



RF EXPOSURE TEST REPORT

Applicant Name:

Samsung Electronics Co., Ltd.
129, Samsung-ro, Maetan dong,
Yeongtong-gu, Suwon-si

Gyeonggi-do, 16677, Korea

Date of Testing:

09/11/2025-01/05/2026

Test Site/Location:

Element, Columbia, MD, USA
Element, Suwon, Korea

Document Serial No.:

1M2508270084-01.A3L

FCC ID:

A3LSMS942B

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Portable Handset

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model(s):

SM-S942B/DS, SM-S942B

Equipment Class	Band & Mode	Tx Frequency	SAR			
			1g Head (W/kg)	1g Body-Worn (W/kg)	1g Hotspot (W/kg)	10g Phantet (W/kg)
PCE	GERMOPRES/EDGE 850	824.20 - 848.80 MHz	0.72	0.89	0.89	N/A
PCE	GERMOPRES/EDGE 1900	1850.20 - 1900.80 MHz	<0.1	0.55	0.55	0.75
PCE	UMTS 800	826.40 - 846.60 MHz	0.61	1.19	1.19	N/A
PCE	UMTS 1700	1712.4 - 1752.6 MHz	0.89	0.74	0.74	0.81
PCE	UMTS 1900	1852.4 - 1907.6 MHz	0.51	0.55	0.75	0.77
PCE	LTE Band 12	699.7 - 719.3 MHz	0.58	0.84	0.84	N/A
PCE	LTE Band 17	706.2 - 718.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 13	779.5 - 784.5 MHz	0.71	0.70	0.70	N/A
PCE	LTE Band 28	814.7 - 848.3 MHz	0.64	1.10	1.10	0.53
PCE	LTE Band 5	824.7 - 848.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 66	1710.7 - 1775.3 MHz	0.71	0.68	0.64	1.29
PCE	LTE Band 4	1710.7 - 1752.6 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 25	1850.7 - 1914.3 MHz	0.79	0.85	0.85	1.88
PCE	LTE Band 2	1850.7 - 1909.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 41	2486.5 - 2507.7 MHz	0.48	1.18	1.18	N/A
PCE	NR Band n12	701.5 - 713.5 MHz	0.64	0.76	0.76	N/A
PCE	NR Band n66	816.5 - 848.5 MHz	0.71	1.02	1.02	N/A
PCE	NR Band n5	826.5 - 846.5 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n66	1712.5 - 1777.5 MHz	0.72	0.77	0.79	1.03
PCE	NR Band n25	1852.5 - 1912.5 MHz	0.69	0.93	0.93	1.13
PCE	NR Band n2	1852.5 - 1907.5 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n41	2501.01 - 2586 MHz	0.59	1.09	1.09	2.59
PCE	NR Band n77	3450.01 - 3544.98 MHz	0.73	1.12	1.12	1.76
PCE	2.4 GHz WiFi	2400 - 2483.5 MHz	0.48	0.36	0.36	N/A
DTS	2.4 GHz WiFi	2400 - 2483.5 MHz	0.48	0.36	0.36	N/A
NII	5 GHz WiFi	U-NII-1: 5150 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5650 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5945 - 5985 MHz U-NII-5: 5955 - 6415 MHz	0.44	0.44	0.25	1.02
6CD/IVL	6 GHz WiFi	U-NII-6: 6425 - 6515 MHz U-NII-7: 6535 - 6615 MHz U-NII-8: 6895 - 7115 MHz	0.20	0.45	0.45	0.42
DES	2.4 GHz Bluetooth	2402 - 2480 MHz	0.58	0.48	0.48	0.48
DDX	NFC	13.56 MHz	N/A	N/A	N/A	<0.1
Simultaneous SAR per KDB 690783 DO1v01v03:			1.58	1.58	1.58	2.87
Equipment Class	Band & Mode	Tx Frequency	SAR (W/kg)			
			Head	Body-Worn	Hotspot	Phantet
6CD/IVL	6 GHz WiFi	U-NII-6: 6425 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6615 MHz U-NII-8: 6895 - 7115 MHz	1.54	3.16	3.16	10.03
Overall SAR Summary			1.54	3.16	3.16	10.03
RF Exposure Position			Head	Body-Worn	Hotspot	Phantet
SAR (W/kg)			1.54	3.16	3.16	10.03
Exposure time			2	1	1	1

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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Revision	Description	Issue Date	Revised By
-	Initial Release	01/14/2025	WKR017811

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1 TEST LABORATORY INFORMATION

1.1 Introduction

This test report for device subject to testing at an accredited testing laboratory has been generated by the testing laboratory that tested the device. Measurements were performed at various locations within Element Materials Technology. Detailed location and accredited information regarding the testing laboratories are provided below.

1.2 Test Laboratories Information

1.2.1 Testing Laboratory 1

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY WASHINGTON DC LLC
Test Lab Location	7185 Oakland Mills Road, Columbia, MD 21046, United States Tel. +1.410.290.6652 / Fax +1.410.290.6654
Accreditation Info.	Lab Code. (ISED): 2451B
	CAB Identifier (NIST): US0110
	ISO/IEC 17025 (A2LA): CERT #2041.01
	
Measurement system No.	G, J, L, M, N, O, R, S

1.2.2 Testing Laboratory 2

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY SUWON, LTD.
Test Lab Location	Suwon: P136, Tower A, 13, Heungdeok 1-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
	Unhak2: 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea
	Tel. +82.31.660.7391 / Fax +82-31-660-7318
Accreditation Info.	Lab Code. (ISED): 26168
	CAB Identifier (NIST): KR0169
	ISO/IEC 17025 (A2LA): CERT #2041.04
	
Measurement system No.	S1, S2, S3, S4, S5

Note: For each test performed, the test site can be verified with the probe serial numbers specified in the table of Test System Verification and Equipment List.

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2 DEVICE UNDER TEST

2.1 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 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 26	Voice/Data	814.7 - 848.3 MHz
LTE Band 5	Voice/Data	824.7 - 848.3 MHz
LTE Band 66	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 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 n41	Voice/Data	2501.01 - 2685 MHz
NR Band n77	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3975 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
WPT	N/A	110 kHz - 145 kHz

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2.2 Time-Averaging Algorithm for RF Exposure Compliance

This Device is enabled with S.LSI TAS feature for 2G/3G/4G/5G modes and with Qualcomm® FastConnect TAS feature for WLAN technologies. 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 S.LSI TAS features and Qualcomm® FastConnect TAS features. (report SN could be found in Section 2.11 – Bibliography).

Note that Bluetooth and NFC operations are not enabled with TAS.

The S.LSI TAS 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., Plimit for sub-6 radio), for each characterized technology and band. Characterization is achieved by determining Plimit for WWAN sub-6 that corresponds to the exposure design targets after accounting for all device design related uncertainties, i.e., SAR_design_target (<FCC SAR Limit) for sub-6 radio. The SAR characterization is denoted as SAR char in this report (see RF Exposure Part 0 Test Report, report SN can be found in Section 2.11- Bibliography).

The FastConnect TAS 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., Plimit for WLAN), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN can be found in Section 2.11- Bibliography).

S.LSI and FastConnect TAS allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Final Plimit settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (Radio State Index RSI for S.LSI or Device State Index DSI for FastConnect). Note that the device uncertainty for WWAN and WLAN is 1.0dB for this EUT.

Exposure Scenario Averaging Volume Spacing RSI			Maximum Time-Up Output Power*	Free (Body- Worn or Phablet)	RCV (Head)	Hotspot
				1g/10g	1g	1g
				5mm, 0mm	0mm	10mm, 5mm
				0	1	2
Technology/Band	Antenna	Antenna Group	P _{max}	P _{init}	P _{init}	P _{init}
GSM 850	A	AG0	22.8	24.3	29.2	24.3
GSM 850	E	AG1	24.8	18.8	18.3	18.8
GSM 1900	A	AG0	22.3	17.1	34.3	17.1
UMTS 850	A	AG0	24.5	24.8	32.1	24.8
UMTS 850	E	AG1	24.0	19.0	19.0	19.0
UMTS 1750	A	AG0	23.0	17.0	30.8	17.0
UMTS 1750	F	AG1	23.0	17.5	17.5	17.5
UMTS 1900	A	AG0	23.5	16.5	31.2	16.5
LTE Band 12/17	A	AG0	24.0	25.4	32.5	25.4
LTE Band 12/17	E	AG1	24.0	19.5	19.5	19.5
LTE Band 13	A	AG0	24.0	26.3	31.8	26.3
LTE Band 13	E	AG1	24.0	19.0	19.0	19.0
LTE Band 26/5	A	AG0	23.0	23.5	30.5	23.5
LTE Band 26/5	E	AG1	24.0	18.0	18.0	18.0
LTE Band 66/4	A	AG0	23.5	17.5	31.0	17.5
LTE Band 66/4	F	AG1	23.0	18.0	15.5	18.0
LTE Band 25/2	A	AG0	23.0	17.0	30.8	17.0
LTE Band 25/2	F	AG1	23.0	19.0	16.5	19.0
LTE Band 41 PC3	B	AG0	21.5	18.0	33.3	18.0
LTE Band 41 PC3	F	AG1	20.5	16.5	13.5	16.5
LTE Band 41 PC2	B	AG0	21.5	18.0	33.3	18.0
LTE Band 41 PC2	F	AG1	20.5	16.5	13.5	16.5
NR Band n12	A	AG0	24.0	26.2	33.3	26.2
NR Band n12	E	AG1	24.0	19.5	18.5	19.5
NR Band n26/n5	A	AG0	24.0	24.9	31.3	24.9
NR Band n26/n5	E	AG1	24.0	20.0	19.0	20.0
NR Band n66	A	AG0	23.5	17.5	30.7	17.5
NR Band n66	F	AG1	23.0	18.0	15.5	18.0
NR Band n25/n2	A	AG0	23.0	18.0	30.1	18.0
NR Band n25/n2	F	AG1	23.0	18.0	16.5	18.0
NR Band n41 PC3 (Path 1)	F	AG1	24.0	17.0	13.0	17.0
NR Band n41 PC3 (Path 1)	B	AG0	21.0	17.0	13.0	17.0
NR Band n41 PC3 (Path 1)	E	AG1	22.0	17.0	13.0	17.0
NR Band n41 PC3 (Path 1)	D	AG0	20.0	17.0	13.0	17.0
NR Band n41 PC3 (Path 2)	B	AG0	23.0	17.0	13.0	17.0
NR Band n41 PC3 (Path 2)	F	AG1	21.0	17.0	13.0	17.0
NR Band n41 PC3 (Path 2)	D	AG0	23.0	17.0	13.0	17.0
NR Band n41 PC3 (Path 2)	E	AG1	19.5	17.0	13.0	17.0
NR Band n77 PC2	F	AG1	25.0	16.0	13.0	16.0
NR Band n77 PC2	C	AG0	21.5	15.5	12.5	15.5
NR Band n77 PC2	H	AG1	24.5	15.5	12.5	15.5
NR Band n77 PC2	D	AG0	20.5	15.5	12.5	15.5

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**Note all Final Plimit and maximum tune up output power Pmax 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 Pmax 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/WLAN technology, band, and RSI/DSI = minimum of "final Plimit " and "Maximum tune up output power Pmax " + 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.

			Maximum Tune-Up Output Power*	Body-Worn, Hotspot or Phablet	Head
Exposure Scenario				1g/10g 10mm, 5mm, 0mm 0	1g 0mm 1
Averaging Volume					
Spacing					
DSI					
Technology/Band	Antenna	Antenna Group	P _{max}	P _{limit}	P _{limit}
2.4 GHz WIFI	G	AG1	19.0	15.0	13.0
2.4 GHz WIFI	I	AG1	19.0	15.0	13.0
2.4 GHz WIFI	MIMO	AG1	17.0	15.0	13.0
5 GHz WIFI	G	AG1	17.0	11.5	11.0
5 GHz WIFI	E	AG1	17.0	11.5	11.0
5 GHz WIFI	MIMO	AG1	17.0	11.5	11.0
6 GHz WIFI	G	AG1	16.0	9.5	9.5
6 GHz WIFI	E	AG1	16.0	9.5	9.5
6 GHz WIFI	MIMO	AG1	16.0	9.5	9.5

All MIMO Pmax and Plimit are defined per antenna chain.

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.

2.3 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for Bluetooth operations during held to ear scenarios. 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.

2.4 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/be RU operations can be found in 802.11ax/be RU SAR Exclusion Appendix.

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2.4.1 WWAN Output Power

GSM/GPRS/EDGE 850										
Antenna A										
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	30.0	28.2	27.0	28.0	26.0	24.5	23.0
	Nominal	32.0	32.0	29.0	27.2	26.0	27.0	25.0	23.5	22.0
RSI = 0 (Body-Worn or Phablet)	Max Allowed Power	33.0	33.0	30.0	28.2	27.0	28.0	26.0	24.5	23.0
	Nominal	32.0	32.0	29.0	27.2	26.0	27.0	25.0	23.5	22.0
RSI = 1 (Head)	Max Allowed Power	33.0	33.0	30.0	28.2	27.0	28.0	26.0	24.5	23.0
	Nominal	32.0	32.0	29.0	27.2	26.0	27.0	25.0	23.5	22.0
RSI = 2 (Hotspot)	Max Allowed Power	N/A	33.0	30.0	28.2	27.0	28.0	26.0	24.5	23.0
	Nominal	N/A	32.0	29.0	27.2	26.0	27.0	25.0	23.5	22.0
GSM/GPRS/EDGE 850										
Antenna E										
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	33.5	33.5	31.5	30.0	29.0	28.0	26.0	24.5	23.0
	Nominal	32.5	32.5	30.5	29.0	28.0	27.0	25.0	23.5	22.0
RSI = 0 (Body-Worn or Phablet)	Max Allowed Power	29.0	29.0	26.0	24.0	23.0	27.0	25.0	23.5	22.0
	Nominal	28.0	28.0	25.0	23.0	22.0	26.0	24.0	22.5	21.0
RSI = 1 (Head)	Max Allowed Power	28.5	28.5	25.5	23.7	22.5	27.0	25.0	23.5	22.0
	Nominal	27.5	27.5	24.5	22.7	21.5	26.0	24.0	22.5	21.0
RSI = 2 (Hotspot)	Max Allowed Power	N/A	29.0	26.0	24.0	23.0	27.0	25.0	23.5	22.0
	Nominal	N/A	28.0	25.0	23.0	22.0	26.0	24.0	22.5	21.0
GSM/GPRS/EDGE 1900										
Antenna A										
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	31.5	31.5	29.5	27.5	26.0	27.5	25.5	24.5	23.0
	Nominal	30.5	30.5	28.5	26.5	25.0	26.5	24.5	23.5	22.0
RSI = 0 (Body-Worn or Phablet)	Max Allowed Power	26.0	26.0	23.5	22.5	20.0	26.5	24.0	22.0	21.0
	Nominal	25.0	25.0	22.5	21.5	19.0	25.5	23.0	21.0	20.0
RSI = 1 (Head)	Max Allowed Power	31.5	31.5	29.5	27.5	26.0	27.5	25.5	24.5	23.0
	Nominal	30.5	30.5	28.5	26.5	25.0	26.5	24.5	23.5	22.0
RSI = 2 (Hotspot)	Max Allowed Power	N/A	26.0	23.5	22.5	20.0	26.5	24.0	22.0	21.0
	Nominal	N/A	25.0	22.5	21.5	19.0	25.5	23.0	21.0	20.0

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

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UMTS Band 5 (850 MHz)					
Antenna A					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.5	23.5	23.5	23.5
	Nominal	24.5	22.5	22.5	22.5
RSI = 0 (Body-Worn or Phablet)	Max Allowed Power	25.5	23.5	23.5	23.5
	Nominal	24.5	22.5	22.5	22.5
RSI = 1 (Head)	Max Allowed Power	25.5	23.5	23.5	23.5
	Nominal	24.5	22.5	22.5	22.5
RSI = 2 (Hotspot)	Max Allowed Power	25.5	23.5	23.5	23.5
	Nominal	24.5	22.5	22.5	22.5
UMTS Band 5 (850 MHz)					
Antenna E					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.0	23.5	22.5	22.5
	Nominal	24.0	22.5	21.5	21.5
RSI = 0 (Body-Worn or Phablet)	Max Allowed Power	20.0	19.0	18.0	19.5
	Nominal	19.0	18.0	17.0	18.5
RSI = 1 (Head)	Max Allowed Power	20.0	19.0	18.0	19.5
	Nominal	19.0	18.0	17.0	18.5
RSI = 2 (Hotspot)	Max Allowed Power	20.0	19.0	18.0	19.5
	Nominal	19.0	18.0	17.0	18.5
UMTS Band 4 (1750 MHz)					
Antenna A					
Power Level		Modulated Average Output Power (in dBm)			
		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
RSI = 0 (Body-Worn or Phablet)	Max Allowed Power	18.0	17.0	15.5	16.5
	Nominal	17.0	16.0	14.5	15.5
RSI = 1 (Head)	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
RSI = 2 (Hotspot)	Max Allowed Power	18.0	17.0	15.5	16.5
	Nominal	17.0	16.0	14.5	15.5

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UMTS Band 4 (1750 MHz)					
Antenna F					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	24.0	24.0	23.0	23.0
	Nominal	23.0	23.0	22.0	22.0
RSI = 0 (Body-Worn or Phablet)	Max Allowed Power	18.5	18.5	17.5	18.5
	Nominal	17.5	17.5	16.5	17.5
RSI = 1 (Head)	Max Allowed Power	18.5	18.5	17.5	18.5
	Nominal	17.5	17.5	16.5	17.5
RSI = 2 (Hotspot)	Max Allowed Power	18.5	18.5	17.5	18.5
	Nominal	17.5	17.5	16.5	17.5
UMTS Band 2 (1900 MHz)					
Antenna A					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	24.5	23.5	23.5	23.5
	Nominal	23.5	22.5	22.5	22.5
RSI = 0 (Body-Worn or Phablet)	Max Allowed Power	17.5	17.5	17.0	17.5
	Nominal	16.5	16.5	16.0	16.5
RSI = 1 (Head)	Max Allowed Power	24.5	23.5	23.5	23.5
	Nominal	23.5	22.5	22.5	22.5
RSI = 2 (Hotspot)	Max Allowed Power	17.5	17.5	17.0	17.5
	Nominal	16.5	16.5	16.0	16.5

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)			
			Pmax	RSI = 0 (Body-Worn or Phablet)	RSI = 1 (Head)	RSI = 2 (Hotspot)
LTE Band 12/17	A	Max Allowed Power	25.0	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0	24.0
LTE Band 12/17	E	Max Allowed Power	25.0	20.5	20.5	20.5
		Nominal	24.0	19.5	19.5	19.5
LTE Band 13	A	Max Allowed Power	25.0	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0	24.0
LTE Band 13	E	Max Allowed Power	25.0	20.0	20.0	20.0
		Nominal	24.0	19.0	19.0	19.0
LTE Band 26/5	A	Max Allowed Power	24.0	24.0	24.0	24.0
		Nominal	23.0	23.0	23.0	23.0
LTE Band 26/5	E	Max Allowed Power	25.0	19.0	19.0	19.0
		Nominal	24.0	18.0	18.0	18.0
LTE Band 66/4	A	Max Allowed Power	24.5	18.5	24.5	18.5
		Nominal	23.5	17.5	23.5	17.5
LTE Band 66/4	F	Max Allowed Power	24.0	19.0	16.5	19.0
		Nominal	23.0	18.0	15.5	18.0
LTE Band 25/2	A	Max Allowed Power	24.0	18.0	24.0	18.0
		Nominal	23.0	17.0	23.0	17.0
LTE Band 25/2	F	Max Allowed Power	24.0	20.0	17.5	20.0
		Nominal	23.0	19.0	16.5	19.0
LTE Band 41 PC3	B	Max Allowed Power	24.5	21.0	24.5	21.0
		Nominal	23.5	20.0	23.5	20.0
LTE Band 41 PC3	F	Max Allowed Power	23.5	19.5	16.5	19.5
		Nominal	22.5	18.5	15.5	18.5
LTE Band 41 PC2	B	Max Allowed Power	26.1	22.6	26.1	22.6
		Nominal	25.1	21.6	25.1	21.6
LTE Band 41 PC2	F	Max Allowed Power	25.1	21.1	18.1	21.1
		Nominal	24.1	20.1	17.1	20.1

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

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)			
			Pmax	RSI = 0 (Body Worn or Phablet)	RSI = 1 (Head)	RSI = 2 (Hotspot)
NR Band n12	A	Max Allowed Power	25.0	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0	24.0
NR Band n12	E	Max Allowed Power	25.0	20.5	19.5	20.5
		Nominal	24.0	19.5	18.5	19.5
NR Band n26/n5	A	Max Allowed Power	25.0	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0	24.0
NR Band n26/n5	E	Max Allowed Power	25.0	21.0	20.0	21.0
		Nominal	24.0	20.0	19.0	20.0
NR Band n66	A	Max Allowed Power	24.5	18.5	24.5	18.5
		Nominal	23.5	17.5	23.5	17.5
NR Band n66	F	Max Allowed Power	24.0	19.0	16.5	19.0
		Nominal	23.0	18.0	15.5	18.0
NR Band n25/n2	A	Max Allowed Power	24.0	19.0	24.0	19.0
		Nominal	23.0	18.0	23.0	18.0
NR Band n25/n2	F	Max Allowed Power	24.0	19.0	17.5	19.0
		Nominal	23.0	18.0	16.5	18.0
NR Band n41 PC3 (Path 1)	F	Max Allowed Power	25.0	18.0	14.0	18.0
		Nominal	24.0	17.0	13.0	17.0
NR Band n41 PC3 (Path 1)	B	Max Allowed Power	22.0	18.0	14.0	18.0
		Nominal	21.0	17.0	13.0	17.0
NR Band n41 PC3 (Path 1)	E	Max Allowed Power	23.0	18.0	14.0	18.0
		Nominal	22.0	17.0	13.0	17.0
NR Band n41 PC3 (Path 1)	D	Max Allowed Power	21.0	18.0	14.0	18.0
		Nominal	20.0	17.0	13.0	17.0
NR Band n41 PC3 (Path 2)	B	Max Allowed Power	24.0	18.0	14.0	18.0
		Nominal	23.0	17.0	13.0	17.0
NR Band n41 PC3 (Path 2)	F	Max Allowed Power	22.0	18.0	14.0	18.0
		Nominal	21.0	17.0	13.0	17.0
NR Band n41 PC3 (Path 2)	D	Max Allowed Power	24.0	18.0	14.0	18.0
		Nominal	23.0	17.0	13.0	17.0
NR Band n41 PC3 (Path 2)	E	Max Allowed Power	20.5	18.0	14.0	18.0
		Nominal	19.5	17.0	13.0	17.0
NR Band n77 PC2	F	Max Allowed Power	26.0	17.0	14.0	17.0
		Nominal	25.0	16.0	13.0	16.0
NR Band n77 PC2	C	Max Allowed Power	22.5	16.5	13.5	16.5
		Nominal	21.5	15.5	12.5	15.5
NR Band n77 PC2	H	Max Allowed Power	25.5	16.5	13.5	16.5
		Nominal	24.5	15.5	12.5	15.5
NR Band n77 PC2	D	Max Allowed Power	21.5	16.5	13.5	16.5
		Nominal	20.5	15.5	12.5	15.5

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

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2.4.2 2.4 GHz WLAN Output Power

The table below is applicable in the following conditions:

- Pmax

Band	IEEE 802.11 Wireless LAN Output Power (in dBm)																							
	SSB Antenna 5												SSB Antenna 1											
	Antenna 5						Antenna 1						Antenna 5						Antenna 1					
	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm
2.4 GHz WLAN	20.0	-19.0	18.0	-17.0	16.0	-15.0	15.0	-14.0	13.0	-12.0	11.0	-10.0	20.0	-19.0	18.0	-17.0	16.0	-15.0	15.0	-14.0	13.0	-12.0	11.0	-10.0
	in 12	in 11	in 10	in 9	in 8	in 7	in 6	in 5	in 4	in 3	in 2	in 1	in 12	in 11	in 10	in 9	in 8	in 7	in 6	in 5	in 4	in 3	in 2	in 1
	in 12	in 11	in 10	in 9	in 8	in 7	in 6	in 5	in 4	in 3	in 2	in 1	in 12	in 11	in 10	in 9	in 8	in 7	in 6	in 5	in 4	in 3	in 2	in 1

The table below is applicable in the following conditions:

- DSI = 0 (Body-worn, Hotspot, or Phablet)

Band	IEEE 802.11 Wireless LAN Output Power (in dBm)																							
	SSB Antenna 5												SSB Antenna 1											
	Antenna 5						Antenna 1						Antenna 5						Antenna 1					
	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm
2.4 GHz WLAN	18.0	-17.0	-16.0	-15.0	-14.0	-13.0	-12.0	-11.0	-10.0	-9.0	-8.0	-7.0	18.0	-17.0	-16.0	-15.0	-14.0	-13.0	-12.0	-11.0	-10.0	-9.0	-8.0	-7.0
	in 12	in 11	in 10	in 9	in 8	in 7	in 6	in 5	in 4	in 3	in 2	in 1	in 12	in 11	in 10	in 9	in 8	in 7	in 6	in 5	in 4	in 3	in 2	in 1
	in 12	in 11	in 10	in 9	in 8	in 7	in 6	in 5	in 4	in 3	in 2	in 1	in 12	in 11	in 10	in 9	in 8	in 7	in 6	in 5	in 4	in 3	in 2	in 1

The table below is applicable in the following conditions:

- DSI = 1 (Head)

Band	IEEE 802.11 Wireless LAN Output Power (in dBm)																							
	SSB Antenna 5												SSB Antenna 1											
	Antenna 5						Antenna 1						Antenna 5						Antenna 1					
	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm
2.4 GHz WLAN	14.0	-13.0	-12.0	-11.0	-10.0	-9.0	-8.0	-7.0	-6.0	-5.0	-4.0	-3.0	14.0	-13.0	-12.0	-11.0	-10.0	-9.0	-8.0	-7.0	-6.0	-5.0	-4.0	-3.0
	in 12	in 11	in 10	in 9	in 8	in 7	in 6	in 5	in 4	in 3	in 2	in 1	in 12	in 11	in 10	in 9	in 8	in 7	in 6	in 5	in 4	in 3	in 2	in 1
	in 12	in 11	in 10	in 9	in 8	in 7	in 6	in 5	in 4	in 3	in 2	in 1	in 12	in 11	in 10	in 9	in 8	in 7	in 6	in 5	in 4	in 3	in 2	in 1

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2.4.4 6 GHz Maximum WLAN Output Power

The tables below are applicable in the following conditions:

- Pmax

Mode	Band	IEEE 802.11 Modulated Frame Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna G						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	8.0	7.0	8.5	7.5	8.5	7.5	8.0	7.0	8.5	7.5	8.5	7.5	8.0	7.0	8.5	7.5	8.5	7.5
		ch. 2: 5.0	4.0	ch. 2: 4.0	3.0	ch. 2: 4.0	3.0	ch. 2: 5.0	4.0	ch. 2: 4.0	3.0	ch. 2: 4.0	3.0	ch. 2: 5.0	4.0	ch. 2: 4.0	3.0	ch. 2: 4.0	3.0
	UNII-6	9.5	8.5	10.0	9.0	10.0	9.0	9.5	8.5	10.0	9.0	10.0	9.0	9.5	8.5	10.0	9.0	10.0	9.0
	UNII-7	9.5	8.5	10.0	9.0	10.0	9.0	9.5	8.5	10.0	9.0	10.0	9.0	9.5	8.5	10.0	9.0	10.0	9.0
6 GHz WiFi (40MHz BW) - LPI	UNII-5	8.0	7.0	8.5	7.5	8.5	7.5	8.0	7.0	8.5	7.5	8.5	7.5	8.0	7.0	8.5	7.5	8.5	7.5
		ch. 233: 7.0	6.0					ch. 233: 7.0	6.0					ch. 233: 7.0	6.0				
	UNII-6			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0
	UNII-7			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0
6 GHz WiFi (80MHz BW) - LPI	UNII-5			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0
	UNII-6			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0
	UNII-7			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0
6 GHz WiFi (160MHz BW) - LPI	UNII-5			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0
	UNII-6			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0
	UNII-7			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0
6 GHz WiFi (320MHz BW) - LPI	UNII-5			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0
	UNII-6					11.0	10.0					11.0	10.0					11.0	10.0
	UNII-7					11.0	10.0					11.0	10.0					11.0	10.0
6 GHz WiFi (320MHz BW) - LPI	UNII-8					11.0	10.0					11.0	10.0					11.0	10.0

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The tables below are applicable in the following conditions:

- DSI = 0 (Body-worn, Hotspot, or Phablet)
- DSI = 1 (Head)

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna G						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	8.0	7.0	8.5	7.5	8.5	7.5	8.0	7.0	8.5	7.5	8.5	7.5	8.0	7.0	8.5	7.5	8.5	7.5
	ch. 2:	5.0	4.0	ch. 2:	4.0	3.0	ch. 2:	4.0	3.0	ch. 2:	5.0	4.0	3.0	ch. 2:	5.0	4.0	3.0	ch. 2:	4.0
	UNII-6	9.5	8.5	10.0	9.0	10.0	9.0	9.5	8.5	10.0	9.0	10.0	9.0	9.5	8.5	10.0	9.0	10.0	9.0
	UNII-7	9.5	8.5	10.0	9.0	10.0	9.0	9.5	8.5	10.0	9.0	10.0	9.0	9.5	8.5	10.0	9.0	10.0	9.0
6 GHz WiFi (40MHz BW) - LPI	UNII-8	8.0	7.0	8.5	7.5	8.5	7.5	8.0	7.0	8.5	7.5	8.5	7.5	8.0	7.0	8.5	7.5	8.5	7.5
	ch. 233:	7.0	6.0					ch. 233:	7.0	6.0				ch. 233:	7.0	6.0			
	UNII-5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-6			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
6 GHz WiFi (80MHz BW) - LPI	UNII-7			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-8			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-6			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
6 GHz WiFi (160MHz BW) - LPI	UNII-7			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-8			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-6			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
6 GHz WiFi (320MHz BW) - LPI	UNII-7			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-8			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-6			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
6 GHz WiFi (20MHz BW) - SP	UNII-7	10.5	9.5	10.5	9.5	10.5	9.5	10.5	9.5	10.5	9.5	10.5	9.5	10.5	9.5	10.5	9.5	10.5	9.5
	ch. 2:	5.0	4.0	ch. 2:	4.0	3.0	ch. 2:	5.0	4.0	ch. 2:	5.0	4.0	3.0	ch. 2:	5.0	4.0	3.0	ch. 2:	4.0
	UNII-5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-6			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
6 GHz WiFi (40MHz BW) - SP	UNII-7			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-8			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-6			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
6 GHz WiFi (80MHz BW) - SP	UNII-7			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-8			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-6			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
6 GHz WiFi (160MHz BW) - SP	UNII-7			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-8			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-6			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
6 GHz WiFi (320MHz BW) - SP	UNII-7			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-8			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
	UNII-6			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5			10.5	9.5	10.5	9.5
6 GHz WiFi (20MHz BW) - VLP	UNII-5	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0
	ch. 2:	4.0	3.0	ch. 2:	4.0	3.0	ch. 2:	4.0	3.0	ch. 2:	4.0	3.0	ch. 2:	4.0	3.0	ch. 2:	4.0	3.0	ch. 2:
	UNII-6	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0
	UNII-7	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0
6 GHz WiFi (40MHz BW) - VLP	UNII-8	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0
	UNII-5			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
	UNII-6			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
	UNII-7			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
6 GHz WiFi (80MHz BW) - VLP	UNII-8			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
	UNII-5			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
	UNII-6			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
	UNII-7			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
6 GHz WiFi (160MHz BW) - VLP	UNII-8			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
	UNII-5			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
	UNII-6			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
	UNII-7			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
6 GHz WiFi (320MHz BW) - VLP	UNII-8			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
	UNII-5			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
	UNII-6			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
	UNII-7			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0

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2.4.5 2.4 GHz Bluetooth Maximum Output Power

The table below is applicable in the following conditions:

- Pmax, Free, Hotspot Mode, or Phablet

Mode	Data Rate	Modulated Output Power (in dBm)							
		Single Antenna				Each Chain in Dual Mode		Each Chain in Dual Mode	
		Antenna G		Antenna I		Antenna G		Antenna I	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	16.0	15.0	16.0	15.0	13.0	12.0	13.0	12.0
Bluetooth EDR	2Mbps	14.0	13.0	14.0	13.0	11.0	10.0	10.5	9.5
Bluetooth EDR	3Mbps	13.0	12.0	14.0	13.0	11.0	10.0	10.5	9.5
Bluetooth LE	1Mbps	17.0	16.0	17.0	16.0	14.0	13.0	14.0	13.0
Bluetooth LE	2Mbps	17.0	16.0	17.0	16.0	14.0	13.0	14.0	13.0
Bluetooth LE	125kbps	12.5	11.5	N/A	N/A	N/A	N/A	N/A	N/A
Bluetooth LE	500kbps	12.0	11.0	N/A	N/A	N/A	N/A	N/A	N/A

2.4.6 2.4 GHz Bluetooth Reduced Output Power

The table below is applicable in the following conditions:

- RCV active

Mode	Data Rate	Modulated Output Power (in dBm)							
		Single Antenna				Each Chain in Dual Mode		Each Chain in Dual Mode	
		Antenna G		Antenna I		Antenna G		Antenna I	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	13.0	12.0	13.0	12.0	11.0	10.0	11.0	10.0
Bluetooth EDR	2Mbps	12.0	11.0	12.0	11.0	11.0	10.0	10.5	9.5
Bluetooth EDR	3Mbps	12.0	11.0	12.0	11.0	10.0	9.0	10.0	9.0
Bluetooth LE	1Mbps	14.0	13.0	14.0	13.0	12.0	11.0	12.0	11.0
Bluetooth LE	2Mbps	14.0	13.0	14.0	13.0	12.0	11.0	12.0	11.0
Bluetooth LE	125kbps	12.5	11.5	N/A	N/A	N/A	N/A	N/A	N/A
Bluetooth LE	500kbps	12.0	11.0	N/A	N/A	N/A	N/A	N/A	N/A

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2.5 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 2-1
Device Edges/Sides for SAR Testing

Antenna	Back	Front	Top	Bottom	Right	Left
A	Yes	Yes	No	Yes	Yes	Yes
B	Yes	Yes	No	Yes	No	Yes
C	Yes	Yes	No	Yes	No	Yes
D	Yes	Yes	No	Yes	Yes	No
E	Yes	Yes	Yes	No	Yes	No
F	Yes	Yes	Yes	No	No	Yes
G	Yes	Yes	Yes	No	No	Yes
H	Yes	Yes	No	No	No	Yes
I	Yes	Yes	Yes	No	Yes	No
MIMO	Yes	Yes	Yes	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-2A, U-NII-2C, U-NII-4, and WIFI6E SP/LPI operations are disabled.

