID: A3LSMS918U	SAR EVALUATION REPORT										Approved by: Technical Manager									
Document S/N: 1M2209010098-03.A3L (Rev1)	DUT Type: Portable Handset										Page 169 of 215									

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Table 11-63
NR Band n30 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2310.00	462000	Mid	back	10 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	1	26	20.0	19.82	0	0.05	1:1	0.373	1.042	0.389	
2310.00	462000	Mid	back	10 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	25	14	20.0	19.90	0	-0.01	1:1	0.373	1.023	0.382	
2310.00	462000	Mid	front	10 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	1	26	20.0	19.82	0	0.04	1:1	0.374	1.042	0.390	
2310.00	462000	Mid	front	10 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	25	14	20.0	19.90	0	0.02	1:1	0.389	1.023	0.398	
2310.00	462000	Mid	bottom	10 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	1	26	20.0	19.82	0	-0.01	1:1	0.937	1.042	0.976	
2310.00	462000	Mid	bottom	10 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	25	14	20.0	19.90	0	-0.05	1:1	0.990	1.023	1.013	
2310.00	462000	Mid	bottom	10 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	50	0	20.0	19.81	0	0.01	1:1	0.977	1.045	1.021	
2310.00	462000	Mid	bottom	10 mm	NR Band n30	A	0028M	10	CP-OFDM	QPSK	1	1	20.0	19.83	0	-0.01	1:1	1.010	1.040	1.050	A65
2310.00	462000	Mid	right	10 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	1	26	20.0	19.82	0	0.02	1:1	0.095	1.042	0.099	
2310.00	462000	Mid	right	10 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	25	14	20.0	19.90	0	0.01	1:1	0.098	1.023	0.100	
2310.00	462000	Mid	left	10 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	1	26	20.0	19.82	0	0.08	1:1	0.052	1.042	0.054	
2310.00	462000	Mid	left	10 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	25	14	20.0	19.90	0	0.11	1:1	0.054	1.023	0.055	
2310.00	462000	Mid	back	10 mm	NR Band n30	F	1673M	10	DFT-S-OFDM	QPSK	1	1	21.0	20.33	0	-0.06	1:1	0.168	1.167	0.196	
2310.00	462000	Mid	back	10 mm	NR Band n30	F	1673M	10	DFT-S-OFDM	QPSK	25	14	21.0	20.37	0	-0.11	1:1	0.165	1.156	0.191	
2310.00	462000	Mid	front	10 mm	NR Band n30	F	1673M	10	DFT-S-OFDM	QPSK	1	1	21.0	20.33	0	-0.08	1:1	0.078	1.167	0.091	
2310.00	462000	Mid	front	10 mm	NR Band n30	F	1673M	10	DFT-S-OFDM	QPSK	25	14	21.0	20.37	0	-0.16	1:1	0.082	1.156	0.095	
2310.00	462000	Mid	top	10 mm	NR Band n30	F	1673M	10	DFT-S-OFDM	QPSK	1	1	21.0	20.33	0	-0.05	1:1	0.242	1.167	0.282	
2310.00	462000	Mid	top	10 mm	NR Band n30	F	1673M	10	DFT-S-OFDM	QPSK	25	14	21.0	20.37	0	-0.03	1:1	0.239	1.156	0.276	
2310.00	462000	Mid	top	10 mm	NR Band n30	F	1673M	10	CP-OFDM	QPSK	1	1	21.0	20.40	0	0.01	1:1	0.249	1.148	0.286	
2310.00	462000	Mid	left	10 mm	NR Band n30	F	1673M	10	DFT-S-OFDM	QPSK	1	1	21.0	20.33	0	0.02	1:1	0.043	1.167	0.050	
2310.00	462000	Mid	left	10 mm	NR Band n30	F	1673M	10	DFT-S-OFDM	QPSK	25	14	21.0	20.37	0	0.09	1:1	0.042	1.156	0.049	
2310.00	462000	Mid	bottom	10 mm	NR Band n30	A	0028M	10	CP-OFDM	QPSK	1	1	20.0	19.83	0	0.02	1:1	0.932	1.040	0.969	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Note: Blue entry represents variability measurement.

Table 11-64
NR Band n7 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [W/kg]	Scaling Factor	Reported SAR [W/kg]	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2535.00	507000	Mid	back	10 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	1	108	21.0	20.03	0	0.02	1:1	0.451	1.250	0.564	A56
2535.00	507000	Mid	back	10 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	108	108	21.0	20.12	0	0.02	1:1	0.448	1.225	0.549	
2535.00	507000	Mid	front	10 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	1	108	21.0	20.03	0	0.03	1:1	0.352	1.250	0.440	
2535.00	507000	Mid	front	10 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	108	108	21.0	20.12	0	0.05	1:1	0.359	1.225	0.440	
2535.00	507000	Mid	bottom	10 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	1	108	21.0	20.03	0	0.03	1:1	0.798	1.250	0.998	
2535.00	507000	Mid	bottom	10 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	108	108	21.0	20.12	0	-0.01	1:1	0.796	1.225	0.975	
2535.00	507000	Mid	bottom	10 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	216	0	21.0	20.01	0	0.02	1:1	0.789	1.256	0.991	
2535.00	507000	Mid	bottom	10 mm	NR Band n7	B	0028M	40	CP-OFDM	QPSK	1	1	21.0	20.13	0	0.04	1:1	0.774	1.222	0.946	
2535.00	507000	Mid	right	10 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	1	108	21.0	20.03	0	0.08	1:1	0.201	1.250	0.251	
2535.00	507000	Mid	right	10 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	108	108	21.0	20.12	0	0.00	1:1	0.190	1.225	0.233	
2535.00	507000	Mid	back	10 mm	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.73	0	0.02	1:1	0.338	1.194	0.404	
2535.00	507000	Mid	back	10 mm	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.88	0	0.04	1:1	0.344	1.153	0.397	
2535.00	507000	Mid	front	10 mm	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.73	0	0.05	1:1	0.205	1.194	0.245	
2535.00	507000	Mid	front	10 mm	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.88	0	0.02	1:1	0.208	1.153	0.240	
2535.00	507000	Mid	top	10 mm	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.73	0	0.04	1:1	0.504	1.194	0.602	
2535.00	507000	Mid	top	10 mm	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.88	0	-0.01	1:1	0.527	1.153	0.608	
2535.00	507000	Mid	top	10 mm	NR Band n7	F	1673M	40	CP-OFDM	QPSK	1	1	19.5	18.82	0	0.01	1:1	0.550	1.169	0.643	
2535.00	507000	Mid	left	10 mm	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.73	0	0.14	1:1	0.057	1.194	0.068	
2535.00	507000	Mid	left	10 mm	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.88	0	-0.06	1:1	0.063	1.153	0.073	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak											Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																					

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Table 11-65
NR Band n41 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Path	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [1g] (W/kg)	Scaling Factor	Reported SAR [1g] (W/kg)	Plot #	
MHz	Ch.																					
2592.99	518598	Mid	back	10 mm	NR Band n41	F	Path 1	1648M	100	DFT-S-OFDM	QPSK	1	137	20.0	19.33	0	0.01	1:1	0.201	1.167	0.235	
2592.99	518598	Mid	back	10 mm	NR Band n41	F	Path 1	1648M	100	DFT-S-OFDM	QPSK	135	69	20.0	19.25	0	0.03	1:1	0.198	1.189	0.235	
2592.99	518598	Mid	front	10 mm	NR Band n41	F	Path 1	1648M	100	DFT-S-OFDM	QPSK	1	137	20.0	19.33	0	-0.01	1:1	0.134	1.167	0.156	
2592.99	518598	Mid	front	10 mm	NR Band n41	F	Path 1	1648M	100	DFT-S-OFDM	QPSK	135	69	20.0	19.25	0	0.00	1:1	0.135	1.189	0.161	
2592.99	518598	Mid	top	10 mm	NR Band n41	F	Path 1	1648M	100	DFT-S-OFDM	QPSK	1	137	20.0	19.33	0	-0.09	1:1	0.509	1.167	0.594	
2592.99	518598	Mid	top	10 mm	NR Band n41	F	Path 1	1648M	100	DFT-S-OFDM	QPSK	135	69	20.0	19.25	0	-0.02	1:1	0.498	1.189	0.592	
2592.99	518598	Mid	top	10 mm	NR Band n41	F	Path 1	1648M	100	CP-OFDM	QPSK	1	1	20.0	19.01	0	-0.02	1:1	0.528	1.256	0.663	A67
2592.99	518598	Mid	top	10 mm	NR Band n41	F	Path 2	1648M	100	CWISRS	N/A	N/A	N/A	18.0	17.01	N/A	0.01	1:1	0.298	1.256	0.374	
2592.99	518598	Mid	left	10 mm	NR Band n41	F	Path 1	1648M	100	DFT-S-OFDM	QPSK	1	137	20.0	19.33	0	0.20	1:1	0.036	1.167	0.042	
2592.99	518598	Mid	left	10 mm	NR Band n41	F	Path 1	1648M	100	DFT-S-OFDM	QPSK	135	69	20.0	19.25	0	0.08	1:1	0.038	1.189	0.045	
2592.99	518598	Mid	back	10 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	1	137	20.0	19.03	0	-0.02	1:1	0.220	1.250	0.275	
2592.99	518598	Mid	back	10 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	135	69	20.0	19.02	0	-0.07	1:1	0.225	1.253	0.282	
2592.99	518598	Mid	front	10 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	1	137	20.0	19.03	0	0.05	1:1	0.210	1.250	0.263	
2592.99	518598	Mid	front	10 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	135	69	20.0	19.02	0	0.08	1:1	0.209	1.253	0.262	
2592.99	518598	Mid	bottom	10 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	1	137	20.0	19.03	0	-0.05	1:1	0.413	1.250	0.516	
2592.99	518598	Mid	bottom	10 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	135	69	20.0	19.02	0	-0.04	1:1	0.403	1.253	0.505	
2592.99	518598	Mid	bottom	10 mm	NR Band n41	B	Path 2	1648M	100	CP-OFDM	QPSK	1	1	20.0	18.85	0	0.04	1:1	0.353	1.303	0.460	
2592.99	518598	Mid	bottom	10 mm	NR Band n41	B	Path 1	1648M	100	CWISRS	N/A	N/A	N/A	18.0	16.97	N/A	-0.06	1:1	0.300	1.268	0.380	
2592.99	518598	Mid	right	10 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	1	137	20.0	19.03	0	0.03	1:1	0.145	1.250	0.181	
2592.99	518598	Mid	right	10 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	135	69	20.0	19.02	0	0.02	1:1	0.148	1.253	0.185	
2592.99	518598	Mid	back	10 mm	NR Band n41	E	Path 1	1648M	100	CWISRS	N/A	N/A	N/A	16.0	15.00	N/A	0.19	1:1	0.056	1.259	0.071	
2592.99	518598	Mid	front	10 mm	NR Band n41	E	Path 1	1648M	100	CWISRS	N/A	N/A	N/A	16.0	15.00	N/A	-0.02	1:1	0.083	1.259	0.104	
2592.99	518598	Mid	front	10 mm	NR Band n41	E	Path 2	1648M	100	CWISRS	N/A	N/A	N/A	15.0	13.88	N/A	0.16	1:1	0.033	1.294	0.043	
2592.99	518598	Mid	top	10 mm	NR Band n41	E	Path 1	1648M	100	CWISRS	N/A	N/A	N/A	16.0	15.00	N/A	0.15	1:1	0.067	1.259	0.084	
2592.99	518598	Mid	right	10 mm	NR Band n41	E	Path 1	1648M	100	CWISRS	N/A	N/A	N/A	16.0	15.00	N/A	0.00	1:1	0.046	1.259	0.058	
2592.99	518598	Mid	back	10 mm	NR Band n41	D	Path 1	1648M	100	CWISRS	N/A	N/A	N/A	17.5	16.50	N/A	-0.02	1:1	0.169	1.259	0.213	
2592.99	518598	Mid	back	10 mm	NR Band n41	D	Path 2	1648M	100	CWISRS	N/A	N/A	N/A	17.0	16.20	N/A	0.12	1:1	0.148	1.202	0.178	
2592.99	518598	Mid	front	10 mm	NR Band n41	D	Path 1	1648M	100	CWISRS	N/A	N/A	N/A	17.5	16.50	N/A	0.19	1:1	0.018	1.259	0.023	
2592.99	518598	Mid	bottom	10 mm	NR Band n41	D	Path 1	1648M	100	CWISRS	N/A	N/A	N/A	17.5	16.50	N/A	0.11	1:1	0.036	1.259	0.045	
2592.99	518598	Mid	left	10 mm	NR Band n41	D	Path 1	1648M	100	CWISRS	N/A	N/A	N/A	17.5	16.50	N/A	0.16	1:1	0.013	1.259	0.016	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT													Body									
Spatial Peak													1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population													averaged over 1 gram									

Note: Light purple entries indicate the additional check on the worst case exposure scenario for the n41 pathway that is not fully evaluated.

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Table 11-66
NR Band n48 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
3570.00	638000	Low	back	10 mm	NR Band n48	G	1611M	40	DFT-S-OFDM	QPSK	1	1	19.0	18.20	0	-0.07	1:1	0.315	1.202	0.379	A88
3570.00	638000	Low	back	10 mm	NR Band n48	G	1611M	40	DFT-S-OFDM	QPSK	50	0	19.0	18.12	0	0.05	1:1	0.304	1.225	0.372	
3570.00	638000	Low	back	10 mm	NR Band n48	G	1611M	40	CP-OFDM	QPSK	1	1	19.0	18.11	0	0.01	1:1	0.305	1.227	0.374	
3570.00	638000	Low	front	10 mm	NR Band n48	G	1611M	40	DFT-S-OFDM	QPSK	1	1	19.0	18.20	0	-0.03	1:1	0.131	1.202	0.157	
3570.00	638000	Low	front	10 mm	NR Band n48	G	1611M	40	DFT-S-OFDM	QPSK	50	0	19.0	18.12	0	0.01	1:1	0.132	1.225	0.162	
3570.00	638000	Low	top	10 mm	NR Band n48	G	1611M	40	DFT-S-OFDM	QPSK	1	1	19.0	18.20	0	-0.09	1:1	0.250	1.202	0.301	
3570.00	638000	Low	top	10 mm	NR Band n48	G	1611M	40	DFT-S-OFDM	QPSK	50	0	19.0	18.12	0	0.05	1:1	0.247	1.225	0.303	
3570.00	638000	Low	left	10 mm	NR Band n48	G	1611M	40	DFT-S-OFDM	QPSK	1	1	19.0	18.20	0	0.06	1:1	0.245	1.202	0.294	
3570.00	638000	Low	left	10 mm	NR Band n48	G	1611M	40	DFT-S-OFDM	QPSK	50	0	19.0	18.12	0	0.00	1:1	0.235	1.225	0.288	
3624.99	641666	Mid	back	10 mm	NR Band n48	C	1611M	40	CW/SSRS	N/A	N/A	N/A	14.5	13.81	N/A	0.06	1:1	0.082	1.172	0.096	
3624.99	641666	Mid	front	10 mm	NR Band n48	C	1611M	40	CW/SSRS	N/A	N/A	N/A	14.5	13.81	N/A	0.07	1:1	0.033	1.172	0.039	
3624.99	641666	Mid	bottom	10 mm	NR Band n48	C	1611M	40	CW/SSRS	N/A	N/A	N/A	14.5	13.81	N/A	0.01	1:1	0.016	1.172	0.019	
3624.99	641666	Mid	right	10 mm	NR Band n48	C	1611M	40	CW/SSRS	N/A	N/A	N/A	14.5	13.81	N/A	0.05	1:1	0.106	1.172	0.124	
3570.00	638000	Low	back	10 mm	NR Band n48	I	1611M	40	CW/SSRS	N/A	N/A	N/A	16.5	15.73	N/A	-0.01	1:1	0.204	1.194	0.244	
3570.00	638000	Low	front	10 mm	NR Band n48	I	1611M	40	CW/SSRS	N/A	N/A	N/A	16.5	15.73	N/A	-0.16	1:1	0.064	1.194	0.076	
3570.00	638000	Low	left	10 mm	NR Band n48	I	1611M	40	CW/SSRS	N/A	N/A	N/A	16.5	15.73	N/A	0.09	1:1	0.076	1.194	0.091	
3624.99	641666	Mid	back	10 mm	NR Band n48	D	1611M	40	CW/SSRS	N/A	N/A	N/A	14.5	13.90	N/A	0.01	1:1	0.150	1.148	0.172	
3624.99	641666	Mid	front	10 mm	NR Band n48	D	1611M	40	CW/SSRS	N/A	N/A	N/A	14.5	13.90	N/A	0.03	1:1	0.008	1.148	0.009	
3624.99	641666	Mid	bottom	10 mm	NR Band n48	D	1611M	40	CW/SSRS	N/A	N/A	N/A	14.5	13.90	N/A	-0.11	1:1	0.031	1.148	0.036	
3624.99	641666	Mid	left	10 mm	NR Band n48	D	1611M	40	CW/SSRS	N/A	N/A	N/A	14.5	13.90	N/A	0.05	1:1	0.010	1.148	0.011	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