2.6 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.

2.7 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.

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Table 2-2
Simultaneous Transmission Scenarios

	Capable to	Used	Policy	Resource	Status	Note
1	SIM vmln + 2 GHz Bluetooth SDD	Yes	N/A	Yes	Yes	* Bluetooth tethering is considered for Antenna G
2	SIM vmln + 2 GHz Bluetooth MIMO	Yes	Yes	N/A	Yes	
3	SIM vmln + 2 GHz WLAN SDD + 5 GHz WLAN SDD	Yes	Yes	N/A	Yes	
4	SIM vmln + 2 GHz WLAN SDD + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
5	SIM vmln + 2 GHz WLAN SDD + 6 GHz WLAN SDD	Yes	Yes	N/A	Yes	
6	SIM vmln + 2 GHz WLAN SDD + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
7	SIM vmln + 2 GHz WLAN SDD + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
8	SIM vmln + 2 GHz WLAN SDD + 8 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
9	SIM vmln + 2 GHz Bluetooth MIMO + 5 GHz WLAN SDD	Yes	Yes	N/A	Yes	
10	SIM vmln + 2 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
11	SIM vmln + 2 GHz WLAN MIMO + 6 GHz WLAN SDD	Yes	Yes	N/A	Yes	
12	SIM vmln + 2 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
13	SIM vmln + 2 GHz WLAN SDD + 5 GHz WLAN SDD	Yes	Yes	N/A	Yes	
14	SIM vmln + 2 GHz WLAN SDD + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
15	SIM vmln + 2 GHz WLAN SDD + 6 GHz WLAN SDD	Yes	Yes	N/A	Yes	
16	SIM vmln + 2 GHz WLAN SDD + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
17	SIM vmln + 2 GHz Bluetooth AUI + 2.4 GHz WLAN AUI	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered for Antenna G
18	SIM vmln + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN SDD	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered for Antenna G
19	SIM vmln + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered for Antenna G
20	SIM vmln + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN SDD	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered for Antenna G
21	SIM vmln + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered for Antenna G
22	SIM vmln + 2.4 GHz Bluetooth SDD + 6 GHz WLAN SDD	Yes	Yes	N/A	Yes	
23	SIM vmln + 2.4 GHz Bluetooth SDD + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
24	SIM vmln + 2.4 GHz Bluetooth SDD + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
25	SIM vmln + 2.4 GHz Bluetooth SDD + 8 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
26	SIM vmln + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN SDD	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered for Antenna G
27	SIM vmln + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered for Antenna G
28	SIM vmln + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN SDD	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered for Antenna G
29	SIM vmln + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN MIMO	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered for Antenna G
30	UMTS + 2.4 GHz Bluetooth SDD	Yes**	Yes	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
31	UMTS + 2.4 GHz Bluetooth MIMO	Yes**	Yes	N/A	Yes	
32	UMTS + 2.4 GHz WLAN SDD	Yes	Yes	N/A	Yes	
33	UMTS + 2.4 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
34	UMTS + 5 GHz WLAN SDD	Yes	Yes	N/A	Yes	
35	UMTS + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
36	UMTS + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
37	UMTS + 8 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
38	UMTS + 2.4 GHz WLAN MIMO + 5 GHz WLAN SDD	Yes	Yes	N/A	Yes	
39	UMTS + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
40	UMTS + 2.4 GHz WLAN SDD + 5 GHz WLAN SDD	Yes	Yes	N/A	Yes	
41	UMTS + 2.4 GHz WLAN SDD + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
42	UMTS + 2.4 GHz WLAN SDD + 6 GHz WLAN SDD	Yes	Yes	N/A	Yes	
43	UMTS + 2.4 GHz WLAN SDD + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
44	UMTS + 2.4 GHz WLAN SDD + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
45	UMTS + 2.4 GHz WLAN SDD + 8 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
46	UMTS + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI	Yes**	Yes**	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
47	UMTS + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN SDD	Yes**	Yes**	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
48	UMTS + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN MIMO	Yes**	Yes**	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
49	UMTS + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN SDD	Yes**	Yes**	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
50	UMTS + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN MIMO	Yes**	Yes**	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
51	UMTS + 2.4 GHz Bluetooth SDD + 6 GHz WLAN SDD	Yes**	Yes**	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
52	UMTS + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
53	UMTS + 2.4 GHz Bluetooth MIMO + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
54	UMTS + 2.4 GHz Bluetooth SDD + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
55	UMTS + 2.4 GHz Bluetooth SDD + 8 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
56	UMTS + 2.4 GHz WLAN MIMO + 5 GHz WLAN SDD	Yes	Yes	N/A	Yes	
57	UMTS + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
58	UMTS + 2.4 GHz WLAN SDD + 5 GHz WLAN SDD	Yes	Yes	N/A	Yes	
59	UMTS + 2.4 GHz WLAN SDD + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
60	UMTS + 2.4 GHz WLAN SDD + 6 GHz WLAN SDD	Yes	Yes	N/A	Yes	
61	LTE + 2.4 GHz Bluetooth SDD	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered for Antenna G
62	LTE + 2.4 GHz Bluetooth MIMO	Yes*	Yes	N/A	Yes	
63	LTE + 2.4 GHz WLAN SDD + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
64	LTE + 2.4 GHz WLAN SDD + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
65	LTE + 2.4 GHz WLAN SDD + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
66	LTE + 2.4 GHz WLAN SDD + 6 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
67	LTE + 2.4 GHz WLAN SDD + 8 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
68	LTE + 2.4 GHz WLAN SDD + 8 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
69	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
70	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
71	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
72	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
73	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
74	LTE + 2.4 GHz Bluetooth SDD + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
75	LTE + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
76	LTE + 2.4 GHz Bluetooth MIMO + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
77	LTE + 2.4 GHz Bluetooth SDD + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
78	LTE + 2.4 GHz Bluetooth SDD + 8 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
79	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN SDD	Yes	Yes	N/A	Yes	
80	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
81	LTE + 2.4 GHz WLAN SDD + 5 GHz WLAN SDD	Yes	Yes	N/A	Yes	
82	LTE + 2.4 GHz WLAN SDD + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
83	LTE + 2.4 GHz WLAN SDD + 6 GHz WLAN SDD	Yes	Yes	N/A	Yes	
84	LTE + 2.4 GHz WLAN SDD + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
85	LTE + 2.4 GHz WLAN SDD + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
86	LTE + 2.4 GHz WLAN SDD + 8 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
87	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
88	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
89	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
90	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
91	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
92	LTE + 2.4 GHz Bluetooth SDD + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
93	LTE + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
94	LTE + 2.4 GHz Bluetooth MIMO + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
95	LTE + 2.4 GHz Bluetooth SDD + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
96	LTE + 2.4 GHz Bluetooth SDD + 8 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
97	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN SDD	Yes	Yes	N/A	Yes	
98	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
99	LTE + 2.4 GHz WLAN SDD + 5 GHz WLAN SDD	Yes	Yes	N/A	Yes	
100	LTE + 2.4 GHz WLAN SDD + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
101	LTE + 2.4 GHz WLAN SDD + 6 GHz WLAN SDD	Yes	Yes	N/A	Yes	
102	LTE + 2.4 GHz WLAN SDD + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
103	LTE + 2.4 GHz WLAN SDD + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
104	LTE + 2.4 GHz WLAN SDD + 8 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
105	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
106	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
107	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
108	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
109	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
110	LTE + 2.4 GHz Bluetooth SDD + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
111	LTE + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
112	LTE + 2.4 GHz Bluetooth MIMO + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
113	LTE + 2.4 GHz Bluetooth SDD + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
114	LTE + 2.4 GHz Bluetooth SDD + 8 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
115	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
116	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
117	LTE + 2.4 GHz WLAN SDD + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
118	LTE + 2.4 GHz WLAN SDD + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
119	LTE + 2.4 GHz WLAN SDD + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
120	LTE + 2.4 GHz WLAN SDD + 6 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
121	LTE + 2.4 GHz WLAN SDD + 8 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
122	LTE + 2.4 GHz WLAN SDD + 8 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
123	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
124	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
125	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
126	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
127	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
128	LTE + 2.4 GHz Bluetooth SDD + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
129	LTE + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
130	LTE + 2.4 GHz Bluetooth MIMO + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
131	LTE + 2.4 GHz Bluetooth SDD + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
132	LTE + 2.4 GHz Bluetooth SDD + 8 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
133	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
134	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
135	LTE + 2.4 GHz WLAN SDD + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
136	LTE + 2.4 GHz WLAN SDD + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
137	LTE + 2.4 GHz WLAN SDD + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
138	LTE + 2.4 GHz WLAN SDD + 6 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
139	LTE + 2.4 GHz WLAN SDD + 8 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
140	LTE + 2.4 GHz WLAN SDD + 8 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
141	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
142	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
143	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
144	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
145	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
146	LTE + 2.4 GHz Bluetooth SDD + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
147	LTE + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
148	LTE + 2.4 GHz Bluetooth MIMO + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
149	LTE + 2.4 GHz Bluetooth SDD + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
150	LTE + 2.4 GHz Bluetooth SDD + 8 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
151	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
152	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
153	LTE + 2.4 GHz WLAN SDD + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
154	LTE + 2.4 GHz WLAN SDD + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
155	LTE + 2.4 GHz WLAN SDD + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
156	LTE + 2.4 GHz WLAN SDD + 6 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
157	LTE + 2.4 GHz WLAN SDD + 8 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
158	LTE + 2.4 GHz WLAN SDD + 8 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
159	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
160	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
161	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
162	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
163	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 6 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
164	LTE + 2.4 GHz Bluetooth SDD + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
165	LTE + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
166	LTE + 2.4 GHz Bluetooth MIMO + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
167	LTE + 2.4 GHz Bluetooth SDD + 8 GHz WLAN SDD	Yes	Yes	N/A	Yes	
168	LTE + 2.4 GHz Bluetooth SDD + 8 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
169	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
170	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
171	LTE + 2.4 GHz WLAN SDD + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
172	LTE + 2.4 GHz WLAN SDD + 5 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
173	LTE + 2.4 GHz WLAN SDD + 6 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
174	LTE + 2.4 GHz WLAN SDD + 6 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
175	LTE + 2.4 GHz WLAN SDD + 8 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
176	LTE + 2.4 GHz WLAN SDD + 8 GHz WLAN MIMO	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
177	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
178	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN AUI + 5 GHz WLAN SDD	Yes*	Yes*	**N/A	Yes	* Bluetooth tethering is considered for Antenna G
179	LTE + 2.4 GHz Bluetooth AUI + 2.4 GHz WLAN A					

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1. SISO represents 2.4 GHz WLAN/BT transmission on Ant G or Ant I, and 5/6 GHz transmission on Ant G or Ant E.
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 bodyworn 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 U-NII-1 and U-NII-3 by S/W, therefore U-NII-2A, U-NII-2C, and U-NII-4 were not evaluated for wireless router conditions.
5. 6 GHz Wireless Router is only supported for VLP, therefore SP and LPI were not evaluated for wireless router conditions.
6. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax/be. 802.11a/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM.
7. This device supports VoWIFI.
8. This device supports Bluetooth Tethering on Ant G 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. WPT and NFC was evaluated for phablet based on expected usage conditions.

2.8 Miscellaneous SAR Test Considerations

(A) WIFI/BT

This device supports channel 1-13 for 2.4 GHz WLAN. However, because channel 12/13 targets are not higher than that of channels 1-11, channels 1, 6, and 11 were considered for SAR testing per FCC KDB 248227 D01V02r02.

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-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz SP/LPI, only 2.4 GHz WIFI, 2.4 GHz Bluetooth Ant G, U-NII-1 and U-NII-3 WIFI and 6 GHz VLP 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/be with the following features:

- a) Up to 320 MHz Bandwidth only for 6GHz
- b) Up to 160 MHz Bandwidth only for 5 GHz
- c) Up to 20 MHz Bandwidth only for 2.4 GHz
- d) 2 Tx antenna output
- e) Up to 4KQAM is supported
- f) TDWR and Band gap channels are supported for 5/6 GHz
- g) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D04, 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 2.4 GHz Bluetooth Antenna I, 2.4 GHz Bluetooth MIMO, U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz SP and LPI, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4

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GHz Bluetooth Antenna G, U-NII-1 and U-NII-3 WIFI and 6 GHz VLP WIFI operations since wireless router 1g SAR was < 1.2 W/kg.

Per April 2019 TCB Workshop Notes and FCC guidance, SAR testing for 802.11ax/be follows initial test configuration procedures of KDB 248227, with 802.11ax/be considered a higher order 802.11 mode.

Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors for WIFI 6GHz. FCC KDB 648474, FCC KDB 941225 D07 and FCC KDB 248227 were followed for test positions, distances, and modes. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements. Incident power density is evaluated at 2mm ensuring that the resolution is sufficient such that integrated power density (iPD) between d=2mm and d=λ/5mm is ≥ -1dB per equipment manufacturer guidance. Power density results are scaled up for uncertainty above 30%. Per TCB workshop October 2020 notes, 5 channels were tested for WIFI 6 GHz.

(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 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.

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

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configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 15).

This device can transmit with antenna switching for bands/modes on antenna A, B, E, and F. SAR tests were performed for each antenna where switching is used per band/mode to ensure compliance. Antennas and indicated band/modes are included in section 2.4 of this report.

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.

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 S.LSI guidance.

2.9 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 D04 (Phablet Procedures)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO)
- November 2017, April 2018, October 2018, October 2024 TCB Workshop Notes
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCBC Workshop Notes (6-8 GHz)
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEC/IEEE 63195-1:2022
- IEC 62479:2010

2.10 Device Serial Numbers

Several samples with identical hardware were used to support SAR and PD 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 SAR test are indicated alongside the results in Section 12 and for each PD test in Section 13.

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2.11 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report	1M2508270084-02.A3L
RF Exposure Part 1 Test Report	1M2508270084-01.A3L
RF Exposure Part 2 WWAN Test Report	1M2508270084-03.A3L
RF Exposure Part 2 WLAN Test Report	1M2508270084-04.A3L
RF Exposure Compliance Summary Report	1M2508270084-05.A3L

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3 LTE AND NR INFORMATION

LTE Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	LTE Band 12: 699.7 - 715.3 MHz				
	LTE Band 17: 706.5 - 713.5 MHz				
	LTE Band 13: 779.5 - 784.5 MHz				
	LTE Band 26: 814.7 - 848.3 MHz				
	LTE Band 5: 824.7 - 848.3 MHz				
	LTE Band 66: 1710.7 - 1779.3 MHz				
	LTE Band 4: 1710.7 - 1754.3 MHz				
	LTE Band 25: 1850.7 - 1914.3 MHz				
	LTE Band 2: 1850.7 - 1909.3 MHz				
	LTE Band 41: 2498.5 - 2687.5 MHz				
Channel Bandwidths	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz				
	LTE Band 5: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
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 17: 5 MHz	706.5 (23755)		710 (23790)		713.5 (23825)
LTE Band 17: 10 MHz	709 (23780)		710 (23790)		711 (23800)
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 26: 1.4 MHz	814.7 (26697)		831.5 (26865)		848.3 (27033)
LTE Band 26: 3 MHz	815.5 (26705)		831.5 (26865)		847.5 (27025)
LTE Band 26: 5 MHz	816.5 (26715)		831.5 (26865)		846.5 (27015)
LTE Band 26: 10 MHz	819 (26740)		831.5 (26865)		844 (26990)
LTE Band 26: 15 MHz	821.5 (26765)		831.5 (26865)		841.5 (26965)
LTE Band 5: 1.4 MHz	824.7 (20407)		836.5 (20525)		848.3 (20643)
LTE Band 5: 3 MHz	825.5 (20415)		836.5 (20525)		847.5 (20635)
LTE Band 5: 5 MHz	826.5 (20425)		836.5 (20525)		846.5 (20625)
LTE Band 5: 10 MHz	829 (20450)		836.5 (20525)		844 (20600)
LTE Band 66: 1.4 MHz	1710.7 (131979)		1745 (132322)		1779.3 (132665)
LTE Band 66: 3 MHz	1711.5 (131987)		1745 (132322)		1778.5 (132657)
LTE Band 66: 5 MHz	1712.5 (131997)		1745 (132322)		1777.5 (132647)
LTE Band 66: 10 MHz	1715 (132022)		1745 (132322)		1775 (132622)
LTE Band 66: 15 MHz	1717.5 (132047)		1745 (132322)		1772.5 (132597)
LTE Band 66: 20 MHz	1720 (132072)		1745 (132322)		1770 (132572)
LTE Band 4: 1.4 MHz	1710.7 (19957)		1732.5 (20175)		1754.3 (20393)
LTE Band 4: 3 MHz	1711.5 (19965)		1732.5 (20175)		1753.5 (20385)
LTE Band 4: 5 MHz	1712.5 (19975)		1732.5 (20175)		1752.5 (20375)
LTE Band 4: 10 MHz	1715 (20000)		1732.5 (20175)		1750 (20350)
LTE Band 4: 15 MHz	1717.5 (20025)		1732.5 (20175)		1747.5 (20325)
LTE Band 4: 20 MHz	1720 (20050)		1732.5 (20175)		1745 (20300)
LTE Band 25: 1.4 MHz	1850.7 (26047)		1882.5 (26365)		1914.3 (26683)
LTE Band 25: 3 MHz	1851.5 (26055)		1882.5 (26365)		1913.5 (26675)
LTE Band 25: 5 MHz	1852.5 (26065)		1882.5 (26365)		1912.5 (26665)
LTE Band 25: 10 MHz	1855 (26090)		1882.5 (26365)		1910 (26640)
LTE Band 25: 15 MHz	1857.5 (26115)		1882.5 (26365)		1907.5 (26615)
LTE Band 25: 20 MHz	1860 (26140)		1882.5 (26365)		1905 (26590)
LTE Band 2: 1.4 MHz	1850.7 (18607)		1880 (18900)		1909.3 (19193)
LTE Band 2: 3 MHz	1851.5 (18615)		1880 (18900)		1908.5 (19185)
LTE Band 2: 5 MHz	1852.5 (18625)		1880 (18900)		1907.5 (19175)
LTE Band 2: 10 MHz	1855 (18650)		1880 (18900)		1905 (19150)
LTE Band 2: 15 MHz	1857.5 (18675)		1880 (18900)		1902.5 (19125)
LTE Band 2: 20 MHz	1860 (18700)		1880 (18900)		1900 (19100)
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
UE Category	UL UE Cat 18, DL UE Cat 20				
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 features. 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, eCIC, eMBMS, Wifi Offloading, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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Form Factor		NR Information									
Frequency Range of each NR transmission band		Portable Handset									
		NR Band n12: 701.5 - 713.5 MHz									
		NR Band n26: 816.5 - 846.5 MHz									
		NR Band n5: 826.5 - 846.5 MHz									
		NR Band n66: 1712.5 - 1777.5 MHz									
		NR Band n25: 1852.5 - 1912.5 MHz									
		NR Band n2: 1852.5 - 1907.5 MHz									
		NR Band n41: 2501.01 - 2685 MHz									
Channel Bandwidths		NR Band n77: 3455.01 - 3544.98 MHz; 3705 - 3975 MHz									
		NR Band n12: 5 MHz; 10 MHz; 15 MHz									
		NR Band n26: 5 MHz; 10 MHz; 15 MHz; 20 MHz									
		NR Band n5: 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 n2: 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									
Channel Numbers and Frequencies (MHz)		NR Band n77: 10 MHz; 15 MHz; 20 MHz; 30 MHz; 40 MHz; 50 MHz; 60 MHz; 70 MHz; 80 MHz; 90 MHz; 100 MHz									
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 n26: 5 MHz		816.5 (163300)				831.5 (166300)				846.5 (169300)	
NR Band n26: 10 MHz		819 (163800)				831.5 (166300)				844 (168800)	
NR Band n26: 15 MHz		821.5 (164300)				831.5 (166300)				841.5 (168300)	
NR Band n26: 20 MHz		824 (164800)				831.5 (166300)				839 (167800)	
NR Band n5: 5 MHz		826.5 (165300)				836.5 (167300)				846.5 (169300)	
NR Band n5: 10 MHz		829 (165800)				836.5 (167300)				844 (168800)	
NR Band n5: 15 MHz		831.5 (166300)				836.5 (167300)				841.5 (168300)	
NR Band n5: 20 MHz		834 (166800)				836.5 (167300)				839 (167800)	
NR Band n66: 5 MHz		1712.5 (342500)				1745 (349000)				1777.5 (355500)	
NR Band n66: 10 MHz		1715 (343000)				1745 (349000)				1775 (355000)	
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 (382500)	
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)				1895 (379000)	
NR Band n2: 5 MHz		1852.5 (370500)				1880 (376000)				1907.5 (381500)	
NR Band n2: 10 MHz		1855 (371000)				1880 (376000)				1905 (381000)	
NR Band n2: 15 MHz		1857.5 (371500)				1880 (376000)				1902.5 (380500)	
NR Band n2: 20 MHz		1860 (372000)				1880 (376000)				1900 (380000)	
NR Band n2: 25 MHz		1862.5 (372500)				1880 (376000)				1897.5 (379500)	
NR Band n2: 30 MHz		1865 (373000)				1880 (376000)				1895 (379000)	
NR Band n2: 40 MHz		1870 (374000)				1880 (376000)				1890 (378000)	
NR Band n41: 10 MHz		2501.01 (500202)		2547 (509400)		2592.99 (518598)		2639.01 (527802)		2685 (537000)	
NR Band n41: 15 MHz		2503.5 (500700)		2548.26 (509652)		2592.99 (518598)		2637.75 (527550)		2682.51 (536502)	
NR Band n41: 20 MHz		2506.02 (501204)		2549.49 (509898)		2592.99 (518598)		2636.49 (527298)		2679.99 (535998)	
NR Band n41: 30 MHz		2511 (502200)		2552.01 (510402)		2592.99 (518598)		2634 (526800)		2674.98 (534998)	
NR Band n41: 40 MHz		2616.01 (523202)		2567.34 (513468)		(N/A)		2618.67 (523734)		2670 (534000)	
NR Band n41: 50 MHz		2521.02 (504204)				2592.99 (518598)				2664.99 (532998)	
NR Band n41: 60 MHz		2526 (505200)				2592.99 (518598)				2659.98 (531996)	
NR Band n41: 70 MHz		2531.01 (506202)				(N/A)				2655 (531000)	
NR Band n41: 80 MHz		2536.02 (507204)				(N/A)				2649.99 (529998)	
NR Band n41: 90 MHz		2541 (508200)				(N/A)				2644.98 (528996)	
NR Band n41: 100 MHz		2546.01 (509202)				2592.99 (518598)				2640 (528000)	
NR Band n77 DoD: 10 MHz		3455.01 (630334)				3500.01 (633334)				3544.98 (636332)	
NR Band n77 DoD: 15 MHz		3457.5 (630500)				3500.01 (633334)				3542.49 (636166)	
NR Band n77 DoD: 20 MHz		3460.02 (630668)				3500.01 (633334)				3540 (636000)	
NR Band n77 DoD: 30 MHz		3465 (631000)				3500.01 (633334)				3534.99 (635666)	
NR Band n77 DoD: 40 MHz		3470.01 (631334)				(N/A)				3529.98 (635332)	
NR Band n77 DoD: 50 MHz		3475.02 (631668)				(N/A)				3525 (635000)	
NR Band n77 DoD: 60 MHz		(N/A)				3500.01 (633334)				(N/A)	
NR Band n77 DoD: 70 MHz		(N/A)				3500.01 (633334)				(N/A)	
NR Band n77 DoD: 80 MHz		(N/A)				3500.01 (633334)				(N/A)	
NR Band n77 DoD: 90 MHz		(N/A)				3500.01 (633334)				(N/A)	
NR Band n77 DoD: 100 MHz		(N/A)				3500.01 (633334)				(N/A)	
NR Band n77: 10 MHz		3705 (647000)		3759 (650600)		(N/A)		3867 (657800)		3921 (661400)	
NR Band n77: 15 MHz		3707.52 (647168)		3760.5 (650700)		(N/A)		3866.49 (657766)		3919.5 (661300)	
NR Band n77: 20 MHz		3710.01 (647334)		3762 (650800)		(N/A)		3866.01 (657734)		3918 (661200)	
NR Band n77: 30 MHz		3715.02 (647668)		3765 (651000)		3815.01 (654334)		3864.99 (657666)		3915 (661000)	
NR Band n77: 40 MHz		3720 (648000)		3768 (651200)		3816 (654400)		3864 (657600)		3912 (660800)	
NR Band n77: 50 MHz		3725.01 (648334)		3782.49 (652166)		(N/A)		3840 (656000)		(N/A)	
NR Band n77: 60 MHz		3730.02 (648668)		3803.34 (653556)		(N/A)		(N/A)		(N/A)	
NR Band n77: 70 MHz		3735 (649000)		3804.99 (653666)		(N/A)		(N/A)		(N/A)	
NR Band n77: 80 MHz		3740.01 (649334)		(N/A)		3840 (656000)				(N/A)	
NR Band n77: 90 MHz		3745.02 (649668)		(N/A)		3840 (656000)				(N/A)	
NR Band n77: 100 MHz		3750 (650000)		(N/A)		(N/A)				(N/A)	
SCS for NR Band n12, n26, n5, n66, n25, n2		15 kHz									
SCS for NR Band n41, n77		30 kHz									
Modulations Supported in UL		DFT-s-OFDM: $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM									
A-MPR (Additional MPR) disabled for SAR Testing?		YES									
EN-DC and NR Carrier Aggregation Possible Combinations		The technical description includes all the possible carrier aggregation combinations									
LTE Anchor Bands for NR Band n12		N/A									
LTE Anchor Bands for NR Band n26		N/A									
LTE Anchor Bands for NR Band n5		2/4/66									
LTE Anchor Bands for NR Band n66		2/5/12/13									
LTE Anchor Bands for NR Band n25		12/13/66									
LTE Anchor Bands for NR Band n2		4/5/12/13/66									
LTE Anchor Bands for NR Band n41		2/4/5/12/25/26/66									
LTE Anchor Bands for NR Band n77		2/5/12/13/25/41/66									

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4 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.

4.1 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 4-1).

Equation 4-1
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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5 DOSIMETRIC ASSESSMENT

5.1 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 5-1) 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 5-1) 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 5-1. 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.

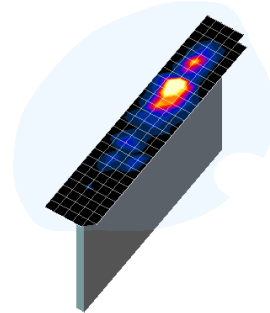


Figure 5-1
Sample SAR Area Scan

Table 5-1
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) ($\Delta x_{\text{zoomTV}}, \Delta y_{\text{zoom}}$)	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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6 DEFINITION OF REFERENCE POINTS

6.1 EAR REFERENCE POINT

Figure 6-2 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 6-1. 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 6-1). 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].

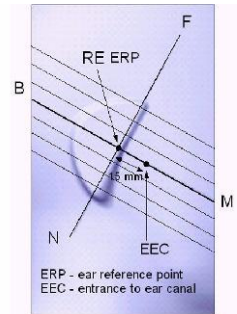


Figure 6-1
Close-Up Side view
of ERP

6.2 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 6-3). 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 6-2
Front, back and side view of SAM Twin Phantom

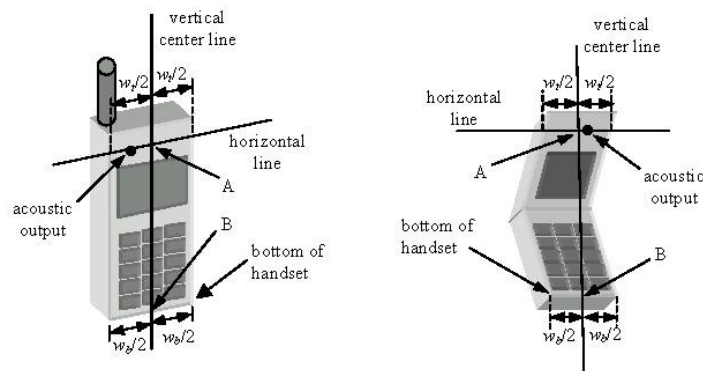


Figure 6-3
Handset Vertical Center & Horizontal Line Reference Points

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7 TEST CONFIGURATION POSITIONS

7.1 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 $\delta = 0.02$.