Table 11-67
NR Band n77 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																				
3500.01	633334	Mid	top	10 mm	NR Band n77 DoD	G	1651M	100	DFT-S-OFDM	QPSK	1	271	19.0	18.42	0	-0.10	1:1	0.312	1.143	0.357	A89
3500.01	633334	Mid	right	10 mm	NR Band n77 DoD	C	1611M	100	CW/SSRS	N/A	N/A	N/A	15.0	13.96	N/A	0.00	1:1	0.141	1.271	0.179	
3500.01	633334	Mid	back	10 mm	NR Band n77 DoD	I	1619M	100	CW/SSRS	N/A	N/A	N/A	18.0	16.11	N/A	0.07	1:1	0.139	1.545	0.215	
3500.01	633334	Mid	back	10 mm	NR Band n77 DoD	D	1619M	100	CW/SSRS	N/A	N/A	N/A	15.5	13.66	N/A	0.03	1:1	0.083	1.528	0.127	
3750.00	650000	Low	back	10 mm	NR Band n77	G	1611M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.74	0	0.05	1:1	0.250	1.062	0.266	
3750.00	650000	Low	back	10 mm	NR Band n77	G	1611M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.71	0	-0.07	1:1	0.236	1.069	0.252	
3750.00	650000	Low	front	10 mm	NR Band n77	G	1611M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.74	0	-0.16	1:1	0.143	1.062	0.152	
3750.00	650000	Low	front	10 mm	NR Band n77	G	1611M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.71	0	0.15	1:1	0.120	1.069	0.128	
3750.00	650000	Low	top	10 mm	NR Band n77	G	1611M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.74	0	-0.12	1:1	0.264	1.062	0.280	
3750.00	650000	Low	top	10 mm	NR Band n77	G	1611M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.71	0	-0.03	1:1	0.302	1.069	0.323	A90
3750.00	650000	Low	top	10 mm	NR Band n77	G	1611M	100	CP-OFDM	QPSK	1	1	19.0	18.57	0	0.12	1:1	0.241	1.104	0.266	
3750.00	650000	Low	left	10 mm	NR Band n77	G	1611M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.74	0	0.06	1:1	0.250	1.062	0.266	
3750.00	650000	Low	left	10 mm	NR Band n77	G	1611M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.71	0	0.05	1:1	0.223	1.069	0.238	
3750.00	650000	Low	back	10 mm	NR Band n77	C	1611M	100	CW/SSRS	N/A	N/A	N/A	15.0	14.14	N/A	0.07	1:1	0.032	1.219	0.039	
3750.00	650000	Low	front	10 mm	NR Band n77	C	1611M	100	CW/SSRS	N/A	N/A	N/A	15.0	14.14	N/A	0.20	1:1	0.012	1.219	0.015	
3750.00	650000	Low	bottom	10 mm	NR Band n77	C	1611M	100	CW/SSRS	N/A	N/A	N/A	15.0	14.14	N/A	0.09	1:1	0.003	1.219	0.004	
3750.00	650000	Low	right	10 mm	NR Band n77	C	1611M	100	CW/SSRS	N/A	N/A	N/A	15.0	14.14	N/A	-0.02	1:1	0.042	1.219	0.051	
3750.00	650000	Low	back	10 mm	NR Band n77	I	1611M	100	CW/SSRS	N/A	N/A	N/A	18.0	16.25	N/A	0.08	1:1	0.178	1.496	0.266	
3750.00	650000	Low	front	10 mm	NR Band n77	I	1611M	100	CW/SSRS	N/A	N/A	N/A	18.0	16.25	N/A	0.02	1:1	0.044	1.496	0.066	
3750.00	650000	Low	left	10 mm	NR Band n77	I	1611M	100	CW/SSRS	N/A	N/A	N/A	18.0	16.25	N/A	0.09	1:1	0.046	1.496	0.069	
3750.00	650000	Low	back	10 mm	NR Band n77	D	1611M	100	CW/SSRS	N/A	N/A	N/A	15.5	14.36	N/A	0.04	1:1	0.094	1.300	0.122	
3750.00	650000	Low	front	10 mm	NR Band n77	D	1611M	100	CW/SSRS	N/A	N/A	N/A	15.5	14.36	N/A	0.01	1:1	0.000	1.300	0.000	
3750.00	650000	Low	bottom	10 mm	NR Band n77	D	1611M	100	CW/SSRS	N/A	N/A	N/A	15.5	14.36	N/A	0.06	1:1	0.020	1.300	0.026	
3750.00	650000	Low	left	10 mm	NR Band n77	D	1611M	100	CW/SSRS	N/A	N/A	N/A	15.5	14.36	N/A	0.04	1:1	0.009	1.300	0.012	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

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Table 11-68
DTS SISO WLAN Hotspot SAR

MEASUREMENT RESULTS																			
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maxim um Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	
2437	6	back	10 mm	802.11b	DSSS	2	1469M	22	1	20.0	19.79	-0.04	100.00	98.90	0.136	1.050	1.011	0.144	
2437	6	front	10 mm	802.11b	DSSS	2	1469M	22	1	20.0	19.79	-0.03	100.00	98.90	0.132	1.050	1.011	0.140	
2437	6	top	10 mm	802.11b	DSSS	2	1469M	22	1	20.0	19.79	-0.01	100.00	98.90	0.004	1.050	1.011	0.004	
2437	6	right	10 mm	802.11b	DSSS	2	1469M	22	1	20.0	19.79	-0.01	100.00	98.90	0.073	1.050	1.011	0.077	
2412	1	back	10 mm	802.11b	DSSS	2	1469M	22	1	17.0	16.64	-0.02	100.00	98.90	0.083	1.086	1.011	0.091	
2412	1	front	10 mm	802.11b	DSSS	2	1469M	22	1	17.0	16.64	-0.04	100.00	98.90	0.059	1.086	1.011	0.065	
2412	1	top	10 mm	802.11b	DSSS	2	1469M	22	1	17.0	16.64	0.13	100.00	98.90	0.004	1.086	1.011	0.004	
2412	1	right	10 mm	802.11b	DSSS	2	1469M	22	1	17.0	16.64	-0.04	100.00	98.90	0.036	1.086	1.011	0.040	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-69
DTS MIMO WLAN Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR(1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																				
2412	1	back	10 mm	802.11b	DSSS	MIMO	1469M	22	1	20.0	19.94	20.0	19.68	0.00	100.00	98.90	0.186	1.076	1.011	0.202	
2412	1	front	10 mm	802.11b	DSSS	MIMO	1469M	22	1	20.0	19.94	20.0	19.68	0.00	100.00	98.90	0.128	1.076	1.011	0.139	
2412	1	top	10 mm	802.11b	DSSS	MIMO	1469M	22	1	20.0	19.94	20.0	19.68	0.02	100.00	98.90	0.123	1.076	1.011	0.134	
2412	1	right	10 mm	802.11b	DSSS	MIMO	1469M	22	1	20.0	19.94	20.0	19.68	-0.05	100.00	98.90	0.099	1.076	1.011	0.108	
2412	1	left	10 mm	802.11b	DSSS	MIMO	1469M	22	1	20.0	19.94	20.0	19.68	0.00	100.00	98.90	0.375	1.076	1.011	0.408	A91
2462	11	back	10 mm	802.11n	OFDM	MIMO	1469M	20	13	17.0	16.22	17.0	16.90	-0.06	100.00	92.20	0.093	1.197	1.085	0.121	
2462	11	front	10 mm	802.11n	OFDM	MIMO	1469M	20	13	17.0	16.22	17.0	16.90	0.03	100.00	92.20	0.065	1.197	1.085	0.084	
2462	11	top	10 mm	802.11n	OFDM	MIMO	1469M	20	13	17.0	16.22	17.0	16.90	0.00	100.00	92.20	0.038	1.197	1.085	0.049	
2462	11	right	10 mm	802.11n	OFDM	MIMO	1469M	20	13	17.0	16.22	17.0	16.90	0.05	100.00	92.20	0.039	1.197	1.085	0.051	
2462	11	left	10 mm	802.11n	OFDM	MIMO	1469M	20	13	17.0	16.22	17.0	16.90	0.00	100.00	92.20	0.180	1.197	1.085	0.234	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT															Body						
Spatial Peak															1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population															averaged over 1 gram						

Note: At max power, to achieve the 23.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 20.0 dBm. During simultaneous conditions with 5/6 GHz WLAN and/or 5G NR, to achieve the 20.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17.0 dBm.

Table 11-70
NII MIMO WLAN SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR(1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																				
5785	157	back	10 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.48	17.5	17.09	0.07	100.00	92.87	0.161	1.099	1.077	0.191	A92
5785	157	front	10 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.48	17.5	17.09	0.01	100.00	92.87	0.086	1.099	1.077	0.102	
5785	157	top	10 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.48	17.5	17.09	0.06	100.00	92.87	0.139	1.099	1.077	0.165	
5785	157	right	10 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.48	17.5	17.09	-0.01	100.00	92.87	0.099	1.099	1.077	0.117	
5785	157	left	10 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.48	17.5	17.09	0.03	100.00	92.87	0.122	1.099	1.077	0.144	
5775	155	back	10 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.20	15.0	14.77	-0.17	100.00	92.21	0.106	1.202	1.084	0.138	
5775	155	front	10 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.20	15.0	14.77	0.05	100.00	92.21	0.060	1.202	1.084	0.078	
5775	155	top	10 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.20	15.0	14.77	0.06	100.00	92.21	0.085	1.202	1.084	0.111	
5775	155	right	10 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.20	15.0	14.77	0.06	100.00	92.21	0.058	1.202	1.084	0.076	
5775	155	left	10 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.20	15.0	14.77	0.09	100.00	92.21	0.120	1.202	1.084	0.156	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

Note: At max power, to achieve the 20.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17.5 dBm. During simultaneous conditions with 2.4 GHz WLAN and/or 5G NR, to achieve the 18.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15.0 dBm.

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Table 11-71
DSS Hotspot SAR

MEASUREMENT RESULTS																		
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													(W/kg)			(W/kg)	
2441	39	back	10 mm	Bluetooth	FHSS	1	1521M	1	18.5	18.18	0.06	79.00	77.09	0.061	1.076	1.025	0.067	
2441	39	front	10 mm	Bluetooth	FHSS	1	1521M	1	18.5	18.18	0.04	79.00	77.09	0.076	1.076	1.025	0.084	
2441	39	top	10 mm	Bluetooth	FHSS	1	1521M	1	18.5	18.18	-0.09	79.00	77.09	0.043	1.076	1.025	0.047	
2441	39	left	10 mm	Bluetooth	FHSS	1	1521M	1	18.5	18.18	-0.10	79.00	77.09	0.196	1.076	1.025	0.216	A93
2440	19	left	10 mm	Bluetooth LE	DSSS	1	1521M	1	18.5	18.36	0.17	87.00	85.60	0.047	1.033	1.016	0.049	
2441	39	back	10 mm	Bluetooth	FHSS	2	1521M	1	18.5	17.72	0.01	79.00	77.03	0.041	1.197	1.026	0.050	
2402	0	back	10 mm	Bluetooth LE	DSSS	2	1521M	1	18.5	17.82	0.15	87.00	85.94	0.033	1.169	1.012	0.039	
2441	39	front	10 mm	Bluetooth	FHSS	2	1521M	1	18.5	17.72	0.04	79.00	77.03	0.039	1.197	1.026	0.048	
2441	39	top	10 mm	Bluetooth	FHSS	2	1521M	1	18.5	17.72	-0.14	79.00	77.03	0.000	1.197	1.026	0.000	
2441	39	right	10 mm	Bluetooth	FHSS	2	1521M	1	18.5	17.72	-0.07	79.00	77.03	0.020	1.197	1.026	0.025	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body									
Spatial Peak									1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population									averaged over 1 gram									

Note: Light green entries indicate the additional check on the worst case exposure scenario for BT LE that is not fully evaluated.

Table 11-72
DSS MIMO Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR(1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															(W/kg)			(W/kg)	
2441	39	back	10 mm	Bluetooth	FHSS	MIMO	1521M	1	14.5	14.49	14.5	13.46	0.04	79.00	77.03	0.040	1.271	1.026	0.041	
2441	39	front	10 mm	Bluetooth	FHSS	MIMO	1521M	1	14.5	14.49	14.5	13.46	0.04	79.00	77.03	0.036	1.271	1.026	0.037	
2441	39	top	10 mm	Bluetooth	FHSS	MIMO	1521M	1	14.5	14.49	14.5	13.46	0.08	79.00	77.03	0.000	1.271	1.026	0.000	
2441	39	right	10 mm	Bluetooth	FHSS	MIMO	1521M	1	14.5	14.49	14.5	13.46	0.03	79.00	77.03	0.025	1.271	1.026	0.026	
2441	39	left	10 mm	Bluetooth	FHSS	MIMO	1521M	1	14.5	14.49	14.5	13.46	0.04	79.00	77.03	0.002	1.271	1.026	0.002	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body											
Spatial Peak									1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population									averaged over 1 gram											

Note: To achieve the 17.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14.5 dBm.

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11.4 Standalone Phablet SAR Data

Table 11-73
GSM 1900 Phablet SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	# of Time Slots	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
1909.80	810	back	8 mm	GSM 1900	GPRS	A	0164M	3	27.5	26.40	-0.06	1:2.76	0.497	1.288	0.640	
1909.80	810	front	6 mm	GSM 1900	GPRS	A	0164M	3	27.5	26.40	-0.03	1:2.76	0.637	1.288	0.820	
1909.80	810	bottom	12 mm	GSM 1900	GPRS	A	0164M	3	27.5	26.40	-0.02	1:2.76	0.696	1.288	0.896	
1909.80	810	right	0 mm	GSM 1900	GPRS	A	0164M	3	27.5	26.40	-0.05	1:2.76	0.237	1.288	0.305	
1909.80	810	left	0 mm	GSM 1900	GPRS	A	0164M	3	27.5	26.40	0.00	1:2.76	0.175	1.288	0.225	
1909.80	810	back	0 mm	GSM 1900	GPRS	A	0164M	4	24.2	24.01	0.00	1:2.076	0.913	1.045	0.954	
1909.80	810	front	0 mm	GSM 1900	GPRS	A	0164M	4	24.2	24.01	-0.02	1:2.076	0.697	1.045	0.728	
1850.20	512	bottom	0 mm	GSM 1900	GPRS	A	0164M	4	24.2	23.85	0.02	1:2.076	1.250	1.084	1.355	
1880.00	661	bottom	0 mm	GSM 1900	GPRS	A	0164M	4	24.2	23.86	-0.03	1:2.076	1.710	1.081	1.849	A94
1909.80	810	bottom	0 mm	GSM 1900	GPRS	A	0164M	4	24.2	24.01	0.01	1:2.076	1.610	1.045	1.682	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams									

Table 11-74
UMTS Phablet SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Tune State	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
1732.40	1412	back	8 mm	UMTS 1750	RMC	A	71	0172M	24.0	22.77	-0.01	1:1	0.768	1.327	1.019	
1732.40	1412	front	6 mm	UMTS 1750	RMC	A	133	0172M	24.0	22.77	0.00	1:1	0.974	1.327	1.292	
1732.40	1412	bottom	12 mm	UMTS 1750	RMC	A	71	0172M	24.0	22.77	-0.02	1:1	0.977	1.327	1.296	
1732.40	1412	right	0 mm	UMTS 1750	RMC	A	32	0172M	24.0	22.77	-0.02	1:1	0.600	1.327	0.796	
1732.40	1412	left	0 mm	UMTS 1750	RMC	A	32	0172M	24.0	22.77	0.00	1:1	0.279	1.327	0.370	
1732.40	1412	back	0 mm	UMTS 1750	RMC	A	74	0172M	20.0	18.51	-0.01	1:1	1.130	1.409	1.592	
1732.40	1412	front	0 mm	UMTS 1750	RMC	A	32	0172M	20.0	18.51	-0.01	1:1	1.180	1.409	1.663	
1712.40	1312	bottom	0 mm	UMTS 1750	RMC	A	65	0172M	20.0	18.49	0.00	1:1	1.300	1.416	1.841	
1732.40	1412	bottom	0 mm	UMTS 1750	RMC	A	72	0172M	20.0	18.51	0.03	1:1	1.830	1.409	2.578	
1752.60	1513	bottom	0 mm	UMTS 1750	RMC	A	9	0172M	20.0	18.42	0.00	1:1	1.870	1.439	2.691	A95
1880.00	9400	back	8 mm	UMTS 1900	RMC	A	64	0181M	24.0	22.74	0.01	1:1	0.851	1.337	1.138	
1880.00	9400	front	6 mm	UMTS 1900	RMC	A	33	0181M	24.0	22.74	-0.05	1:1	1.040	1.337	1.390	
1880.00	9400	bottom	12 mm	UMTS 1900	RMC	A	133	0181M	24.0	22.74	0.02	1:1	1.120	1.337	1.497	
1880.00	9400	right	0 mm	UMTS 1900	RMC	A	33	0181M	24.0	22.74	-0.03	1:1	0.441	1.337	0.590	
1880.00	9400	left	0 mm	UMTS 1900	RMC	A	37	0181M	24.0	22.74	0.06	1:1	0.323	1.337	0.432	
1907.60	9538	back	0 mm	UMTS 1900	RMC	A	33	0181M	20.5	19.24	0.01	1:1	1.310	1.337	1.751	
1907.60	9538	front	0 mm	UMTS 1900	RMC	A	0	0181M	20.5	19.24	0.00	1:1	1.270	1.337	1.698	
1852.40	9262	bottom	0 mm	UMTS 1900	RMC	A	74	0181M	20.5	19.20	0.00	1:1	2.100	1.349	2.833	
1880.00	9400	bottom	0 mm	UMTS 1900	RMC	A	10	0181M	20.5	19.21	0.00	1:1	2.160	1.346	2.907	A96
1907.60	9538	bottom	0 mm	UMTS 1900	RMC	A	10	0181M	20.5	19.24	-0.02	1:1	2.090	1.337	2.794	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Phablet 4.0 W/kg (mW/g) averaged over 10 grams								