7.2 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 7-1), 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.

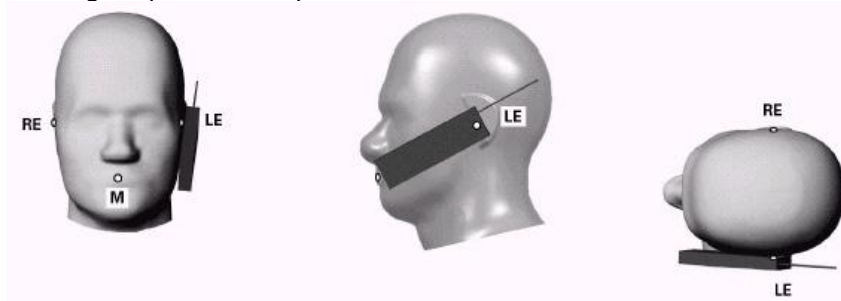


Figure 7-1 Front, Side and Top View of Cheek Position

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 7-2).

7.3 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 7-2).

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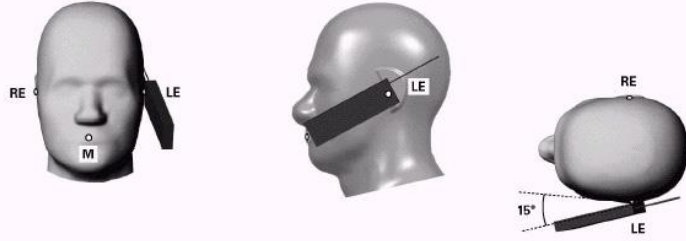


Figure 7-2 Front, Side and Top View of Ear/15° Tilt Position

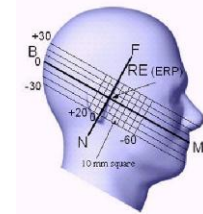


Figure 7-3 Side view w/ relevant markings

7.4 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.

7.5 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 7-4). 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.

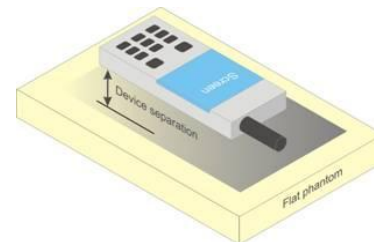


Figure 7-4 Sample Body-Worn Diagram

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.

7.6 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.

7.7 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.

7.8 Phablet Configurations

For smart phones with a display diagonal dimension > 150 mm or an overall diagonal dimension > 160 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 where the hotspot mode 1g SAR scaled up to the maximum allowed is greater than > 1.2 W/kg.

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8 RF EXPOSURE LIMITS

8.1 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.

8.2 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 8-1
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.

8.3 RF Exposure Limits for Frequencies above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m² or mW/cm².

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Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

Table 8-2
Human Exposure Limits Specified in FCC 47 CFR §1.1310

Human Exposure to Radiofrequency (RF) Radiation Limits		
Frequency Range [MHz]	Power Density [mW/cm ²]	Average Time [Minutes]
(A) Limits For Occupational / Controlled Environments		
1,500 – 100,000	5.0	6
(B) Limits For General Population / Uncontrolled Environments		
1,500 – 100,000	1.0	30

Note: 1.0 mW/cm² is 10 W/m²

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9 FCC MEASUREMENT PROCEDURES

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

9.1 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.

9.2 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.

9.3 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.

9.4 SAR Measurement Conditions for UMTS

9.4.1 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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9.4.2 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.

9.4.3 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.

9.4.4 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.

9.4.5 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.

9.4.6 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.

9.5 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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9.5.1 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.

9.5.2 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.

9.5.3 A-MPR

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

9.5.4 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.

9.5.5 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.

9.5.6 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.

9.6 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.

9.6.1 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.

9.6.2 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.

9.6.3 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.

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9.6.4 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 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.

9.6.5 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.

9.6.6 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.

9.6.7 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.

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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 802.11 mode is considered for SAR measurements (See Section 9.6.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.8 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.

9.6.9 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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10 RF CONDUCTED POWERS

All conducted power measurements for Sub6 WWAN technologies and bands in this section were performed with Time-Averaged SAR Peak exposure mode enabled such that the EUT transmitted continuously at the maximum time averaged transmit power limit (Plimit) or the maximum tune-up power (Pmax), whichever is lower.

10.1 GSM Conducted Powers

Table 10-1
Measured P_{max} for all RSI for GSM 850 Antenna A

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	31.35	31.33	29.18	26.43	25.17	26.48	24.58	23.31	21.82
	190	31.65	31.66	29.42	26.38	25.31	26.72	24.52	23.37	21.55
	251	31.66	31.53	29.46	26.36	25.13	26.58	24.54	23.21	21.51

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	22.15	22.13	22.99	22.00	21.99	17.28	18.39	18.88	18.64
	190	22.45	22.46	23.23	21.95	22.13	17.52	18.33	18.94	18.37
	251	22.46	22.33	23.27	21.93	21.95	17.38	18.35	18.78	18.33

GSM 850	Frame Avg. Targets:	22.80	22.80	22.81	22.77	22.82	17.80	18.81	19.07	18.82
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Table 10-2
Measured P_{limit} for Free Mode for GSM 850 Antenna E

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	28.48	28.74	25.47	23.37	22.36	25.90	23.91	22.95	21.55
	190	28.65	28.80	25.60	23.50	22.29	26.13	24.10	22.79	21.51
	251	28.55	28.94	25.31	23.19	22.14	25.96	24.11	22.66	21.39

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	19.28	19.54	19.28	18.94	19.18	16.70	17.72	18.52	18.37
	190	19.45	19.60	19.41	19.07	19.11	16.93	17.91	18.36	18.33
	251	19.35	19.74	19.12	18.76	18.96	16.76	17.92	18.23	18.21

GSM 850	Frame Avg.Targets:	18.80	18.80	18.81	18.57	18.82	16.80	17.81	18.07	17.82
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Table 10-3
Measured P_{limit} for RCV Active for GSM 850 Antenna E

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	26.65	26.85	24.21	22.03	20.65	25.90	23.91	22.95	21.55
	190	26.95	26.93	24.28	21.90	20.82	26.13	24.10	22.79	21.51
	251	26.63	26.87	23.91	21.88	20.56	25.96	24.11	22.66	21.39

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	17.45	17.65	18.02	17.60	17.47	16.70	17.72	18.52	18.37
	190	17.75	17.73	18.09	17.47	17.64	16.93	17.91	18.36	18.33
	251	17.43	17.67	17.72	17.45	17.38	16.76	17.92	18.23	18.21

GSM 850	Frame Avg.Targets:	18.30	18.30	18.31	18.27	18.32	16.80	17.81	18.07	17.82
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Table 10-4
Measured P_{max} for RCV Active for GSM 1900 Antenna A

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	30.86	30.90	27.93	26.02	25.08	25.44	23.87	22.86	21.62
	661	31.04	31.07	28.35	26.38	25.42	25.58	24.17	23.01	21.97
	810	31.05	31.12	28.34	26.35	25.17	25.67	24.08	23.00	21.78

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	21.66	21.70	21.74	21.59	21.90	16.24	17.68	18.43	18.44
	661	21.84	21.87	22.16	21.95	22.24	16.38	17.98	18.58	18.79
	810	21.85	21.92	22.15	21.92	21.99	16.47	17.89	18.57	18.60

GSM 1900	Frame Avg.Targets:	21.30	21.30	22.31	22.07	21.82	17.30	18.31	19.07	18.82
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Table 10-5
Measured P_{limit} for Free Mode for GSM 1900 Antenna A

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	25.44	25.43	22.63	21.00	19.50	24.91	23.10	21.18	20.06
	661	25.52	25.65	22.65	20.90	19.41	25.20	23.43	21.47	20.51
	810	25.88	25.84	22.81	21.10	19.45	25.34	23.34	21.45	20.57

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	16.24	16.23	16.44	16.57	16.32	15.71	16.91	16.75	16.88
	661	16.32	16.45	16.46	16.47	16.23	16.00	17.24	17.04	17.33
	810	16.68	16.64	16.62	16.67	16.27	16.14	17.15	17.02	17.39

GSM 1900	Frame Avg.Targets:	15.80	15.80	16.31	17.07	15.82	16.30	16.81	16.57	16.82
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Note:

1. 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.
2. 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.
3. 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.

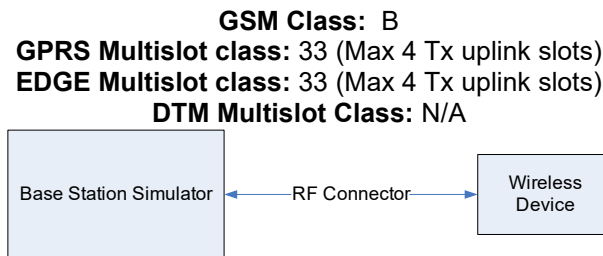


Figure 10-1
Power Measurement Setup

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10.2 UMTS Conducted Powers

Table 10-6
Measured P_{max} for RCV Active for UMTS 850, UMTS 1750, UMTS 1900 Antenna A

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]		
			4132	4183	4233	1312	1412	1513	9262	9400	9538
99	WCDMA	12.2 kbps RMC	24.10	24.32	24.39	22.70	22.53	22.86	22.86	23.55	22.98
99		12.2 kbps AMR	24.05	24.33	24.35	22.79	22.70	22.90	22.86	23.53	23.06
6	HSDPA	Subtest 1	23.20	23.43	23.49	22.94	22.77	22.98	23.10	23.41	23.21
6		Subtest 2	22.20	22.45	22.69	21.96	21.78	22.25	22.55	22.43	22.64
6		Subtest 3	21.15	21.38	21.62	20.95	20.76	21.17	21.47	21.36	21.55
6		Subtest 4	21.14	21.36	21.60	20.96	20.77	21.18	21.46	21.34	21.53
6	HSUPA	Subtest 1	22.10	22.24	22.51	21.88	21.70	22.19	22.43	22.34	22.54
6		Subtest 2	20.06	20.20	20.43	19.94	19.71	20.08	20.41	20.31	20.42
6		Subtest 3	21.13	21.27	21.45	20.94	20.72	21.14	21.46	21.31	21.50
6		Subtest 4	19.98	20.12	20.38	20.01	19.81	20.16	20.44	20.43	20.49
6		Subtest 5	23.08	23.20	23.47	22.85	22.67	22.91	23.10	23.21	23.20
8	DC-HSDPA	Subtest 1	23.27	23.49	23.37	22.94	22.77	22.95	23.10	23.45	23.21
8		Subtest 2	22.68	23.06	23.07	21.93	21.75	21.10	22.49	22.50	22.60
8		Subtest 3	21.74	22.08	22.07	20.91	20.72	21.04	21.41	21.46	21.50
8		Subtest 4	21.25	21.59	21.55	20.92	20.73	21.01	21.41	21.41	21.49

Table 10-7
Measured P_{limit} for Free and Hotspot Mode for UMTS 1750, UMTS 1900 Antenna A

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]		
			1312	1412	1513	9262	9400	9538
99	WCDMA	12.2 kbps RMC	16.51	16.40	16.63	16.69	16.70	16.81
99		12.2 kbps AMR	16.43	16.38	16.61	16.65	16.66	16.73
6	HSDPA	Subtest 1	15.56	15.49	15.61	16.28	16.29	16.36
6		Subtest 2	15.56	15.43	15.60	16.27	16.20	16.33
6		Subtest 3	15.59	15.50	15.72	16.26	16.20	16.31
6		Subtest 4	15.53	15.45	15.64	16.27	16.19	16.31
6	HSUPA	Subtest 1	15.46	15.39	15.49	15.27	15.21	15.34
6		Subtest 2	14.38	14.34	14.47	15.29	15.21	15.39
6		Subtest 3	14.39	14.33	14.46	15.25	15.17	15.32
6		Subtest 4	15.45	15.35	15.44	15.28	15.17	15.35
6		Subtest 5	15.45	15.35	15.50	15.95	15.98	16.07
8	DC-HSDPA	Subtest 1	15.63	15.70	15.81	16.50	16.49	16.52
8		Subtest 2	15.93	15.58	15.96	16.73	16.58	16.61
8		Subtest 3	15.72	15.85	15.67	16.93	16.62	16.62
8		Subtest 4	15.63	15.55	15.63	16.49	16.48	16.55

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Table 10-8
Measured P_{limit} for all RSI for UMTS 850 Antenna E

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]		
			4132	4183	4233
99	WCDMA	12.2 kbps RMC	18.72	19.03	19.12
99		12.2 kbps AMR	18.75	19.07	19.13
6	HSDPA	Subtest 1	17.61	18.13	18.62
6		Subtest 2	17.66	17.93	18.15
6		Subtest 3	17.75	17.91	18.13
6		Subtest 4	18.17	18.40	18.64
6	HSUPA	Subtest 1	17.41	17.72	17.80
6		Subtest 2	17.43	17.71	17.83
6		Subtest 3	17.42	17.72	17.84
6		Subtest 4	17.45	17.72	17.85
6		Subtest 5	17.43	17.72	17.83
8	DC-HSDPA	Subtest 1	17.76	17.97	17.87
8		Subtest 2	18.75	18.66	18.60
8		Subtest 3	18.55	18.43	17.92
8		Subtest 4	18.24	18.53	18.40

Table 10-9
Measured P_{limit} for all RSI for UMTS 1750 Antenna F

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]		
			1312	1412	1513
99	WCDMA	12.2 kbps RMC	18.24	18.29	18.48
99		12.2 kbps AMR	18.18	18.16	18.38
6	HSDPA	Subtest 1	16.72	16.74	17.29
6		Subtest 2	17.29	17.27	17.88
6		Subtest 3	17.32	17.33	17.90
6		Subtest 4	17.85	17.87	18.40
6	HSUPA	Subtest 1	16.00	16.01	16.41
6		Subtest 2	15.01	15.02	16.03
6		Subtest 3	15.42	15.53	16.04
6		Subtest 4	15.01	15.16	15.89
6		Subtest 5	17.02	17.08	17.49
8	DC-HSDPA	Subtest 1	16.83	17.14	17.36
8		Subtest 2	17.53	17.63	17.88
8		Subtest 3	17.52	17.71	17.88
8		Subtest 4	18.02	18.15	18.34

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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 10-2
Power Measurement Setup

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10.3 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.

10.3.1 LTE Band 12

Table 10-10
LTE Band 12 Ant A Measured P_{Max} for all RSI - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.91	0	0
	1	25	23.74		0
	1	49	23.79		0
	25	0	22.82	0-1	1
	25	12	22.78		1
	25	25	22.75		1
	50	0	22.80		1
16QAM	1	0	23.14	0-1	1
	1	25	23.17		1
	1	49	23.04		1
	25	0	21.87	0-2	2
	25	12	21.81		2
	25	25	21.83		2
	50	0	21.87		2
64QAM	1	0	22.14	0-2	2
	1	25	22.07		2
	1	49	22.06		2
	25	0	20.82	0-3	3
	25	12	20.76		3
	25	25	20.72		3
	50	0	20.79		3
256QAM	1	0	18.96	0-5	5
	1	25	18.77		5
	1	49	18.74		5
	25	0	18.71		5
	25	12	18.68		5
	25	25	18.65		5
	50	0	18.72		5

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Table 10-11
LTE Band 12 Ant E Measured P_{Limit} for all RSI- 10 MHz Bandwidth
LTE Band 12
10 MHz Bandwidth

Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.18	0	0
	1	25	19.98		0
	1	49	20.05		0
	25	0	20.18	0-1	0
	25	12	20.14		0
	25	25	20.11		0
	50	0	20.12		0
16QAM	1	0	20.22	0-1	0
	1	25	20.20		0
	1	49	20.21		0
	25	0	19.79	0-2	0
	25	12	19.78		0
	25	25	19.80		0
	50	0	19.70		0
64QAM	1	0	19.79	0-2	0
	1	25	19.74		0
	1	49	19.80		0
	25	0	19.99	0-3	0
	25	12	20.00		0
	25	25	20.01		0
	50	0	19.74		0
256QAM	1	0	19.66	0-5	0.5
	1	25	19.56		0.5
	1	49	19.65		0.5
	25	0	18.78		0.5
	25	12	18.78		0.5
	25	25	18.84		0.5
	50	0	18.75		0.5

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10.3.2 LTE Band 13

Table 10-12
LTE Band 13 Ant A Measured P_{Max} for all RSI - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.21	0	0
	1	25	24.07		0
	1	49	24.04		0
	25	0	22.61	0-1	1
	25	12	22.60		1
	25	25	22.58		1
	50	0	22.56		1
16QAM	1	0	22.90	0-1	1
	1	25	22.80		1
	1	49	22.76		1
	25	0	21.65	0-2	2
	25	12	21.61		2
	25	25	21.57		2
	50	0	21.55		2
64QAM	1	0	22.49	0-2	2
	1	25	22.45		2
	1	49	22.45		2
	25	0	21.51	0-3	3
	25	12	21.38		3
	25	25	21.34		3
	50	0	21.37		3
256QAM	1	0	19.13	0-5	5
	1	25	19.06		5
	1	49	18.96		5
	25	0	19.04		5
	25	12	18.99		5
	25	25	18.95		5
	50	0	18.93		5

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Table 10-13
LTE Band 13 Ant E Measured P_{Limit} for all RSI - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.27	0	0
	1	25	18.30		0
	1	49	18.25		0
	25	0	18.33	0-1	0
	25	12	18.26		0
	25	25	18.25		0
	50	0	18.28		0
16QAM	1	0	18.45	0-1	0
	1	25	18.49		0
	1	49	18.34		0
	25	0	18.32	0-2	0
	25	12	18.28		0
	25	25	18.32		0
	50	0	18.21		0
64QAM	1	0	18.41	0-2	0
	1	25	18.45		0
	1	49	18.30		0
	25	0	18.31	0-3	0
	25	12	18.31		0
	25	25	18.28		0
	50	0	18.30		0
256QAM	1	0	18.40	0-5	0
	1	25	18.35		0
	1	49	18.32		0
	25	0	18.36		0
	25	12	18.30		0
	25	25	18.27		0
	50	0	18.28		0

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10.3.3 LTE Band 26

Table 10-14
LTE Band 26 Ant A Measured P_{Max} for all RSI - 15 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.33	0	0
	1	36	23.25		0
	1	74	23.40		0
	36	0	22.27	0-1	1
	36	18	22.28		1
	36	37	22.34		1
	75	0	22.25		1
16QAM	1	0	22.38	0-1	1
	1	36	22.39		1
	1	74	22.60		1
	36	0	21.12	0-2	2
	36	18	21.20		2
	36	37	21.30		2
	75	0	21.22		2
64QAM	1	0	21.29	0-2	2
	1	36	21.36		2
	1	74	21.50		2
	36	0	20.08	0-3	3
	36	18	20.14		3
	36	37	20.28		3
	75	0	20.35		3
256QAM	1	0	18.20	0-5	5
	1	36	18.20		5
	1	74	18.28		5
	36	0	18.17		5
	36	18	18.18		5
	36	37	18.13		5
	75	0	18.08		5

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Table 10-15
LTE Band 26 Ant E Measured P_{Limit} for all RSI - 15 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.73	0	0
	1	36	18.60		0
	1	74	18.88		0
	36	0	18.88	0-1	0
	36	18	18.72		0
	36	37	18.72		0
	75	0	18.69		0
16QAM	1	0	18.93	0-1	0
	1	36	18.86		0
	1	74	18.99		0
	36	0	18.70	0-2	0
	36	18	18.67		0
	36	37	18.74		0
	75	0	18.67		0
64QAM	1	0	18.93	0-2	0
	1	36	18.87		0
	1	74	18.93		0
	36	0	18.71	0-3	0
	36	18	18.73		0
	36	37	18.76		0
	75	0	18.67		0
256QAM	1	0	18.26	0-5	0
	1	36	18.22		0
	1	74	18.44		0
	36	0	18.18		0
	36	18	18.20		0
	36	37	18.23		0
	75	0	18.16		0

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10.3.4 LTE Band 66

Table 10-16
LTE Band 66 Ant A Measured P_{Max} for RCV Active - 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.36	23.35	23.31	0	0
	1	50	23.31	23.33	23.14		0
	1	99	23.29	23.37	23.16		0
	50	0	22.38	22.42	22.23	0-1	1
	50	25	22.39	22.45	22.18		1
	50	50	22.31	22.48	22.13		1
	100	0	22.35	22.46	22.17		1
16QAM	1	0	22.65	22.52	22.55	0-1	1
	1	50	22.37	22.62	22.30		1
	1	99	22.50	22.68	22.46		1
	50	0	21.30	21.37	21.14	0-2	2
	50	25	21.27	21.41	21.04		2
	50	50	21.26	21.40	21.06		2
	100	0	21.30	21.42	21.13		2
64QAM	1	0	21.52	21.46	21.37	0-2	2
	1	50	21.46	21.49	21.27		2
	1	99	21.41	21.46	21.28		2
	50	0	20.32	20.38	20.16	0-3	3
	50	25	20.33	20.42	20.12		3
	50	50	20.28	20.39	20.07		3
	100	0	20.31	20.39	20.10		3
256QAM	1	0	18.30	18.29	18.20	0-5	5
	1	50	18.22	18.39	18.05		5
	1	99	18.28	18.33	18.13		5
	50	0	18.25	18.27	18.06		5
	50	25	18.22	18.30	18.03		5
	50	50	18.19	18.33	17.99		5
	100	0	18.20	18.34	18.03		5

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Table 10-17
LTE Band 66 Ant A Measured P_{Limit} for Free or Hotspot Active - 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.90	16.92	16.81	0	0
	1	50	16.92	17.09	16.69		0
	1	99	16.90	17.00	16.71		0
	50	0	16.99	17.06	16.80	0-1	0
	50	25	17.01	17.07	16.75		0
	50	50	16.95	17.14	16.75		0
	100	0	17.00	17.02	16.78		0
16QAM	1	0	17.26	17.28	17.11	0-1	0
	1	50	17.11	17.29	17.00		0
	1	99	17.18	17.32	16.99		0
	50	0	16.96	17.05	16.81	0-2	0
	50	25	16.99	17.05	16.76		0
	50	50	16.94	17.05	16.75		0
	100	0	17.01	17.06	16.78		0
64QAM	1	0	17.10	17.07	17.03	0-2	0
	1	50	17.18	17.16	16.93		0
	1	99	17.04	17.15	16.94		0
	50	0	16.98	17.02	16.85	0-3	0
	50	25	16.97	17.06	16.76		0
	50	50	16.93	17.11	16.79		0
	100	0	16.99	17.08	16.79		0
256QAM	1	0	16.90	16.87	16.83	0-5	0
	1	50	16.90	16.99	16.68		0
	1	99	16.81	16.92	16.72		0
	50	0	16.82	16.90	16.69		0
	50	25	16.86	16.89	16.61		0
	50	50	16.81	16.94	16.58		0
	100	0	16.81	16.93	16.63		0

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Table 10-18
LTE Band 66 Ant F Measured P_{Limit} for Free or Hotspot Active - 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.32	18.30	18.64	0	0
	1	50	18.33	18.45	18.52		0
	1	99	18.20	18.53	18.36		0
	50	0	18.40	18.42	18.55	0-1	0
	50	25	18.38	18.48	18.48		0
	50	50	18.31	18.52	18.41		0
	100	0	18.37	18.46	18.47		0
16QAM	1	0	18.56	18.42	18.72	0-1	0
	1	50	18.61	18.57	18.70		0
	1	99	18.47	18.66	18.61		0
	50	0	18.38	18.35	18.50	0-2	0
	50	25	18.35	18.44	18.46		0
	50	50	18.31	18.51	18.37		0
	100	0	18.36	18.46	18.47		0
64QAM	1	0	18.48	18.29	18.71	0-2	0
	1	50	18.50	18.56	18.71		0
	1	99	18.37	18.50	18.51		0
	50	0	18.41	18.34	18.52	0-3	0
	50	25	18.37	18.40	18.45		0
	50	50	18.30	18.51	18.36		0
	100	0	18.35	18.38	18.43		0
256QAM	1	0	17.69	17.74	18.01	0-5	0
	1	50	17.75	17.81	17.84		0
	1	99	17.63	17.82	17.74		0
	50	0	17.67	17.72	17.86		0
	50	25	17.62	17.80	17.80		0
	50	50	17.69	17.82	17.73		0
	100	0	17.67	17.77	17.77		0

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Table 10-19
LTE Band 66 Ant F Measured P_{Limit} for RCV Active - 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.18	15.85	16.02	0	0
	1	50	16.06	16.02	15.84		0
	1	99	16.08	16.24	15.88		0
	50	0	16.20	16.10	16.19	0-1	0
	50	25	16.16	16.16	16.21		0
	50	50	16.12	16.22	16.12		0
	100	0	16.16	16.16	16.20		0
16QAM	1	0	16.10	15.67	15.56	0-1	0
	1	50	16.11	15.67	15.58		0
	1	99	16.13	15.98	15.55		0
	50	0	15.99	16.01	15.67	0-2	0
	50	25	16.05	16.02	15.65		0
	50	50	15.94	15.98	15.61		0
	100	0	15.95	15.67	15.62		0
64QAM	1	0	15.96	15.61	15.57	0-2	0
	1	50	15.98	15.62	15.56		0
	1	99	16.02	15.63	15.54		0
	50	0	16.08	15.60	15.59	0-3	0
	50	25	16.01	15.61	15.61		0
	50	50	15.94	15.64	15.55		0
	100	0	15.67	15.57	15.58		0
256QAM	1	0	15.78	15.55	15.57	0-5	0
	1	50	15.66	15.68	15.57		0
	1	99	15.65	15.71	15.55		0
	50	0	15.71	15.67	15.53		0
	50	25	15.55	15.76	15.59		0
	50	50	15.62	15.67	15.58		0
	100	0	15.92	15.66	15.56		0

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10.3.5 LTE Band 25

Table 10-20
LTE Band 25 Ant A Measured P_{Max} for RCV Active - 20 MHz Bandwidth

LTE Band 25 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.49	22.70	22.66	0	0
	1	50	22.43	22.46	22.45		0
	1	99	22.66	22.56	22.49		0
	50	0	21.55	21.68	21.53	0-1	1
	50	25	21.57	21.60	21.57		1
	50	50	21.58	21.60	21.61		1
	100	0	21.51	21.58	21.59		1
16QAM	1	0	21.65	21.93	21.85	0-1	1
	1	50	21.59	21.65	21.74		1
	1	99	21.97	21.80	21.77		1
	50	0	20.45	20.60	20.51	0-2	2
	50	25	20.45	20.54	20.51		2
	50	50	20.52	20.58	20.57		2
	100	0	20.50	20.57	20.54		2
64QAM	1	0	20.51	20.88	20.79	0-2	2
	1	50	20.54	20.59	20.66		2
	1	99	20.82	20.73	20.62		2
	50	0	19.43	19.60	19.45	0-3	3
	50	25	19.42	19.50	19.52		3
	50	50	19.48	19.53	19.54		3
	100	0	19.39	19.50	19.53		3
256QAM	1	0	17.48	17.77	17.64	0-5	5
	1	50	17.42	17.61	17.56		5
	1	99	17.63	17.58	17.54		5
	50	0	17.46	17.65	17.46		5
	50	25	17.42	17.58	17.50		5
	50	50	17.49	17.58	17.54		5
	100	0	17.45	17.59	17.50		5

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Table 10-21
LTE Band 25 Ant A Measured P_{Limit} for Free or Hotspot Active - 20 MHz Bandwidth

LTE Band 25 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.28	16.45	16.35	0	0
	1	50	16.27	16.25	16.26		0
	1	99	16.41	16.35	16.29		0
	50	0	16.33	16.43	16.25	0-1	0
	50	25	16.29	16.34	16.34		0
	50	50	16.34	16.40	16.35		0
	100	0	16.31	16.38	16.30		0
16QAM	1	0	16.53	16.81	16.58	0-1	0
	1	50	16.60	16.60	16.59		0
	1	99	16.78	16.62	16.59		0
	50	0	16.31	16.45	16.27	0-2	0
	50	25	16.25	16.36	16.32		0
	50	50	16.35	16.36	16.33		0
	100	0	16.30	16.40	16.29		0
64QAM	1	0	16.45	16.71	16.50	0-2	0
	1	50	16.44	16.57	16.48		0
	1	99	16.38	16.54	16.42		0
	50	0	16.34	16.48	16.30	0-3	0
	50	25	16.25	16.37	16.34		0
	50	50	16.35	16.41	16.36		0
	100	0	16.29	16.42	16.32		0
256QAM	1	0	16.30	16.57	16.38	0-5	0
	1	50	16.23	16.31	16.27		0
	1	99	16.49	16.48	16.29		0
	50	0	16.27	16.42	16.22		0
	50	25	16.26	16.34	16.26		0
	50	50	16.33	16.36	16.32		0
	100	0	16.23	16.33	16.25		0

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Table 10-22
LTE Band 25 Ant F Measured P_{Limit} for Free or Hotspot Active- 20 MHz Bandwidth

LTE Band 25 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.49	19.48	19.64	0	0
	1	50	19.41	19.55	19.58		0
	1	99	19.51	19.85	19.54		0
	50	0	19.52	19.42	19.51	0-1	0
	50	25	19.57	19.50	19.50		0
	50	50	19.51	19.79	19.52		0
	100	0	19.54	19.58	19.57		0
16QAM	1	0	19.73	19.76	19.98	0-1	0
	1	50	19.63	19.73	19.97		0
	1	99	19.72	19.95	19.96		0
	50	0	19.52	19.39	19.58	0-2	0
	50	25	19.58	19.45	19.51		0
	50	50	19.50	19.50	19.59		0
	100	0	19.56	19.48	19.57		0
64QAM	1	0	19.70	19.47	19.59	0-2	0
	1	50	19.60	19.53	19.54		0
	1	99	19.73	19.62	19.49		0
	50	0	19.49	19.41	19.64	0-3	0
	50	25	19.55	19.49	19.59		0
	50	50	19.50	19.53	19.64		0
	100	0	19.52	19.48	19.59		0
256QAM	1	0	18.02	18.08	18.03	0-5	1
	1	50	17.96	18.06	18.03		1
	1	99	18.06	18.12	18.08		1
	50	0	17.90	17.98	18.07		1
	50	25	17.91	17.96	18.02		1
	50	50	17.86	18.00	18.10		1
	100	0	17.93	17.95	18.02		1

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Table 10-23
LTE Band 25 Ant F Measured P_{Limit} for RCV Active - 20 MHz Bandwidth