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Table 11-75
LTE Band 66 (AWS) Phablet SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g) [W/kg]	Scaling Factor	Reported SAR (10g) [W/kg]	Plot #	
		MHz	Ch.																				
1 CC Uplink	N/A	1745.00	132322	Mid	back	8 mm	LTE Band 66 (AWS)	A	133	0032M	20	QPSK	1	99	24.5	23.35	0	0.01	1:1	0.828	1.303	1.079	
1 CC Uplink	N/A	1745.00	132322	Mid	back	8 mm	LTE Band 66 (AWS)	A	133	0032M	20	QPSK	50	50	23.5	22.39	1	-0.02	1:1	0.646	1.291	0.834	
1 CC Uplink	N/A	1745.00	132322	Mid	front	6 mm	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	1	99	24.5	23.35	0	0.00	1:1	0.984	1.303	1.282	
1 CC Uplink	N/A	1745.00	132322	Mid	front	6 mm	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	50	50	23.5	22.39	1	0.02	1:1	0.780	1.291	1.007	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	12 mm	LTE Band 66 (AWS)	A	71	0032M	20	QPSK	1	99	24.5	23.35	0	-0.01	1:1	0.898	1.303	1.170	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	12 mm	LTE Band 66 (AWS)	A	71	0032M	20	QPSK	50	50	23.5	22.39	1	-0.01	1:1	0.711	1.291	0.918	
1 CC Uplink	N/A	1745.00	132322	Mid	right	0 mm	LTE Band 66 (AWS)	A	133	0032M	20	QPSK	1	99	24.5	23.35	0	-0.02	1:1	0.647	1.303	0.843	
1 CC Uplink	N/A	1745.00	132322	Mid	right	0 mm	LTE Band 66 (AWS)	A	133	0032M	20	QPSK	50	50	23.5	22.39	1	0.00	1:1	0.504	1.291	0.651	
1 CC Uplink	N/A	1745.00	132322	Mid	left	0 mm	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	1	99	24.5	23.35	0	-0.02	1:1	0.351	1.303	0.457	
1 CC Uplink	N/A	1745.00	132322	Mid	left	0 mm	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	50	50	23.5	22.39	1	-0.01	1:1	0.277	1.291	0.358	
1 CC Uplink	N/A	1770.00	132572	High	back	0 mm	LTE Band 66 (AWS)	A	71	0032M	20	QPSK	1	50	21.0	19.90	0	0.00	1:1	1.310	1.288	1.687	
1 CC Uplink	N/A	1770.00	132572	High	back	0 mm	LTE Band 66 (AWS)	A	71	0032M	20	QPSK	50	25	21.0	19.92	0	0.01	1:1	1.330	1.282	1.705	
1 CC Uplink	N/A	1770.00	132572	High	front	0 mm	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	1	50	21.0	19.90	0	0.00	1:1	1.340	1.288	1.726	
1 CC Uplink	N/A	1770.00	132572	High	front	0 mm	LTE Band 66 (AWS)	A	32	0032M	20	QPSK	50	25	21.0	19.92	0	0.00	1:1	1.350	1.282	1.731	
1 CC Uplink	N/A	1720.00	132072	Low	bottom	0 mm	LTE Band 66 (AWS)	A	74	0032M	20	QPSK	1	99	21.0	19.85	0	0.01	1:1	2.200	1.303	2.867	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	0 mm	LTE Band 66 (AWS)	A	74	0032M	20	QPSK	1	99	21.0	19.84	0	-0.05	1:1	2.150	1.306	2.808	
1 CC Uplink	N/A	1770.00	132572	High	bottom	0 mm	LTE Band 66 (AWS)	A	74	0032M	20	QPSK	1	50	21.0	19.90	0	0.04	1:1	2.090	1.288	2.692	
1 CC Uplink	N/A	1720.00	132072	Low	bottom	0 mm	LTE Band 66 (AWS)	A	74	0032M	20	QPSK	50	25	21.0	19.91	0	0.01	1:1	2.240	1.285	2.878	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	0 mm	LTE Band 66 (AWS)	A	74	0032M	20	QPSK	50	50	21.0	19.90	0	0.00	1:1	2.170	1.288	2.795	
1 CC Uplink	N/A	1770.00	132572	High	bottom	0 mm	LTE Band 66 (AWS)	A	74	0032M	20	QPSK	50	25	21.0	19.92	0	0.02	1:1	2.150	1.282	2.756	
1 CC Uplink	N/A	1720.00	132072	Low	bottom	0 mm	LTE Band 66 (AWS)	A	74	0032M	20	QPSK	100	0	21.0	19.87	0	0.03	1:1	2.220	1.297	2.879	
1 CC Uplink	N/A	1715.00	132022	Low	bottom	0 mm	LTE Band 66 (AWS)	A	74	0032M	10	QPSK	50	0	21.0	19.98	0	0.03	1:1	2.330	1.264	2.945	A97
2 CC Uplink CA_66C	PCC	1720.00	132072	Low	bottom	0 mm	LTE Band 66 (AWS)	A	74	0032M	20	QPSK	100	0	21.0	19.99	0	-0.02	1:1	2.240	1.262	2.827	
	SCC	1739.80	132270										0										
2 CC Uplink CA_66B	PCC	1715.00	132022	Low	bottom	0 mm	LTE Band 66 (AWS)	A	74	0032M	10	QPSK	50	0	21.0	20.03	0	-0.01	1:1	2.290	1.250	2.863	
	SCC	1724.90	132121										0										
1 CC Uplink	N/A	1720.00	132072	Low	top	0 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	50	21.0	19.95	0	0.01	1:1	2.000	1.274	2.548	
1 CC Uplink	N/A	1745.00	132322	Mid	top	0 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	99	21.0	19.94	0	-0.02	1:1	2.080	1.276	2.654	
1 CC Uplink	N/A	1770.00	132572	High	top	0 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	1	50	21.0	19.92	0	0.02	1:1	2.160	1.282	2.769	
1 CC Uplink	N/A	1720.00	132072	Low	top	0 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	21.0	20.00	0	0.01	1:1	2.010	1.259	2.531	
1 CC Uplink	N/A	1745.00	132322	Mid	top	0 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	21.0	19.84	0	0.00	1:1	2.070	1.306	2.703	
1 CC Uplink	N/A	1770.00	132572	High	top	0 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	0	21.0	19.81	0	0.03	1:1	2.100	1.315	2.762	
1 CC Uplink	N/A	1770.00	132572	High	top	0 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	50	21.0	19.84	0	0.00	1:1	2.150	1.306	2.808	
1 CC Uplink	N/A	1720.00	132072	Low	top	0 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	100	0	21.0	19.84	0	-0.01	1:1	2.010	1.306	2.625	
1 CC Uplink	N/A	1775.00	132622	High	top	0 mm	LTE Band 66 (AWS)	F	N/A	1513M	10	QPSK	25	0	21.0	19.84	0	-0.01	1:1	2.200	1.306	2.873	
2 CC Uplink CA_66C	PCC	1770.00	132572	High	top	0 mm	LTE Band 66 (AWS)	F	N/A	1513M	20	QPSK	50	0	21.0	19.95	0	0.08	1:1	2.120	1.274	2.701	
	SCC	1750.20	132374										50										
2 CC Uplink CA_66B	PCC	1775.00	132622	High	top	0 mm	LTE Band 66 (AWS)	F	N/A	1513M	10	QPSK	25	0	21.0	19.94	0	0.00	1:1	2.140	1.276	2.731	
	SCC	1765.10	132523										25										
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Phablet											
Spatial Peak												4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population												averaged over 10 grams											

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Table 11-76
LTE Band 25 (PCS) Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Tune State	Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
1905.00	26590	High	back	8 mm	LTE Band 25 (PCS)	A	65	0164M	20	QPSK	1	99	24.5	23.27	0	0.15	1:1	0.804	1.327	1.067	
1905.00	26590	High	back	8 mm	LTE Band 25 (PCS)	A	65	0164M	20	QPSK	50	50	23.5	22.22	1	0.00	1:1	0.662	1.343	0.889	
1905.00	26590	High	front	6 mm	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	1	99	24.5	23.27	0	0.09	1:1	0.951	1.327	1.262	
1905.00	26590	High	front	6 mm	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	50	50	23.5	22.22	1	-0.01	1:1	0.773	1.343	1.038	
1905.00	26590	High	bottom	12 mm	LTE Band 25 (PCS)	A	36	0164M	20	QPSK	1	99	24.5	23.27	0	0.12	1:1	1.120	1.327	1.486	
1905.00	26590	High	bottom	12 mm	LTE Band 25 (PCS)	A	36	0164M	20	QPSK	50	50	23.5	22.22	1	0.02	1:1	0.919	1.343	1.234	
1905.00	26590	High	right	0 mm	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	1	99	24.5	23.27	0	-0.12	1:1	0.288	1.327	0.382	
1905.00	26590	High	right	0 mm	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	50	50	23.5	22.22	1	0.00	1:1	0.228	1.343	0.306	
1905.00	26590	High	left	0 mm	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	1	99	24.5	23.27	0	0.17	1:1	0.305	1.327	0.405	
1905.00	26590	High	left	0 mm	LTE Band 25 (PCS)	A	0	0164M	20	QPSK	50	50	23.5	22.22	1	0.01	1:1	0.249	1.343	0.334	
1905.00	26590	High	back	0 mm	LTE Band 25 (PCS)	A	71	0164M	20	QPSK	1	0	21.0	20.20	0	0.02	1:1	1.350	1.202	1.623	
1905.00	26590	High	back	0 mm	LTE Band 25 (PCS)	A	71	0164M	20	QPSK	50	25	21.0	20.16	0	0.01	1:1	1.360	1.213	1.650	
1905.00	26590	High	front	0 mm	LTE Band 25 (PCS)	A	67	0164M	20	QPSK	1	0	21.0	20.20	0	0.01	1:1	1.270	1.202	1.527	
1905.00	26590	High	front	0 mm	LTE Band 25 (PCS)	A	67	0164M	20	QPSK	50	25	21.0	20.16	0	0.02	1:1	1.250	1.213	1.516	
1860.00	26140	Low	bottom	0 mm	LTE Band 25 (PCS)	A	73	0164M	20	QPSK	1	50	21.0	20.11	0	-0.05	1:1	1.890	1.227	2.319	
1882.50	26365	Mid	bottom	0 mm	LTE Band 25 (PCS)	A	73	0164M	20	QPSK	1	99	21.0	20.10	0	0.13	1:1	1.880	1.230	2.312	
1905.00	26590	High	bottom	0 mm	LTE Band 25 (PCS)	A	73	0164M	20	QPSK	1	0	21.0	20.20	0	0.02	1:1	1.960	1.202	2.356	A98
1860.00	26140	Low	bottom	0 mm	LTE Band 25 (PCS)	A	73	0164M	20	QPSK	50	0	21.0	20.03	0	-0.01	1:1	1.930	1.250	2.413	
1882.50	26365	Mid	bottom	0 mm	LTE Band 25 (PCS)	A	73	0164M	20	QPSK	50	25	21.0	20.10	0	0.00	1:1	1.930	1.230	2.374	
1905.00	26590	High	bottom	0 mm	LTE Band 25 (PCS)	A	73	0164M	20	QPSK	50	25	21.0	20.16	0	-0.01	1:1	1.940	1.213	2.353	
1905.00	26590	High	bottom	0 mm	LTE Band 25 (PCS)	A	73	0164M	20	QPSK	100	0	21.0	20.10	0	0.02	1:1	1.930	1.230	2.374	
1905.00	26590	High	top	0 mm	LTE Band 25 (PCS)	F	N/A	1492M	20	QPSK	1	0	19.0	17.65	0	-0.01	1:1	0.986	1.365	1.346	
1905.00	26590	High	top	0 mm	LTE Band 25 (PCS)	F	N/A	1492M	20	QPSK	50	50	19.0	17.63	0	-0.01	1:1	0.963	1.371	1.320	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Phablet											Plot #
Spatial Peak										4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 10 grams											

Table 11-77
LTE Band 30 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.	(W/kg)															(W/kg)			
2310.00	27710	Mid	back	8 mm	LTE Band 30	A	0171M	10	QPSK	1	25	23.5	22.20	0	0.03	1:1	0.562	1.349	0.758	
2310.00	27710	Mid	back	8 mm	LTE Band 30	A	0171M	10	QPSK	25	25	22.5	21.16	1	-0.05	1:1	0.466	1.361	0.634	
2310.00	27710	Mid	front	6 mm	LTE Band 30	A	0171M	10	QPSK	1	25	23.5	22.20	0	-0.08	1:1	0.647	1.349	0.873	
2310.00	27710	Mid	front	6 mm	LTE Band 30	A	0171M	10	QPSK	25	25	22.5	21.16	1	0.02	1:1	0.499	1.361	0.679	
2310.00	27710	Mid	bottom	12 mm	LTE Band 30	A	0171M	10	QPSK	1	25	23.5	22.20	0	0.05	1:1	0.698	1.349	0.942	
2310.00	27710	Mid	bottom	12 mm	LTE Band 30	A	0171M	10	QPSK	25	25	22.5	21.16	1	0.00	1:1	0.538	1.361	0.732	
2310.00	27710	Mid	right	0 mm	LTE Band 30	A	0171M	10	QPSK	1	25	23.5	22.20	0	-0.03	1:1	0.641	1.349	0.865	
2310.00	27710	Mid	right	0 mm	LTE Band 30	A	0171M	10	QPSK	25	25	22.5	21.16	1	-0.01	1:1	0.483	1.361	0.657	
2310.00	27710	Mid	left	0 mm	LTE Band 30	A	0171M	10	QPSK	1	25	23.5	22.20	0	0.03	1:1	0.208	1.349	0.281	
2310.00	27710	Mid	left	0 mm	LTE Band 30	A	0171M	10	QPSK	25	25	22.5	21.16	1	0.02	1:1	0.158	1.361	0.215	
2310.00	27710	Mid	back	0 mm	LTE Band 30	A	0171M	10	QPSK	1	25	22.5	21.33	0	0.00	1:1	1.240	1.309	1.623	
2310.00	27710	Mid	back	0 mm	LTE Band 30	A	0171M	10	QPSK	25	25	22.5	21.35	0	-0.01	1:1	1.240	1.303	1.616	
2310.00	27710	Mid	front	0 mm	LTE Band 30	A	0171M	10	QPSK	1	25	22.5	21.33	0	0.02	1:1	1.000	1.309	1.309	
2310.00	27710	Mid	front	0 mm	LTE Band 30	A	0171M	10	QPSK	25	25	22.5	21.35	0	-0.02	1:1	0.976	1.303	1.272	
2310.00	27710	Mid	bottom	0 mm	LTE Band 30	A	0171M	10	QPSK	1	25	22.5	21.33	0	-0.03	1:1	1.290	1.309	1.689	A99
2310.00	27710	Mid	bottom	0 mm	LTE Band 30	A	0171M	10	QPSK	25	25	22.5	21.35	0	-0.05	1:1	1.280	1.303	1.668	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Phablet											Plot #
Spatial Peak									4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population									averaged over 10 grams											

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Table 11-78
LTE Band 7 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																		(W/kg)	
2535.00	21100	Mid	back	8 mm	LTE Band 7	B	0171M	20	QPSK	1	50	24.0	22.84	0	0.01	1:1	0.350	1.306	0.457	
2535.00	21100	Mid	back	8 mm	LTE Band 7	B	0171M	20	QPSK	50	50	23.0	21.73	1	-0.02	1:1	0.280	1.340	0.375	
2535.00	21100	Mid	front	6 mm	LTE Band 7	B	0171M	20	QPSK	1	50	24.0	22.84	0	-0.03	1:1	0.526	1.306	0.687	
2535.00	21100	Mid	front	6 mm	LTE Band 7	B	0171M	20	QPSK	50	50	23.0	21.73	1	-0.01	1:1	0.412	1.340	0.552	
2535.00	21100	Mid	bottom	12 mm	LTE Band 7	B	0171M	20	QPSK	1	50	24.0	22.84	0	-0.05	1:1	0.524	1.306	0.684	
2535.00	21100	Mid	bottom	12 mm	LTE Band 7	B	0171M	20	QPSK	50	50	23.0	21.73	1	0.03	1:1	0.425	1.340	0.570	
2535.00	21100	Mid	right	0 mm	LTE Band 7	B	0171M	20	QPSK	1	50	24.0	22.84	0	-0.06	1:1	1.180	1.306	1.541	
2535.00	21100	Mid	right	0 mm	LTE Band 7	B	0171M	20	QPSK	50	50	23.0	21.73	1	0.01	1:1	0.918	1.340	1.230	
2510.00	20850	Low	back	0 mm	LTE Band 7	B	0171M	20	QPSK	1	50	21.0	19.43	0	0.05	1:1	1.760	1.436	2.527	
2535.00	21100	Mid	back	0 mm	LTE Band 7	B	0171M	20	QPSK	1	50	21.0	19.44	0	0.01	1:1	1.790	1.431	2.561	
2560.00	21350	High	back	0 mm	LTE Band 7	B	0171M	20	QPSK	1	99	21.0	19.62	0	0.03	1:1	1.710	1.374	2.350	
2510.00	20850	Low	back	0 mm	LTE Band 7	B	0171M	20	QPSK	50	25	21.0	19.60	0	0.00	1:1	1.790	1.380	2.470	
2535.00	21100	Mid	back	0 mm	LTE Band 7	B	0171M	20	QPSK	50	50	21.0	19.58	0	0.03	1:1	1.800	1.388	2.498	
2560.00	21350	High	back	0 mm	LTE Band 7	B	0171M	20	QPSK	50	25	21.0	19.61	0	0.04	1:1	1.710	1.377	2.355	
2560.00	21350	High	back	0 mm	LTE Band 7	B	0171M	20	QPSK	100	0	21.0	19.58	0	0.03	1:1	1.650	1.387	2.289	
2560.00	21350	High	front	0 mm	LTE Band 7	B	0171M	20	QPSK	1	99	21.0	19.62	0	-0.12	1:1	0.797	1.374	1.095	
2560.00	21350	High	front	0 mm	LTE Band 7	B	0171M	20	QPSK	50	25	21.0	19.61	0	-0.08	1:1	0.784	1.377	1.080	
2510.00	20850	Low	bottom	0 mm	LTE Band 7	B	0171M	20	QPSK	1	50	21.0	19.43	0	0.03	1:1	1.510	1.436	2.168	
2535.00	21100	Mid	bottom	0 mm	LTE Band 7	B	0171M	20	QPSK	1	50	21.0	19.44	0	0.00	1:1	1.470	1.431	2.104	
2560.00	21350	High	bottom	0 mm	LTE Band 7	B	0171M	20	QPSK	1	99	21.0	19.62	0	-0.08	1:1	1.560	1.374	2.143	
2510.00	20850	Low	bottom	0 mm	LTE Band 7	B	0171M	20	QPSK	50	25	21.0	19.60	0	0.01	1:1	1.520	1.380	2.098	
2535.00	21100	Mid	bottom	0 mm	LTE Band 7	B	0171M	20	QPSK	50	50	21.0	19.58	0	-0.03	1:1	1.470	1.388	2.040	
2560.00	21350	High	bottom	0 mm	LTE Band 7	B	0171M	20	QPSK	50	25	21.0	19.61	0	0.03	1:1	1.560	1.377	2.148	
2560.00	21350	High	bottom	0 mm	LTE Band 7	B	0171M	20	QPSK	100	0	21.0	19.58	0	-0.05	1:1	1.550	1.387	2.150	
2510.00	20850	Low	top	0 mm	LTE Band 7	F	1467M	20	QPSK	1	50	19.5	18.29	0	-0.01	1:1	2.160	1.321	2.853	
2535.00	21100	Mid	top	0 mm	LTE Band 7	F	1467M	20	QPSK	1	0	19.5	18.19	0	-0.02	1:1	2.070	1.352	2.799	
2560.00	21350	High	top	0 mm	LTE Band 7	F	1467M	20	QPSK	1	99	19.5	18.10	0	0.02	1:1	1.870	1.380	2.581	
2510.00	20850	Low	top	0 mm	LTE Band 7	F	1467M	20	QPSK	50	25	19.5	18.26	0	0.03	1:1	2.180	1.330	2.899	A100
2535.00	21100	Mid	top	0 mm	LTE Band 7	F	1467M	20	QPSK	50	25	19.5	18.15	0	-0.02	1:1	2.020	1.365	2.757	
2560.00	21350	High	top	0 mm	LTE Band 7	F	1467M	20	QPSK	50	25	19.5	18.08	0	0.00	1:1	1.960	1.387	2.719	
2510.00	20850	Low	top	0 mm	LTE Band 7	F	1467M	20	QPSK	100	0	19.5	18.25	0	-0.01	1:1	2.130	1.334	2.841	
2510.00	20850	Low	top	0 mm	LTE Band 7	F	1467M	20	QPSK	50	25	19.5	18.26	0	0.01	1:1	1.940	1.330	2.580	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Phablet											
Spatial Peak									4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population									averaged over 10 grams											

Note: Blue entry represents variability measurement.

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Table 11-79
LTE Band 41 Phablet SAR

MEASUREMENT RESULTS																					
# CC Uplink, Power Class	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [10g]	Scaling Factor	Reported SAR [10g]	Plot #
		MHz	Ch.															(W/kg)			
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	back	8 mm	LTE Band 41	B	0193M	20	QPSK	1	99	25.0	24.07	0	0.02	1:1.58	0.331	1.239	0.410
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	back	8 mm	LTE Band 41	B	0193M	20	QPSK	50	25	24.0	23.17	1	0.00	1:1.58	0.258	1.211	0.312
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	front	6 mm	LTE Band 41	B	0193M	20	QPSK	1	99	25.0	24.07	0	0.04	1:1.58	0.353	1.239	0.437
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	front	6 mm	LTE Band 41	B	0193M	20	QPSK	50	25	24.0	23.17	1	-0.03	1:1.58	0.247	1.211	0.299
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	12 mm	LTE Band 41	B	0193M	20	QPSK	1	99	25.0	24.07	0	0.06	1:1.58	0.286	1.239	0.354
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	12 mm	LTE Band 41	B	0193M	20	QPSK	50	25	24.0	23.17	1	-0.01	1:1.58	0.236	1.211	0.286
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	right	0 mm	LTE Band 41	B	0193M	20	QPSK	1	50	25.0	24.03	0	-0.09	1:1.58	1.040	1.250	1.300
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	right	0 mm	LTE Band 41	B	0193M	20	QPSK	1	50	25.0	23.97	0	-0.14	1:1.58	0.931	1.268	1.181
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	right	0 mm	LTE Band 41	B	0193M	20	QPSK	1	99	25.0	24.07	0	-0.02	1:1.58	1.380	1.239	1.710
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	right	0 mm	LTE Band 41	B	0193M	20	QPSK	1	0	25.0	23.85	0	0.00	1:1.58	1.950	1.303	2.541
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	right	0 mm	LTE Band 41	B	0193M	20	QPSK	1	0	25.0	23.85	0	0.12	1:1.58	1.750	1.303	2.280
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	right	0 mm	LTE Band 41	B	0193M	20	QPSK	50	25	24.0	23.17	1	0.06	1:1.58	1.160	1.211	1.405
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	right	0 mm	LTE Band 41	B	0193M	20	QPSK	100	0	24.0	23.08	1	-0.06	1:1.58	1.170	1.236	1.446
1 CC Uplink - Power Class 2	N/A	2636.50	41055	Mid-High	right	0 mm	LTE Band 41	B	0193M	20	QPSK	1	0	26.6	25.48	0	0.02	1:2.31	1.880	1.294	2.433
2 CC Uplink - Power Class 3	PCC	2636.50	41055	Mid-High	right	0 mm	LTE Band 41	B	0193M	20	QPSK	1	0	25.0	23.91	0	-0.04	1:1.58	1.960	1.285	2.519
	SCC	2616.70	40857					B													
2 CC Uplink - Power Class 2	PCC	2636.50	41055	Mid-High	right	0 mm	LTE Band 41	B	0193M	20	QPSK	1	0	26.6	25.55	0	-0.03	1:2.31	1.990	1.274	2.535
	SCC	2616.70	40857					B													
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	back	0 mm	LTE Band 41	B	0193M	20	QPSK	1	0	23.0	22.13	0	0.03	1:1.58	1.700	1.222	2.077
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	back	0 mm	LTE Band 41	B	0193M	20	QPSK	1	0	23.0	22.21	0	0.01	1:1.58	1.520	1.199	1.822
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	back	0 mm	LTE Band 41	B	0193M	20	QPSK	1	0	23.0	22.26	0	0.01	1:1.58	1.710	1.186	2.028
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	back	0 mm	LTE Band 41	B	0193M	20	QPSK	1	0	23.0	22.11	0	-0.02	1:1.58	1.200	1.227	1.472
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	back	0 mm	LTE Band 41	B	0193M	20	QPSK	1	50	23.0	22.02	0	-0.02	1:1.58	1.860	1.253	2.331
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	back	0 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.15	0	-0.03	1:1.58	1.810	1.216	2.201
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	back	0 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.24	0	0.00	1:1.58	1.500	1.191	1.787
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	back	0 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.26	0	0.01	1:1.58	1.730	1.186	2.052
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	back	0 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.20	0	-0.03	1:1.58	1.250	1.202	1.503
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	back	0 mm	LTE Band 41	B	0193M	20	QPSK	50	50	23.0	22.01	0	0.09	1:1.58	1.760	1.256	2.211
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	back	0 mm	LTE Band 41	B	0193M	20	QPSK	100	0	23.0	22.25	0	-0.10	1:1.58	1.460	1.189	1.736
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	front	0 mm	LTE Band 41	B	0193M	20	QPSK	1	0	23.0	22.26	0	0.07	1:1.58	1.240	1.186	1.471
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	front	0 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.15	0	0.05	1:1.58	1.270	1.216	1.544
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	front	0 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.24	0	0.03	1:1.58	1.280	1.191	1.524
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	front	0 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.26	0	-0.03	1:1.58	1.280	1.186	1.518
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	front	0 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.20	0	0.01	1:1.58	1.070	1.202	1.286
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	front	0 mm	LTE Band 41	B	0193M	20	QPSK	50	50	23.0	22.01	0	0.00	1:1.58	1.150	1.256	1.444
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	front	0 mm	LTE Band 41	B	0193M	20	QPSK	100	0	23.0	22.25	0	0.00	1:1.58	1.280	1.189	1.522
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	bottom	0 mm	LTE Band 41	B	0193M	20	QPSK	1	0	23.0	22.13	0	0.01	1:1.58	1.330	1.222	1.625
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	bottom	0 mm	LTE Band 41	B	0193M	20	QPSK	1	0	23.0	22.21	0	0.00	1:1.58	1.290	1.199	1.547
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	0 mm	LTE Band 41	B	0193M	20	QPSK	1	0	23.0	22.26	0	0.02	1:1.58	1.670	1.186	1.981
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	bottom	0 mm	LTE Band 41	B	0193M	20	QPSK	1	0	23.0	22.11	0	-0.05	1:1.58	1.320	1.227	1.620
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	bottom	0 mm	LTE Band 41	B	0193M	20	QPSK	1	50	23.0	22.02	0	0.08	1:1.58	1.480	1.253	1.854
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	bottom	0 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.15	0	0.03	1:1.58	1.370	1.216	1.666
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	bottom	0 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.24	0	0.00	1:1.58	1.350	1.191	1.608
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	0 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.26	0	0.00	1:1.58	1.630	1.186	1.933
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	bottom	0 mm	LTE Band 41	B	0193M	20	QPSK	50	25	23.0	22.20	0	0.00	1:1.58	1.400	1.202	1.683
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	bottom	0 mm	LTE Band 41	B	0193M	20	QPSK	50	50	23.0	22.01	0	0.05	1:1.58	1.490	1.256	1.871
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	0 mm	LTE Band 41	B	0193M	20	QPSK	100	0	23.0	22.25	0	0.01	1:1.58	1.580	1.189	1.879
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	top	0 mm	LTE Band 41	F	1473M	20	QPSK	1	99	22.0	21.57	0	0.01	1:1.58	2.070	1.104	2.285
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	top	0 mm	LTE Band 41	F	1473M	20	QPSK	1	99	22.0	21.37	0	0.01	1:1.58	1.780	1.156	2.058
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	top	0 mm	LTE Band 41	F	1473M	20	QPSK	1	0	22.0	21.25	0	0.00	1:1.58	1.980	1.189	2.354
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	top	0 mm	LTE Band 41	F	1473M	20	QPSK	1	99	22.0	21.26	0	-0.05	1:1.58	1.910	1.186	2.265
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	top	0 mm	LTE Band 41	F	1473M	20	QPSK	1	50	22.0	21.36	0	0.02	1:1.58	1.810	1.159	2.098
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	top	0 mm	LTE Band 41	F	1473M	20	QPSK	50	0	22.0	21.63	0	0.02	1:1.58	2.170	1.089	2.363
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	top	0 mm	LTE Band 41	F	1473M	20	QPSK	50	50	22.0	21.48	0	0.00	1:1.58	2.090	1.127	2.355
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	top	0 mm	LTE Band 41	F	1473M	20	QPSK	50	25	22.0	21.35	0	-0.02	1:1.58	1.730	1.161	2.009
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	top	0 mm	LTE Band 41	F	1473M	20	QPSK	50	0	22.0	21.23	0	0.02	1:1.58	1.960	1.194	2.340
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	top	0 mm	LTE Band 41	F	1473M	20	QPSK	50	50	22.0	21.23	0	-0.03	1:1.58	1.920	1.194	2.292
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	top	0 mm	LTE Band 41	F	1473M	20	QPSK	50	0	22.0	21.34	0	-0.03	1:1.58			

Table 11-80
NR Band n66 Phablet SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [10g] (W/kg)	Scaling Factor	Reported SAR [10g] (W/kg)	Plot	
MHz	Ch.																					
1745.00	349000	Mtd	back	8 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.00	0	-0.14	1:1	1.040	1.122	1.167	
1745.00	349000	Mtd	back	8 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	-0.01	1:1	1.090	1.086	1.184	
1745.00	349000	Mtd	front	6 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.00	0	0.00	1:1	1.150	1.122	1.290	
1745.00	349000	Mtd	front	6 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	0.01	1:1	1.190	1.086	1.292	
1745.00	349000	Mtd	bottom	12 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.00	0	0.01	1:1	1.040	1.122	1.167	
1745.00	349000	Mtd	bottom	12 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	0.00	1:1	0.951	1.086	1.033	
1745.00	349000	Mtd	right	0 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.00	0	-0.01	1:1	0.726	1.122	0.815	
1745.00	349000	Mtd	right	0 mm	NR Band n66	A	71	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	0.03	1:1	0.753	1.086	0.818	
1745.00	349000	Mtd	left	0 mm	NR Band n66	A	32	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.00	0	0.02	1:1	0.394	1.122	0.442	
1745.00	349000	Mtd	left	0 mm	NR Band n66	A	32	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	-0.01	1:1	0.390	1.086	0.424	
1745.00	349000	Mtd	back	0 mm	NR Band n66	A	74	0028M	40	DFT-S-OFDM	QPSK	1	108	21.0	20.46	0	-0.05	1:1	1.490	1.132	1.687	
1745.00	349000	Mtd	back	0 mm	NR Band n66	A	74	0028M	40	DFT-S-OFDM	QPSK	108	108	21.0	20.59	0	0.01	1:1	1.540	1.099	1.692	
1745.00	349000	Mtd	front	0 mm	NR Band n66	A	74	0028M	40	DFT-S-OFDM	QPSK	1	108	21.0	20.46	0	-0.01	1:1	1.680	1.132	1.902	
1745.00	349000	Mtd	front	0 mm	NR Band n66	A	74	0028M	40	DFT-S-OFDM	QPSK	108	108	21.0	20.59	0	0.02	1:1	1.760	1.099	1.934	
1745.00	349000	Mtd	bottom	0 mm	NR Band n66	A	74	0028M	40	DFT-S-OFDM	QPSK	1	108	21.0	20.46	0	0.00	1:1	2.330	1.132	2.638	
1745.00	349000	Mtd	bottom	0 mm	NR Band n66	A	74	0028M	40	DFT-S-OFDM	QPSK	108	108	21.0	20.59	0	0.02	1:1	2.460	1.099	2.704	
1745.00	349000	Mtd	bottom	0 mm	NR Band n66	A	74	0028M	40	DFT-S-OFDM	QPSK	216	0	21.0	20.45	0	-0.08	1:1	2.460	1.135	2.792	
1745.00	349000	Mtd	bottom	0 mm	NR Band n66	A	74	0028M	40	CP-OFDM	QPSK	1	1	21.0	20.41	0	-0.18	1:1	2.739	1.146	3.129	Alt
1745.00	349000	Mtd	top	0 mm	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	1	108	21.0	19.95	0	0.02	1:1	1.970	1.274	2.510	
1745.00	349000	Mtd	top	0 mm	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	108	54	21.0	20.01	0	0.01	1:1	2.040	1.256	2.562	
1745.00	349000	Mtd	top	0 mm	NR Band n66	F	N/A	1673M	40	DFT-S-OFDM	QPSK	216	0	21.0	19.94	0	-0.07	1:1	2.020	1.276	2.578	
1745.00	349000	Mtd	top	0 mm	NR Band n66	F	N/A	1673M	40	CP-OFDM	QPSK	1	1	21.0	19.82	0	-0.17	1:1	1.960	1.312	2.572	
1745.00	349000	Mtd	bottom	0 mm	NR Band n66	A	74	0028M	40	CP-OFDM	QPSK	1	1	21.0	20.41	0	-0.11	1:1	2.290	1.146	2.624	
ANSI / IEEE C65.1 1992 - SAFETY LIMIT														Phabert 4.0 W/kg (mW/g) averaged in 10 minutes								
Spatial Peak Uncontrolled Exposure (General Population)																						

Note: Blue entry represents variability measurement.

Table 11-81
NR Band n25 Phablet SAR

MEASUREMENT RESULTS																					Plot
FREQUENCY		Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPD [dB]	Power Drift [dB]	Duty Cycle	SAR [10g]	Scaling Factor	Reported SAR [10g]	
MHz	Ch																	(W/kg)		(W/kg)	
1882.50	376500	Mid	back	8 mm	NR Band n25	A	132	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.44	0	0.01	1:1	0.855	1.276	1.091
1882.50	376500	Mid	back	8 mm	NR Band n25	A	132	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.63	0	0.01	1:1	1.070	1.222	1.308
1882.50	376500	Mid	front	6 mm	NR Band n25	A	71	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.44	0	0.07	1:1	0.951	1.276	1.213
1882.50	376500	Mid	front	6 mm	NR Band n25	A	71	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.63	0	0.03	1:1	0.985	1.222	1.204
1882.50	376500	Mid	bottom	12 mm	NR Band n25	A	65	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.44	0	-0.01	1:1	1.220	1.276	1.557
1882.50	376500	Mid	bottom	12 mm	NR Band n25	A	65	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.63	0	-0.01	1:1	1.280	1.222	1.564
1882.50	376500	Mid	right	0 mm	NR Band n25	A	71	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.44	0	-0.07	1:1	0.325	1.276	0.415
1882.50	376500	Mid	right	0 mm	NR Band n25	A	71	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.63	0	0.06	1:1	0.351	1.222	0.429
1882.50	376500	Mid	left	0 mm	NR Band n25	A	71	0028M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.44	0	0.08	1:1	0.326	1.276	0.416
1882.50	376500	Mid	left	0 mm	NR Band n25	A	71	0028M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.63	0	0.04	1:1	0.335	1.222	0.409
1882.50	376500	Mid	back	0 mm	NR Band n25	A	132	0028M	40	DFT-S-OFDM	QPSK	1	108	21.0	20.37	0	0.08	1:1	1.910	1.156	2.208
1882.50	376500	Mid	back	0 mm	NR Band n25	A	132	0028M	40	DFT-S-OFDM	QPSK	108	0	21.0	20.46	0	0.05	1:1	1.950	1.132	2.207
1882.50	376500	Mid	back	0 mm	NR Band n25	A	132	0028M	40	DFT-S-OFDM	QPSK	216	0	21.0	20.36	0	0.01	1:1	1.979	1.159	2.283
1882.50	376500	Mid	front	0 mm	NR Band n25	A	5	0028M	40	DFT-S-OFDM	QPSK	1	108	21.0	20.37	0	0.15	1:1	1.590	1.156	1.838
1882.50	376500	Mid	front	0 mm	NR Band n25	A	5	0028M	40	DFT-S-OFDM	QPSK	108	0	21.0	20.46	0	0.00	1:1	1.660	1.132	1.879
1882.50	376500	Mid	bottom	0 mm	NR Band n25	A	10	0028M	40	DFT-S-OFDM	QPSK	1	108	21.0	20.37	0	0.00	1:1	2.510	1.156	2.902
1882.50	376500	Mid	bottom	0 mm	NR Band n25	A	109	0028M	40	DFT-S-OFDM	QPSK	108	0	21.0	20.46	0	-0.03	1:1	2.440	1.132	2.762
1882.50	376500	Mid	bottom	0 mm	NR Band n25	A	109	0028M	40	DFT-S-OFDM	QPSK	216	0	21.0	20.36	0	-0.02	1:1	2.440	1.159	2.828
1882.50	376500	Mid	bottom	0 mm	NR Band n25	A	109	0028M	40	CP-OFDM	QPSK	1	1	21.0	20.34	0	-0.12	1:1	2.420	1.164	2.817
1882.50	376500	Mid	top	0 mm	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	1	1	21.0	20.09	0	0.01	1:1	1.840	1.233	2.269
1882.50	376500	Mid	top	0 mm	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	108	54	21.0	20.22	0	0.04	1:1	1.850	1.197	2.214
1882.50	376500	Mid	top	0 mm	NR Band n25	F	N/A	1623M	40	DFT-S-OFDM	QPSK	216	0	21.0	20.08	0	0.01	1:1	1.880	1.236	2.324
1882.50	376500	Mid	top	0 mm	NR Band n25	F	N/A	1623M	40	CP-OFDM	QPSK	1	1	21.0	19.98	0	0.01	1:1	1.930	1.265	2.441
1882.50	376500	Mid	bottom	0 mm	NR Band n25	A	5	0028M	40	DFT-S-OFDM	QPSK	1	108	21.0	20.37	0	0.05	1:1	2.110	1.156	2.439
ANSI / IEEE C63.1 1992 - SAFETY LIMIT											Phabnet										Plot
Spatial Peak											4.0 W/kg [mW/g]										
Uncontrolled Exposure/General Population											averaged per 10 g/mgms										

Note: Blue entry represents variability measurement.