LTE Band 25 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.45	17.35	17.41	0	0
	1	50	17.44	17.34	17.41		0
	1	99	17.44	17.44	17.46		0
	50	0	17.43	17.28	17.44	0-1	0
	50	25	17.42	17.32	17.48		0
	50	50	17.41	17.31	17.43		0
	100	0	17.40	17.31	17.44		0
16QAM	1	0	16.80	16.83	16.93	0-1	0
	1	50	16.76	16.86	16.96		0
	1	99	16.80	16.85	16.99		0
	50	0	17.03	17.10	17.13	0-2	0
	50	25	17.05	17.13	17.13		0
	50	50	17.04	17.18	17.26		0
	100	0	16.90	16.74	16.98		0
64QAM	1	0	16.61	16.83	17.44	0-2	0
	1	50	16.69	16.75	17.45		0
	1	99	16.59	16.95	17.46		0
	50	0	16.89	16.89	16.84	0-3	0
	50	25	16.94	16.91	16.81		0
	50	50	16.89	17.01	16.95		0
	100	0	17.02	16.88	16.91		0
256QAM	1	0	17.32	16.61	16.84	0-5	0
	1	50	17.17	16.60	16.98		0
	1	99	17.33	16.74	16.89		0
	50	0	16.76	16.88	16.84		0
	50	25	16.75	16.90	16.89		0
	50	50	16.73	16.98	17.02		0
	100	0	16.91	16.90	16.88		0

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10.3.6 LTE Band 41

Table 10-24
LTE Band 41 PC3 Ant B Measured P_{Max} for RCV 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]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	23.30	23.41	23.53	23.46	23.58	0	0
	1	50	23.13	23.23	23.34	23.28	23.41		0
	1	99	23.22	23.30	23.36	23.41	23.53		0
	50	0	21.91	22.02	22.10	21.97	22.12	0-1	1
	50	25	21.84	21.95	22.08	21.96	22.15		1
	50	50	21.78	21.93	22.04	21.99	22.19		1
16QAM	100	0	21.86	21.96	22.09	21.97	22.15	0-1	1
	1	0	21.74	21.85	22.00	21.91	22.04		1
	1	50	21.66	21.72	21.84	21.79	21.93		1
	1	99	21.73	21.80	21.87	21.93	22.04	0-2	1
	50	0	20.87	20.96	21.08	20.99	21.11		2
	50	25	20.82	20.92	21.06	20.96	21.12		2
64QAM	50	50	20.78	20.90	21.03	20.98	21.14	0-2	2
	100	0	20.84	20.94	21.08	20.99	21.14		2
	1	0	20.56	20.58	20.73	20.63	20.75		0-2
	1	50	20.53	20.53	20.67	20.59	20.73	2	
	1	99	20.55	20.52	20.67	20.63	20.74	2	
	256QAM	50	0	19.90	20.00	20.11	20.03	20.14	0-3
50		25	19.85	19.96	20.09	20.01	20.16	3	
50		50	19.82	19.93	20.06	20.04	20.18	3	
100		0	19.81	19.92	20.05	19.95	20.12	0-5	3
1		0	18.20	18.28	18.44	18.32	18.46		5
1		50	18.12	18.22	18.37	18.26	18.44		5
1	99	18.10	18.21	18.29	18.31	18.45	5		
50	0	18.41	18.51	18.65	18.51	18.67	5		
50	25	18.38	18.47	18.61	18.50	18.70	5		
256QAM	50	50	18.34	18.46	18.58	18.54	18.72	5	
	100	0	18.34	18.43	18.57	18.47	18.66	5	

Table 10-25
LTE Band 41 PC2 Ant B Measured P_{Max} for RCV 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]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.54	24.89	24.94	24.56	24.65	0	0
	1	50	24.55	24.73	24.80	24.43	24.61		0
	1	99	24.68	24.73	24.69	24.45	24.64		0
	50	0	24.16	24.32	24.35	23.89	24.17	0-1	1
	50	25	24.11	24.28	24.33	23.87	24.22		1
	50	50	24.10	24.22	24.26	23.86	24.21		1
	100	0	24.13	24.29	24.34	23.89	24.22		1

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Table 10-26
LTE Band 41 PC3 Ant B Measured P_{Limit} for Free or Hotspot 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]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	19.35	19.67	19.74	19.34	19.47	0	0
	1	50	19.29	19.52	19.59	19.22	19.45		0
	1	99	19.45	19.51	19.47	19.25	19.50		0
	50	0	19.55	19.73	19.87	19.32	19.58	0-1	0
	50	25	19.49	19.69	19.73	19.29	19.63		0
	50	50	19.49	19.62	19.67	19.29	19.63		0
16QAM	100	0	19.51	19.69	19.70	19.31	19.63	0	
	1	0	19.35	19.64	19.68	19.31	19.44	0-1	0
	1	50	19.27	19.45	19.51	19.14	19.37		0
	1	99	19.47	19.51	19.47	19.24	19.50		0
	50	0	19.50	19.69	19.74	19.33	19.56	0-2	0
	50	25	19.48	19.67	19.72	19.31	19.60		0
50	50	19.48	19.61	19.66	19.30	19.61	0		
64QAM	100	0	19.51	19.68	19.74	19.34	19.63	0	
	1	0	19.08	19.35	19.39	19.01	19.15	0-2	0
	1	50	19.16	19.34	19.39	19.00	19.24		0
	1	99	19.14	19.20	19.15	18.91	19.19		0
	50	0	19.53	19.73	19.78	19.37	19.59	0-3	0
	50	25	19.52	19.71	19.77	19.37	19.64		0
50	50	19.54	19.66	19.70	19.35	19.64	0		
256QAM	100	0	19.49	19.66	19.73	19.33	19.61	0	
	1	0	17.95	18.17	18.21	17.80	17.97	0-5	1.5
	1	50	17.93	18.09	18.18	17.76	18.04		1.5
	1	99	17.96	18.01	17.98	17.72	18.01		1.5
	50	0	18.17	18.35	18.43	17.99	18.23		1.5
	50	25	18.17	18.33	18.41	17.98	18.27		1.5
50	50	18.18	18.28	18.34	17.97	18.27	1.5		
	100	0	18.12	18.28	18.36	17.94	18.18	1.5	

Table 10-27
LTE Band 41 PC2 Ant B Measured P_{Limit} for Free or Hotspot 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]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	21.46	21.77	21.81	21.44	21.54	0	0
	1	50	21.45	21.64	21.71	21.35	21.53		0
	1	99	21.59	21.62	21.56	21.34	21.56		0
	50	0	21.54	21.69	21.71	21.28	21.53	0-1	0
	50	25	21.48	21.66	21.69	21.25	21.58		0
	50	50	21.48	21.60	21.63	21.24	21.58		0
	100	0	21.50	21.66	21.70	21.27	21.59		0

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Table 10-28
LTE Band 41 PC3 Ant F Measured P_{Limit} for Free or Hotspot 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]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	18.58	18.47	18.44	18.26	18.31	0	0
	1	50	18.35	18.36	18.30	18.10	18.18		0
	1	99	18.40	18.43	18.31	18.21	18.22		0
	50	0	18.66	18.59	18.48	18.32	18.39		0
	50	25	18.58	18.57	18.47	18.29	18.41	0-1	0
	50	50	18.53	18.55	18.44	18.27	18.40		0
	100	0	18.57	18.56	18.46	18.29	18.41		0
16QAM	1	0	18.51	18.45	18.41	18.25	18.11	0-1	0
	1	50	18.33	18.31	18.27	18.08	18.14		0
	1	99	18.44	18.42	18.32	18.22	18.23		0
	50	0	18.61	18.57	18.47	18.29	18.36	0-2	0
	50	25	18.55	18.54	18.45	18.27	18.39		0
	50	50	18.51	18.53	18.44	17.97	18.37		0
	100	0	18.56	18.56	18.47	18.30	18.40		0
64QAM	1	0	18.22	18.16	18.12	17.95	18.00	0-2	0
	1	50	18.19	18.17	18.07	17.89	17.99		0
	1	99	18.09	18.11	18.00	17.89	17.91		0
	50	0	18.63	18.60	18.50	18.32	18.40	0-3	0
	50	25	18.58	18.58	18.49	18.31	18.43		0
	50	50	18.55	18.56	18.48	18.30	18.40		0
	100	0	18.54	18.54	18.46	18.27	18.39		0
256QAM	1	0	16.98	16.97	16.93	16.76	16.82	0-5	1
	1	50	16.91	16.96	16.87	16.68	16.80		1
	1	99	17.27	16.93	16.81	16.70	16.76		1
	50	0	17.22	17.21	17.13	16.94	17.02		1
	50	25	17.19	17.21	17.11	16.93	17.05		1
	50	50	17.18	17.19	17.10	16.92	17.02		1
	100	0	17.16	17.16	17.08	16.89	17.01		1

Table 10-29
LTE Band 41 PC2 Ant F Measured P_{Limit} for Free or Hotspot 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]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	19.96	19.91	19.94	19.95	20.01	0	0
	1	50	19.92	19.88	19.88	19.89	19.98		0
	1	99	19.82	20.19	19.73	19.74	19.89		0
	50	0	20.02	19.93	19.90	19.91	20.03	0-1	0
	50	25	19.97	20.04	19.85	19.86	20.03		0
	50	50	19.91	19.93	19.82	19.83	20.02		0
	100	0	19.98	20.00	19.86	19.86	19.99		0

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Table 10-30
LTE Band 41 PC3 Ant F Measured P_{Limit} for RCV 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]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.22	15.20	15.10	15.00	15.02	0	0
	1	50	15.15	15.18	15.04	14.90	14.96		0
	1	99	15.10	15.16	15.05	14.64	14.92		0
	50	0	15.31	15.15	15.15	15.03	15.03	0-1	0
	50	25	15.21	15.29	15.14	14.99	15.05		0
	50	50	15.20	15.26	15.14	14.98	15.03		0
	100	0	15.21	15.20	15.16	15.00	15.05		0
16QAM	1	0	14.89	15.23	15.13	15.00	15.00	0-1	0
	1	50	15.24	15.36	15.16	14.94	14.96		0
	1	99	14.99	15.17	15.07	14.95	14.93		0
	50	0	15.04	15.31	15.17	15.02	15.03	0-2	0
	50	25	14.95	15.29	15.16	15.00	15.05		0
	50	50	15.01	15.27	15.15	14.99	15.03		0
	100	0	15.04	15.32	15.18	15.03	15.08		0
64QAM	1	0	14.64	14.94	14.83	14.71	14.71	0-2	0
	1	50	14.58	15.00	14.90	14.74	14.78		0
	1	99	14.66	14.85	14.75	14.63	14.60		0
	50	0	15.06	15.36	15.20	15.07	15.07	0-3	0
	50	25	15.07	15.34	15.20	15.05	15.09		0
	50	50	15.06	15.31	15.20	15.03	15.07		0
	100	0	15.01	15.30	15.17	15.01	15.05		0
256QAM	1	0	14.83	15.12	15.03	14.89	14.88	0-5	0
	1	50	14.67	15.00	14.92	14.77	14.82		0
	1	99	14.84	15.03	14.94	14.82	14.79		0
	50	0	15.09	15.38	15.23	15.09	15.10		0
	50	25	15.07	15.35	15.22	15.07	15.12		0
	50	50	15.07	15.32	15.22	15.05	15.09		0
	100	0	15.02	15.31	15.18	15.03	15.08		0

Table 10-31
LTE Band 41 PC2 Ant F Measured P_{Limit} for RCV 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]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	16.87	17.07	16.95	16.82	16.80	0	0
	1	50	16.81	17.14	16.99	16.80	16.84		0
	1	99	16.80	16.97	16.85	16.74	16.70		0
	50	0	16.91	17.03	16.86	16.71	16.72	0-1	0
	50	25	16.75	17.02	16.87	16.70	16.74		0
	50	50	16.74	16.98	16.85	16.65	16.71		0
	100	0	16.75	17.01	16.86	16.70	16.75		0



Figure 10-3
Power Measurement Setup

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10.4 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.

10.4.1 NR Band n12

Table 10-32
NR Band n12 Ant A Measured P_{Max} for all RSI - 15 MHz Bandwidth
NR Band n12
15 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	141500 (707.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.36	0	0.0
	1	40	23.35		0.0
	1	77	23.27		0.0
	36	0	22.34	0-1	1.0
	36	22	23.35	0	0.0
	36	43	22.30	0-1	1.0
	75	0	22.34		1.0
DFT-s-OFDM 16QAM	1	1	22.34	0-1	1.0
CP-OFDM QPSK	1	1	21.93	0-1.5	1.5

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Table 10-33
NR Band n12 Ant E Measured P_{Limit} for Free or Hotspot Active - 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 QPSK	1	1	20.18	0	0.0
	1	40	20.20		0.0
	1	77	20.26		0.0
	36	0	20.18	0-1	0.0
	36	22	20.25	0	0.0
	36	43	20.23	0-1	0.0
	75	0	20.24		0.0
DFT-s-OFDM 16QAM	1	1	20.14	0-1	0.0
CP-OFDM QPSK	1	1	20.26	0-1.5	0.0

Table 10-34
NR Band n12 Ant E Measured P_{Limit} for RCV Active - 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 QPSK	1	1	18.19	0	0.0
	1	40	18.24		0.0
	1	77	18.35		0.0
	36	0	18.23	0-1	0.0
	36	22	18.30	0	0.0
	36	43	18.28	0-1	0.0
	75	0	18.28		0.0
DFT-s-OFDM 16QAM	1	1	18.16	0-1	0.0
CP-OFDM QPSK	1	1	18.21	0-1.5	0.0

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10.4.2 NR Band n26

Table 10-35
NR Band n26 Ant A Measured P_{Max} for all RSI - 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 QPSK	1	1	23.17	0	0.0
	1	53	23.35		0.0
	1	104	23.42		0.0
	50	0	22.15	0-1	1.0
	50	28	23.28	0	0.0
	50	56	22.35	0-1	1.0
	100	0	22.25		1.0
DFT-s-OFDM 16QAM	1	1	22.15	0-1	1.0
CP-OFDM QPSK	1	1	21.68	0-1.5	1.5

Table 10-36
NR Band n26 Ant E Measured P_{Limit} for Free or Hotspot Active - 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 QPSK	1	1	20.10	0	0.0
	1	53	20.20		0.0
	1	104	20.35		0.0
	50	0	20.11	0-1	0.0
	50	28	20.19	0	0.0
	50	56	20.28	0-1	0.0
	100	0	20.20		0.0
DFT-s-OFDM 16QAM	1	1	20.10	0-1	0.0
CP-OFDM QPSK	1	1	20.25	0-1.5	0.0

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Table 10-37
NR Band n26 Ant E Measured P_{Limit} for RCV Active - 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 QPSK	1	1	18.07	0	0.0
	1	53	18.38		0.0
	1	104	18.40		0.0
	50	0	18.06	0-1	0.0
	50	28	18.22	0	0.0
	50	56	18.30	0-1	0.0
	100	0	18.18		0.0
DFT-s-OFDM 16QAM	1	1	18.10	0-1	0.0
CP-OFDM QPSK	1	1	18.25	0-1.5	0.0

10.4.3 NR Band n66

Table 10-38
NR Band n66 Ant A Measured P_{Max} for RCV 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 QPSK	1	1	23.10	0	0.0
	1	108	23.35		0.0
	1	214	23.34		0.0
	108	0	22.13	0-1	1.0
	108	54	23.35	0	0.0
	108	108	22.34	0-1	1.0
	216	0	22.33		1.0
DFT-s-OFDM 16QAM	1	1	22.06	0-1	1.0
CP-OFDM QPSK	1	1	21.61	0-1.5	1.5

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Table 10-39
NR Band n66 Ant A Measured P_{Limit} for Free or Hotspot 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 QPSK	1	1	17.02	0	0.0
	1	108	17.27		0.0
	1	214	17.38		0.0
	108	0	17.12	0-1	0.0
	108	54	17.30	0	0.0
	108	108	17.47	0-1	0.0
	216	0	17.25		0.0
DFT-s-OFDM 16QAM	1	1	17.06	0-1	0.0
CP-OFDM QPSK	1	1	17.16	0-1.5	0.0

Table 10-40
NR Band n66 Ant F Measured P_{Limit} for Free or Hotspot 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 QPSK	1	1	18.68	0	0.0
	1	108	18.90		0.0
	1	214	18.92		0.0
	108	0	18.77	0-1	0.0
	108	54	18.93	0	0.0
	108	108	18.99	0-1	0.0
	216	0	18.90		0.0
DFT-s-OFDM 16QAM	1	1	18.73	0-1	0.0
CP-OFDM QPSK	1	1	18.82	0-1.5	0.0

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Table 10-41
NR Band n66 Ant F Measured P_{Limit} for RCV 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 QPSK	1	1	16.15	0	0.0
	1	108	16.42		0.0
	1	214	16.48		0.0
	108	0	16.28	0-1	0.0
	108	54	16.43	0	0.0
	108	108	16.49	0-1	0.0
	216	0	16.38		0.0
DFT-s-OFDM 16QAM	1	1	16.33	0-1	0.0
CP-OFDM QPSK	1	1	16.47	0-1.5	0.0

10.4.4 NR Band n25

Table 10-42
NR Band n25 Ant A Measured P_{Max} for RCV 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 QPSK	1	1	22.52	0	0.0
	1	108	22.65		0.0
	1	214	22.68		0.0
	108	0	21.55	0-1	1.0
	108	54	22.58	0	0.0
	108	108	21.59	0-1	1.0
	216	0	21.62		1.0
DFT-s-OFDM 16QAM	1	1	21.61	0-1	1.0
CP-OFDM QPSK	1	1	21.12	0-1.5	1.5

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Table 10-43
NR Band n25 Ant A Measured P_{Limit} for Free or Hotspot 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 QPSK	1	1	17.61	0	0.0
	1	108	17.67		0.0
	1	214	17.75		0.0
	108	0	17.59	0-1	0.0
	108	54	17.58	0	0.0
	108	108	17.57	0-1	0.0
	216	0	17.58		0.0
DFT-s-OFDM 16QAM	1	1	17.42	0-1	0.0
CP-OFDM QPSK	1	1	17.54	0-1.5	0.0

Table 10-44
NR Band n25 Ant F Measured P_{Limit} for Free or Hotspot 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 QPSK	1	1	18.43	0	0.0
	1	108	18.56		0.0
	1	214	18.44		0.0
	108	0	18.36	0-1	0.0
	108	54	18.38	0	0.0
	108	108	18.35	0-1	0.0
	216	0	18.37		0.0
DFT-s-OFDM 16QAM	1	1	18.41	0-1	0.0
CP-OFDM QPSK	1	1	18.56	0-1.5	0.0

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Table 10-45
NR Band n25 Ant F Measured P_{Limit} for RCV Active - 40 MHz Bandwidth
NR Band n25
40 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.41	0	0.0
	1	108	16.35		0.0
	1	214	16.44		0.0
	108	0	16.30	0-1	0.0
	108	54	16.30	0	0.0
	108	108	16.37	0-1	0.0
	216	0	16.29		0.0
DFT-s-OFDM 16QAM	1	1	16.33	0-1	0.0
CP-OFDM QPSK	1	1	16.40	0-1.5	0.0

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10.4.5 NR Band n41

Table 10-46
NR Band n41 Ant F Path 1 Measured P_{Limit} for Free or Hotspot 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 QPSK	1	1	17.85	0	0.0
	1	137	17.63		0.0
	1	271	17.55		0.0
	135	0	17.65	0-1	0.0
	135	69	17.62	0	0.0
	135	138	17.51	0-1	0.0
	270	0	17.64		0.0
DFT-s-OFDM 16QAM	1	1	17.60	0-1	0.0
CP-OFDM QPSK	1	1	17.52	0-1.5	0.0

Table 10-47
NR Band n41 Ant F Path 1 Measured P_{Limit} for RCV 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 QPSK	1	1	13.53	0	0.0
	1	137	13.63		0.0
	1	271	13.86		0.0
	135	0	13.61	0-1	0.0
	135	69	13.67	0	0.0
	135	138	13.55	0-1	0.0
	270	0	13.66		0.0
DFT-s-OFDM 16QAM	1	1	13.87	0-1	0.0
CP-OFDM QPSK	1	1	13.99	0-1.5	0.0

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Table 10-48
NR Band n41 Ant B, E, D Path 1 Measured P_{Limit} for Free or Hotspot Active - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #1 Ant B	17.50
SRS #2 Ant E	17.61
SRS #3 Ant D	17.83

Table 10-49
NR Band n41 Ant B, E, D Path 1 Measured P_{Limit} for RCV Active - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant B	13.49
SRS #3 Ant E	13.61
SRS #4 Ant D	13.83

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Table 10-50
NR Band n41 Ant B Path 2 Measured P_{Limit} for Free or Hotspot 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 QPSK	1	1	17.86	0	0.0
	1	137	17.63		0.0
	1	271	17.45		0.0
	135	0	17.67	0-1	0.0
	135	69	17.63	0	0.0
	135	138	17.43	0-1	0.0
	270	0	17.66		0.0
DFT-s-OFDM 16QAM	1	1	17.81	0-1	0.0
CP-OFDM QPSK	1	1	17.93	0-1.5	0.0

Table 10-51
NR Band n41 Ant B Path 2 Measured P_{Limit} for RCV 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 QPSK	1	1	13.79	0	0.0
	1	137	13.59		0.0
	1	271	13.40		0.0
	135	0	13.60	0-1	0.0
	135	69	13.64	0	0.0
	135	138	13.41	0-1	0.0
	270	0	13.62		0.0
DFT-s-OFDM 16QAM	1	1	13.81	0-1	0.0
CP-OFDM QPSK	1	1	13.96	0-1.5	0.0

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Table 10-52

NR Band n41 Ant F, D, E Path 2 Measured P_{Limit} for Free or Hotspot Active - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #1 Ant F	17.90
SRS #2 Ant D	17.82
SRS #3 Ant E	17.71

Table 10-53

NR Band n41 Ant F, D, E Path 2 Measured P_{Limit} for RCV Active - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #1 Ant F	13.97
SRS #2 Ant D	13.84
SRS #3 Ant E	13.65

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10.4.6 NR Band n77

Table 10-54
NR Band n77 Ant F Measured P_{Limit} for Free or Hotspot Active - 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 QPSK	1	1	16.32	15.29	0	0.0
	1	137	16.19	15.23		0.0
	1	271	15.35	15.16		0.0
	135	0	16.20	15.58	0-1	0.0
	135	69	16.33	15.25	0	0.0
	135	138	15.83	15.38	0-1	0.0
	270	0	16.29	15.32		0.0
DFT-s-OFDM 16QAM	1	1	16.28	15.19	0-1	0.0
CP-OFDM QPSK	1	1	16.29	15.18	0-1.5	0.0

Table 10-55
NR Band n77 DoD Ant F Measured P_{Limit} for Free or Hotspot Active - 100 MHz Bandwidth

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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 QPSK	1	1	16.10	0	0.0
	1	137	16.19		0.0
	1	271	16.27		0.0
	135	0	16.27	0-1	0.0
	135	69	16.24	0	0.0
	135	138	16.31	0-1	0.0
	270	0	16.22		0.0
DFT-s-OFDM 16QAM	1	1	16.04	0-1	0.0
CP-OFDM QPSK	1	1	16.17	0-1.5	0.0

Table 10-56
NR Band n77 Ant F Measured P_{Limit} for RCV Active - 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 QPSK	1	1	13.33	12.32	0	0.0
	1	137	13.29	12.19		0.0
	1	271	12.40	12.13		0.0
	135	0	13.39	12.60	0-1	0.0
	135	69	13.38	12.24	0	0.0
	135	138	12.99	12.42	0-1	0.0
	270	0	13.32	12.27		0.0
DFT-s-OFDM 16QAM	1	1	13.30	12.29	0-1	0.0
CP-OFDM QPSK	1	1	13.33	12.30	0-1.5	0.0

Table 10-57
NR Band n77 DoD Ant F Measured P_{Limit} for RCV Active - 100 MHz Bandwidth

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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 QPSK	1	1	13.15	0	0.0
	1	137	13.25		0.0
	1	271	13.54		0.0
	135	0	13.20	0-1	0.0
	135	69	13.38	0	0.0
	135	138	13.58	0-1	0.0
	270	0	13.28		0.0
DFT-s-OFDM 16QAM	1	1	13.21	0-1	0.0
CP-OFDM QPSK	1	1	13.45	0-1.5	0.0

Table 10-58
NR Band n77 Ant C, H, D Measured P_{Limit} for Free or Hotspot Active - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #1 Ant C	16.14	14.94
SRS #2 Ant H	16.10	14.84
SRS #3 Ant D	16.20	14.59

Table 10-59
NR Band n77 DoD Ant C, H, D Measured P_{Limit} for Free or Hotspot Active - 100 MHz Bandwidth

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NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #1 Ant C	14.93
SRS #2 Ant H	14.70
SRS #3 Ant D	15.80

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Table 10-60
NR Band n77 Ant C, H, D Measured P_{Limit} for RCV Active - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #1 Ant C	13.05	11.95
SRS #2 Ant H	13.14	11.80
SRS #3 Ant D	13.26	11.60

Table 10-61
NR Band n77 DoD Ant C, H, D Measured P_{Limit} for RCV Active - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #1 Ant C	12.01
SRS #2 Ant H	11.70
SRS #3 Ant D	12.78



Figure 10-4
Power Measurement Setup – NR FDD

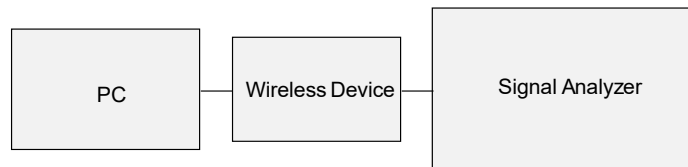


Figure 10-5
Power Measurement Setup – NR TDD

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10.5 WLAN Conducted Powers

Table 10-62

2.4 GHz WLAN P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant G

2.4GHz WIFI (20MHz 802.11b SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.79
2437	6		15.28
2462	11		15.25
2.4GHz WIFI (20MHz 802.11g SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.40
2417	2		14.95
2437	6		14.91
2457	10		14.95
2462	11		14.35
2.4GHz WIFI (20MHz 802.11n SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.56
2417	2		15.01
2437	6		14.83
2457	10		14.86
2462	11		14.65
2.4GHz WIFI (20MHz 802.11ac SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.51
2417	2		14.90
2437	6		14.94
2457	10		14.89
2462	11		14.70
2.4GHz WIFI (20MHz 802.11ax SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.77
2417	2		15.24
2437	6		15.53
2457	10		15.24
2462	11		15.35
2.4GHz WIFI (20MHz 802.11be SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.67
2417	2		15.20
2437	6		15.53
2457	10		15.29
2462	11		14.92

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Table 10-63

2.4 GHz WLAN P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant I

2.4GHz WIFI (20MHz 802.11b SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.52
2437	6		15.31
2462	11		15.11
2.4GHz WIFI (20MHz 802.11g SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.93
2417	2		15.25
2437	6		15.13
2457	10		15.06
2462	11		14.30
2.4GHz WIFI (20MHz 802.11n SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.79
2417	2		15.08
2437	6		15.05
2457	10		14.95
2462	11		14.14
2.4GHz WIFI (20MHz 802.11ac SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.85
2417	2		15.26
2437	6		15.24
2457	10		15.02
2462	11		14.28
2.4GHz WIFI (20MHz 802.11ax SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.73
2417	2		15.23
2437	6		15.16
2457	10		14.99
2462	11		14.65
2.4GHz WIFI (20MHz 802.11be SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.62
2417	2		15.22
2437	6		15.20
2457	10		15.04
2462	11		14.15

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Table 10-64

2.4 GHz WLAN P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – MIMO

2.4GHz WIFI (20MHz 802.11g MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	13.43	13.46	16.46
2417	2		14.01	14.35	17.19
2437	6		14.74	14.69	17.73
2457	10		14.15	14.55	17.36
2462	11		13.72	13.69	16.72
2.4GHz WIFI (20MHz 802.11n MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	13.16	13.44	16.31
2417	2		14.64	14.82	17.74
2437	6		14.61	14.97	17.80
2457	10		14.56	14.75	17.67
2462	11		14.63	13.93	17.30
2.4GHz WIFI (20MHz 802.11ac MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	13.12	13.32	16.23
2417	2		14.63	15.11	17.89
2437	6		14.64	15.03	17.85
2457	10		14.54	14.81	17.69
2462	11		14.62	14.04	17.35
2.4GHz WIFI (20MHz 802.11ax MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	13.77	13.73	16.76
2417	2		15.24	15.23	18.25
2437	6		15.53	15.16	18.36
2457	10		15.24	14.99	18.13
2462	11		15.35	14.65	18.02
2.4GHz WIFI (20MHz 802.11be MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	13.67	13.62	16.66
2417	2		15.20	15.22	18.22
2437	6		15.53	15.20	18.38
2457	10		15.29	15.04	18.18
2462	11		14.92	14.15	17.56

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Table 10-65
2.4 GHz WLAN P_{Limit} Average RF Power for DSI = 1 (Head) – Ant G

2.4GHz WIFI (20MHz 802.11b SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.89
2437	6		13.80
2462	11		13.21
2.4GHz WIFI (20MHz 802.11g SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.86
2437	6		12.97
2462	11		12.92
2.4GHz WIFI (20MHz 802.11n SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.85
2437	6		12.83
2462	11		12.94
2.4GHz WIFI (20MHz 802.11ac SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.08
2437	6		12.97
2462	11		12.96
2.4GHz WIFI (20MHz 802.11ax SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.88
2437	6		12.82
2462	11		12.90
2.4GHz WIFI (20MHz 802.11be SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.88
2437	6		12.89
2462	11		12.92

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Table 10-66
2.4 GHz WLAN P_{Limit} Average RF Power for DSI = 1 (Head) – Ant I

2.4GHz WIFI (20MHz 802.11b SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.77
2437	6		13.69
2462	11		13.10
2.4GHz WIFI (20MHz 802.11g SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.82
2437	6		12.88
2462	11		12.57
2.4GHz WIFI (20MHz 802.11n SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.76
2437	6		12.86
2462	11		12.35
2.4GHz WIFI (20MHz 802.11ac SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.94
2437	6		12.88
2462	11		12.43
2.4GHz WIFI (20MHz 802.11ax SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.85
2437	6		12.98
2462	11		12.34
2.4GHz WIFI (20MHz 802.11be SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.98
2437	6		12.97
2462	11		12.32

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Table 10-67

2.4 GHz WLAN P_{Limit} Average RF Power for DSI = 1 (Head) – MIMO

2.4GHz WIFI (20MHz 802.11g MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	12.42	12.26	15.35
2437	6		12.72	12.81	15.78
2462	11		12.19	12.60	15.41
2.4GHz WIFI (20MHz 802.11n MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	12.58	12.27	15.44
2437	6		12.51	12.86	15.70
2462	11		12.59	12.42	15.52
2.4GHz WIFI (20MHz 802.11ac MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	12.63	12.89	15.77
2437	6		12.58	12.97	15.79
2462	11		12.65	12.55	15.61
2.4GHz WIFI (20MHz 802.11ax MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	12.79	12.82	15.82
2437	6		12.76	12.95	15.87
2462	11		12.78	12.44	15.62
2.4GHz WIFI (20MHz 802.11be MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	12.78	12.92	15.86
2437	6		12.85	12.96	15.92
2462	11		12.88	12.34	15.63