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Table 11-82
NR Band n30 Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2310.00	462000	Mid	back	8 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.37	0	-0.12	1:1	0.366	1.297	0.475	
2310.00	462000	Mid	back	8 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.27	0	-0.07	1:1	0.358	1.327	0.475	
2310.00	462000	Mid	front	6 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.37	0	-0.10	1:1	0.462	1.297	0.599	
2310.00	462000	Mid	front	6 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.27	0	0.00	1:1	0.439	1.327	0.583	
2310.00	462000	Mid	bottom	12 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.37	0	0.00	1:1	0.520	1.297	0.674	
2310.00	462000	Mid	bottom	12 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.27	0	0.00	1:1	0.512	1.327	0.679	
2310.00	462000	Mid	right	0 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.37	0	-0.02	1:1	0.557	1.297	0.722	
2310.00	462000	Mid	right	0 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.27	0	0.04	1:1	0.547	1.327	0.726	
2310.00	462000	Mid	left	0 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.37	0	0.08	1:1	0.180	1.297	0.233	
2310.00	462000	Mid	left	0 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.27	0	0.00	1:1	0.170	1.327	0.226	
2310.00	462000	Mid	back	0 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	1	26	22.5	21.52	0	0.06	1:1	1.700	1.253	2.130	A104
2310.00	462000	Mid	back	0 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	25	0	22.5	21.54	0	-0.05	1:1	1.690	1.247	2.107	
2310.00	462000	Mid	back	0 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	50	0	22.5	21.51	0	0.05	1:1	1.670	1.256	2.098	
2310.00	462000	Mid	back	0 mm	NR Band n30	A	0028M	10	CP-OFDM	QPSK	1	1	22.0	20.35	0.5	0.00	1:1	1.220	1.462	1.784	
2310.00	462000	Mid	front	0 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	1	26	22.5	21.52	0	-0.01	1:1	1.050	1.253	1.316	
2310.00	462000	Mid	front	0 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	25	0	22.5	21.54	0	0.06	1:1	1.100	1.247	1.372	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	1	26	22.5	21.52	0	-0.08	1:1	1.260	1.253	1.579	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	A	0028M	10	DFT-S-OFDM	QPSK	25	0	22.5	21.54	0	0.11	1:1	1.290	1.247	1.609	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Phablet												
Spatial Peak									4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 10 grams												

Table 11-83
NR Band n7 Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2535.00	507000	Mid	back	8 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	1	108	24.0	23.43	0	0.18	1:1	0.443	1.140	0.505	
2535.00	507000	Mid	back	8 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	108	54	24.0	23.48	0	0.12	1:1	0.452	1.127	0.509	
2535.00	507000	Mid	front	6 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	1	108	24.0	23.43	0	-0.13	1:1	0.708	1.140	0.807	
2535.00	507000	Mid	front	6 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	108	54	24.0	23.48	0	-0.06	1:1	0.722	1.127	0.814	
2535.00	507000	Mid	bottom	12 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	1	108	24.0	23.43	0	-0.08	1:1	0.645	1.140	0.735	
2535.00	507000	Mid	bottom	12 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	108	54	24.0	23.48	0	0.03	1:1	0.639	1.127	0.720	
2535.00	507000	Mid	right	0 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	1	108	24.0	23.43	0	0.01	1:1	1.430	1.140	1.630	
2535.00	507000	Mid	right	0 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	108	54	24.0	23.48	0	0.02	1:1	1.460	1.127	1.645	
2535.00	507000	Mid	back	0 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	1	108	21.0	20.03	0	0.04	1:1	2.190	1.250	2.738	
2535.00	507000	Mid	back	0 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	108	108	21.0	20.12	0	0.00	1:1	2.240	1.225	2.744	
2535.00	507000	Mid	back	0 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	216	0	21.0	20.01	0	0.05	1:1	2.270	1.256	2.851	
2535.00	507000	Mid	back	0 mm	NR Band n7	B	0028M	40	CP-OFDM	QPSK	1	1	21.0	20.13	0	-0.04	1:1	2.150	1.222	2.627	
2535.00	507000	Mid	front	0 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	1	108	21.0	20.03	0	-0.14	1:1	1.310	1.250	1.638	
2535.00	507000	Mid	front	0 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	108	108	21.0	20.12	0	-0.02	1:1	1.320	1.225	1.617	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	1	108	21.0	20.03	0	-0.09	1:1	1.770	1.250	2.213	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	108	108	21.0	20.12	0	0.01	1:1	1.770	1.225	2.168	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	B	0028M	40	DFT-S-OFDM	QPSK	216	0	21.0	20.01	0	0.03	1:1	1.810	1.256	2.273	
2535.00	507000	Mid	top	0 mm	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.73	0	0.00	1:1	2.550	1.194	3.045	
2535.00	507000	Mid	top	0 mm	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.88	0	0.03	1:1	2.570	1.153	2.963	
2535.00	507000	Mid	top	0 mm	NR Band n7	F	1673M	40	DFT-S-OFDM	QPSK	216	0	19.5	18.68	0	0.02	1:1	2.550	1.208	3.080	
2535.00	507000	Mid	top	0 mm	NR Band n7	F	1673M	40	CP-OFDM	QPSK	1	1	19.5	18.82	0	0.00	1:1	2.670	1.169	3.121	A105
2535.00	507000	Mid	top	0 mm	NR Band n7	F	1673M	40	CP-OFDM	QPSK	1	1	19.5	18.82	0	-0.01	1:1	2.350	1.169	2.747	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Phablet 4.0 W/kg (mW/g) averaged over 10 grams												

Note: Blue entry represents variability measurement.

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Table 11-84
NR Band n41 Phablet SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Path	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g) [mW/kg]	Scaling Factor	Reported SAR (10g) [mW/kg]	Plot #	
MHz	Ch.																					
2592.99	518598	Mid	top	0 mm	NR Band n41	F	Path 1	1648M	100	DFT-S-OFDM	QPSK	1	137	20.0	19.33	0	-0.10	1:1	1.830	1.167	2.136	
2592.99	518598	Mid	top	0 mm	NR Band n41	F	Path 1	1648M	100	DFT-S-OFDM	QPSK	135	69	20.0	19.25	0	0.00	1:1	1.910	1.189	2.271	
2592.99	518598	Mid	top	0 mm	NR Band n41	F	Path 1	1648M	100	DFT-S-OFDM	QPSK	270	0	20.0	19.18	0	0.00	1:1	1.930	1.208	2.331	
2592.99	518598	Mid	top	0 mm	NR Band n41	F	Path 1	1648M	100	CP-OFDM	QPSK	1	1	20.0	19.01	0	-0.06	1:1	2.080	1.256	2.612	A106
2592.99	518598	Mid	top	0 mm	NR Band n41	F	Path 2	1648M	100	CW/SRS	N/A	N/A	N/A	18.0	17.01	N/A	0.06	1:1	1.140	1.256	1.432	
2592.99	518598	Mid	back	0 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	1	137	20.0	19.03	0	-0.06	1:1	1.420	1.250	1.775	
2592.99	518598	Mid	back	0 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	135	69	20.0	19.02	0	-0.16	1:1	1.290	1.253	1.616	
2592.99	518598	Mid	back	0 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	270	0	20.0	18.94	0	-0.17	1:1	1.280	1.276	1.633	
2592.99	518598	Mid	front	0 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	1	137	20.0	19.03	0	-0.14	1:1	1.100	1.250	1.375	
2592.99	518598	Mid	front	0 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	135	69	20.0	19.02	0	-0.15	1:1	1.100	1.253	1.378	
2592.99	518598	Mid	bottom	0 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	1	137	20.0	19.03	0	-0.01	1:1	1.550	1.250	1.938	
2592.99	518598	Mid	bottom	0 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	135	69	20.0	19.02	0	-0.04	1:1	1.560	1.253	1.955	
2592.99	518598	Mid	bottom	0 mm	NR Band n41	B	Path 2	1648M	100	DFT-S-OFDM	QPSK	270	0	20.0	18.94	0	-0.01	1:1	1.570	1.276	2.003	
2592.99	518598	Mid	bottom	0 mm	NR Band n41	B	Path 2	1648M	100	CP-OFDM	QPSK	1	1	20.0	18.85	0	-0.04	1:1	1.550	1.303	2.020	
2592.99	518598	Mid	bottom	0 mm	NR Band n41	B	Path 1	1648M	100	CW/SRS	N/A	N/A	N/A	18.0	16.97	N/A	-0.06	1:1	1.090	1.268	1.382	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Phablet													
Spatial Peak									4.0 W/kg (mW/g)													
Uncontrolled Exposure/General Population									averaged over 10 grams													

Note: Light purple entries indicate the additional check on the worst case exposure scenario for the n41 pathway that is not fully evaluated.

Table 11-85
NR Band n77 Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY			Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g) [W/kg]	Scaling Factor	Reported SAR (10g) [W/kg]	Plot #
MHz		Ch.																			
3500.01	633334	Mid	left	0 mm	NR Band n77 DoD	G	1651M	100	DFT-S-OFDM	QPSK	1	271	19.0	18.42	0	0.06	1:1	1.760	1.143	2.012	A107
3750.00	650000	Low	back	0 mm	NR Band n77	G	1651M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.74	0	0.01	1:1	0.747	1.062	0.793	
3750.00	650000	Low	back	0 mm	NR Band n77	G	1651M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.71	0	-0.08	1:1	0.788	1.069	0.842	
3750.00	650000	Low	top	0 mm	NR Band n77	G	1651M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.74	0	0.00	1:1	0.470	1.062	0.499	
3750.00	650000	Low	top	0 mm	NR Band n77	G	1651M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.71	0	0.06	1:1	0.431	1.069	0.461	
3750.00	650000	Low	left	0 mm	NR Band n77	G	1651M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.74	0	-0.05	1:1	1.750	1.062	1.859	A108
3930.00	662000	High	left	0 mm	NR Band n77	G	1651M	100	DFT-S-OFDM	QPSK	1	137	19.0	18.53	0	-0.02	1:1	1.690	1.114	1.883	
3750.00	650000	Low	left	0 mm	NR Band n77	G	1651M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.71	0	-0.10	1:1	1.630	1.069	1.742	
3930.00	662000	High	left	0 mm	NR Band n77	G	1651M	100	DFT-S-OFDM	QPSK	135	69	19.0	18.57	0	-0.01	1:1	1.690	1.104	1.866	
3750.00	650000	Low	left	0 mm	NR Band n77	G	1651M	100	DFT-S-OFDM	QPSK	270	0	19.0	18.57	0	-0.01	1:1	1.620	1.104	1.788	
3750.00	650000	Low	left	0 mm	NR Band n77	G	1651M	100	CP-OFDM	QPSK	1	1	19.0	18.57	0	0.13	1:1	1.720	1.104	1.899	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT													Phablet 4 W/kg (mW/g) averaged over 10 grams								
Spatial Peak																					
Uncontrolled Exposure/General Population																					

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Table 11-86
WLAN MIMO Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)			(W/kg)	
5300	60	back	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.37	17.5	17.30	0.09	100.00	92.87	0.444	1.047	1.077	0.501	
5300	60	front	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.37	17.5	17.30	0.20	100.00	92.87	0.418	1.047	1.077	0.471	
5300	60	top	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.37	17.5	17.30	0.01	100.00	92.87	0.181	1.047	1.077	0.204	
5300	60	right	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.37	17.5	17.30	-0.06	100.00	92.87	0.321	1.047	1.077	0.362	
5300	60	left	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.37	17.5	17.30	-0.07	100.00	92.87	1.200	1.047	1.077	1.353	A109
5290	58	back	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.28	15.0	14.86	0.20	100.00	92.21	0.279	1.180	1.084	0.357	
5290	58	front	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.28	15.0	14.86	-0.07	100.00	92.21	0.204	1.180	1.084	0.261	
5290	58	top	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.28	15.0	14.86	0.01	100.00	92.21	0.113	1.180	1.084	0.145	
5290	58	right	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.28	15.0	14.86	-0.12	100.00	92.21	0.230	1.180	1.084	0.294	
5290	58	left	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.28	15.0	14.86	-0.04	100.00	92.21	0.592	1.180	1.084	0.757	
5500	100	back	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.47	17.5	17.27	0.08	100.00	92.87	0.361	1.054	1.077	0.410	
5500	100	front	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.47	17.5	17.27	0.08	100.00	92.87	0.422	1.054	1.077	0.479	
5500	100	top	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.47	17.5	17.27	0.12	100.00	92.87	0.177	1.054	1.077	0.201	
5500	100	right	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.47	17.5	17.27	-0.02	100.00	92.87	0.312	1.054	1.077	0.354	
5500	100	left	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.47	17.5	17.27	0.16	100.00	92.87	0.824	1.054	1.077	0.935	
5690	138	back	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.49	15.0	14.81	0.05	100.00	92.21	0.299	1.125	1.084	0.365	
5690	138	front	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.49	15.0	14.81	-0.04	100.00	92.21	0.288	1.125	1.084	0.351	
5690	138	top	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.49	15.0	14.81	0.07	100.00	92.21	0.134	1.125	1.084	0.163	
5690	138	right	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.49	15.0	14.81	0.16	100.00	92.21	0.233	1.125	1.084	0.284	
5690	138	left	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.49	15.0	14.81	-0.03	100.00	92.21	0.442	1.125	1.084	0.539	
5865	173	back	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.49	17.5	17.22	-0.07	100.00	92.87	0.447	1.067	1.077	0.514	
5865	173	front	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.49	17.5	17.22	0.09	100.00	92.87	0.529	1.067	1.077	0.608	
5865	173	top	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.49	17.5	17.22	0.01	100.00	92.87	0.268	1.067	1.077	0.308	
5865	173	right	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.49	17.5	17.22	0.02	100.00	92.87	0.373	1.067	1.077	0.429	
5865	173	left	0 mm	802.11n	OFDM	MIMO	1521M	20	13	17.5	17.49	17.5	17.22	0.16	100.00	92.87	0.700	1.067	1.077	0.804	
5855	171	back	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.48	15.0	14.89	0.09	100.00	92.21	0.328	1.127	1.084	0.401	
5855	171	front	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.48	15.0	14.89	-0.02	100.00	92.21	0.368	1.127	1.084	0.450	
5855	171	top	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.48	15.0	14.89	-0.03	100.00	92.21	0.195	1.127	1.084	0.238	
5855	171	right	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.48	15.0	14.89	-0.13	100.00	92.21	0.271	1.127	1.084	0.331	
5855	171	left	0 mm	802.11ac	OFDM	MIMO	1521M	80	58.5	15.0	14.48	15.0	14.89	0.03	100.00	92.21	0.384	1.127	1.084	0.469	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Phablet										
Spatial Peak											4.0 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 10 grams										

Note: In max power, to achieve the 20.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17.5 dBm. During simultaneous condition with 2.4GHz WLAN and/or 5G NR, to achieve the 18.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15.0 dBm.

Table 11-87
NFC Phablet SAR

MEASUREMENT RESULTS									
FREQUENCY MHz	Side	Test Position	Mode	Type	Antenna Config.	Device Serial Number	Power Drift	SAR (10g) (W/kg)	Plot #
13.56	back	0 mm	NFC	B	NFC	0363M	0.20	0.030	A110
13.56	front	0 mm	NFC	B	NFC	0363M	0.04	0.000	
13.56	right	0 mm	NFC	B	NFC	0363M	0.12	0.000	
13.56	left	0 mm	NFC	B	NFC	0363M	0.07	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams		

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11.5 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D04v01.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB Publication 648474 D04v01r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was ≤ 1.2 W/kg, no additional body-worn SAR evaluations using a headset cable were required.
8. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 12 for variability analysis.
9. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 6.7 for more details).
10. Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the display diagonal dimension is > 150 mm and < 200 mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.
11. This device supports dynamic antenna tuning for some bands. Per FCC Guidance, SAR was measured according to the normally required SAR measurement configurations with tuner active. The auto-tune state determined by the device was verified before and after each SAR measurement and is listed in tables above. Please see Section 13 for supplemental data.
12. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information).
13. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the 1g thresholds for the equivalent test cases.
14. This device uses Qualcomm Smart Transmit for WWAN operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).

GSM Test Notes:

1. Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
2. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
3. Per FCC KDB Publication 447498 D04v01, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

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UMTS Notes:

1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
2. Per FCC KDB Publication 447498 D04v01, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 8.5.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D04v01, when the reported 1g SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for LTE B41/48, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions. Please see Section 13 for linearity results.
8. For LTE Band 5, LTE Band 66, LTE Band 48, and LTE Band 41, per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.
9. This device supports LTE Band 41 ULCA active with Power Class 2. Highest SAR test configuration for each exposure condition in Power Class 3 with ULCA active was repeated with Power Class 2 with ULCA active.

NR Notes:

1. NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Due to test setup limitations, SAR testing for NR TDD was performed using test mode software to establish the connection.
3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).

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4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
6. Per FCC KDB Publication 447498 D04v01, when the reported NR Band n77 C-Band SAR measured at the highest output power channel in a given a test configuration was > 0.4 W/kg for 1g evaluations and > 1 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
7. Per FCC KDB Publication 447498 D04v01, when the reported NR Band n41/48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations and > 1.5 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
8. SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.
9. For final implementation, NR Band n41, n48 and n77 slot configuration is synchronized using maximum duty cycle of 100%. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.
10. Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 – 3544.98 MHz).
11. This device uses two transmit pathways for n41 operations (Path 1 and Path 2). For each exposure condition, the pathway with the highest target power was fully evaluated. The worst case for each antenna and exposure condition was additionally evaluated using the other path.

WLAN Notes:

1. For held-to-ear, hotspot, and phablet operations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g evaluations, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 8.6.5 for more information.
3. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 8.6.6 for more information.
4. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D04v01 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Multi-TX and Antenna SAR Considerations Appendix for complete analysis.
5. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
6. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
7. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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Bluetooth Notes

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 79% transmission duty factor for Bluetooth and 87% transmission duty factor for Bluetooth LE to determine compliance. See RF Conducted Power Section for the time domain plot and calculation for the duty factor of the device.
2. Head and Hotspot Bluetooth SAR were evaluated for BT BDR tethering applications.
3. The highest frame average power configurations for both Bluetooth and Bluetooth LE were evaluated for SAR. The worst case configuration was used for the remaining test positions as the most conservative scenario.