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Table 10-68

5 GHz WLAN P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant G

5GHz WIFI (80MHz 802.11ac SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	11.04
UNII-2A	5290	58	11.53
UNII-2C	5530	106	11.26
	5610	122	11.72
	5690	138	11.87
UNII-3	5775	155	11.68
UNII-4	5855	171	11.70
5GHz WIFI (80MHz 802.11ax SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	11.36
UNII-2A	5290	58	12.06
UNII-2C	5530	106	11.94
	5610	122	12.43
	5690	138	12.48
UNII-3	5775	155	12.42
UNII-4	5855	171	12.26
5GHz WIFI (80MHz 802.11be SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	11.45
UNII-2A	5290	58	12.09
UNII-2C	5530	106	11.94
	5610	122	12.42
	5690	138	12.04
UNII-3	5775	155	12.49
UNII-4	5855	171	12.21

Table 10-69

5 GHz WLAN P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant E

5GHz WIFI (80MHz 802.11ac SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	10.97
UNII-2A	5290	58	11.10
UNII-2C	5530	106	10.74
	5610	122	10.57
	5690	138	10.98
UNII-3	5775	155	10.68
UNII-4	5855	171	10.87
5GHz WIFI (80MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	10.61
UNII-2A	5290	58	10.97
UNII-2C	5530	106	11.53
	5610	122	11.48
	5690	138	11.47
UNII-3	5775	155	11.63
UNII-4	5855	171	12.09
5GHz WIFI (80MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	10.62
UNII-2A	5290	58	11.01
UNII-2C	5530	106	11.55
	5610	122	11.49
	5690	138	11.50
UNII-3	5775	155	11.64
UNII-4	5855	171	12.09

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Table 10-70

5 GHz WLAN P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – MIMO

5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	10.99	10.91	13.96
UNII-2A	5290	58	11.48	11.00	14.26
UNII-2C	5530	106	11.18	10.63	13.92
	5610	122	11.70	10.51	14.16
	5690	138	10.75	10.91	13.84
UNII-3	5775	155	11.75	10.81	14.32
UNII-4	5855	171	11.59	10.77	14.21
5GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	10.54	11.64	14.14
UNII-2A	5290	58	10.95	11.04	14.01
UNII-2C	5530	106	11.40	11.51	14.47
	5610	122	12.06	11.52	14.81
	5690	138	11.98	11.55	14.78
UNII-3	5775	155	11.76	11.71	14.75
UNII-4	5855	171	11.69	12.10	14.91
5GHz WIFI (80MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	11.35	10.71	14.05
UNII-2A	5290	58	11.99	11.05	14.56
UNII-2C	5530	106	11.97	11.55	14.78
	5610	122	12.49	11.53	15.05
	5690	138	12.48	11.45	15.01
UNII-3	5775	155	12.27	11.73	15.02
UNII-4	5855	171	12.09	12.11	15.11

Table 10-71

5 GHz WLAN P_{Limit} Average RF Power for DSI = 1 (Head) – Ant G

5GHz WIFI (80MHz 802.11ac SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	10.78
UNII-2A	5290	58	11.14
UNII-2C	5530	106	11.04
	5610	122	11.52
	5690	138	11.59
UNII-3	5775	155	11.51
UNII-4	5855	171	11.58
5GHz WIFI (80MHz 802.11ax SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	10.85
UNII-2A	5290	58	11.17
UNII-2C	5530	106	11.03
	5610	122	11.58
	5690	138	11.85
UNII-3	5775	155	11.77
UNII-4	5855	171	11.46
5GHz WIFI (80MHz 802.11be SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	10.83
UNII-2A	5290	58	11.22
UNII-2C	5530	106	11.04
	5610	122	11.58
	5690	138	11.83
UNII-3	5775	155	11.76
UNII-4	5855	171	11.40

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Table 10-72
5 GHz WLAN P_{Limit} Average RF Power for DSI = 1 (Head) – Ant E

5GHz WIFI (80MHz 802.11ac SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	10.73
UNII-2A	5290	58	10.77
UNII-2C	5530	106	10.48
	5610	122	10.29
	5690	138	10.65
UNII-3	5775	155	10.43
UNII-4	5855	171	10.52
5GHz WIFI (80MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	10.44
UNII-2A	5290	58	10.57
UNII-2C	5530	106	10.83
	5610	122	10.85
	5690	138	10.72
UNII-3	5775	155	10.81
UNII-4	5855	171	10.67
5GHz WIFI (80MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	10.47
UNII-2A	5290	58	10.67
UNII-2C	5530	106	10.81
	5610	122	10.92
	5690	138	10.76
UNII-3	5775	155	10.83
UNII-4	5855	171	10.74

Table 10-73
5 GHz WLAN P_{Limit} Average RF Power for DSI = 1 (Head) – MIMO

5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	10.86	10.81	13.85
UNII-2A	5290	58	11.37	10.89	14.15
UNII-2C	5530	106	10.81	10.35	13.60
	5610	122	11.49	10.45	14.01
	5690	138	10.39	10.54	13.48
UNII-3	5775	155	11.46	10.69	14.10
UNII-4	5855	171	11.25	10.48	13.89
5GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	10.83	10.54	13.70
UNII-2A	5290	58	11.28	10.64	13.98
UNII-2C	5530	106	11.06	10.80	13.94
	5610	122	11.73	10.88	14.34
	5690	138	11.94	10.68	14.37
UNII-3	5775	155	11.57	10.70	14.17
UNII-4	5855	171	10.97	10.65	13.82
5GHz WIFI (80MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	10.78	10.59	13.70
UNII-2A	5290	58	11.13	10.59	13.88
UNII-2C	5530	106	10.95	10.83	13.90
	5610	122	11.50	10.95	14.24
	5690	138	11.72	10.73	14.26
UNII-3	5775	155	11.57	10.89	14.25
UNII-4	5855	171	10.96	10.70	13.84

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Table 10-74

6 GHz WLAN P_{Limit} Average RF Power for all DSI – Ant G

6GHz WIFI (160MHz 802.11ax SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	10.44
	6345	79	10.24
UNII-6	6505	111	9.54
UNII-7	6665	143	9.36
UNII-8	6985	207	9.75
6GHz WIFI (160MHz 802.11be SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	9.88
	6345	79	9.69
UNII-6	6505	111	10.17
UNII-7	6665	143	9.15
UNII-8	6985	207	9.10

Table 10-75

6 GHz WLAN P_{Limit} Average RF Power for all DSI – Ant E

6GHz WIFI (160MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	8.61
	6345	79	8.57
UNII-6	6505	111	8.95
UNII-7	6665	143	8.53
UNII-8	6985	207	8.67
6GHz WIFI (160MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	8.58
	6345	79	8.67
UNII-6	6505	111	8.92
UNII-7	6665	143	8.51
UNII-8	6985	207	8.80

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Table 10-76

6 GHz WLAN P_{Limit} Average RF Power for all DSI – MIMO

6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	6025	15	9.91	8.65	12.34
	6345	79	9.72	8.53	12.18
UNII-6	6505	111	9.29	8.96	12.14
UNII-7	6665	143	9.43	8.56	12.03
UNII-8	6985	207	9.77	8.78	12.31
6GHz WIFI (160MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	6025	15	9.88	9.17	12.55
	6345	79	9.67	8.51	12.14
UNII-6	6505	111	10.21	9.12	12.71
UNII-7	6665	143	9.48	8.66	12.10
UNII-8	6985	207	9.13	8.51	11.84

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.

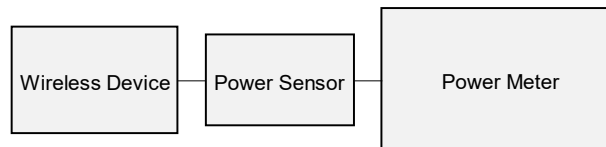


Figure 10-6
Power Measurement Setup

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10.6 Bluetooth Conducted Powers

Table 10-77
Bluetooth Measured Maximum Average RF Power – Ant G

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	15.40	34.674
2441	1.0	39	15.64	36.644
2480	1.0	78	15.95	39.355
2519	2.0	0	11.79	15.101
2558	2.0	39	13.03	20.091
2597	2.0	78	11.50	14.125
2753	3.0	0	11.79	15.101
2792	3.0	39	12.95	19.724
2831	3.0	78	11.55	14.289

Table 10-78
Bluetooth Measured Maximum Average RF Power – Ant I

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power		Target
			[dBm]	[mW]	
2402	1.0	0	15.84	38.371	15.0
2441	1.0	39	15.96	39.446	15.0
2480	1.0	78	15.36	34.356	15.0
2402	2.0	0	13.26	21.184	13.0
2441	2.0	39	12.79	19.011	13.0
2480	2.0	78	10.94	12.417	13.0
2402	3.0	0	13.30	21.380	13.0
2441	3.0	39	12.88	19.409	13.0
2480	3.0	78	11.08	12.823	13.0

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Table 10-79
Bluetooth Measured Maximum Average RF Power – MIMO

Frequency [MHz]	Data Rate [Mbps]	Channel No.	ANT G Avg Conducted Power		ANT I Avg Conducted Power		Dual Avg Conducted Power	
			[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1.0	0	12.22	16.672	11.73	14.894	14.99	31.566
2441	1.0	39	12.13	16.331	12.42	17.458	15.29	33.789
2480	1.0	78	12.01	15.885	11.83	15.241	14.93	31.126
2402	2.0	0	10.24	10.568	9.94	9.863	13.10	20.431
2441	2.0	39	10.73	11.830	10.20	10.471	13.48	22.302
2480	2.0	78	9.11	8.147	8.37	6.871	11.77	15.018
2402	3.0	0	9.98	9.954	9.67	9.268	12.84	19.222
2441	3.0	39	10.79	11.995	10.19	10.447	13.51	22.442
2480	3.0	78	9.18	8.279	8.58	7.211	11.90	15.490

Table 10-80
Bluetooth LE Measured Maximum Peak RF Power – Ant G

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	37	LE	16.67	46.452
2440	1 Mbps	17	LE	15.92	39.084
2480	1 Mbps	39	LE	16.16	41.305
2404	2 Mbps	0	LE	16.20	41.687
2440	2 Mbps	17	LE	15.57	36.058
2478	2 Mbps	36	LE	16.17	41.400

Table 10-81
Bluetooth LE Measured Maximum Peak RF Power – Ant I

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	37	LE	16.85	48.417
2440	1 Mbps	17	LE	15.67	36.898
2480	1 Mbps	39	LE	15.82	38.194
2404	2 Mbps	0	LE	16.96	49.659
2440	2 Mbps	17	LE	15.54	35.810
2478	2 Mbps	36	LE	15.89	38.815

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Table 10-82
Bluetooth LE Measured Maximum Peak RF Power – MIMO

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	ANT G Peak Conducted Power		ANT I Peak Conducted Power		Dual Peak Conducted Power	
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1 Mbps	37	LE	13.02	20.045	12.43	17.498	15.75	37.543
2440	1 Mbps	17	LE	13.21	20.941	13.26	21.184	16.25	42.125
2480	1 Mbps	39	LE	13.20	20.893	13.96	24.889	16.61	45.782
2404	2 Mbps	0	LE	12.93	19.634	12.18	16.520	15.58	36.153
2440	2 Mbps	17	LE	12.69	18.578	13.10	20.417	15.91	38.995
2478	2 Mbps	36	LE	13.13	20.559	13.99	25.061	16.59	45.620

Table 10-83
Bluetooth Measured Reduced Average RF Power when RCV Active – Ant G

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	12.15	16.406
2441	1.0	39	11.83	15.241
2480	1.0	78	12.23	16.711
2519	2.0	0	11.50	14.125
2558	2.0	39	11.40	13.804
2597	2.0	78	11.51	14.158
2753	3.0	0	11.49	14.093
2792	3.0	39	11.16	13.062
2831	3.0	78	11.30	13.490

Table 10-84
Bluetooth Measured Reduced Average RF Power when RCV Active – Ant I

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	12.26	16.827
2441	1.0	39	12.18	16.520
2480	1.0	78	11.78	15.066
2402	2.0	0	11.78	15.066
2441	2.0	39	11.90	15.488
2480	2.0	78	10.35	10.839
2402	3.0	0	11.77	15.031
2441	3.0	39	11.82	15.205
2480	3.0	78	9.93	9.840

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Table 10-85
Bluetooth Measured Reduced Average RF Power when RCV Active – MIMO

Frequency [MHz]	Data Rate [Mbps]	Channel No.	ANT G Avg Conducted Power		ANT I Avg Conducted Power		Dual Avg Conducted Power	
			[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1.0	0	9.78	9.506	10.93	12.388	13.40	21.894
2441	1.0	39	9.55	9.016	10.48	11.169	13.05	20.184
2480	1.0	78	9.70	9.333	10.10	10.233	12.91	19.565
2402	2.0	0	9.54	8.995	10.28	10.666	12.94	19.661
2441	2.0	39	8.86	7.691	9.59	9.099	12.25	16.790
2480	2.0	78	8.98	7.907	9.28	8.472	12.14	16.379
2402	3.0	0	9.53	8.974	10.28	10.666	12.93	19.640
2441	3.0	39	8.86	7.691	9.67	9.268	12.29	16.960
2480	3.0	78	8.99	7.925	9.25	8.414	12.13	16.339

Table 10-86
Bluetooth LE Measured Reduced Peak RF Power when RCV Active – Ant G

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	37	LE	13.49	22.336
2440	1 Mbps	17	LE	13.23	21.038
2480	1 Mbps	39	LE	13.61	22.961
2404	2 Mbps	0	LE	13.68	23.335
2440	2 Mbps	17	LE	13.33	21.528
2478	2 Mbps	36	LE	13.78	23.878

Table 10-87
Bluetooth LE Measured Reduced Peak RF Power when RCV Active – Ant I

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	37	LE	12.87	19.364
2440	1 Mbps	17	LE	13.49	22.336
2480	1 Mbps	39	LE	12.40	17.378
2404	2 Mbps	0	LE	12.96	19.770
2440	2 Mbps	17	LE	13.20	20.893
2478	2 Mbps	36	LE	12.41	17.418

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Table 10-88
Bluetooth LE Measured Reduced Peak RF Power when RCV Active – MIMO

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	ANT G Peak Conducted Power		ANT I Peak Conducted Power		Dual Peak Conducted Power	
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1 Mbps	37	LE	10.82	12.078	11.15	13.032	14.00	25.110
2440	1 Mbps	17	LE	10.90	12.303	10.88	12.246	13.90	24.549
2480	1 Mbps	39	LE	11.07	12.794	10.93	12.388	14.01	25.182
2404	2 Mbps	0	LE	11.18	13.122	11.15	13.032	14.18	26.154
2440	2 Mbps	17	LE	10.92	12.359	10.89	12.274	13.92	24.634
2478	2 Mbps	36	LE	11.08	12.823	10.99	12.560	14.05	25.384

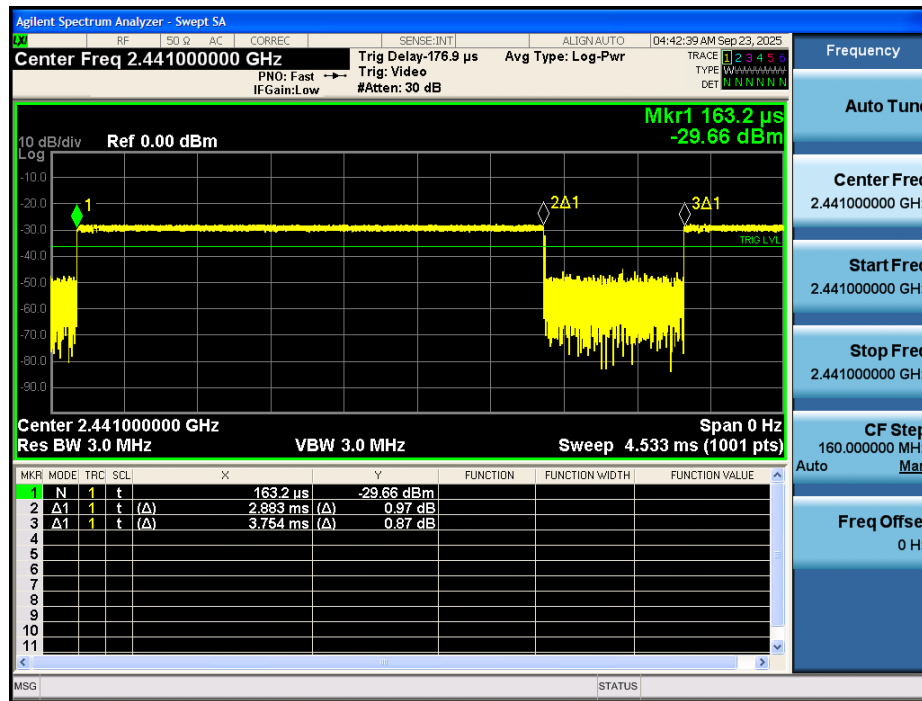


Figure 10-7
Bluetooth Antenna G Transmission Plot

Equation 10-1
Bluetooth Antenna G Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.883 \text{ ms}}{3.754 \text{ ms}} * 100\% = 76.80\%$$

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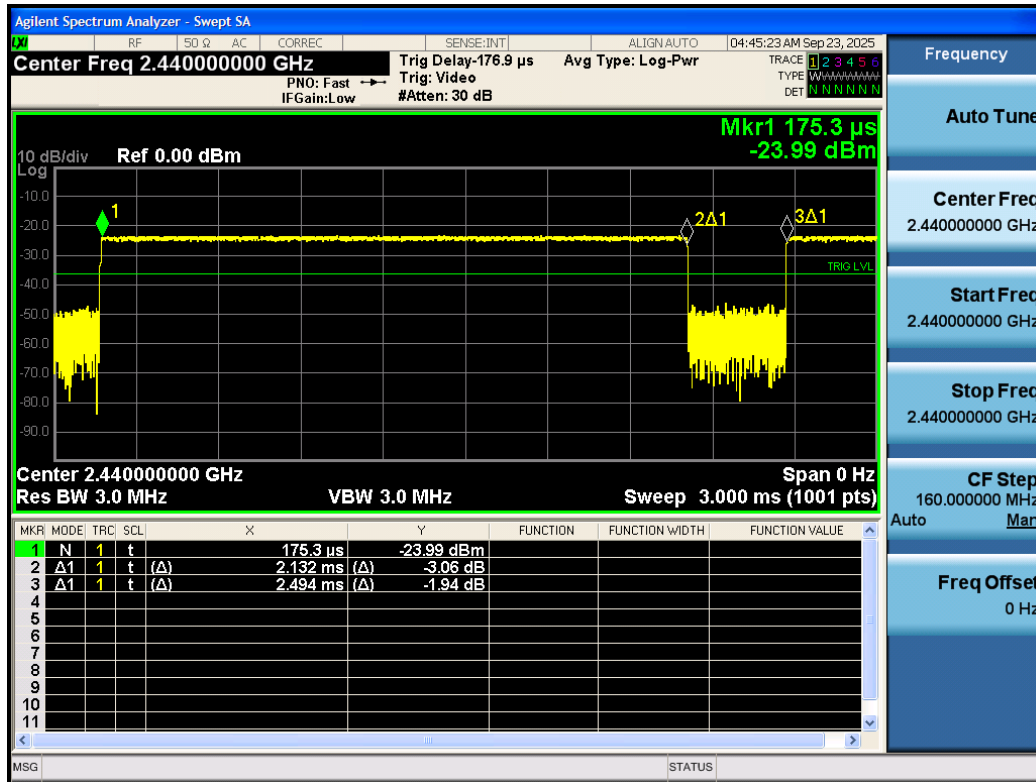


Figure 10-10
Bluetooth LE Antenna G Transmission Plot

Equation 10-4
Bluetooth LE Antenna G Duty Cycle Calculation

$$Duty Cycle = \frac{Pulse Width}{Period} * 100\% = \frac{2.132 ms}{2.494 ms} * 100\% = 85.49\%$$

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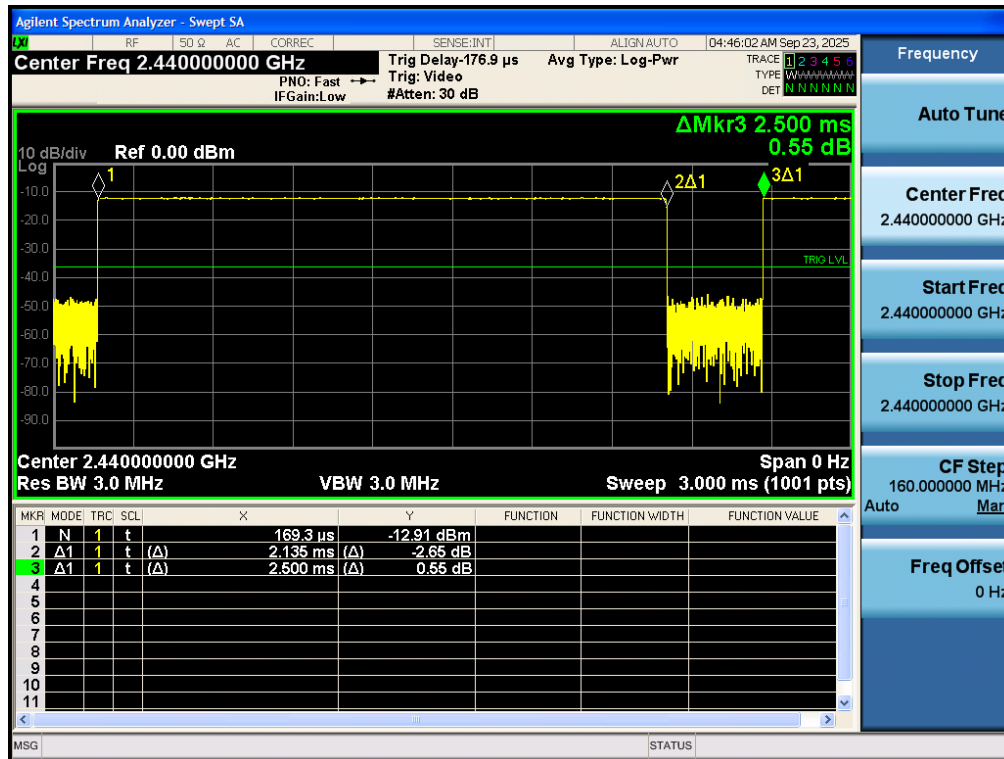


Figure 10-11
Bluetooth LE Antenna I Transmission Plot

Equation 10-5
Bluetooth LE Antenna I Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.135\ ms}{2.500\ ms} * 100\% = 85.40\%$$

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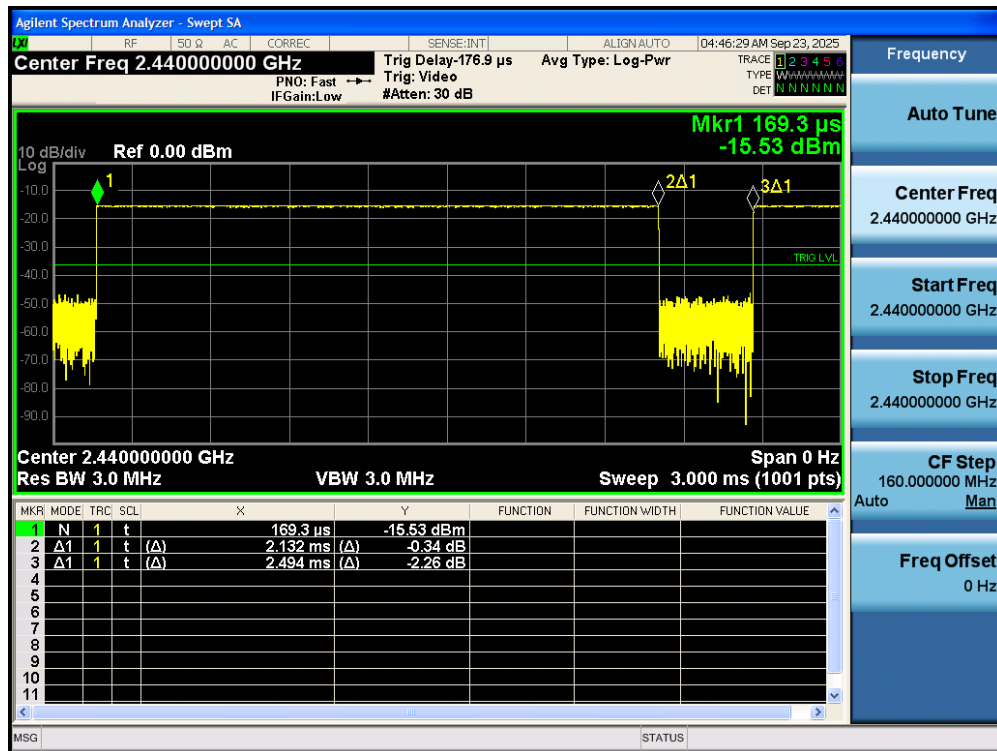


Figure 10-12
Bluetooth LE MIMO Transmission Plot

Equation 10-6
Bluetooth LE MIMO Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.132 \text{ ms}}{2.494 \text{ ms}} * 100\% = 85.49\%$$

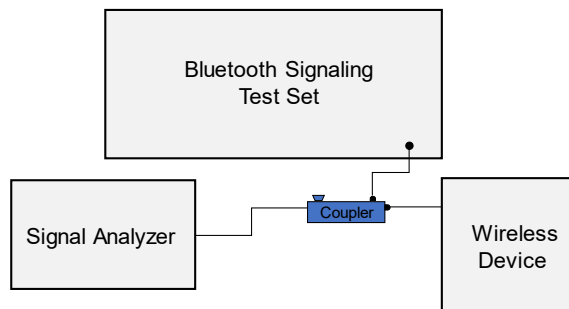


Figure 10-13
Power Measurement Setup

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11 SYSTEM VERIFICATION

11.1 Tissue Verification

Table 11-1
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
12/30/2025	30 Head	22.5	12	0.776	52.439	0.750	55.000	3.47%	-4.66%
			13	0.776	52.613	0.750	55.000	3.47%	-4.34%
			14	0.776	52.660	0.750	55.000	3.47%	-4.25%
09/11/2025	750 Head	20.4	680	0.847	40.728	0.888	42.305	-4.62%	-3.73%
			695	0.851	40.705	0.889	42.227	-4.27%	-3.60%
			700	0.853	40.696	0.889	42.201	-4.05%	-3.57%
			710	0.856	40.665	0.890	42.149	-3.82%	-3.52%
			725	0.861	40.619	0.891	42.071	-3.37%	-3.45%
			750	0.869	40.540	0.894	41.942	-2.80%	-3.34%
			770	0.875	40.488	0.895	41.838	-2.23%	-3.23%
			785	0.880	40.448	0.896	41.760	-1.79%	-3.14%
			800	0.886	40.403	0.897	41.682	-1.23%	-3.07%
			815	0.889	40.358	0.898	41.604	-0.77%	-3.00%
10/02/2025	750 Head	24.8	680	0.889	40.538	0.888	42.305	0.11%	-4.18%
			695	0.893	40.453	0.889	42.227	0.45%	-4.20%
			710	0.897	40.372	0.890	42.149	0.79%	-4.22%
			725	0.902	40.331	0.891	42.071	1.23%	-4.14%
			750	0.911	40.295	0.894	41.942	1.90%	-3.93%
			770	0.918	40.255	0.895	41.838	2.57%	-3.78%
			785	0.921	40.226	0.896	41.760	2.79%	-3.67%
12/08/2025	750 Head	24.1	800	0.926	40.159	0.897	41.682	3.23%	-3.65%
			815	0.864	40.572	0.888	42.305	-2.70%	-4.10%
			695	0.869	40.517	0.889	42.227	-2.25%	-4.05%
			710	0.873	40.468	0.890	42.149	-1.91%	-3.99%
			725	0.877	40.431	0.891	42.071	-1.57%	-3.90%
			750	0.885	40.402	0.894	41.942	-1.01%	-3.67%
			770	0.890	40.340	0.895	41.838	-0.56%	-3.58%
			785	0.895	40.275	0.896	41.760	-0.11%	-3.56%
			800	0.901	40.222	0.897	41.682	0.45%	-3.50%
			815	0.891	40.352	0.898	41.594	-0.78%	-2.99%
09/11/2025	835 Head	20.4	820	0.893	40.335	0.899	41.578	-0.67%	-2.99%
			835	0.898	40.295	0.900	41.500	-0.22%	-2.90%
			850	0.904	40.267	0.916	41.500	-1.31%	-2.97%
09/22/2025	835 Head	20.7	815	0.893	40.190	0.898	41.594	-0.56%	-3.38%
			820	0.895	40.175	0.899	41.578	-0.44%	-3.37%
			835	0.900	40.131	0.900	41.500	0.00%	-3.30%
10/02/2025	835 Head	24.8	850	0.905	40.084	0.916	41.500	-1.20%	-3.41%
			815	0.931	40.096	0.898	41.594	3.67%	-3.60%
			820	0.933	40.072	0.899	41.578	3.78%	-3.62%
			835	0.938	40.012	0.900	41.500	4.22%	-3.59%
10/09/2025	835 Head	24.5	850	0.944	39.980	0.916	41.500	3.06%	-3.66%
			815	0.861	41.716	0.898	41.594	-4.12%	0.29%
			820	0.863	41.697	0.899	41.578	-4.00%	0.29%
			835	0.867	41.649	0.900	41.500	-3.67%	0.36%
10/10/2025	835 Head	19.5	850	0.871	41.614	0.916	41.500	-4.91%	0.27%
			815	0.914	40.146	0.898	41.594	1.78%	-3.48%
			820	0.916	40.130	0.899	41.578	1.89%	-3.48%
			835	0.921	40.097	0.900	41.500	2.33%	-3.38%
10/27/2025	835 Head	23.3	850	0.926	40.060	0.916	41.500	1.09%	-3.47%
			815	0.909	39.934	0.898	41.594	1.22%	-3.99%
			820	0.911	39.928	0.899	41.578	1.33%	-3.97%
			835	0.915	39.918	0.900	41.500	1.67%	-3.81%
12/11/2025	835 Head	24.1	850	0.919	39.891	0.916	41.500	0.33%	-3.88%
			815	0.916	40.194	0.898	41.594	2.00%	-3.37%
			820	0.918	40.169	0.899	41.578	2.11%	-3.39%
			835	0.923	40.137	0.900	41.500	2.56%	-3.28%
01/05/2026	835 Head	23.0	850	0.928	40.115	0.916	41.500	1.31%	-3.34%
			815	0.903	41.152	0.898	41.594	0.56%	-1.06%
			820	0.904	41.131	0.899	41.578	0.56%	-1.08%
			835	0.910	41.068	0.900	41.500	1.11%	-1.04%
			850	0.914	41.026	0.916	41.500	-0.22%	-1.14%

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Table 11-2
Measured Head Tissue Properties (Cont.)