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12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~10% from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Table 12-1
Head SAR Measurement Variability Results

HEAD VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Test Position	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)	
2450	2506.00	39750	LTE Band 41, 20 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Right	Tilt	F	1.020	1.020	1.00	N/A	N/A	N/A	N/A
2600	2680.00	41490	LTE Band 41, 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	Right	Tilt	F	0.934	0.873	1.07	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-2
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Service	Side	Spacing	Antenna Config	Tune State	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)		(W/kg)	
1750	1745.00	349000	NR Band n66, 40 MHz Bandwidth	DFT-S-OFDM, QPSK, 108 RB, 108 RB Offset	bottom	10 mm	A	75	1.020	0.964	1.06	N/A	N/A	N/A	N/A
2300	2310.00	462000	NR Band n30, 10 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	bottom	10 mm	A	N/A	1.010	0.932	1.08	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body									
Spatial Peak						1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population						averaged over 1 gram									

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Table 12-3
Phablet SAR Measurement Variability Results

PHABLET VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Service	Side	Spacing	Antenna Config	Tune State	Measured SAR (10g)	1st Repeated SAR (10g)	Ratio	2nd Repeated SAR (10g)	Ratio	3rd Repeated SAR (10g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)		(W/kg)	
2450	2510.00	20850	LTE Band 7, 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	top	0 mm	F	N/A	2.180	1.940	1.12	N/A	N/A	N/A	N/A
1750	1745.00	349000	NR Band n66, 40 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	bottom	0 mm	A	74	2.730	2.290	1.19	N/A	N/A	N/A	N/A
1900	1882.50	376500	NR Band n25, 40 MHz Bandwidth	DFT-S-OFDM, QPSK, 1 RB, 108 RB Offset	bottom	0 mm	A	5	2.510	2.110	1.19	N/A	N/A	N/A	N/A
2600	2535.00	507000	NR Band n7, 40 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	top	0 mm	F	N/A	2.670	2.350	1.14	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Phablet									
Spatial Peak						4.0 W/kg (mW/g)									
Uncontrolled Exposure/General Population						averaged over 10 grams									

12.2 Measurement Uncertainty

The measured SAR was <1.5 W/kg for 1g and <3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

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13 ADDITIONAL TESTING PER FCC GUIDANCE

13.1 Tuner Testing

Per April 2019 TCB Workshop Notes, the following test procedures were followed to demonstrate that the SAR results in Section 11 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR was measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements were evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence on the antenna characteristics, other than impedance matching.

To evaluate all the tuner states, the 144 tuner states were divided among the aggregate band, mode and exposure combinations. Single point time-sweep measurements were performed at the peak SAR location determined by the zoom scan of the configuration with the highest measured SAR for each combination. The tuner state was able to be established remotely so that the device was not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe remained stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 1g SAR was > 1.2 W/kg for a particular band/mode/exposure condition, point SAR measurements were made for all 144 states.

The operational description contains more information about the design and implementation of the dynamic antenna tuning.

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Table 13-1
UMTS Supplemental Head SAR Data

Supplemental Head SAR Data					
UMTS B5		UMTS B4		UMTS B2	
RMC		RMC		RMC	
Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	836.60	Frequency (MHz)	1732.40	Frequency (MHz)	1880.00
Channel	4183	Channel	1412	Channel	9400
Measured 1g SAR (W/kg)	0.173	Measured 1g SAR (W/kg)	0.125	Measured 1g SAR (W/kg)	0.113
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 3)	0.218	Auto-tune (State 32)	0.139	Auto-tune (State 33)	0.117
Default (State 0)	0.218	Default (State 0)	0.107	Default (State 0)	0.111
State 0	0.218	State 1	0.100	State 2	0.107
State 3	0.225	State 32	0.126	State 33	0.116
State 34	0.089	State 35	0.120	State 36	0.112
State 68	0.159	State 69	0.109	State 70	0.106
State 102	0.104	State 103	0.116	State 104	0.111
State 136	0.195	State 137	0.061	State 138	0.053

Table 13-2
LTE Supplemental Head SAR Data

Supplemental Head SAR Data							
LTE B71		LTE B12		LTE B13		LTE B14	
QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330
Measured 1g SAR (W/kg)	0.107	Measured 1g SAR (W/kg)	0.130	Measured 1g SAR (W/kg)	0.161	Measured 1g SAR (W/kg)	0.193
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 3)	0.122	Auto-tune (State 132)	0.174	Auto-tune (State 5)	0.219	Auto-tune (State 7)	0.250
Default (State 0)	0.113	Default (State 0)	0.164	Default (State 0)	0.197	Default (State 0)	0.200
State 3	0.127	State 4	0.137	State 5	0.213	State 6	0.236
State 37	0.061	State 38	0.071	State 39	0.094	State 7	0.247
State 57	0.074	State 72	0.136	State 73	0.140	State 40	0.100
State 71	0.069	State 106	0.061	State 101	0.109	State 74	0.111
State 105	0.051	State 132	0.167	State 107	0.034	State 108	0.011
State 139	0.028	State 140	0.138	State 141	0.089	State 142	0.157

Supplemental Head SAR Data							
LTE B26		LTE B5		LTE B66		LTE B25	
QPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 99 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 99 RB Offset	
Test Position	Left Cheek	Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Left Cheek
Frequency (MHz)	831.50	Frequency (MHz)	836.50	Frequency (MHz)	1745.00	Frequency (MHz)	1905.00
Channel	26865	Channel	20525	Channel	132322	Channel	26590
Measured 1g SAR (W/kg)	0.209	Measured 1g SAR (W/kg)	0.224	Measured 1g SAR (W/kg)	0.157	Measured 1g SAR (W/kg)	0.084
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 3)	0.266	Auto-tune (State 0)	0.274	Auto-tune (State 133)	0.164	Auto-tune (State 0)	0.093
Default (State 0)	0.243	Default (State 0)	0.273	Default (State 0)	0.155	Default (State 0)	0.093
State 3	0.245	State 0	0.273	State 9	0.124	State 0	0.093
State 8	0.226	State 7	0.262	State 43	0.127	State 10	0.082
State 42	0.083	State 41	0.107	State 77	0.092	State 44	0.076
State 76	0.089	State 75	0.143	State 116	0.094	State 78	0.035
State 110	0.006	State 109	0.017	State 120	0.085	State 112	0.066
State 133	0.088	State 143	0.084	State 133	0.177	State 117	0.062

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Table 13-3
NR Supplemental Head SAR Data

Supplemental Head SAR Data					
NR Band n71		NR Band n12		NR Band n26	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 53 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 22 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset	
Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	831.50
Channel	136100	Channel	141500	Channel	166300
Measured 1g SAR (W/kg)	0.109	Measured 1g SAR (W/kg)	0.134	Measured 1g SAR (W/kg)	0.182
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 132)	0.124	Auto-tune (State 132)	0.143	Auto-tune (State 3)	0.193
Default (State 0)	0.097	Default (State 0)	0.007	Default (State 0)	0.186
State 11	0.123	State 12	0.037	State 3	0.190
State 45	0.080	State 46	0.007	State 13	0.089
State 79	0.051	State 80	0.132	State 47	0.006
State 107	0.000	State 102	0.092	State 81	0.150
State 113	0.012	State 114	0.092	State 99	0.072
State 132	0.120	State 132	0.150	State 115	0.090

Supplemental Head SAR Data			
NR Band n66		NR Band n25	
DFT-s-OFDM QPSK, 40 MHz Bandwidth, 1 RB, 108 RB Offset		DFTs-OFDM QPSK, 40 MHz Bandwidth, 1 RB, 108 RB Offset	
Test Position	Right Cheek	Test Position	Left Cheek
Frequency (MHz)	1745.00	Frequency (MHz)	1882.50
Channel	349000	Channel	376500
Measured 1g SAR (W/kg)	0.144	Measured 1g SAR (W/kg)	0.096
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 133)	0.161	Auto-tune (State 37)	0.104
Default (State 0)	0.142	Default (State 0)	0.104
State 15	0.033	State 16	0.047
State 49	0.077	State 37	0.099
State 75	0.112	State 50	0.062
State 83	0.054	State 65	0.096
State 117	0.083	State 84	0.045
State 133	0.155	State 118	0.059

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Table 13-4
UMTS Supplemental Body SAR Data

Supplemental Body SAR Data					
UMTS B5		UMTS B4		UMTS B2	
RMC		RMC		RMC	
Test Position	Back	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	846.60	Frequency (MHz)	1752.60	Frequency (MHz)	1907.60
Channel	4233	Channel	1513	Channel	9538
Measured 1g SAR (W/kg)	0.548	Measured 1g SAR (W/kg)	0.804	Measured 1g SAR (W/kg)	0.762
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 132)	0.851	Auto-tune (State 71)	0.919	Auto-tune (State 133)	0.864
Default (State 0)	0.898	Default (State 0)	0.893	Default (State 0)	0.827
State 17	0.611	State 18	0.273	State 19	0.306
State 51	0.711	State 47	0.384	State 40	0.806
State 60	0.225	State 52	0.443	State 53	0.411
State 85	0.585	State 71	0.913	State 87	0.310
State 119	0.687	State 86	0.307	State 121	0.393
State 132	0.898	State 120	0.495	State 133	0.859

Table 13-5
LTE Supplemental Body SAR Data

Supplemental Body SAR Data							
LTE B71		LTE B12		LTE B13		LTE B14	
QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330
Measured 1g SAR (W/kg)	0.250	Measured 1g SAR (W/kg)	0.274	Measured 1g SAR (W/kg)	0.494	Measured 1g SAR (W/kg)	0.422
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 3)	0.272	Auto-tune (State 132)	0.296	Auto-tune (State 16)	0.552	Auto-tune (State 4)	0.456
Default (State 0)	0.246	Default (State 0)	0.309	Default (State 0)	0.503	Default (State 0)	0.397
State 3	0.264	State 21	0.188	State 16	0.528	State 4	0.471
State 20	0.221	State 27	0.086	State 19	0.527	State 12	0.318
State 35	0.130	State 55	0.154	State 22	0.504	State 23	0.455
State 54	0.164	State 89	0.167	State 56	0.335	State 57	0.296
State 88	0.091	State 123	0.078	State 90	0.171	State 91	0.090
State 122	0.065	State 132	0.310	State 124	0.059	State 125	0.029

Supplemental Body SAR Data							
LTE B26		LTE B5		LTE B66		LTE B25	
QPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 20 MHz Bandwidth, 50 RB, 50 RB Offset		QPSK, 20 MHz Bandwidth, 50 RB, 50 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	831.50	Frequency (MHz)	836.50	Frequency (MHz)	1770.00	Frequency (MHz)	1905.00
Channel	26865	Channel	20525	Channel	132572	Channel	26590
Measured 1g SAR (W/kg)	0.554	Measured 1g SAR (W/kg)	0.606	Measured 1g SAR (W/kg)	0.906	Measured 1g SAR (W/kg)	0.735
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.859	Auto-tune (State 1)	0.955	Auto-tune (State 71)	1.040	Auto-tune (State 65)	0.846
Default (State 0)	0.879	Default (State 0)	0.969	Default (State 0)	1.030	Default (State 0)	0.849
State 0	0.879	State 1	0.954	State 26	0.257	State 1	0.831
State 3	0.890	State 7	0.895	State 60	0.316	State 31	0.049
State 25	0.492	State 24	0.530	State 71	1.040	State 61	0.171
State 59	0.399	State 58	0.511	State 77	0.782	State 65	0.845
State 93	0.100	State 92	0.162	State 94	0.196	State 95	0.061
State 127	0.031	State 126	0.080	State 128	1.020	State 129	0.856

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Table 13-6
NR Supplemental Body SAR Data

Supplemental Body SAR Data					
NR Band n71		NR Band n12		NR Band n26	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 22 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	831.50
Channel	136100	Channel	141500	Channel	166300
Measured 1g SAR (W/kg)	0.224	Measured 1g SAR (W/kg)	0.252	Measured 1g SAR (W/kg)	0.691
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 132)	0.255	Auto-tune (State 132)	0.283	Auto-tune (State 7)	0.767
Default (State 0)	0.247	Default (State 0)	0.265	Default (State 0)	0.715
State 28	0.062	State 29	0.034	State 7	0.728
State 62	0.024	State 63	0.010	State 30	0.113
State 96	0.052	State 97	0.134	State 64	0.535
State 130	0.184	State 111	0.003	State 82	0.596
State 132	0.248	State 131	0.079	State 98	0.320
State 141	0.123	State 132	0.265	State 132	0.751

Supplemental Body SAR Data			
NR Band n66		NR Band n25	
DFT-s-OFDM QPSK, 40 MHz Bandwidth, 108 RB, 108 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 216 RB, 0 RB Offset	
Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	1745.00	Frequency (MHz)	1882.50
Channel	349000	Channel	376500
Measured 1g SAR (W/kg)	1.020	Measured 1g SAR (W/kg)	0.770
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 75)	1.180	Auto-tune (State 65)	0.841
Default (State 0)	1.170	Default (State 0)	0.853
State 32	1.170	State 14	0.387
State 48	0.664	State 33	0.850
State 66	1.190	State 65	0.855
State 75	1.180	State 67	0.857
State 100	1.040	State 101	0.818
State 134	1.180	State 135	0.802

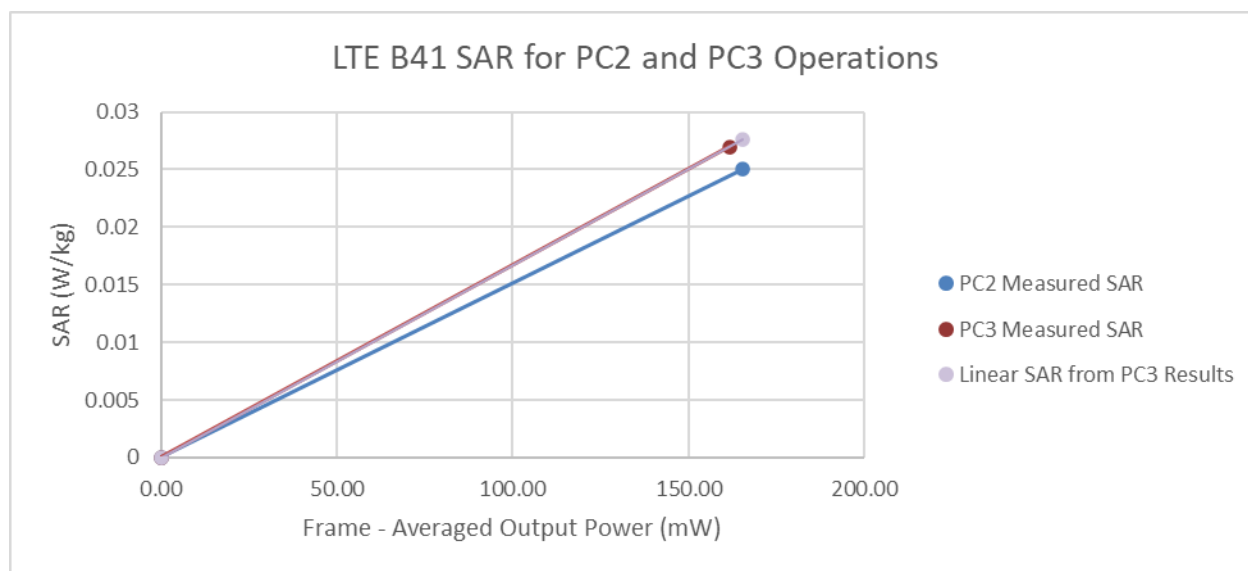
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13.2 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear. When ULCA is active, the linearity between the Power Class 2 with ULCA active and Power Class 3 with ULCA active SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

Table 13-7
LTE Band 41 Head Linearity Data – Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.00	26.60
Measured Output Power (dBm)	24.07	25.82
Measured SAR (W/kg)	0.027	0.025
Measured Power (mW)	255.27	381.94
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	161.59	165.38
% deviation from expected linearity		-9.53%



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Table 13-8
LTE Band 41 ULCA Head Linearity Data – Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	26.6
Measured Output Power (dBm)	24.15	25.91
Measured SAR (W/kg)	0.027	0.027
Measured Power (mW)	260.02	389.94
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	164.59	168.84
% deviation from expected linearity		-2.52%

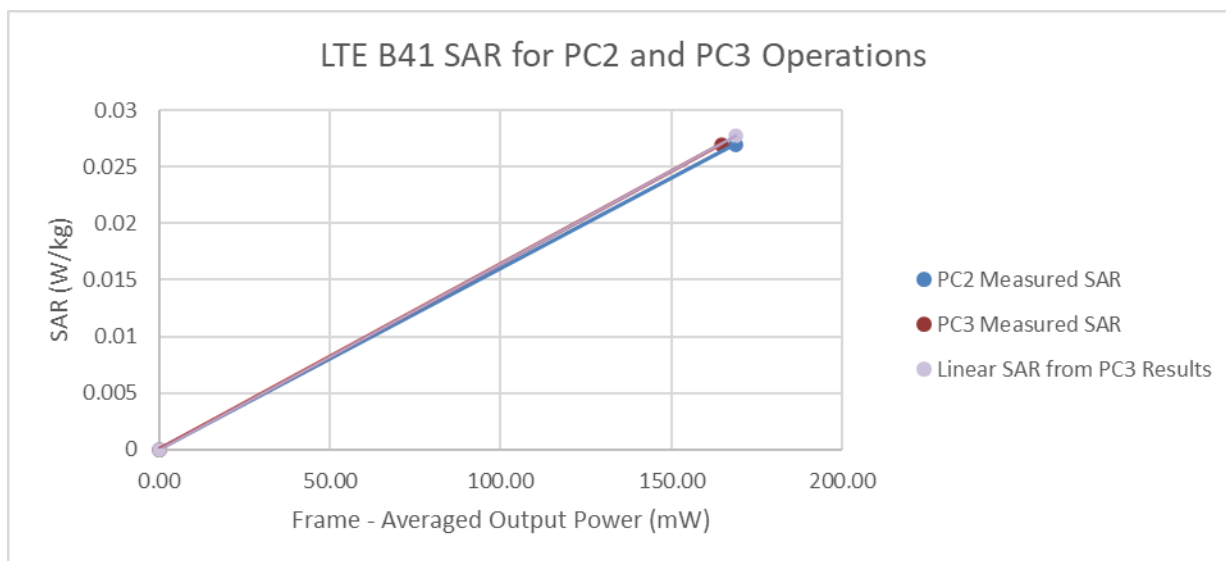


Figure 13-2
LTE Band 41 ULCA Head Linearity – Antenna B

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Table 13-9
LTE Band 41 Head Linearity Data – Antenna F

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	20.00	21.60
Measured Output Power (dBm)	19.42	21.16
Measured SAR (W/kg)	0.973	0.973
Measured Power (mW)	87.50	130.62
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	55.39	56.56
% deviation from expected linearity		-2.07%

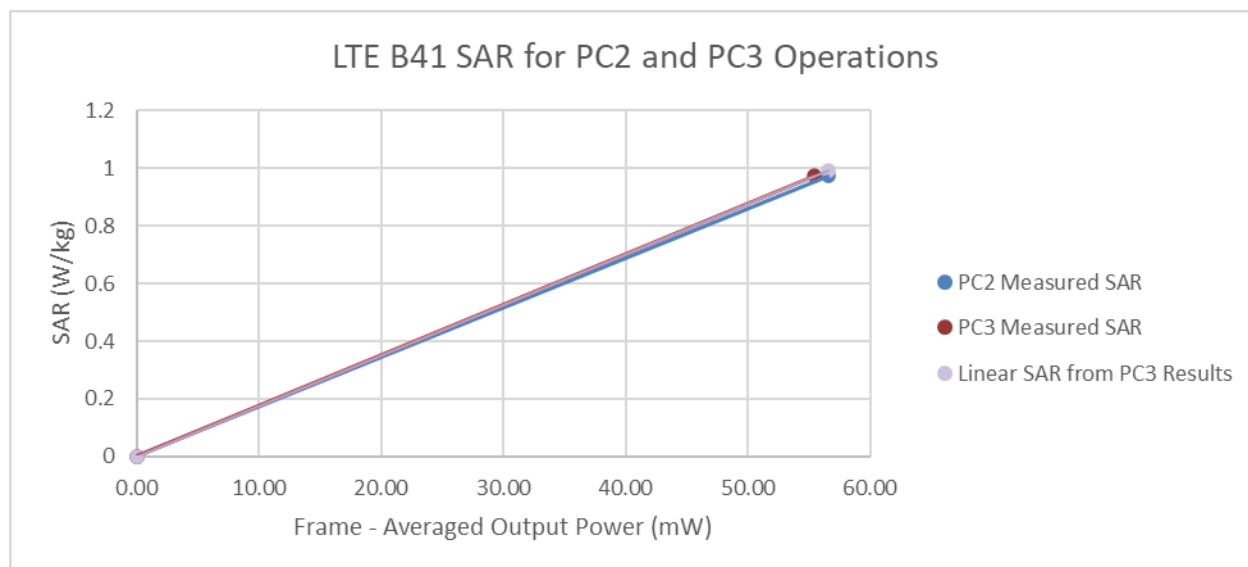


Figure 13-3
LTE Band 41 Head Linearity - Antenna F

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Table 13-10
LTE Band 41 ULCA Head Linearity Data – Antenna F

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	20.0	21.6
Measured Output Power (dBm)	19.42	21.16
Measured SAR (W/kg)	0.972	0.975
Measured Power (mW)	87.50	130.62
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	55.39	56.56
% deviation from expected linearity		-1.77%

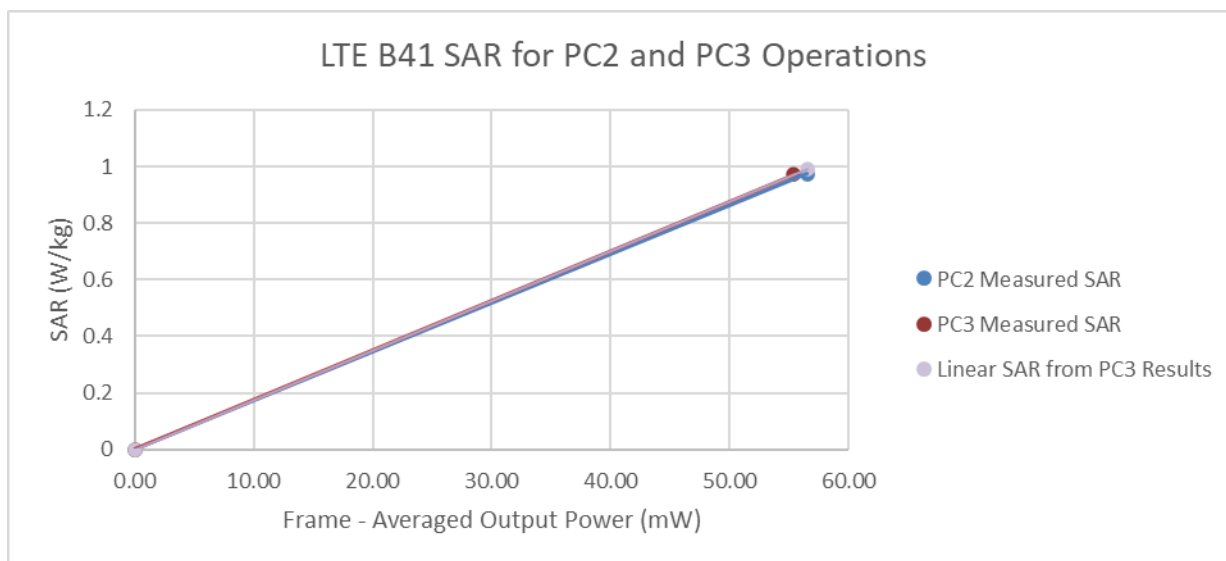


Figure 13-4
LTE Band 41 ULCA Head Linearity – Antenna F

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Table 13-11
LTE Band 41 Body-Worn Linearity Data – Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.00	26.60
Measured Output Power (dBm)	24.07	25.82
Measured SAR (W/kg)	0.231	0.228
Measured Power (mW)	255.27	381.94
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	161.59	165.38
% deviation from expected linearity		-3.56%

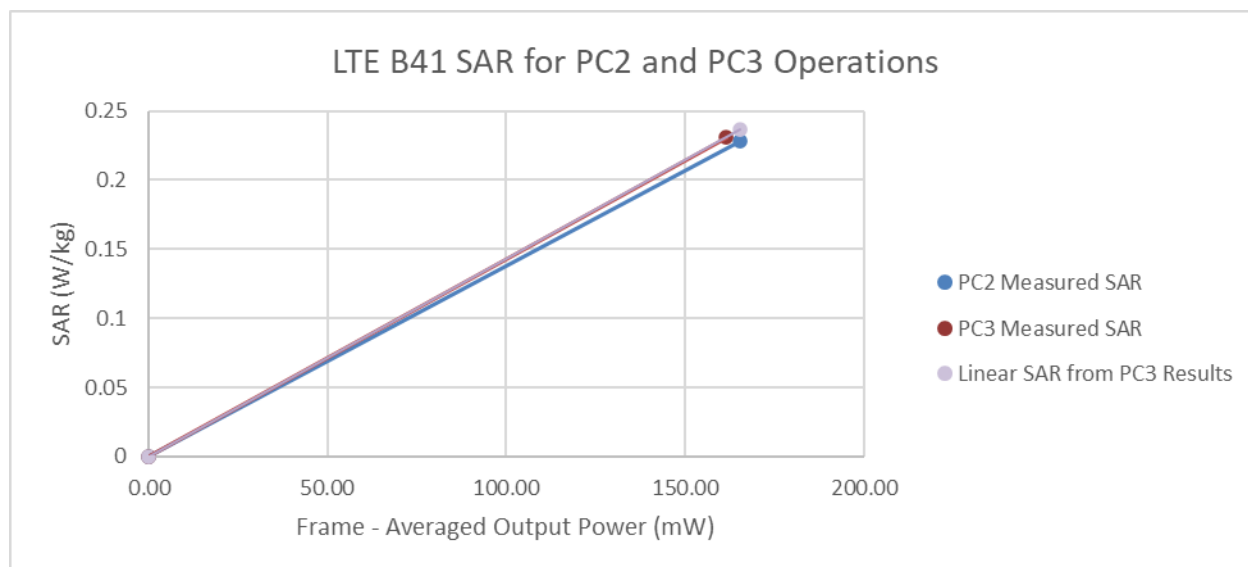


Figure 13-5
LTE Band 41 Body-Worn Linearity – Antenna B

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Table 13-12
LTE Band 41 ULCA Body-Worn Linearity Data – Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	26.6
Measured Output Power (dBm)	24.15	25.91
Measured SAR (W/kg)	0.236	0.231
Measured Power (mW)	260.02	389.94
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	164.59	168.84
% deviation from expected linearity		-4.59%

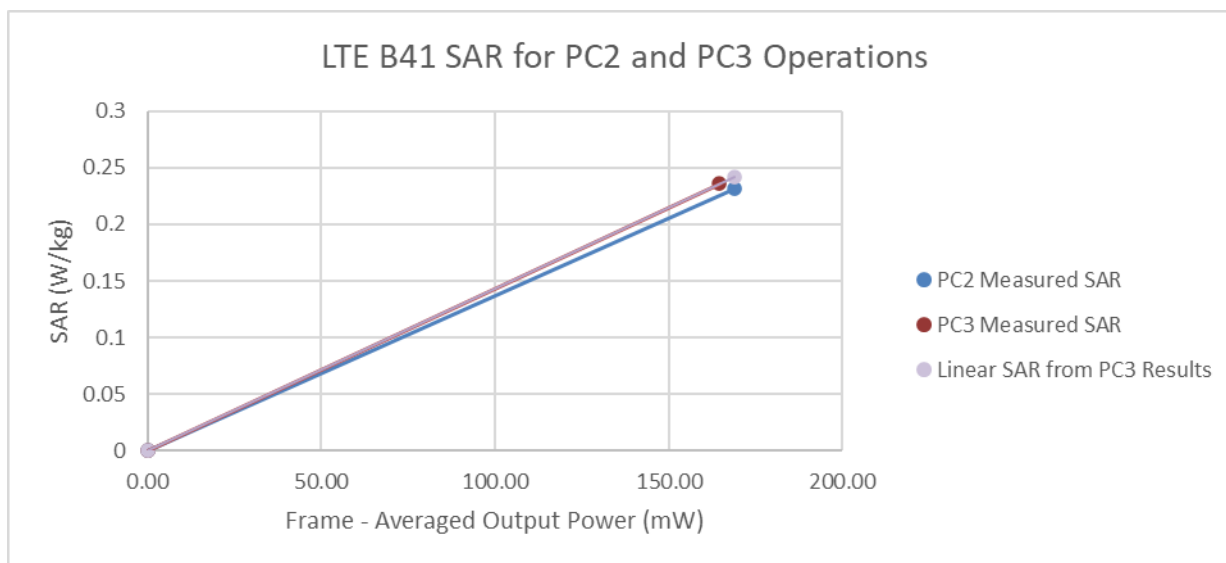


Figure 13-6
LTE Band 41 ULCA Body-Worn Linearity – Antenna B

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Table 13-13
LTE Band 41 Body-Worn Linearity Data – Antenna F

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.0	23.6
Measured Output Power (dBm)	21.63	23.21
Measured SAR (W/kg)	0.126	0.132
Measured Power (mW)	145.55	209.41
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	92.13	90.68
% deviation from expected linearity		6.44%

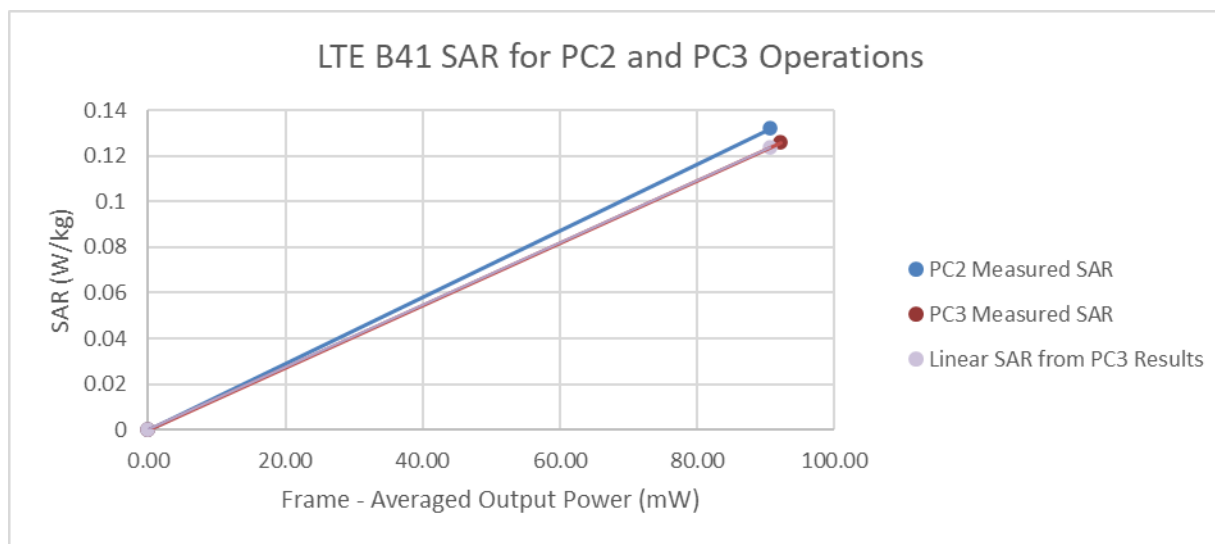


Figure 13-7
LTE Band 41 Body-Worn Linearity – Antenna F

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Table 13-14
LTE Band 41 ULCA Body-Worn Linearity Data – Antenna F

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.0	23.6
Measured Output Power (dBm)	21.64	23.35
Measured SAR (W/kg)	0.133	0.130
Measured Power (mW)	145.88	216.27
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	92.34	93.65
% deviation from expected linearity		-3.62%

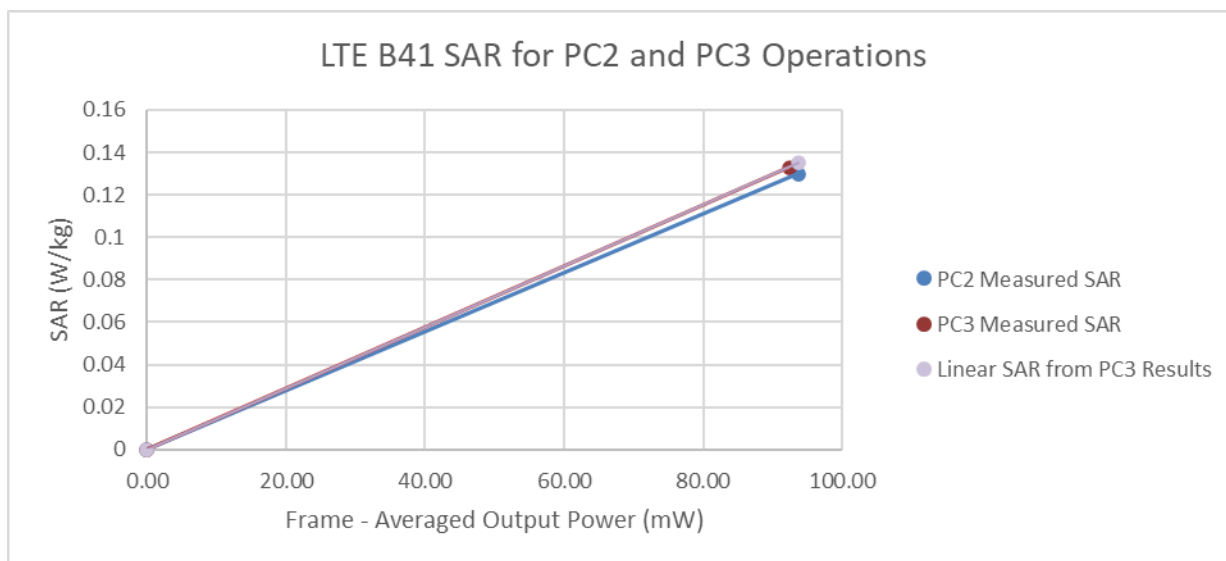


Figure 13-8
LTE Band 41 ULCA Body-Worn Linearity – Antenna F

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Table 13-15
LTE Band 41 Hotspot Linearity Data – Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.00	24.60
Measured Output Power (dBm)	22.26	24.20
Measured SAR (W/kg)	0.484	0.466
Measured Power (mW)	168.27	263.03
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	106.51	113.89
% deviation from expected linearity		-9.96%

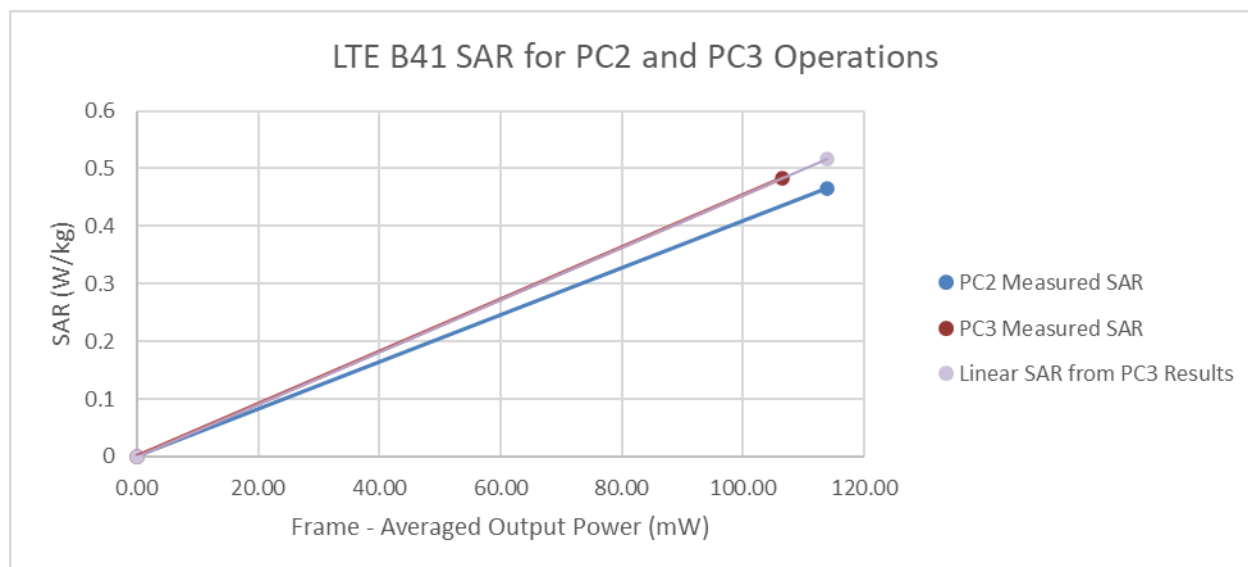


Figure 13-9
LTE Band 41 Hotspot Linearity – Antenna B

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Table 13-16
LTE Band 41 ULCA Hotspot Linearity Data – Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.0	24.6
Measured Output Power (dBm)	22.31	24.25
Measured SAR (W/kg)	0.458	0.447
Measured Power (mW)	170.22	266.07
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	107.75	115.21
% deviation from expected linearity		-8.72%