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
09/15/2025	1750 Head	20.5	1700	1.314	38.575	1.343	40.145	-2.16%	-3.91%
			1705	1.317	38.565	1.345	40.141	-2.08%	-3.93%
			1710	1.319	38.553	1.348	40.136	-2.15%	-3.94%
			1720	1.325	38.527	1.354	40.126	-2.14%	-3.98%
			1745	1.339	38.472	1.368	40.087	-2.12%	-4.03%
			1750	1.342	38.463	1.371	40.079	-2.12%	-4.03%
			1770	1.354	38.432	1.383	40.047	-2.10%	-4.03%
			1790	1.366	38.403	1.394	40.016	-2.01%	-4.03%
10/06/2025	1750 Head	19.0	1700	1.282	39.794	1.343	40.145	-4.54%	-0.87%
			1705	1.285	39.786	1.345	40.141	-4.46%	-0.88%
			1710	1.288	39.777	1.348	40.136	-4.45%	-0.89%
			1720	1.294	39.758	1.354	40.126	-4.43%	-0.92%
			1745	1.310	39.727	1.368	40.087	-4.24%	-0.90%
			1750	1.313	39.721	1.371	40.079	-4.23%	-0.89%
			1770	1.325	39.700	1.383	40.047	-4.19%	-0.87%
			1790	1.336	39.673	1.394	40.016	-4.16%	-0.86%
12/08/2025	1750 Head	20.3	1700	1.317	40.326	1.343	40.145	-1.94%	0.45%
			1705	1.321	40.318	1.345	40.141	-1.78%	0.44%
			1710	1.324	40.309	1.348	40.136	-1.78%	0.43%
			1720	1.330	40.290	1.354	40.126	-1.77%	0.41%
			1745	1.347	40.230	1.368	40.087	-1.54%	0.36%
			1750	1.350	40.220	1.371	40.079	-1.53%	0.35%
			1770	1.363	40.193	1.383	40.047	-1.45%	0.36%
			1790	1.376	40.165	1.394	40.016	-1.29%	0.37%
12/11/2025	1750 Head	19.2	1700	1.326	39.206	1.343	40.145	-1.27%	-2.34%
			1705	1.329	39.201	1.345	40.141	-1.19%	-2.34%
			1710	1.332	39.195	1.348	40.136	-1.19%	-2.34%
			1720	1.337	39.173	1.354	40.126	-1.26%	-2.38%
			1745	1.353	39.092	1.368	40.087	-1.10%	-2.48%
			1750	1.356	39.071	1.371	40.079	-1.09%	-2.52%
			1770	1.368	39.004	1.383	40.047	-1.08%	-2.60%
			1790	1.381	38.967	1.394	40.016	-0.93%	-2.62%
12/11/2025	1750 Head	20.0	1700	1.282	38.519	1.343	40.145	-4.54%	-4.05%
			1705	1.284	38.513	1.345	40.141	-4.54%	-4.06%
			1710	1.287	38.509	1.348	40.136	-4.53%	-4.05%
			1720	1.293	38.494	1.354	40.126	-4.51%	-4.07%
			1745	1.309	38.445	1.368	40.087	-4.31%	-4.10%
			1750	1.312	38.436	1.371	40.079	-4.30%	-4.10%
			1770	1.324	38.396	1.383	40.047	-4.27%	-4.12%
			1790	1.335	38.367	1.394	40.016	-4.23%	-4.12%
12/18/2025	1750 Head	19.2	1700	1.280	39.456	1.343	40.145	-4.69%	-1.72%
			1705	1.283	39.444	1.345	40.141	-4.61%	-1.74%
			1710	1.286	39.435	1.348	40.136	-4.60%	-1.75%
			1720	1.292	39.416	1.354	40.126	-4.58%	-1.77%
			1745	1.309	39.395	1.368	40.087	-4.31%	-1.73%
			1750	1.312	39.393	1.371	40.079	-4.30%	-1.71%
			1770	1.324	39.382	1.383	40.047	-4.27%	-1.66%
			1790	1.334	39.354	1.394	40.016	-4.30%	-1.65%
10/06/2025	1750 Head	19.0	1700	1.282	39.794	1.343	40.145	-4.54%	-0.87%
			1705	1.285	39.786	1.345	40.141	-4.46%	-0.88%
			1710	1.288	39.777	1.348	40.136	-4.45%	-0.89%
			1720	1.294	39.758	1.354	40.126	-4.43%	-0.92%
			1745	1.310	39.727	1.368	40.087	-4.24%	-0.90%
			1750	1.313	39.721	1.371	40.079	-4.23%	-0.89%
			1770	1.325	39.700	1.383	40.047	-4.19%	-0.87%
			1790	1.336	39.673	1.394	40.016	-4.16%	-0.86%
01/03/2026	1750 Head	22.0	1700	1.331	41.559	1.343	40.145	-0.89%	3.52%
			1705	1.334	41.553	1.345	40.141	-0.82%	3.52%
			1710	1.337	41.549	1.348	40.136	-0.82%	3.52%
			1720	1.343	41.536	1.354	40.126	-0.81%	3.51%
			1745	1.359	41.506	1.368	40.087	-0.66%	3.54%
			1750	1.362	41.495	1.371	40.079	-0.66%	3.53%
			1770	1.375	41.453	1.383	40.047	-0.58%	3.51%
			1790	1.387	41.425	1.394	40.016	-0.50%	3.52%
01/05/2026	1750 Head	21.5	1700	1.310	41.510	1.343	40.145	-2.46%	3.40%
			1705	1.313	41.502	1.345	40.141	-2.38%	3.39%
			1710	1.316	41.495	1.348	40.136	-2.37%	3.39%
			1720	1.323	41.478	1.354	40.126	-2.29%	3.37%
			1745	1.339	41.446	1.368	40.087	-2.12%	3.39%
			1750	1.343	41.439	1.371	40.079	-2.04%	3.39%
			1770	1.354	41.415	1.383	40.047	-2.10%	3.42%
			1790	1.364	41.378	1.394	40.016	-2.15%	3.40%

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**Table 11-3
Measured Head Tissue Properties (Cont.)**

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
09/11/2025	1900 Head	20.1	1850	1.409	40.351	1.400	40.000	0.64%	0.88%
			1860	1.416	40.337	1.400	40.000	1.14%	0.84%
			1880	1.429	40.307	1.400	40.000	2.07%	0.77%
			1900	1.441	40.279	1.400	40.000	2.93%	0.70%
			1905	1.444	40.271	1.400	40.000	3.14%	0.68%
			1910	1.447	40.263	1.400	40.000	3.36%	0.66%
			1920	1.453	40.246	1.400	40.000	3.79%	0.62%
09/17/2025	1900 Head	23.0	1850	1.370	40.485	1.400	40.000	-2.14%	1.21%
			1860	1.376	40.477	1.400	40.000	-1.71%	1.19%
			1880	1.387	40.454	1.400	40.000	-0.93%	1.14%
			1900	1.397	40.422	1.400	40.000	-0.21%	1.05%
			1905	1.399	40.414	1.400	40.000	-0.07%	1.04%
			1910	1.401	40.406	1.400	40.000	0.07%	1.02%
			1920	1.406	40.392	1.400	40.000	0.43%	0.98%
09/22/2025	1900 Head	20.4	1850	1.369	38.440	1.400	40.000	-2.21%	-3.90%
			1860	1.375	38.434	1.400	40.000	-1.79%	-3.92%
			1880	1.385	38.418	1.400	40.000	-1.07%	-3.96%
			1900	1.393	38.396	1.400	40.000	-0.50%	-4.01%
			1905	1.395	38.388	1.400	40.000	-0.36%	-4.03%
			1910	1.398	38.380	1.400	40.000	-0.14%	-4.05%
			1920	1.402	38.362	1.400	40.000	0.14%	-4.10%
10/02/2025	1900 Head	19.9	1850	1.376	39.011	1.400	40.000	-1.71%	-2.47%
			1860	1.382	38.996	1.400	40.000	-1.29%	-2.51%
			1880	1.395	38.969	1.400	40.000	-0.36%	-2.58%
			1900	1.406	38.946	1.400	40.000	0.43%	-2.64%
			1905	1.409	38.939	1.400	40.000	0.64%	-2.65%
			1910	1.412	38.933	1.400	40.000	0.86%	-2.67%
			1920	1.418	38.920	1.400	40.000	1.29%	-2.70%
10/06/2025	1900 Head	19.0	1850	1.375	39.562	1.400	40.000	-1.79%	-1.10%
			1860	1.382	39.548	1.400	40.000	-1.29%	-1.13%
			1880	1.395	39.519	1.400	40.000	-0.36%	-1.20%
			1900	1.406	39.491	1.400	40.000	0.43%	-1.27%
			1905	1.409	39.481	1.400	40.000	0.64%	-1.30%
			1910	1.411	39.473	1.400	40.000	0.79%	-1.32%
			1920	1.417	39.452	1.400	40.000	1.21%	-1.37%
10/20/2025	1900 Head	21.5	1850	1.364	39.986	1.400	40.000	-2.57%	-0.04%
			1860	1.370	39.967	1.400	40.000	-2.14%	-0.08%
			1880	1.381	39.934	1.400	40.000	-1.36%	-0.17%
			1900	1.393	39.911	1.400	40.000	-0.50%	-0.22%
			1905	1.395	39.907	1.400	40.000	-0.36%	-0.23%
			1910	1.398	39.904	1.400	40.000	-0.14%	-0.24%
			1920	1.403	39.897	1.400	40.000	0.21%	-0.26%
12/11/2025	1900 Head	19.2	1850	1.414	38.861	1.400	40.000	1.00%	-2.85%
			1860	1.419	38.830	1.400	40.000	1.36%	-2.93%
			1880	1.431	38.772	1.400	40.000	2.21%	-3.07%
			1900	1.443	38.737	1.400	40.000	3.07%	-3.16%
			1905	1.446	38.734	1.400	40.000	3.29%	-3.17%
			1910	1.450	38.731	1.400	40.000	3.57%	-3.17%
			1920	1.456	38.728	1.400	40.000	4.00%	-3.18%
12/15/2025	1900 Head	19.3	1850	1.378	39.191	1.400	40.000	-1.57%	-2.02%
			1860	1.387	39.188	1.400	40.000	-0.93%	-2.03%
			1880	1.402	39.173	1.400	40.000	0.14%	-2.07%
			1900	1.412	39.134	1.400	40.000	0.86%	-2.17%
			1905	1.414	39.120	1.400	40.000	1.00%	-2.20%
			1910	1.416	39.106	1.400	40.000	1.14%	-2.24%
			1920	1.421	39.091	1.400	40.000	1.50%	-2.28%
12/18/2025	1900 Head	19.2	1850	1.371	39.216	1.400	40.000	-2.07%	-1.96%
			1860	1.378	39.210	1.400	40.000	-1.57%	-1.98%
			1880	1.391	39.209	1.400	40.000	-0.64%	-1.98%
			1900	1.402	39.205	1.400	40.000	0.14%	-1.99%
			1905	1.404	39.198	1.400	40.000	0.29%	-2.01%
			1910	1.407	39.191	1.400	40.000	0.50%	-2.02%
			1920	1.412	39.167	1.400	40.000	0.86%	-2.08%
01/03/2026	1900 Head	22.0	1850	1.421	41.337	1.400	40.000	1.50%	3.34%
			1860	1.426	41.315	1.400	40.000	1.86%	3.29%
			1880	1.438	41.284	1.400	40.000	2.71%	3.21%
			1900	1.451	41.265	1.400	40.000	3.64%	3.16%
			1905	1.454	41.261	1.400	40.000	3.86%	3.15%
			1910	1.457	41.252	1.400	40.000	4.07%	3.13%
			1920	1.464	41.238	1.400	40.000	4.57%	3.10%
01/05/2026	1900 Head	21.5	1850	1.397	41.275	1.400	40.000	-0.21%	3.19%
			1860	1.403	41.270	1.400	40.000	0.21%	3.18%
			1880	1.415	41.260	1.400	40.000	1.07%	3.15%
			1900	1.425	41.235	1.400	40.000	1.79%	3.09%
			1905	1.428	41.227	1.400	40.000	2.00%	3.07%
			1910	1.431	41.220	1.400	40.000	2.21%	3.05%
			1920	1.437	41.203	1.400	40.000	2.64%	3.01%

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**Table 11-4
Measured Head Tissue Properties (Cont.)**

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
09/15/2025	2450 Head	20.0	2300	1.731	40.957	1.670	39.500	3.65%	3.69%
			2310	1.739	40.941	1.679	39.480	3.57%	3.70%
			2320	1.749	40.939	1.687	39.460	3.68%	3.75%
			2400	1.813	40.802	1.756	39.289	3.25%	3.85%
			2450	1.852	40.692	1.800	39.200	2.89%	3.81%
			2480	1.872	40.633	1.833	39.162	2.13%	3.76%
			2500	1.885	40.596	1.855	39.136	1.62%	3.73%
			2510	1.891	40.579	1.866	39.123	1.34%	3.72%
			2535	1.912	40.527	1.893	39.092	1.00%	3.67%
			2550	1.924	40.510	1.909	39.073	0.79%	3.68%
			2560	1.934	40.486	1.920	39.060	0.73%	3.65%
			2600	1.964	40.427	1.964	39.009	0.00%	3.64%
			2650	2.006	40.358	2.018	38.945	-0.59%	3.63%
			2680	2.033	40.314	2.051	38.907	-0.88%	3.62%
			2700	2.051	40.302	2.073	38.882	-1.06%	3.65%
09/22/2025	2450 Head	19.8	2300	1.652	39.486	1.670	39.500	-1.06%	-0.04%
			2310	1.660	39.473	1.679	39.480	-1.13%	-0.02%
			2320	1.667	39.461	1.687	39.460	-1.19%	0.00%
			2400	1.727	39.368	1.756	39.289	-1.65%	0.20%
			2450	1.768	39.281	1.800	39.200	-1.78%	0.21%
			2480	1.793	39.241	1.833	39.162	-2.16%	0.20%
			2500	1.807	39.215	1.855	39.136	-2.59%	0.20%
			2510	1.814	39.195	1.866	39.123	-2.79%	0.18%
			2535	1.834	39.140	1.893	39.092	-3.12%	0.12%
			2550	1.847	39.109	1.909	39.073	-3.25%	0.09%
			2560	1.856	39.087	1.920	39.060	-3.33%	0.07%
			2600	1.889	39.045	1.964	39.009	-3.82%	0.09%
			2650	1.927	38.925	2.018	38.945	-4.51%	-0.05%
			2680	1.954	38.870	2.051	38.907	-4.73%	-0.10%
			2700	1.971	38.864	2.073	38.882	-4.92%	-0.05%
10/08/2025	2450 Head	19.7	2300	1.697	39.839	1.670	39.500	1.62%	0.86%
			2310	1.704	39.819	1.679	39.480	1.49%	0.86%
			2320	1.713	39.807	1.687	39.460	1.54%	0.88%
			2400	1.772	39.709	1.756	39.289	0.91%	1.07%
			2450	1.809	39.646	1.800	39.200	0.50%	1.14%
			2480	1.832	39.578	1.833	39.162	-0.05%	1.06%
			2500	1.850	39.554	1.855	39.136	-0.27%	1.07%
			2510	1.858	39.553	1.866	39.123	-0.43%	1.10%
			2535	1.878	39.518	1.893	39.092	-0.79%	1.09%
			2550	1.889	39.487	1.909	39.073	-1.05%	1.06%
			2560	1.898	39.454	1.920	39.060	-1.15%	1.01%
			2600	1.934	39.439	1.964	39.009	-1.53%	1.10%
			2650	1.978	39.308	2.018	38.945	-1.99%	0.93%
			2680	2.005	39.254	2.051	38.907	-2.24%	0.89%
			2700	2.021	39.234	2.073	38.882	-2.51%	0.91%
10/22/2025	2450 Head	20.7	2300	1.685	41.114	1.670	39.500	0.90%	4.09%
			2310	1.692	41.095	1.679	39.480	0.77%	4.09%
			2320	1.700	41.084	1.687	39.460	0.77%	4.12%
			2400	1.756	41.031	1.756	39.289	0.00%	4.43%
			2450	1.795	40.924	1.800	39.200	-0.28%	4.40%
			2480	1.817	40.912	1.833	39.162	-0.87%	4.47%
			2500	1.834	40.875	1.855	39.136	-1.13%	4.44%
			2510	1.842	40.863	1.866	39.123	-1.29%	4.45%
			2535	1.863	40.820	1.893	39.092	-1.58%	4.42%
			2550	1.875	40.798	1.909	39.073	-1.78%	4.41%
			2560	1.882	40.772	1.920	39.060	-1.98%	4.38%
			2600	1.916	40.745	1.964	39.009	-2.44%	4.45%
			2650	1.960	40.629	2.018	38.945	-2.87%	4.32%
			2680	1.985	40.568	2.051	38.907	-3.22%	4.27%
			2700	2.002	40.542	2.073	38.882	-3.42%	4.27%
10/30/2025	2450 Head	20.8	2300	1.713	40.031	1.670	39.500	2.57%	1.34%
			2310	1.722	40.013	1.679	39.480	2.56%	1.35%
			2320	1.730	39.998	1.687	39.460	2.55%	1.36%
			2400	1.797	39.857	1.756	39.289	2.33%	1.45%
			2450	1.837	39.766	1.800	39.200	2.06%	1.44%
			2480	1.863	39.699	1.833	39.162	1.64%	1.37%
			2500	1.879	39.675	1.855	39.136	1.29%	1.38%
			2510	1.886	39.654	1.866	39.123	1.07%	1.36%
			2535	1.905	39.584	1.893	39.092	0.63%	1.26%
			2550	1.919	39.540	1.909	39.073	0.52%	1.20%
			2560	1.928	39.522	1.920	39.060	0.42%	1.18%
			2600	1.959	39.473	1.964	39.009	-0.25%	1.19%
			2650	2.001	39.348	2.018	38.945	-0.84%	1.03%
			2680	2.022	39.303	2.051	38.907	-1.41%	1.02%
			2700	2.037	39.254	2.073	38.882	-1.74%	0.96%

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Table 11-5
Measured Head Tissue Properties (Cont.)

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
12/11/2025	2450 Head	24.4	2300	1.649	39.196	1.670	39.500	-1.26%	-0.77%
			2310	1.655	39.183	1.679	39.480	-1.43%	-0.75%
			2320	1.661	39.166	1.687	39.460	-1.54%	-0.75%
			2400	1.717	39.070	1.756	39.289	-2.22%	-0.56%
			2450	1.756	38.985	1.800	39.200	-2.44%	-0.55%
			2480	1.775	38.940	1.833	39.162	-3.16%	-0.57%
			2500	1.788	38.914	1.855	39.136	-3.61%	-0.57%
			2510	1.795	38.903	1.866	39.123	-3.80%	-0.56%
			2535	1.813	38.877	1.893	39.092	-4.23%	-0.55%
			2550	1.822	38.853	1.909	39.073	-4.56%	-0.56%
			2560	1.829	38.829	1.920	39.060	-4.74%	-0.59%
			2300	1.710	37.774	1.670	39.500	2.40%	-4.37%
			2310	1.717	37.757	1.679	39.480	2.26%	-4.36%
			2320	1.725	37.741	1.687	39.460	2.25%	-4.36%
12/14/2025	2450 Head	21.3	2400	1.787	37.636	1.756	39.289	1.77%	-4.21%
			2450	1.828	37.566	1.800	39.200	1.56%	-4.17%
			2480	1.853	37.507	1.833	39.162	1.09%	-4.23%
			2500	1.870	37.475	1.855	39.136	0.81%	-4.24%
			2510	1.879	37.458	1.866	39.123	0.70%	-4.26%
			2535	1.898	37.409	1.893	39.092	0.26%	-4.31%
			2550	1.910	37.377	1.909	39.073	0.05%	-4.34%
			2560	1.919	37.357	1.920	39.060	-0.05%	-4.36%
			2600	1.954	37.282	1.964	39.009	-0.51%	-4.43%
			2650	1.994	37.179	2.018	38.945	-1.19%	-4.53%
			2680	2.020	37.115	2.051	38.907	-1.51%	-4.61%
			2700	2.035	37.066	2.073	38.882	-1.83%	-4.67%
			2300	1.685	39.070	1.670	39.500	0.90%	-1.09%
			2310	1.694	39.074	1.679	39.480	0.89%	-1.03%
12/18/2025	2450 Head	20.2	2320	1.701	39.078	1.687	39.460	0.83%	-0.97%
			2400	1.758	38.887	1.756	39.289	0.11%	-1.02%
			2450	1.803	38.879	1.800	39.200	0.17%	-0.82%
			2480	1.823	38.816	1.833	39.162	-0.55%	-0.88%
			2500	1.835	38.739	1.855	39.136	-1.08%	-1.01%
			2510	1.843	38.705	1.866	39.123	-1.23%	-1.07%
			2535	1.867	38.661	1.893	39.092	-1.37%	-1.10%
			2550	1.882	38.661	1.909	39.073	-1.41%	-1.05%
			2560	1.892	38.663	1.920	39.060	-1.46%	-1.02%
			2600	1.921	38.616	1.964	39.009	-2.19%	-1.01%
			2650	1.960	38.449	2.018	38.945	-2.87%	-1.27%
			2680	1.991	38.441	2.051	38.907	-2.93%	-1.20%
			2700	2.008	38.452	2.073	38.882	-3.14%	-1.11%
			12/22/2025	2450 Head	20.8	2300	1.736	40.801	1.670
2310	1.744	40.784				1.679	39.480	3.87%	3.30%
2320	1.752	40.756				1.687	39.460	3.85%	3.28%
2400	1.816	40.619				1.756	39.289	3.53%	3.39%
2450	1.856	40.531				1.800	39.200	3.11%	3.40%
2480	1.882	40.476				1.833	39.162	2.67%	3.35%
2500	1.901	40.445				1.855	39.136	2.48%	3.34%
2510	1.911	40.431				1.866	39.123	2.41%	3.34%
2535	1.933	40.397				1.893	39.092	2.11%	3.34%
2550	1.946	40.372				1.909	39.073	1.94%	3.32%
2560	1.955	40.348				1.920	39.060	1.82%	3.30%
2600	1.989	40.254				1.964	39.009	1.27%	3.19%
2650	2.034	40.164				2.018	38.945	0.79%	3.13%
2680	2.058	40.089				2.051	38.907	0.34%	3.04%
12/22/2025	2450 Head	20.0	2700	2.074	40.051	2.073	38.882	0.05%	3.01%
			2300	1.655	41.301	1.670	39.500	-0.90%	4.56%
			2310	1.662	41.286	1.679	39.480	-1.01%	4.57%
			2320	1.669	41.264	1.687	39.460	-1.07%	4.57%
			2400	1.729	41.140	1.756	39.289	-1.54%	4.71%
			2450	1.769	41.057	1.800	39.200	-1.72%	4.74%
			2480	1.792	41.025	1.833	39.162	-2.24%	4.76%
			2500	1.808	41.002	1.855	39.136	-2.53%	4.77%
			2510	1.817	40.988	1.866	39.123	-2.63%	4.77%
			2535	1.839	40.949	1.893	39.092	-2.85%	4.75%
			2550	1.851	40.927	1.909	39.073	-3.04%	4.74%
			2560	1.857	40.915	1.920	39.060	-3.28%	4.75%
			2600	1.891	40.837	1.964	39.009	-3.72%	4.69%
			2650	1.932	40.763	2.018	38.945	-4.26%	4.67%
12/22/2025	2450 Head	19.7	2680	1.953	40.706	2.051	38.907	-4.78%	4.62%
			2700	1.970	40.667	2.073	38.882	-4.97%	4.59%
			2300	1.751	39.703	1.670	39.500	4.85%	0.51%
			2310	1.759	39.683	1.679	39.480	4.76%	0.51%
			2320	1.767	39.666	1.687	39.460	4.74%	0.52%
			2400	1.835	39.555	1.756	39.289	4.50%	0.68%
			2450	1.879	39.477	1.800	39.200	4.39%	0.71%
			2480	1.904	39.416	1.833	39.162	3.87%	0.65%
			2500	1.922	39.387	1.855	39.136	3.61%	0.64%
			2510	1.930	39.371	1.866	39.123	3.43%	0.63%
			2535	1.952	39.319	1.893	39.092	3.12%	0.58%
			2550	1.966	39.286	1.909	39.073	2.99%	0.55%
			2560	1.975	39.268	1.920	39.060	2.86%	0.53%
			2600	2.010	39.194	1.964	39.009	2.34%	0.47%
12/29/2025	2450 Head	20.4	2650	2.055	39.086	2.018	38.945	1.83%	0.36%
			2680	2.082	39.020	2.051	38.907	1.51%	0.29%
			2700	2.099	38.968	2.073	38.882	1.25%	0.22%
			2300	1.671	39.995	1.670	39.500	0.06%	1.25%
			2310	1.676	39.984	1.679	39.480	-0.16%	1.28%
			2320	1.683	39.970	1.687	39.460	-0.24%	1.28%
			2400	1.744	39.856	1.756	39.289	-0.68%	1.44%
			2450	1.782	39.769	1.800	39.200	-1.00%	1.45%
			2480	1.804	39.730	1.833	39.162	-1.58%	1.45%
			2500	1.819	39.686	1.855	39.136	-1.94%	1.41%
			2510	1.828	39.664	1.866	39.123	-2.04%	1.38%
			2535	1.851	39.620	1.893	39.092	-2.22%	1.35%
			2550	1.864	39.611	1.909	39.073	-2.36%	1.38%
			2560	1.870	39.607	1.920	39.060	-2.60%	1.40%

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Table 11-6
Measured Head Tissue Properties (Cont.)

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
12/08/2025	3600 Head	22.4	3300	2.840	38.348	2.708	38.157	4.87%	0.50%
			3350	2.873	38.290	2.759	38.100	4.13%	0.50%
			3450	2.949	38.128	2.861	37.986	3.08%	0.37%
			3500	2.986	38.084	2.913	37.929	2.51%	0.41%
			3550	3.026	37.991	2.964	37.871	2.09%	0.32%
			3560	3.034	37.990	2.974	37.860	2.02%	0.34%
			3600	3.059	37.935	3.015	37.814	1.46%	0.32%
			3650	3.104	37.885	3.066	37.757	1.24%	0.34%
			3690	3.130	37.815	3.107	37.711	0.74%	0.28%
			3700	3.138	37.802	3.117	37.700	0.67%	0.27%
			3750	3.175	37.762	3.169	37.643	0.19%	0.32%
			3900	3.307	37.574	3.323	37.471	-0.48%	0.27%
			3930	3.334	37.515	3.353	37.437	-0.57%	0.21%
			4100	3.480	37.291	3.528	37.243	-1.36%	0.13%
			4150	3.525	37.233	3.579	37.186	-1.51%	0.13%
12/10/2025	3600 Head	19.0	3300	2.614	38.596	2.708	38.157	-3.47%	1.15%
			3350	2.654	38.528	2.759	38.100	-3.81%	1.12%
			3450	2.753	38.335	2.861	37.986	-3.77%	0.92%
			3500	2.801	38.284	2.913	37.929	-3.84%	0.94%
			3550	2.856	38.164	2.964	37.871	-3.64%	0.77%
			3560	2.865	38.162	2.974	37.860	-3.67%	0.80%
			3600	2.901	38.090	3.015	37.814	-3.78%	0.73%
			3650	2.956	38.012	3.066	37.757	-3.59%	0.68%
			3690	2.993	37.920	3.107	37.711	-3.67%	0.55%
			3700	3.004	37.899	3.117	37.700	-3.63%	0.53%
			3750	3.052	37.831	3.169	37.643	-3.69%	0.50%
			3900	3.201	37.548	3.323	37.471	-3.67%	0.21%
			3930	3.233	37.461	3.353	37.437	-3.58%	0.06%
			4100	3.408	37.139	3.528	37.243	-3.40%	-0.28%
			4150	3.457	37.082	3.579	37.186	-3.41%	-0.28%
12/22/2025	3600 Head	19.7	3300	2.799	36.985	2.708	38.157	3.36%	-3.07%
			3350	2.834	36.931	2.759	38.100	2.72%	-3.07%
			3450	2.909	36.765	2.861	37.986	1.68%	-3.21%
			3500	2.949	36.721	2.913	37.929	1.24%	-3.18%
			3550	2.991	36.628	2.964	37.871	0.91%	-3.28%
			3560	3.000	36.618	2.974	37.860	0.87%	-3.28%
			3600	3.027	36.579	3.015	37.814	0.40%	-3.27%
			3650	3.074	36.524	3.066	37.757	0.26%	-3.27%
			3690	3.101	36.475	3.107	37.711	-0.19%	-3.28%
			3700	3.111	36.457	3.117	37.700	-0.19%	-3.30%
			3750	3.154	36.415	3.169	37.643	-0.47%	-3.26%
			3900	3.291	36.231	3.323	37.471	-0.96%	-3.31%
			3930	3.316	36.176	3.353	37.437	-1.10%	-3.37%
			4100	3.478	35.933	3.528	37.243	-1.42%	-3.52%
			4150	3.529	35.884	3.579	37.186	-1.40%	-3.50%

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Table 11-7
Measured Head Tissue Properties (Cont.)

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
10/08/2025	5200-5800 Head	19.7	5150	4.574	35.029	4.608	36.050	-0.74%	-2.83%
			5160	4.575	35.056	4.618	36.040	-0.93%	-2.73%
			5170	4.556	35.019	4.629	36.030	-1.58%	-2.81%
			5180	4.558	34.966	4.635	36.009	-1.66%	-2.90%
			5190	4.566	34.880	4.645	35.998	-1.70%	-3.11%
			5200	4.598	34.848	4.655	35.986	-1.22%	-3.16%
			5210	4.608	34.849	4.666	35.975	-1.24%	-3.13%
			5220	4.617	34.834	4.676	35.963	-1.26%	-3.14%
			5240	4.645	34.909	4.696	35.940	-1.09%	-2.87%
			5250	4.649	34.852	4.706	35.929	-1.21%	-3.00%
			5260	4.641	34.825	4.717	35.917	-1.61%	-3.04%
			5270	4.656	34.771	4.727	35.906	-1.50%	-3.16%
			5280	4.663	34.733	4.737	35.894	-1.56%	-3.23%
			5290	4.681	34.710	4.748	35.883	-1.41%	-3.27%
			5300	4.715	34.688	4.758	35.871	-0.90%	-3.30%
			5310	4.748	34.701	4.768	35.860	-0.42%	-3.23%
			5320	4.757	34.710	4.778	35.849	-0.44%	-3.18%
			5500	4.902	34.390	4.963	35.643	-1.23%	-3.52%
			5510	4.919	34.301	4.973	35.632	-1.09%	-3.74%
			5520	4.955	34.246	4.983	35.620	-0.56%	-3.86%
			5530	4.990	34.243	4.994	35.609	-0.08%	-3.84%
			5540	5.010	34.265	5.004	35.597	0.12%	-3.74%
			5550	5.022	34.291	5.014	35.586	0.16%	-3.64%
			5560	5.022	34.306	5.024	35.574	-0.04%	-3.56%
			5580	4.990	34.270	5.045	35.551	-1.09%	-3.60%
			5600	5.053	34.144	5.065	35.529	-0.24%	-3.90%
			5610	5.090	34.102	5.076	35.518	0.28%	-3.99%
			5620	5.102	34.121	5.086	35.506	0.31%	-3.90%
			5640	5.099	34.183	5.106	35.483	-0.14%	-3.66%
			5660	5.096	34.117	5.127	35.460	-0.60%	-3.79%
			5670	5.118	34.060	5.137	35.449	-0.37%	-3.92%
			5680	5.144	33.989	5.147	35.437	-0.06%	-4.09%
			5690	5.174	33.950	5.158	35.426	0.31%	-4.17%
			5700	5.193	33.969	5.168	35.414	0.48%	-4.08%
			5710	5.200	34.005	5.178	35.403	0.42%	-3.95%
			5720	5.199	34.019	5.188	35.391	0.21%	-3.88%
			5745	5.195	33.921	5.214	35.363	-0.36%	-4.08%
			5750	5.193	33.880	5.219	35.357	-0.50%	-4.18%
			5755	5.198	33.842	5.224	35.351	-0.50%	-4.27%
			5765	5.230	33.792	5.234	35.340	-0.08%	-4.38%
			5775	5.281	33.782	5.245	35.329	0.69%	-4.38%
			5785	5.297	33.830	5.255	35.317	0.80%	-4.21%
			5795	5.301	33.867	5.265	35.305	0.68%	-4.07%
			5800	5.300	33.892	5.270	35.300	0.57%	-3.99%
			5805	5.293	33.900	5.275	35.294	0.34%	-3.95%
			5825	5.255	33.760	5.296	35.271	-0.77%	-4.28%
			5835	5.275	33.650	5.305	35.230	-0.57%	-4.48%
			5845	5.336	33.592	5.315	35.210	0.40%	-4.60%
			5850	5.367	33.599	5.320	35.200	0.88%	-4.55%
			5855	5.388	33.626	5.325	35.197	1.18%	-4.46%
			5865	5.404	33.702	5.336	35.190	1.27%	-4.23%
			5875	5.389	33.746	5.347	35.183	0.79%	-4.08%
			5885	5.376	33.745	5.357	35.177	0.35%	-4.07%
			5905	5.378	33.594	5.379	35.163	-0.02%	-4.46%

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Table 11-8
Measured Head Tissue Properties (Cont.)

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
12/09/2025	5200-5800 Head	19.3	5150	4.517	36.371	4.608	36.050	-1.97%	0.89%
			5160	4.529	36.383	4.618	36.040	-1.93%	0.95%
			5170	4.531	36.396	4.629	36.030	-2.12%	1.02%
			5180	4.535	36.396	4.635	36.009	-2.16%	1.07%
			5190	4.539	36.393	4.645	35.998	-2.28%	1.10%
			5200	4.544	36.381	4.655	35.986	-2.38%	1.10%
			5210	4.549	36.348	4.666	35.975	-2.51%	1.04%
			5220	4.558	36.297	4.676	35.963	-2.52%	0.93%
			5240	4.593	36.188	4.696	35.940	-2.19%	0.69%
			5250	4.617	36.161	4.706	35.929	-1.89%	0.65%
			5260	4.637	36.144	4.717	35.917	-1.70%	0.63%
			5270	4.652	36.150	4.727	35.906	-1.59%	0.68%
			5280	4.659	36.158	4.737	35.894	-1.65%	0.74%
			5290	4.667	36.170	4.748	35.883	-1.71%	0.80%
			5300	4.673	36.188	4.758	35.871	-1.79%	0.88%
			5310	4.676	36.187	4.768	35.860	-1.93%	0.91%
			5320	4.682	36.168	4.778	35.849	-2.01%	0.89%
			5500	4.891	35.737	4.963	35.643	-1.45%	0.26%
			5510	4.906	35.729	4.973	35.632	-1.35%	0.27%
			5520	4.919	35.715	4.983	35.620	-1.28%	0.27%
			5530	4.931	35.718	4.994	35.609	-1.26%	0.31%
			5540	4.946	35.711	5.004	35.597	-1.16%	0.32%
			5550	4.957	35.717	5.014	35.586	-1.14%	0.37%
			5560	4.963	35.702	5.024	35.574	-1.21%	0.36%
			5580	4.980	35.675	5.045	35.551	-1.29%	0.35%
			5600	5.002	35.602	5.065	35.529	-1.24%	0.21%
			5610	5.012	35.555	5.076	35.518	-1.26%	0.10%
			5620	5.027	35.522	5.086	35.506	-1.16%	0.05%
			5640	5.058	35.475	5.106	35.483	-0.94%	-0.02%
			5660	5.090	35.473	5.127	35.460	-0.72%	0.04%
			5670	5.104	35.494	5.137	35.449	-0.64%	0.13%
			5680	5.114	35.503	5.147	35.437	-0.64%	0.19%
			5690	5.121	35.496	5.158	35.426	-0.72%	0.20%
			5700	5.129	35.479	5.168	35.414	-0.75%	0.18%
			5710	5.137	35.442	5.178	35.403	-0.79%	0.11%
			5720	5.145	35.419	5.188	35.391	-0.83%	0.08%
			5745	5.167	35.324	5.214	35.363	-0.90%	-0.11%
			5750	5.175	35.296	5.219	35.357	-0.84%	-0.17%
			5755	5.183	35.271	5.224	35.351	-0.78%	-0.23%
			5765	5.202	35.231	5.234	35.340	-0.61%	-0.31%
			5775	5.219	35.227	5.245	35.329	-0.50%	-0.29%
			5785	5.236	35.230	5.255	35.317	-0.36%	-0.25%
			5795	5.253	35.251	5.265	35.305	-0.23%	-0.15%
			5805	5.264	35.260	5.275	35.294	-0.21%	-0.10%
			5825	5.276	35.263	5.296	35.271	-0.38%	-0.02%
			5835	5.281	35.254	5.305	35.230	-0.45%	0.07%
			5845	5.285	35.221	5.315	35.210	-0.56%	0.03%
			5850	5.287	35.192	5.320	35.200	-0.62%	-0.02%
			5855	5.290	35.166	5.325	35.197	-0.66%	-0.09%
			5875	5.316	35.069	5.347	35.183	-0.58%	-0.32%
			5885	5.330	35.026	5.357	35.177	-0.50%	-0.43%
			5905	5.370	35.011	5.379	35.163	-0.17%	-0.43%

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Table 11-9
Measured Head Tissue Properties (Cont.)

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
12/22/2025	5200-5800 Head	19.0	5150	4.525	35.822	4.608	36.050	-1.80%	-0.63%
			5160	4.540	35.832	4.618	36.040	-1.69%	-0.58%
			5170	4.548	35.844	4.629	36.030	-1.75%	-0.52%
			5180	4.555	35.853	4.635	36.009	-1.73%	-0.43%
			5190	4.562	35.851	4.645	35.998	-1.79%	-0.41%
			5200	4.567	35.836	4.655	35.986	-1.89%	-0.42%
			5210	4.570	35.796	4.666	35.975	-2.06%	-0.50%
			5220	4.579	35.739	4.676	35.963	-2.07%	-0.62%
			5240	4.609	35.629	4.696	35.940	-1.85%	-0.87%
			5250	4.627	35.606	4.706	35.929	-1.68%	-0.90%
			5260	4.646	35.598	4.717	35.917	-1.51%	-0.89%
			5270	4.665	35.601	4.727	35.906	-1.31%	-0.85%
			5280	4.674	35.612	4.737	35.894	-1.33%	-0.79%
			5290	4.680	35.637	4.748	35.883	-1.43%	-0.69%
			5300	4.688	35.649	4.758	35.871	-1.47%	-0.62%
			5310	4.693	35.645	4.768	35.860	-1.57%	-0.60%
			5320	4.696	35.613	4.778	35.849	-1.72%	-0.66%
			5500	4.915	35.170	4.963	35.643	-0.97%	-1.33%
			5510	4.928	35.177	4.973	35.632	-0.90%	-1.28%
			5520	4.937	35.191	4.983	35.620	-0.92%	-1.20%
			5530	4.941	35.194	4.994	35.609	-1.06%	-1.17%
			5540	4.949	35.188	5.004	35.597	-1.10%	-1.15%
			5550	4.961	35.159	5.014	35.586	-1.06%	-1.20%
			5560	4.969	35.136	5.024	35.574	-1.09%	-1.23%
			5580	5.001	35.077	5.045	35.551	-0.87%	-1.33%
			5600	5.036	34.993	5.065	35.529	-0.57%	-1.51%
			5610	5.045	34.967	5.076	35.518	-0.61%	-1.55%
			5620	5.054	34.962	5.086	35.506	-0.63%	-1.53%
			5640	5.066	34.954	5.106	35.483	-0.78%	-1.49%
			5660	5.096	34.934	5.127	35.460	-0.60%	-1.48%
			5670	5.112	34.915	5.137	35.449	-0.49%	-1.51%
			5680	5.124	34.891	5.147	35.437	-0.45%	-1.54%
			5690	5.137	34.859	5.158	35.426	-0.41%	-1.60%
			5700	5.150	34.854	5.168	35.414	-0.35%	-1.58%
			5710	5.163	34.832	5.178	35.403	-0.29%	-1.61%
			5720	5.173	34.807	5.188	35.391	-0.29%	-1.65%
			5745	5.189	34.723	5.214	35.363	-0.48%	-1.81%
			5750	5.193	34.717	5.219	35.357	-0.50%	-1.81%
			5755	5.197	34.706	5.224	35.351	-0.52%	-1.82%
			5765	5.213	34.679	5.234	35.340	-0.40%	-1.87%
			5775	5.229	34.668	5.245	35.329	-0.31%	-1.87%
			5785	5.246	34.655	5.255	35.317	-0.17%	-1.87%
			5795	5.263	34.652	5.265	35.305	-0.04%	-1.85%
			5800	5.272	34.654	5.270	35.300	0.04%	-1.83%
			5805	5.282	34.658	5.275	35.294	0.13%	-1.80%
			5825	5.304	34.651	5.296	35.271	0.15%	-1.76%
			5835	5.307	34.620	5.305	35.230	0.04%	-1.73%
			5845	5.309	34.583	5.315	35.210	-0.11%	-1.78%
			5850	5.310	34.564	5.320	35.200	-0.19%	-1.81%
			5855	5.313	34.548	5.325	35.197	-0.23%	-1.84%
			5865	5.322	34.529	5.336	35.190	-0.26%	-1.88%
			5875	5.333	34.496	5.347	35.183	-0.26%	-1.95%
			5885	5.346	34.464	5.357	35.177	-0.21%	-2.03%
			5905	5.389	34.437	5.379	35.163	0.19%	-2.06%

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Table 11-10
Measured Head Tissue Properties (Cont.)

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
12/22/2025	5200-5800 Head	19.0	5150	4.421	34.838	4.608	36.050	-4.06%	-3.36%
			5160	4.406	34.808	4.618	36.040	-4.59%	-3.42%
			5170	4.399	34.780	4.629	36.030	-4.97%	-3.47%
			5180	4.404	34.749	4.635	36.009	-4.98%	-3.50%
			5190	4.423	34.728	4.645	35.998	-4.78%	-3.53%
			5200	4.449	34.731	4.655	35.986	-4.43%	-3.49%
			5210	4.486	34.726	4.666	35.975	-3.86%	-3.47%
			5220	4.525	34.719	4.676	35.963	-3.23%	-3.46%
			5240	4.582	34.698	4.696	35.940	-2.43%	-3.46%
			5250	4.588	34.695	4.706	35.929	-2.51%	-3.43%
			5260	4.585	34.697	4.717	35.917	-2.80%	-3.40%
			5270	4.573	34.689	4.727	35.906	-3.26%	-3.39%
			5280	4.554	34.654	4.737	35.894	-3.86%	-3.45%
			5290	4.540	34.610	4.748	35.883	-4.38%	-3.55%
			5300	4.531	34.580	4.758	35.871	-4.77%	-3.60%
			5310	4.543	34.562	4.768	35.860	-4.72%	-3.62%
			5320	4.568	34.542	4.778	35.849	-4.40%	-3.65%
			5500	4.876	34.252	4.963	35.643	-1.75%	-3.90%
			5510	4.858	34.251	4.973	35.632	-2.31%	-3.88%
			5520	4.833	34.243	4.983	35.620	-3.01%	-3.87%
			5530	4.807	34.240	4.994	35.609	-3.74%	-3.84%
			5540	4.792	34.221	5.004	35.597	-4.24%	-3.87%
			5550	4.793	34.183	5.014	35.586	-4.41%	-3.94%
			5560	4.814	34.143	5.024	35.574	-4.18%	-4.02%
			5580	4.903	34.070	5.045	35.551	-2.81%	-4.17%
			5600	4.994	34.027	5.065	35.529	-1.40%	-4.23%
			5610	5.017	34.025	5.076	35.518	-1.16%	-4.20%
			5620	5.019	34.023	5.086	35.506	-1.32%	-4.18%
			5640	4.985	34.021	5.106	35.483	-2.37%	-4.12%
			5660	4.942	34.009	5.127	35.460	-3.61%	-4.09%
			5670	4.937	33.991	5.137	35.449	-3.89%	-4.11%
			5680	4.951	33.954	5.147	35.437	-3.81%	-4.18%
			5690	4.982	33.909	5.158	35.426	-3.41%	-4.28%
			5700	5.027	33.865	5.168	35.414	-2.73%	-4.37%
			5710	5.078	33.824	5.178	35.403	-1.93%	-4.46%
			5720	5.122	33.800	5.188	35.391	-1.27%	-4.50%
			5745	5.162	33.767	5.214	35.363	-1.00%	-4.51%
			5750	5.157	33.772	5.219	35.357	-1.19%	-4.48%
			5755	5.148	33.773	5.224	35.351	-1.45%	-4.46%
			5765	5.123	33.782	5.234	35.340	-2.12%	-4.41%
			5775	5.096	33.797	5.245	35.329	-2.84%	-4.34%
			5785	5.078	33.798	5.255	35.317	-3.37%	-4.30%
			5795	5.078	33.780	5.265	35.305	-3.55%	-4.32%
			5800	5.083	33.770	5.270	35.300	-3.55%	-4.33%
			5800	5.083	33.770	5.270	35.300	-3.55%	-4.33%
			5805	5.093	33.751	5.275	35.294	-3.45%	-4.37%
			5825	5.176	33.648	5.296	35.271	-2.27%	-4.60%
			5835	5.224	33.605	5.305	35.230	-1.53%	-4.61%
			5845	5.265	33.562	5.315	35.210	-0.94%	-4.68%
			5850	5.280	33.548	5.320	35.200	-0.75%	-4.69%
			5855	5.291	33.538	5.325	35.197	-0.64%	-4.71%
			5865	5.303	33.533	5.336	35.190	-0.62%	-4.71%
			5875	5.296	33.548	5.347	35.183	-0.95%	-4.65%
			5885	5.276	33.568	5.357	35.177	-1.51%	-4.57%
			5905	5.228	33.614	5.379	35.163	-2.81%	-4.41%

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Table 11-11
Measured Head Tissue Properties (Cont.)

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
12/07/2025	6000 Head	19.1	5935	5.310	34.323	5.411	35.143	-1.87%	-2.33%
			5970	5.308	34.358	5.448	35.120	-2.57%	-2.17%
			5985	5.313	34.260	5.464	35.110	-2.76%	-2.42%
			6000	5.351	34.129	5.480	35.100	-2.35%	-2.77%
			6025	5.407	34.233	5.510	35.070	-1.87%	-2.39%
			6065	5.417	34.009	5.557	35.022	-2.52%	-2.89%
			6075	5.431	33.986	5.569	35.010	-2.48%	-2.92%
			6085	5.455	33.993	5.580	34.998	-2.24%	-2.87%
			6185	5.585	33.837	5.698	34.878	-1.98%	-2.98%
			6275	5.699	33.698	5.805	34.770	-1.83%	-3.08%
			6285	5.716	33.690	5.816	34.758	-1.72%	-3.07%
			6305	5.710	33.644	5.840	34.734	-2.23%	-3.14%
			6345	5.757	33.532	5.887	34.686	-2.21%	-3.33%
			6475	5.930	33.359	6.041	34.530	-1.84%	-3.39%
			6485	5.922	33.304	6.052	34.518	-2.15%	-3.52%
			6500	5.926	33.239	6.070	34.500	-2.37%	-3.66%
			6505	5.938	33.218	6.076	34.494	-2.27%	-3.70%
			6545	6.037	33.206	6.122	34.446	-1.39%	-3.60%
			6665	6.125	33.077	6.265	34.302	-2.23%	-3.57%
			6675	6.122	32.978	6.273	34.290	-2.41%	-3.83%
			6685	6.150	32.891	6.285	34.278	-2.15%	-4.05%
			6715	6.215	32.908	6.319	34.242	-1.65%	-3.90%
			6785	6.283	32.668	6.400	34.158	-1.83%	-4.36%
			6825	6.333	32.758	6.447	34.110	-1.77%	-3.96%
			6985	6.516	32.408	6.633	33.918	-1.76%	-4.45%
			6995	6.530	32.397	6.644	33.906	-1.72%	-4.45%
			7000	6.527	32.382	6.650	33.900	-1.85%	-4.48%
			7005	6.519	32.365	6.656	33.894	-2.06%	-4.51%
			7025	6.498	32.264	6.680	33.870	-2.72%	-4.74%
12/12/2025	6000 Head	19.0	5935	5.452	34.715	5.411	35.143	0.76%	-1.22%
			5970	5.463	34.664	5.448	35.120	0.28%	-1.30%
			5985	5.485	34.559	5.464	35.110	0.38%	-1.57%
			6000	5.474	34.502	5.480	35.100	-0.11%	-1.70%
			6025	5.494	34.428	5.510	35.070	-0.29%	-1.83%
			6065	5.534	34.361	5.557	35.022	-0.41%	-1.89%
			6075	5.536	34.333	5.569	35.010	-0.59%	-1.93%
			6085	5.545	34.311	5.580	34.998	-0.63%	-1.96%
			6185	5.709	34.158	5.698	34.878	0.19%	-2.06%
			6275	5.845	33.924	5.805	34.770	0.69%	-2.43%
			6285	5.843	33.943	5.816	34.758	0.46%	-2.34%
			6305	5.854	33.961	5.840	34.734	0.24%	-2.23%
			6345	5.909	33.798	5.887	34.686	0.37%	-2.56%
			6475	6.059	33.506	6.041	34.530	0.30%	-2.97%
			6485	6.081	33.512	6.052	34.518	0.48%	-2.91%

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Table 11-12
Measured Head Tissue Properties (Cont.)

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
12/12/2025	6000 Head	19.0	6500	6.115	33.542	6.070	34.500	0.74%	-2.78%
			6505	6.118	33.560	6.076	34.494	0.69%	-2.71%
			6545	6.118	33.520	6.122	34.446	-0.07%	-2.69%
			6665	6.226	33.256	6.265	34.302	-0.62%	-3.05%
			6675	6.247	33.225	6.273	34.290	-0.41%	-3.11%
			6685	6.268	33.172	6.285	34.278	-0.27%	-3.23%
			6715	6.313	33.118	6.319	34.242	-0.09%	-3.28%
			6785	6.384	33.001	6.400	34.158	-0.25%	-3.39%
			6825	6.449	32.951	6.447	34.110	0.03%	-3.40%
			6985	6.603	32.678	6.633	33.918	-0.45%	-3.66%
			6995	6.592	32.688	6.644	33.906	-0.78%	-3.59%
			7000	6.595	32.688	6.650	33.900	-0.83%	-3.58%
			7005	6.604	32.670	6.656	33.894	-0.78%	-3.61%
12/17/2025	6000 Head	19.0	7025	6.652	32.555	6.680	33.870	-0.42%	-3.88%
			5935	5.593	34.977	5.411	35.143	3.36%	-0.47%
			5970	5.595	35.310	5.448	35.120	2.70%	0.54%
			5985	5.540	35.434	5.464	35.110	1.39%	0.92%
			6000	5.445	35.438	5.480	35.100	-0.64%	0.96%
			6025	5.441	35.077	5.510	35.070	-1.25%	0.02%
			6065	5.680	34.659	5.557	35.022	2.21%	-1.04%
			6075	5.698	34.691	5.569	35.010	2.32%	-0.91%
			6085	5.696	34.786	5.580	34.998	2.08%	-0.61%
			6185	5.814	34.339	5.698	34.878	2.04%	-1.55%
			6275	5.807	34.529	5.805	34.770	0.03%	-0.69%
			6285	5.837	34.385	5.816	34.758	0.36%	-1.07%
			6305	5.934	34.200	5.840	34.734	1.61%	-1.54%
			6345	6.011	34.502	5.887	34.686	2.11%	-0.53%
			6475	6.133	34.311	6.041	34.530	1.52%	-0.63%
			6485	6.110	34.433	6.052	34.518	0.96%	-0.25%
			6500	6.078	34.459	6.070	34.500	0.13%	-0.12%
			6505	6.065	34.418	6.076	34.494	-0.18%	-0.22%
			6545	6.148	33.691	6.122	34.446	0.42%	-2.19%
			6665	6.219	33.388	6.265	34.302	-0.73%	-2.66%
			6675	6.288	33.300	6.273	34.290	0.24%	-2.89%
			6685	6.353	33.268	6.285	34.278	1.08%	-2.95%
			6715	6.416	33.758	6.319	34.242	1.54%	-1.41%
			6785	6.351	33.166	6.400	34.158	-0.77%	-2.90%
			6825	6.567	33.268	6.447	34.110	1.86%	-2.47%
			6985	6.623	33.620	6.633	33.918	-0.15%	-0.88%
			6995	6.566	33.584	6.644	33.906	-1.17%	-0.95%
			7000	6.548	33.509	6.650	33.900	-1.53%	-1.15%
			7005	6.537	33.404	6.656	33.894	-1.79%	-1.45%
			7025	6.563	32.792	6.680	33.870	-1.75%	-3.18%

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Table 11-13
Measured Head Tissue Properties (Cont.)

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
12/22/2025	6000 Head	19.0	5935	5.312	34.778	5.411	35.143	-1.83%	-1.04%
			5970	5.431	34.531	5.448	35.120	-0.31%	-1.68%
			5985	5.479	34.435	5.464	35.110	0.27%	-1.92%
			6000	5.459	34.426	5.480	35.100	-0.38%	-1.92%
			6025	5.422	34.544	5.510	35.070	-1.60%	-1.50%
			6065	5.453	34.524	5.557	35.022	-1.87%	-1.42%
			6075	5.478	34.418	5.569	35.010	-1.63%	-1.69%
			6085	5.509	34.309	5.580	34.998	-1.27%	-1.97%
			6185	5.608	34.323	5.698	34.878	-1.58%	-1.59%
			6275	5.775	34.143	5.805	34.770	-0.52%	-1.80%
			6285	5.760	34.222	5.816	34.758	-0.96%	-1.54%
			6305	5.776	34.194	5.840	34.734	-1.10%	-1.55%
			6345	5.877	33.714	5.887	34.686	-0.17%	-2.80%
			6475	6.037	33.411	6.041	34.530	-0.07%	-3.24%
			6485	6.061	33.420	6.052	34.518	0.15%	-3.18%
			6500	6.088	33.562	6.070	34.500	0.30%	-2.72%
			6505	6.086	33.626	6.076	34.494	0.16%	-2.52%
			6545	6.078	33.856	6.122	34.446	-0.72%	-1.71%
			6665	6.203	33.621	6.265	34.302	-0.99%	-1.99%
			6675	6.215	33.555	6.273	34.290	-0.92%	-2.14%
			6685	6.234	33.419	6.285	34.278	-0.81%	-2.51%
			6715	6.275	33.079	6.319	34.242	-0.70%	-3.40%
			6785	6.382	33.367	6.400	34.158	-0.28%	-2.32%
			6825	6.418	33.019	6.447	34.110	-0.45%	-3.20%
			6985	6.569	32.623	6.633	33.918	-0.96%	-3.82%
			6995	6.578	32.717	6.644	33.906	-0.99%	-3.51%
			7000	6.593	32.775	6.650	33.900	-0.86%	-3.32%
			7005	6.612	32.825	6.656	33.894	-0.66%	-3.15%
			7025	6.687	32.911	6.680	33.870	0.10%	-2.83%

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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11.2 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 11-14
System Verification Results

SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (°C)	Liquid Temp. (°C)	Input Power (W)	Source SN	Probe SN	DAE	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 (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 (%)
G	13	HEAD	12/30/2025	21.0	22.2	1.00	1002	7527	1415	0.51	0.50	0.51	0.80%	0.31	0.32	0.31	-0.63%	N/A	N/A	N/A	N/A
O	750	HEAD	09/11/2025	20.9	20.4	0.20	1161	7718	1407	1.66	8.36	8.30	-0.72%	1.10	5.41	5.50	1.66%	N/A	N/A	N/A	N/A
G	750	HEAD	10/02/2025	21.4	23.0	0.20	1054	7488	1415	1.82	8.68	9.10	4.84%	1.21	5.61	6.05	7.84%	N/A	N/A	N/A	N/A
J	750	HEAD	10/09/2025	21.6	22.5	0.20	1054	7659	1407	1.69	8.68	8.45	-2.65%	1.12	5.61	5.60	-0.18%	N/A	N/A	N/A	N/A
O	835	HEAD	09/11/2025	20.9	20.4	0.20	46132	7718	1407	1.92	9.84	9.60	-2.44%	1.27	6.40	6.35	-0.78%	N/A	N/A	N/A	N/A
O	835	HEAD	09/22/2025	21.7	20.7	0.20	48047	7718	1407	1.97	9.44	9.85	4.34%	1.29	6.09	6.45	5.91%	N/A	N/A	N/A	N/A
G	835	HEAD	10/02/2025	21.4	23.0	0.20	46133	7488	1415	1.97	9.94	9.85	-0.91%	1.31	6.49	6.55	0.92%	N/A	N/A	N/A	N/A
L	835	HEAD	10/09/2025	21.6	22.5	0.20	46132	7659	1407	2.01	9.84	10.05	2.13%	1.35	6.40	6.75	5.47%	N/A	N/A	N/A	N/A
O	835	HEAD	10/10/2025	20.9	19.5	0.20	46132	7718	1407	2.03	9.84	10.15	3.15%	1.34	6.40	6.70	4.69%	N/A	N/A	N/A	N/A
J	835	HEAD	10/27/2025	22.5	21.9	0.20	46133	7660	1678	1.98	9.94	9.90	-0.40%	1.30	6.49	6.50	0.15%	N/A	N/A	N/A	N/A
J	835	HEAD	12/11/2025	22.9	22.6	0.20	46132	7660	1678	2.06	9.84	10.30	4.67%	1.35	6.40	6.75	5.47%	N/A	N/A	N/A	N/A
O	835	HEAD	01/09/2026	20.0	21.5	0.20	46133	7718	1407	2.05	9.94	10.15	2.13%	1.37	6.49	6.85	5.55%	N/A	N/A	N/A	N/A
N	1750	HEAD	09/15/2025	21.7	20.5	0.10	1148	7410	1213	3.74	36.90	37.40	1.36%	1.99	19.60	19.80	1.53%	N/A	N/A	N/A	N/A
O	1750	HEAD	10/06/2025	19.7	19.0	0.10	1150	7718	1407	3.32	36.40	33.20	-8.79%	1.81	19.40	18.10	-6.70%	N/A	N/A	N/A	N/A
S1	1750	HEAD	12/08/2025	20.3	20.3	0.10	1092	7637	1652	3.52	36.70	35.20	-4.09%	1.90	19.50	19.00	-2.56%	N/A	N/A	N/A	N/A
L	1750	HEAD	12/11/2025	20.6	19.3	0.10	1150	7659	1272	3.49	36.40	34.90	-4.12%	1.88	19.40	18.80	-3.09%	N/A	N/A	N/A	N/A
M	1750	HEAD	12/11/2025	20.7	20.0	0.10	1150	7406	1677	3.50	36.40	35.00	-3.85%	1.89	19.40	18.90	-2.58%	N/A	N/A	N/A	N/A
L	1750	HEAD	12/18/2025	20.5	19.2	0.10	1150	7659	1272	3.76	36.40	37.60	3.30%	2.02	19.40	20.20	4.12%	N/A	N/A	N/A	N/A
M	1750	HEAD	01/03/2026	19.0	20.0	0.10	1150	7406	1677	3.62	36.40	36.20	-0.55%	1.96	19.40	19.80	1.03%	N/A	N/A	N/A	N/A
M	1750	HEAD	01/05/2026	19.0	21.5	0.10	1150	7406	1677	3.62	36.40	36.20	-0.55%	1.96	19.40	19.60	1.03%	N/A	N/A	N/A	N/A
M	1900	HEAD	09/11/2025	20.7	20.1	0.10	56148	7713	1530	4.25	39.60	42.50	7.32%	2.22	20.90	22.20	6.22%	N/A	N/A	N/A	N/A
L	1900	HEAD	09/17/2025	21.3	21.2	0.10	56148	7659	1272	4.33	39.60	43.30	9.34%	2.28	20.90	22.80	9.09%	N/A	N/A	N/A	N/A
M	1900	HEAD	09/22/2025	20.4	20.4	0.10	54080	7713	1530	4.33	40.20	43.30	7.71%	2.25	21.20	22.60	6.60%	N/A	N/A	N/A	N/A
M	1900	HEAD	10/02/2025	20.3	19.9	0.10	54080	7713	1530	3.79	40.20	37.90	-5.72%	1.98	21.20	19.80	-6.60%	N/A	N/A	N/A	N/A
O	1900	HEAD	10/06/2025	19.7	19.0	0.10	56148	7718	1407	4.20	39.60	42.00	6.06%	2.20	20.90	22.00	5.26%	N/A	N/A	N/A	N/A
M	1900	HEAD	10/20/2025	22.3	21.5	0.10	56148	7713	1530	4.19	39.60	41.90	5.81%	2.18	20.90	21.80	4.31%	N/A	N/A	N/A	N/A
L	1900	HEAD	12/11/2025	20.6	19.3	0.10	56148	7659	1272	4.33	39.60	43.30	9.34%	2.25	20.90	22.60	8.12%	N/A	N/A	N/A	N/A
L	1900	HEAD	12/15/2025	20.5	19.3	0.10	56148	7659	1272	4.21	39.60	42.10	6.31%	2.20	20.90	22.00	5.26%	N/A	N/A	N/A	N/A
L	1900	HEAD	12/18/2025	20.5	19.2	0.10	56148	7659	1272	4.20	39.60	42.00	6.06%	2.20	20.90	22.00	5.26%	N/A	N/A	N/A	N/A
M	1900	HEAD	01/03/2026	19.0	20.0	0.10	56148	7406	1677	4.12	39.60	41.20	4.04%	2.16	20.90	21.60	3.35%	N/A	N/A	N/A	N/A
M	1900	HEAD	01/05/2026	19.0	21.5	0.10	56148	7406	1677	4.17	39.60	41.70	5.30%	2.19	20.90	21.90	4.78%	N/A	N/A	N/A	N/A
S5	2450	HEAD	09/15/2025	22.1	20.0	0.10	882	7565	1466	5.66	53.70	56.60	5.40%	2.64	25.10	26.40	5.18%	N/A	N/A	N/A	N/A
S	2450	HEAD	09/22/2025	21.5	21.3	0.10	797	7661	1558	5.41	52.00	54.10	4.04%	2.56	24.40	25.60	4.92%	N/A	N/A	N/A	N/A
S3	2450	HEAD	10/08/2025	20.8	19.7	0.10	945	7640	1645	5.31	52.60	53.10	0.98%	2.49	25.00	24.50	-0.40%	N/A	N/A	N/A	N/A
G	2450	HEAD	12/11/2025	21.3	22.9	0.10	797	7488	1415	5.29	52.60	52.20	-0.76%	2.46	24.80	24.60	-0.81%	N/A	N/A	N/A	N/A
O	2450	HEAD	12/18/2025	19.6	19.7	0.10	797	7718	1407	5.29	52.60	52.80	0.57%	2.51	24.80	25.10	1.21%	N/A	N/A	N/A	N/A
M	2450	HEAD	12/22/2025	19.0	21.0	0.10	797	7406	1677	5.09	52.60	50.90	-3.23%	2.39	24.80	23.90	-3.63%	N/A	N/A	N/A	N/A
J	2450	HEAD	12/22/2025	22.0	21.0	0.10	797	7660	1678	5.35	52.60	53.10	1.71%	2.53	24.80	25.30	2.02%	N/A	N/A	N/A	N/A
J	2450	HEAD	12/29/2025	21.7	20.7	0.10	797	7660	1678	5.30	52.60	53.00	0.76%	2.50	24.80	25.00	0.81%	N/A	N/A	N/A	N/A
S3	2600	HEAD	10/08/2025	20.8	19.7	0.10	1009	7640	1645	6.02	56.50	60.20	6.55%	2.73	25.40	27.30	7.48%	N/A	N/A	N/A	N/A
S4	2600	HEAD	10/22/2025	22.4	20.7	0.10	1126	7491	1466	5.76	55.30	57.60	4.16%	2.62	24.80	26.20	5.65%	N/A	N/A	N/A	N/A
S4	2600	HEAD	10/30/2025	21.0	20.8	0.10	1126	7491	1466	5.83	55.30	58.10	5.42%	2.62	24.80	26.20	5.65%	N/A	N/A	N/A	N/A
S2	2600	HEAD	12/14/2025	21.6	21.3	0.10	1126	7402	1502	5.76	55.30	57.60	4.16%	2.59	24.80	25.90	4.44%	N/A	N/A	N/A	N/A
S2	2600	HEAD	12/22/2025	19.0	19.7	0.10	1009	7402	1502	5.51	56.50	55.10	-2.48%	2.48	25.40	24.80	-2.36%	N/A	N/A	N/A	N/A
S3	3500	HEAD	12/08/2025	22.2	22.1	0.10	1127	7558	1364	6.96	64.90	69.60	7.24%	2.63	24.70	26.30	6.48%	N/A	N/A	N/A	N/A
S2	3500	HEAD	12/10/2025	19.9	19.0	0.10	1127	7402	1502	6.61	64.90	66.10	1.85%	2.54	24.70	25.40	2.83%	N/A	N/A	N/A	N/A
S3	3500	HEAD	12/22/2025	19.0	19.7	0.10	1127	7558	1364	6.96	64.90	69.50	7.09%	2.60	24.70	26.00	5.26%	N/A	N/A	N/A	N/A
S3	3700	HEAD	12/08/2025	22.2	22.1	0.10	1096	7558	1364	6.98	69.60	69.80	0.29%	2.56	25.60	25.60	0.00%	N/A	N/A	N/A	N/A
S2	3700	HEAD	12/30/2025	19.9	19.0	0.10	1096	7402	1502	6.86	69.60	68.60	-1.44%	2.54	25.60	25.40	-0.78%	N/A	N/A	N/A	N/A
S3	3700	HEAD	12/22/2025	19.0	19.7	0.10	1096	7558	1364	6.88	69.60	69.80	0.29%	2.51	25.60	25.10	-1.95%	N/A	N/A	N/A	N/A
S3	3900	HEAD	12/08/2025	22.2	22.1	0.10	1074	7558	1364	7.35	70.80	73.50	3.81%	2.58	24.80	25.80	4.03%	N/A	N/A	N/A	N/A
S2	3900	HEAD	12/30/2025	19.9	19.0	0.10	1074	7402	1502	6.73	70.80	67.30	-4.94%	2.38	24.80	23.80	-4.03%	N/A	N/A	N/A	N/A
S3	3900	HEAD	12/22/2025	19.0	19.7	0.10	1074	7558	1364	7.31	70.80	73.10	2.75%	2.56	24.80	25.60	3.23%	N/A	N/A	N/A	N/A
S1	5250	HEAD	10/08/2025	21.2	19.7	0.05	1237	7637	1652	4.29	79.80	84.40	6.18%	1.21	22.80	24.37	7.08%	N/A	N/A	N/A	N/A
S	5250	HEAD	12/09/2025	20.3	19.3	0.05	1057	7661	1558	3.59	79.40	71.80	-9.57%	1.03	22.70	20.60	-9.25%	N/A	N/A	N/A	N/A
O	5250	HEAD	12/22/2025	19.0	19.0	0.05	1057	7718	1407	3.78	79.40	75.60	-4.79%	1.09	22.70	21.80	-3.96%	N/A	N/A	N/A	N/A
S	5250	HEAD	12/22/2025	19.0	19.0	0.05	1057	7661	1558	3.64	79.40	72.80	-8.31%	1.03	22.70	20.60	-9.25%	N/A	N/A	N/A	N/A
S1	5600	HEAD	10/08/2025	21.7	19.7	0.05	1237	7637	1652	4.29	82.20	85.80	4.38%	1.22	23.60	24.40	3.39%	N/A	N/A	N/A	N/A
S	5600	HEAD	12/09/2025	20.3	19.3	0.05	1057	7661	1558	3.92	82.80	78.40	-5.31%	1.12	23.60	22.40	-5.08%	N/A	N/A	N/A	N/A
O	5600	HEAD	12/22/2025	19.0	19.0	0.05	1057	7718	1407	3.93	82.80	78.60	-5.07%	1.13	23.60	22.60	-4.24%	N/A	N/A	N/A	N/A
S	5600	HEAD	12/22/2025	19.0	19.0	0.05	1057	7661	1558	3.83	82.80	76.60	-7.49%	1.10	23.60	22.00	-6.78%	N/A	N/A	N/A	N/A
S1	5750	HEAD	10/08/2025	21.7																	