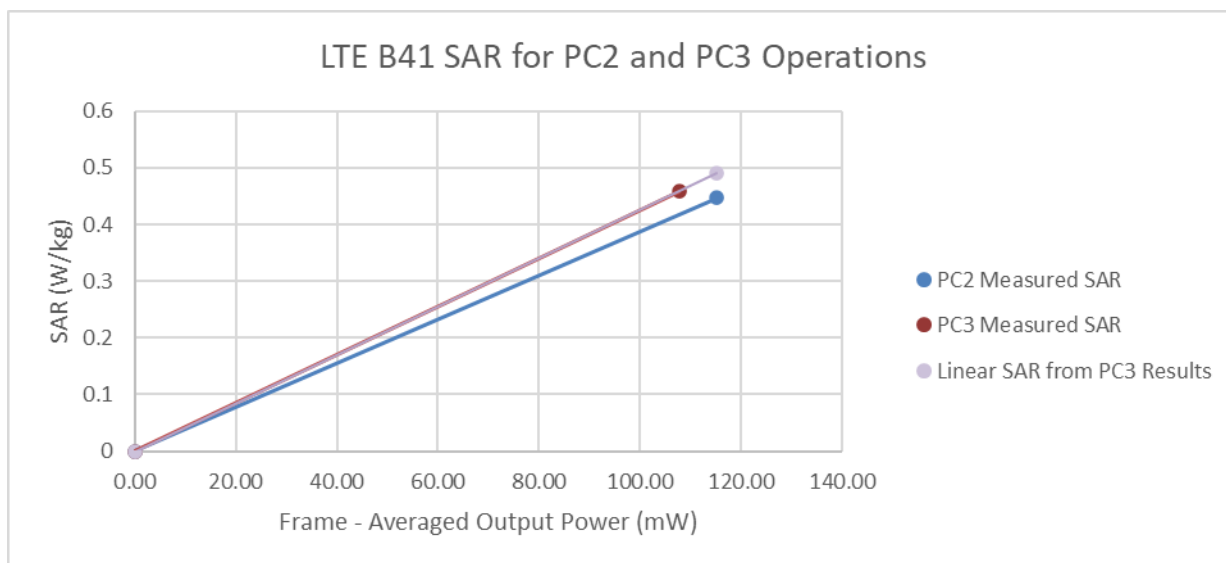


Figure 13-10
LTE Band 41 ULCA Hotspot Linearity – Antenna B

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Table 13-17
LTE Band 41 Hotspot Linearity Data – Antenna F

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.0	23.6
Measured Output Power (dBm)	21.63	23.21
Measured SAR (W/kg)	0.480	0.455
Measured Power (mW)	145.55	209.41
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	92.13	90.68
% deviation from expected linearity		-3.69%

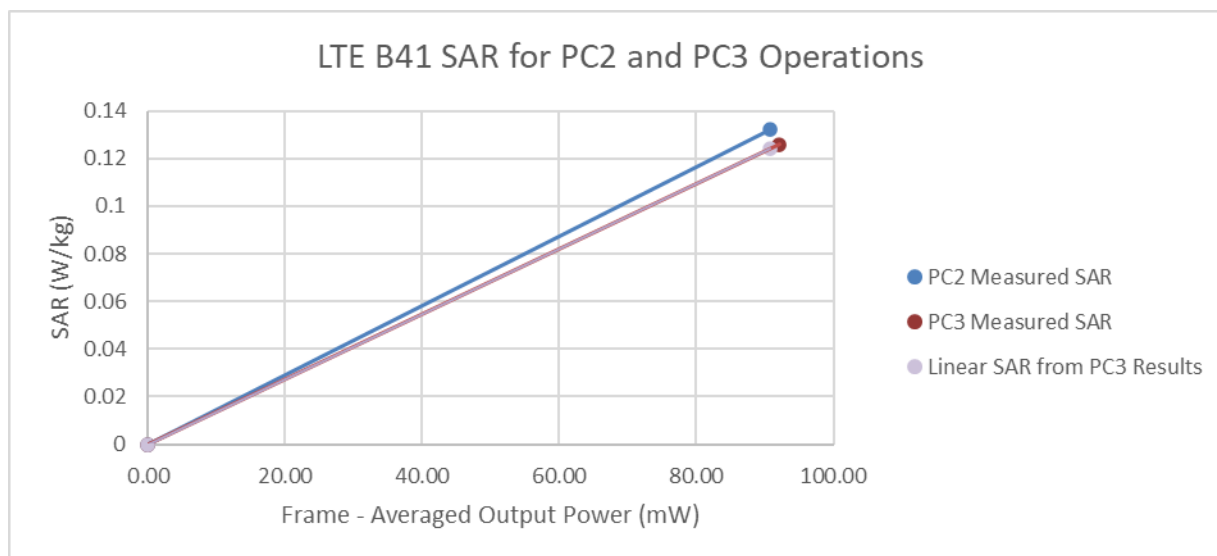


Figure 13-11
LTE Band 41 Hotspot Linearity – Antenna F

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Table 13-18
LTE Band 41 ULCA Hotspot Linearity Data – Antenna F

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.0	23.6
Measured Output Power (dBm)	21.64	23.35
Measured SAR (W/kg)	0.435	0.422
Measured Power (mW)	145.88	216.27
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	92.34	93.65
% deviation from expected linearity		-4.34%

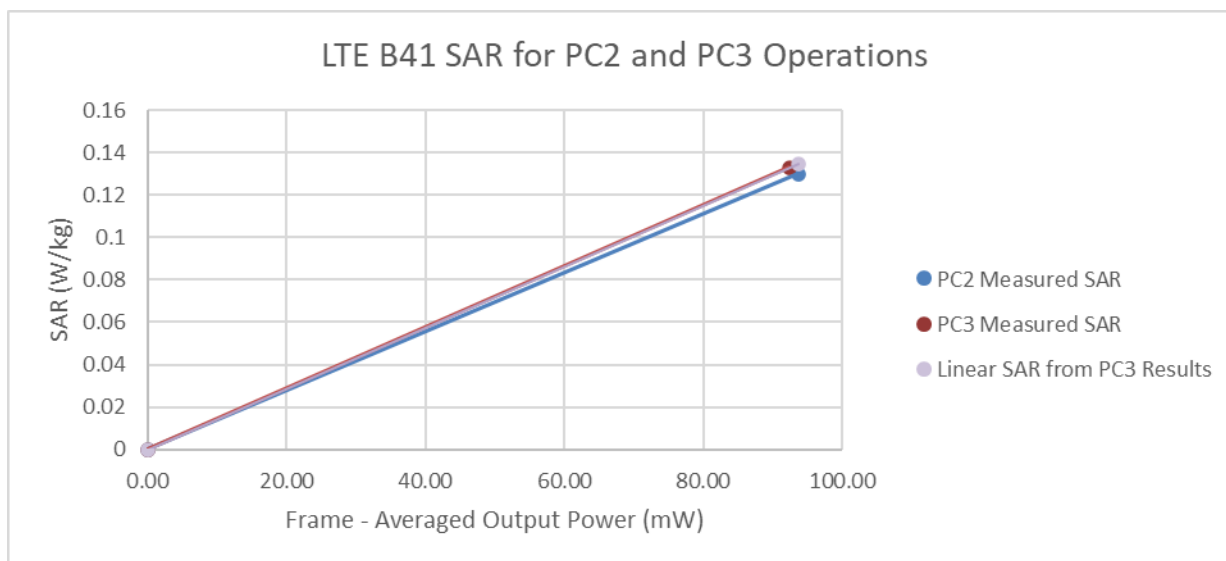


Figure 13-12
LTE Band 41 ULCA Hotspot Linearity – Antenna F

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Table 13-19
LTE Band 41 Phablet Linearity Data - Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.00	25.60
Measured Output Power (dBm)	23.85	25.48
Measured SAR (W/kg)	1.950	1.880
Measured Power (mW)	242.66	353.18
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	153.60	152.93
% deviation from expected linearity		-3.16%

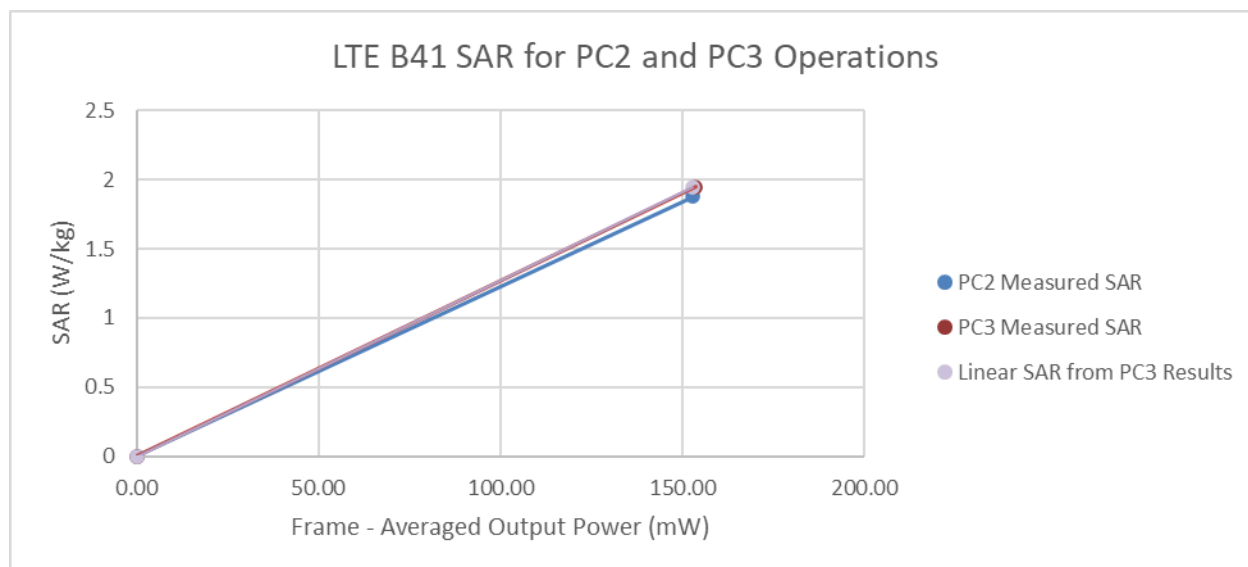


Figure 13-13
LTE Band 41 Phablet Linearity - Antenna B

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Table 13-20
LTE Band 41 ULCA Phablet Linearity Data - Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	26.6
Measured Output Power (dBm)	23.91	25.55
Measured SAR (W/kg)	1.960	1.990
Measured Power (mW)	246.04	358.92
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	155.74	155.41
% deviation from expected linearity		1.74%

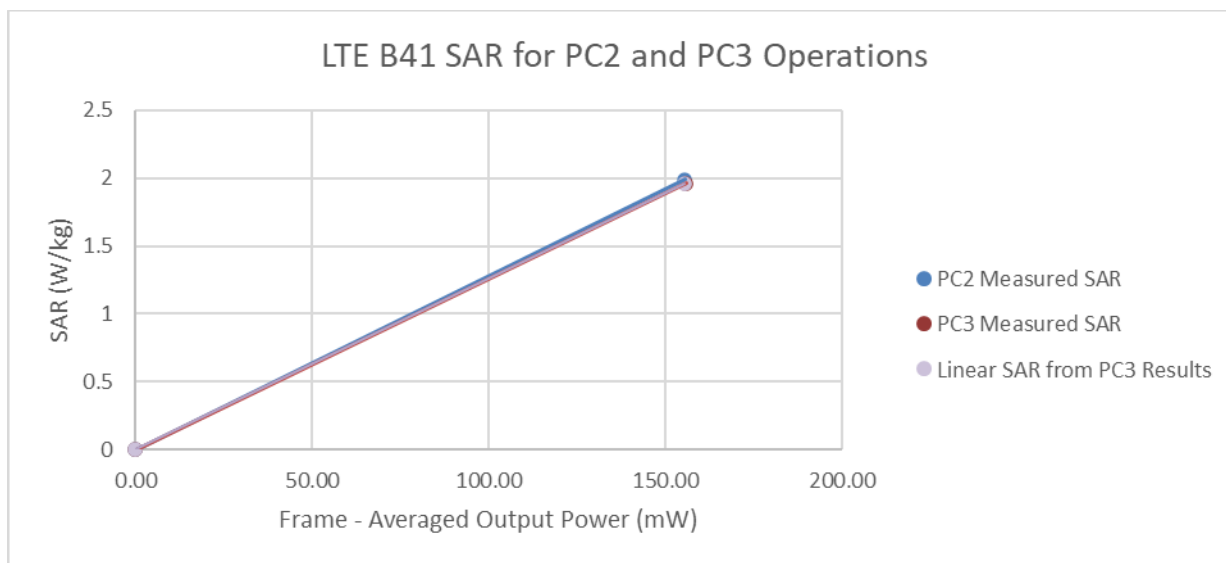


Figure 13-14
LTE Band 41 ULCA Phablet Linearity - Antenna B

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Table 13-21
LTE Band 41 Phablet Linearity Data - Antenna F

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.0	23.6
Measured Output Power (dBm)	21.63	23.21
Measured SAR (W/kg)	2.170	2.160
Measured Power (mW)	145.55	209.41
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	92.13	90.68
% deviation from expected linearity		1.14%

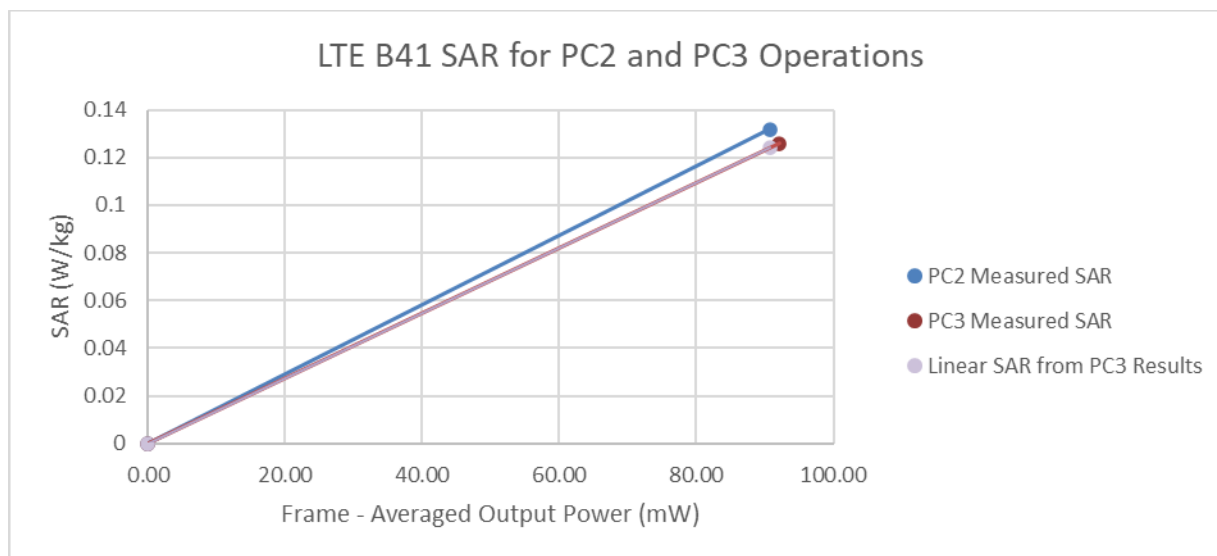


Figure 13-15
LTE Band 41 Phablet Linearity - Antenna F

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Table 13-22
LTE Band 41 ULCA Phablet Linearity Data - Antenna F

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.0	23.6
Measured Output Power (dBm)	21.64	23.35
Measured SAR (W/kg)	2.120	2.080
Measured Power (mW)	145.88	216.27
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	92.34	93.65
% deviation from expected linearity		-3.25%

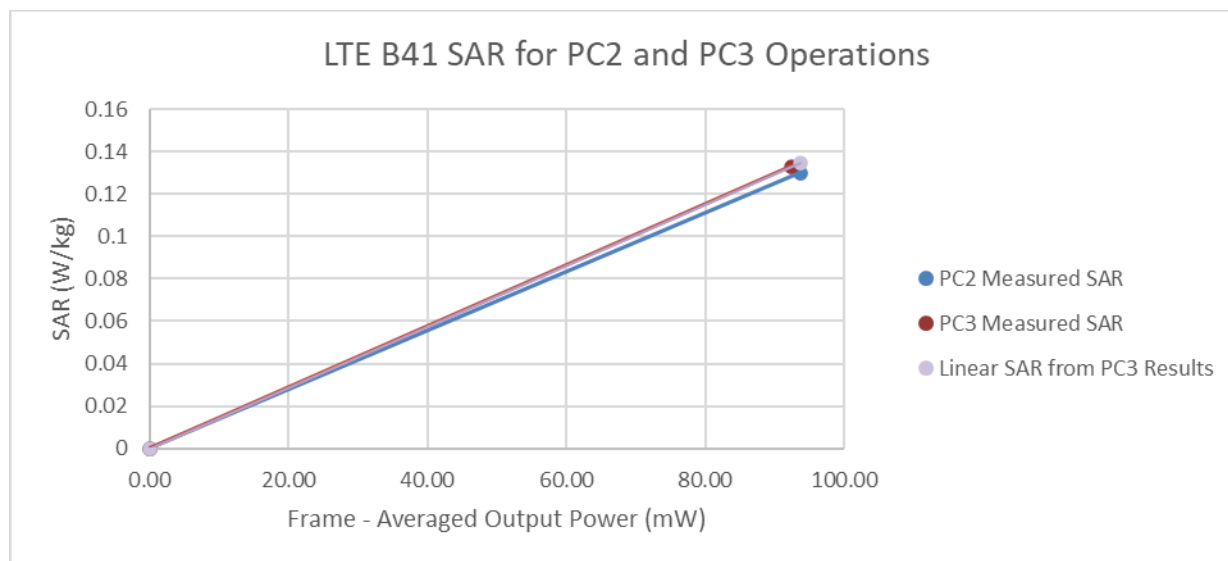


Figure 13-16
LTE Band 41 ULCA Phablet Linearity – Antenna F

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14 EQUIPMENT LIST

[illegible]

Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.

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15 MEASUREMENT UNCERTAINTIES

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	12.2	12.0
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	24.4	24.0

The above measurement uncertainties are according to IEEE Std. 1528-2013

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16 CONCLUSION

16.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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