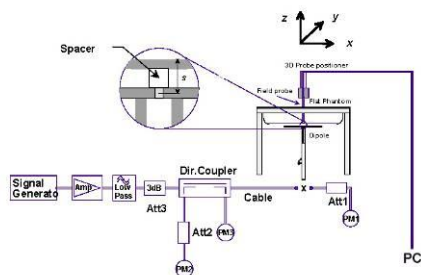


Figure 11-1
System Verification Setup Diagram



Figure 11-2
System Verification Setup Photo

11.3 Power Density Test System Verification

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

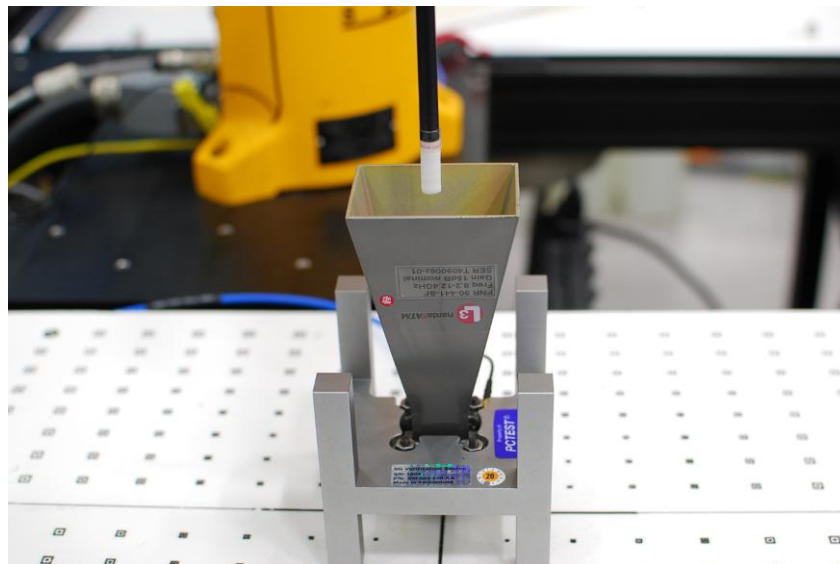


Figure 11-3
System Verification Setup Photo

FCC ID: A3LSMS942B	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
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Table 11-15
10 GHz Verifications

System	Frequency (GHz)	Date	Source S/N	Probe S/N	Prad (mW)	Normal psPD (W/m ² over 4 cm ²)		Deviation (dB)	Total psPD (W/m ² over 4 cm ²)		Deviation (dB)
						Measured	Target		Measured	Target	
N	10	12/23/2025	1002	9421	93.3	49.00	53.80	-0.41	49.10	54.00	-0.41

Note: A **10 mm distance spacing** was used from the reference horn antenna aperture to the probe element.

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12 SAR DATA SUMMARY

12.1 GSM 850 Standalone SAR

Table 12-1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	GSM 850	GSM	A	0257M	1:8.3	0.07	848.80	251	33.0	31.66	Right Cheek	0	0.209	1.361	0.284		29.2	29.2
Head	GSM 850	GSM	A	0257M	1:8.3	0.05	848.80	251	33.0	31.66	Right Tilt	0	0.103	1.361	0.140		32.3	
Head	GSM 850	GSM	A	0260M	1:8.3	0.08	848.80	251	33.0	31.66	Left Cheek	0	0.138	1.361	0.188		31.0	
Head	GSM 850	GSM	A	0260M	1:8.3	-0.06	848.80	251	33.0	31.66	Left Tilt	0	0.106	1.361	0.144		32.2	
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| Plot A1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	GSM 850	GSM	E	0269M	1:8.3	0.04	836.60	190	28.5	26.95	Right Cheek	0	0.405	1.429	0.579		21.6	20.7
Head	GSM 850	GSM	E	0269M	1:8.3	-0.09	836.60	190	28.5	26.95	Right Tilt	0	0.363	1.429	0.519		22.1	
Head	GSM 850	GSM	E	0269M	1:8.3	0.01	836.60	190	28.5	26.95	Left Cheek	0	0.503	1.429	0.719	Plot	20.7	
Head	GSM 850	GSM	E	0269M	1:8.3	0.00	836.60	190	28.5	26.95	Left Tilt	0	0.456	1.429	0.652		21.1	
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 12-3| Plot A2

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	A	0269M	1:2.076	0.14	824.20	128	27.0	25.17	Back	5	0.564	1.524	0.860		24.4	24.3
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	A	0269M	1:2.076	-0.07	836.60	190	27.0	25.31	Back	5	0.595	1.476	0.878	Plot	24.3	
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	A	0269M	1:2.076	-0.02	848.80	251	27.0	25.13	Back	5	0.577	1.538	0.887		24.3	
Hotspot	GPRS 850	GPRS 4 Tx Slots	A	0269M	1:2.076	-0.03	836.60	190	27.0	25.31	Front	5	0.389	1.476	0.427		27.5	
Hotspot	GPRS 850	GPRS 4 Tx Slots	A	0269M	1:2.076	-0.04	836.60	190	27.0	25.31	Bottom	10	0.074	1.476	0.109		33.4	
Hotspot	GPRS 850	GPRS 4 Tx Slots	A	0269M	1:2.076	0.03	836.60	190	27.0	25.31	Right	10	0.166	1.476	0.245		29.9	
Hotspot	GPRS 850	GPRS 4 Tx Slots	A	0269M	1:2.076	-0.12	836.60	190	27.0	25.31	Left	10	0.096	1.476	0.142		32.3	
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 12-4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	E	0269M	1:2.076	0.02	824.20	128	23.0	22.36	Back	5	0.502	1.159	0.582		22.1	22.1
Hotspot	GPRS 850	GPRS 4 Tx Slots	E	0269M	1:2.076	0.06	824.20	128	23.0	22.36	Front	5	0.427	1.159	0.495		22.8	
Hotspot	GPRS 850	GPRS 4 Tx Slots	E	0269M	1:2.076	-0.05	824.20	128	23.0	22.36	Top	10	0.192	1.159	0.223		26.3	
Hotspot	GPRS 850	GPRS 4 Tx Slots	E	0269M	1:2.076	-0.08	824.20	128	23.0	22.36	Right	10	0.197	1.159	0.228		26.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram					

12.2 GSM 1900 Standalone SAR

Table 12-5| Plot A3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	GSM 1900	GSM	A	0260M	1:8.3	0.06	1909.80	810	31.5	31.05	Right Cheek	0	0.042	1.109	0.047		35.6	34.3
Head	GSM 1900	GSM	A	0260M	1:8.3	0.06	1909.80	810	31.5	31.05	Right Tilt	0	0.037	1.109	0.041		36.1	
Head	GSM 1900	GSM	A	0260M	1:8.3	0.04	1909.80	810	31.5	31.05	Left Cheek	0	0.056	1.109	0.062	Plot	34.3	
Head	GSM 1900	GSM	A	0260M	1:8.3	-0.09	1909.80	810	31.5	31.05	Left Tilt	0	0.026	1.109	0.031		37.3	
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 12-6| Plot A4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	GPRS 1900	GPRS 3 Tx Slots	A	0260M	1:2.76	0.01	1909.80	810	22.5	21.10	Back	5	0.396	1.380	0.546	Plot	20.6	20.6
Hotspot	GPRS 1900	GPRS 3 Tx Slots	A	0261M	1:2.76	0.05	1909.80	810	22.5	21.10	Front	5	0.385	1.380	0.531		20.8	
Hotspot	GPRS 1900	GPRS 3 Tx Slots	A	0260M	1:2.76	0.01	1909.80	810	22.5	21.10	Bottom	10	0.394	1.380	0.544		20.7	
Hotspot	GPRS 1900	GPRS 3 Tx Slots	A	0260M	1:2.76	0.02	1909.80	810	22.5	21.10	Right	10	0.027	1.380	0.037		32.3	
Hotspot	GPRS 1900	GPRS 3 Tx Slots	A	0260M	1:2.76	0.04	1909.80	810	22.5	21.10	Left	10	0.042	1.380	0.058		30.4	
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 12-7| Plot A5

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	GPRS 1900	GPRS 3 Tx Slots	A	3278M	1:2.76	-0.04	1909.80	810	22.5	21.10	Bottom	0	0.546	1.380	0.753	Plot	23.2	23.2
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Phablet 4.0 W/kg (mW/g) averaged over 10 grams						

12.3 UMTS 850 Standalone SAR

Table 12-8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 850	RMC	A	0269M	1:1	0.11	846.60	4233	25.5	24.39	Right Cheek	0	0.166	1.291	0.214		32.1	32.1
Head	UMTS 850	RMC	A	0269M	1:1	-0.04	846.60	4233	25.5	24.39	Right Tilt	0	0.087	1.291	0.112		34.9	
Head	UMTS 850	RMC	A	0269M	1:1	-0.02	846.60	4233	25.5	24.39	Left Cheek	0	0.141	1.291	0.182		32.8	
Head	UMTS 850	RMC	A	0269M	1:1	0.00	846.60	4233	25.5	24.39	Left Tilt	0	0.077	1.291	0.099		35.5	
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 12-9| Plot A6

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 850	RMC	E	0269M	1:1	0.00	846.60	4233	20.0	19.12	Right Cheek	0	0.451	1.225	0.552		22.5	22.1
Head	UMTS 850	RMC	E	0269M	1:1	-0.01	846.60	4233	20.0	19.12	Right Tilt	0	0.414	1.225	0.507		22.9	
Head	UMTS 850	RMC	E	0269M	1:1	0.00	846.60	4233	20.0	19.12	Left Cheek	0	0.500	1.225	0.613	Plot	22.1	
Head	UMTS 850	RMC	E	0269M	1:1	0.02	846.60	4233	20.0	19.12	Left Tilt	0	0.484	1.225	0.593		22.2	
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 12-10| Plot A7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	UMTS 850	RMC	A	0269M	1:1	-0.01	826.40	4132	25.5	24.10	Back	5	0.718	1.380	0.991		25.5	24.8
Body-worn/Hotspot	UMTS 850	RMC	A	0269M	1:1	-0.01	836.60	4183	25.5	24.32	Back	5	0.795	1.312	1.043		25.3	
Body-worn/Hotspot	UMTS 850	RMC	A	0269M	1:1	-0.01	846.60	4233	25.5	24.39	Back	5	0.898	1.291	1.159	Plot	24.8	
Hotspot	UMTS 850	RMC	A	0269M	1:1	-0.01	846.60	4233	25.5	24.39	Front	5	0.470	1.291	0.607		27.6	
Hotspot	UMTS 850	RMC	A	0269M	1:1	-0.01	846.60	4233	25.5	24.39	Bottom	10	0.105	1.291	0.136		34.1	
Hotspot	UMTS 850	RMC	A	0269M	1:1	0.01	846.60	4233	25.5	24.39	Right	10	0.142	1.291	0.183		32.8	
Hotspot	UMTS 850	RMC	A	0269M	1:1	0.00	846.60	4233	25.5	24.39	Left	10	0.131	1.291	0.169		33.2	
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 12-11

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	UMTS 850	RMC	E	0269M	1:1	-0.01	846.60	4233	20.0	19.12	Back	5	0.483	1.225	0.592		22.2	22.2
Hotspot	UMTS 850	RMC	E	0269M	1:1	-0.01	846.60	4233	20.0	19.12	Front	5	0.411	1.225	0.503		22.9	
Hotspot	UMTS 850	RMC	E	0269M	1:1	0.03	846.60	4233	20.0	19.12	Top	10	0.173	1.225	0.212		26.7	
Hotspot	UMTS 850	RMC	E	0269M	1:1	0.05	846.60	4233	20.0	19.12	Right	10	0.165	1.225	0.202		26.9	
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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12.4 UMTS 1750 Standalone SAR

Table 12-12

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 1750	RMC	A	0286M	1:1	0.03	1752.60	1513	24.0	22.86	Right Cheek	0	0.075	1.300	0.098		34.1	30.8
Head	UMTS 1750	RMC	A	0286M	1:1	0.06	1752.60	1513	24.0	22.86	Right Tilt	0	0.055	1.300	0.072		35.4	
Head	UMTS 1750	RMC	A	3272M	1:1	-0.17	1752.60	1513	24.0	22.86	Left Cheek	0	0.160	1.300	0.208		30.8	
Head	UMTS 1750	RMC	A	0286M	1:1	0.09	1752.60	1513	24.0	22.86	Left Tilt	0	0.040	1.300	0.052		36.8	
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 12-13| Plot A8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Head	UMTS 1750	RMC	F	0281M	1:1	0.01	1752.60	1513	18.5	18.48	Right Cheek	0	0.596	1.005	0.599		20.7	19.0	
Head	UMTS 1750	RMC	F	0281M	1:1	-0.02	1712.40	1312	18.5	18.24	Right Tilt	0	0.794	1.062	0.843		19.2		
Head	UMTS 1750	RMC	F	0281M	1:1	0.06	1732.40	1412	18.5	18.29	Right Tilt	0	0.714	1.050	0.750		19.7		
Head	UMTS 1750	RMC	F	0281M	1:1	-0.01	1752.60	1513	18.5	18.48	Right Tilt	0	0.881	1.005	0.885	Plot	19.0		
Head	UMTS 1750	RMC	F	0281M	1:1	-0.02	1752.60	1513	18.5	18.48	Right Tilt	0	0.814	1.005	0.818		19.3		
Head	UMTS 1750	RMC	F	0281M	1:1	0.00	1752.60	1513	18.5	18.48	Left Cheek	0	0.381	1.005	0.383		22.6		
Head	UMTS 1750	RMC	F	0281M	1:1	-0.03	1752.60	1513	18.5	18.48	Left Tilt	0	0.578	1.005	0.581		20.8		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Head		1.6 W/kg (mW/g)					
Spatial Peak																			
Uncontrolled Exposure/General Population														averaged over 1 gram					

Table 12-14

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	UMTS 1750	RMC	A	3272M	1:1	0.00	1752.60	1513	18.0	16.63	Back	5	0.537	1.371	0.736		19.3	19.3
Hotspot	UMTS 1750	RMC	A	3272M	1:1	-0.02	1752.60	1513	18.0	16.63	Front	5	0.506	1.371	0.694		19.5	
Hotspot	UMTS 1750	RMC	A	3272M	1:1	0.03	1752.60	1513	18.0	16.63	Bottom	10	0.384	1.371	0.526		20.7	
Hotspot	UMTS 1750	RMC	A	0286M	1:1	-0.05	1752.60	1513	18.0	16.63	Right	10	0.026	1.371	0.036		32.4	
Hotspot	UMTS 1750	RMC	A	0286M	1:1	-0.04	1752.60	1513	18.0	16.63	Left	10	0.064	1.371	0.088		28.5	
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 12-15| Plot A9

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overa Plimit [dBm]
Body-worn/Hotspot	UMTS 1750	RMC	F	3272M	1:1	-0.01	1752.60	1513	18.5	18.48	Back	5	0.598	1.005	0.601	Plot	20.7	20.7
Hotspot	UMTS 1750	RMC	F	3272M	1:1	-0.03	1752.60	1513	18.5	18.48	Front	5	0.428	1.005	0.430		22.1	
Hotspot	UMTS 1750	RMC	F	0281M	1:1	-0.03	1752.60	1513	18.5	18.48	Top	10	0.265	1.005	0.266		24.2	
Hotspot	UMTS 1750	RMC	F	0281M	1:1	-0.16	1752.60	1513	18.5	18.48	Left	10	0.031	1.005	0.031		33.5	
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 12-16| Plot A10

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	UMTS 1750	RMC	A	3278M	1:1	0.04	1752.60	1513	18.0	16.63	Bottom	0	0.592	1.371	0.812	Plot	22.8	22.8
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Phablet 4.0 W/kg (mW/g) averaged over 10 grams						

12.5 UMTS 1900 Standalone SAR

Table 12-17| Plot A11

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 1900	RMC	A	0286M	1:1	0.01	1880.00	9400	24.5	23.55	Right Cheek	0	0.094	1.245	0.117		33.8	31.2
Head	UMTS 1900	RMC	A	0286M	1:1	0.01	1880.00	9400	24.5	23.55	Right Tilt	0	0.065	1.245	0.081		35.4	
Head	UMTS 1900	RMC	A	0286M	1:1	0.03	1880.00	9400	24.5	23.55	Left Cheek	0	0.169	1.245	0.210	Plot	31.2	
Head	UMTS 1900	RMC	A	0286M	1:1	0.10	1880.00	9400	24.5	23.55	Left Tilt	0	0.051	1.245	0.063		36.4	
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 12-18| Plot A12, A13

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	UMTS 1900	RMC	A	0281M	1:1	0.08	1907.60	9538	17.5	16.81	Back	5	0.465	1.172	0.545	Plot	20.1	18.6
Hotspot	UMTS 1900	RMC	A	0281M	1:1	-0.14	1907.60	9538	17.5	16.81	Front	5	0.649	1.172	0.761	Plot	18.6	
Hotspot	UMTS 1900	RMC	A	0281M	1:1	-0.02	1907.60	9538	17.5	16.81	Bottom	10	0.473	1.172	0.554		20.0	
Hotspot	UMTS 1900	RMC	A	0281M	1:1	0.02	1907.60	9538	17.5	16.81	Right	10	0.042	1.172	0.049		30.5	
Hotspot	UMTS 1900	RMC	A	0281M	1:1	0.06	1907.60	9538	17.5	16.81	Left	10	0.042	1.172	0.049		30.5	
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 12-19| Plot A14

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	UMTS 1900	RMC	A	0281M	1:1	0.00	1907.60	9538	17.5	16.81	Bottom	0	0.657	1.172	0.770	Plot	22.6	22.6
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Phablet 4.0 W/kg (mW/g) averaged over 10 grams						

12.6 LTE Band 12 Standalone SAR

Table 12-20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 12	10	QPSK	A	0281M	1:1	0.06	707.50	23095	0.0	25.0	23.91	1	0	Right Cheek	0	0.134	1.285	0.172		32.6	32.5
Head	LTE Band 12	10	QPSK	A	0281M	1:1	-0.02	707.50	23095	1.0	24.0	22.82	25	0	Right Cheek	0	0.107	1.312	0.140		32.5	
Head	LTE Band 12	10	QPSK	A	0281M	1:1	0.07	707.50	23095	0.0	25.0	23.91	1	0	Right Tilt	0	0.093	1.285	0.120		34.2	
Head	LTE Band 12	10	QPSK	A	0281M	1:1	-0.01	707.50	23095	1.0	24.0	22.82	25	0	Right Tilt	0	0.068	1.312	0.089		34.4	
Head	LTE Band 12	10	QPSK	A	0281M	1:1	-0.04	707.50	23095	0.0	25.0	23.91	1	0	Left Cheek	0	0.115	1.285	0.148		33.3	
Head	LTE Band 12	10	QPSK	A	0281M	1:1	-0.03	707.50	23095	1.0	24.0	22.82	25	0	Left Cheek	0	0.094	1.312	0.123		33.0	
Head	LTE Band 12	10	QPSK	A	0281M	1:1	-0.11	707.50	23095	0.0	25.0	23.91	1	0	Left Tilt	0	0.067	1.285	0.086		35.6	
Head	LTE Band 12	10	QPSK	A	0281M	1:1	0.01	707.50	23095	1.0	24.0	22.82	25	0	Left Tilt	0	0.055	1.312	0.072		35.4	
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 12-21| Plot A15

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 12	10	QPSK	E	0286M	1:1	0.01	707.50	23095	0.0	20.5	20.18	1	0	Right Cheek	0	0.347	1.076	0.373		24.7	22.8
Head	LTE Band 12	10	QPSK	E	0286M	1:1	-0.01	707.50	23095	0.0	20.5	20.18	25	0	Right Cheek	0	0.372	1.076	0.400		24.4	
Head	LTE Band 12	10	QPSK	E	0286M	1:1	-0.03	707.50	23095	0.0	20.5	20.18	1	0	Right Tilt	0	0.290	1.076	0.312		25.5	
Head	LTE Band 12	10	QPSK	E	0286M	1:1	0.00	707.50	23095	0.0	20.5	20.18	25	0	Right Tilt	0	0.306	1.076	0.329		25.3	
Head	LTE Band 12	10	QPSK	E	0286M	1:1	-0.03	707.50	23095	0.0	20.5	20.18	1	0	Left Cheek	0	0.512	1.076	0.551		22.0	
Head	LTE Band 12	10	QPSK	E	0286M	1:1	0.06	707.50	23095	0.0	20.5	20.18	25	0	Left Cheek	0	0.536	1.076	0.577	Plot	22.8	
Head	LTE Band 12	10	QPSK	E	0286M	1:1	0.00	707.50	23095	0.0	20.5	20.18	1	0	Left Tilt	0	0.387	1.076	0.416		24.3	
Head	LTE Band 12	10	QPSK	E	0286M	1:1	0.01	707.50	23095	0.0	20.5	20.18	25	0	Left Tilt	0	0.407	1.076	0.438		24.0	
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 12-22| Plot A16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0281M	1:1	-0.04	707.50	23095	0.0	25.0	23.91	1	0	Back	5	0.654	1.285	0.840	Plot	25.7	25.4
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0281M	1:1	0.07	707.50	23095	1.0	24.0	22.82	25	0	Back	5	0.528	1.312	0.693		25.5	
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0281M	1:1	0.00	707.50	23095	1.0	24.0	22.80	50	0	Back	5	0.548	1.318	0.722		25.4	
Hotspot	LTE Band 12	10	QPSK	A	0281M	1:1	-0.01	707.50	23095	0.0	25.0	23.91	1	0	Front	5	0.348	1.285	0.447		28.4	
Hotspot	LTE Band 12	10	QPSK	A	0281M	1:1	0.00	707.50	23095	1.0	24.0	22.82	25	0	Front	5	0.242	1.312	0.318		28.9	
Hotspot	LTE Band 12	10	QPSK	A	0281M	1:1	0.16	707.50	23095	0.0	25.0	23.91	1	0	Bottom	10	0.056	1.285	0.072		36.4	
Hotspot	LTE Band 12	10	QPSK	A	0281M	1:1	0.03	707.50	23095	1.0	24.0	22.82	25	0	Bottom	10	0.044	1.312	0.058		36.3	
Hotspot	LTE Band 12	10	QPSK	A	0281M	1:1	0.00	707.50	23095	0.0	25.0	23.91	1	0	Right	10	0.140	1.285	0.180		32.4	
Hotspot	LTE Band 12	10	QPSK	A	0281M	1:1	0.03	707.50	23095	1.0	24.0	22.82	25	0	Right	10	0.103	1.312	0.133		32.7	
Hotspot	LTE Band 12	10	QPSK	A	0281M	1:1	0.00	707.50	23095	0.0	25.0	23.91	1	0	Left	10	0.254	1.285	0.326		29.8	
Hotspot	LTE Band 12	10	QPSK	A	0281M	1:1	-0.03	707.50	23095	1.0	24.0	22.82	25	0	Left	10	0.187	1.312	0.245		30.1	
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 12-23

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	3274M	1:1	0.05	707.50	23095	0.0	20.5	20.18	1	0	Back	5	0.596	1.076	0.641		22.4	
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	3274M	1:1	-0.01	707.50	23095	0.0	20.5	20.18	25	0	Back	5	0.609	1.076	0.655		22.3	
Hotspot	LTE Band 12	10	QPSK	E	3274M	1:1	0.05	707.50	23095	0.0	20.5	20.18	1	0	Front	5	0.447	1.076	0.481		23.6	
Hotspot	LTE Band 12	10	QPSK	E	3274M	1:1	-0.13	707.50	23095	0.0	20.5	20.18	25	0	Front	5	0.463	1.076	0.498		23.5	
Hotspot	LTE Band 12	10	QPSK	E	3274M	1:1	-0.01	707.50	23095	0.0	20.5	20.18	1	0	Top	10	0.186	1.076	0.200		27.4	
Hotspot	LTE Band 12	10	QPSK	E	3274M	1:1	-0.01	707.50	23095	0.0	20.5	20.18	25	0	Top	10	0.203	1.076	0.214		27.1	
Hotspot	LTE Band 12	10	QPSK	E	3274M	1:1	-0.02	707.50	23095	0.0	20.5	20.18	1	0	Right	10	0.204	1.076	0.220		27.0	
Hotspot	LTE Band 12	10	QPSK	E	3274M	1:1	0.01	707.50	23095	0.0	20.5	20.18	25	0	Right	10	0.221	1.076	0.238		26.7	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.7 LTE Band 13 Standalone SAR

Table 12-24

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 13	10	QPSK	A	0281M	1:1	0.09	782.00	23230	0.0	25.0	24.21	1	0	Right Cheek	0	0.157	1.199	0.188		32.2	
Head	LTE Band 13	10	QPSK	A	0281M	1:1	-0.03	782.00	23230	1.0	24.0	22.61	25	0	Right Cheek	0	0.109	1.377	0.150		32.2	
Head	LTE Band 13	10	QPSK	A	0281M	1:1	-0.09	782.00	23230	0.0	25.0	24.21	1	0	Right Tilt	0	0.111	1.199	0.133		33.7	
Head	LTE Band 13	10	QPSK	A	0281M	1:1	0.01	782.00	23230	1.0	24.0	22.61	25	0	Right Tilt	0	0.074	1.377	0.102		33.9	
Head	LTE Band 13	10	QPSK	A	0281M	1:1	-0.01	782.00	23230	0.0	25.0	24.21	1	0	Left Cheek	0	0.174	1.199	0.209		31.8	
Head	LTE Band 13	10	QPSK	A	0281M	1:1	-0.02	782.00	23230	1.0	24.0	22.61	25	0	Left Cheek	0	0.113	1.377	0.156		32.0	
Head	LTE Band 13	10	QPSK	A	0281M	1:1	-0.09	782.00	23230	0.0	25.0	24.21	1	0	Left Tilt	0	0.104	1.199	0.125		34.0	
Head	LTE Band 13	10	QPSK	A	0281M	1:1	0.00	782.00	23230	1.0	24.0	22.61	25	0	Left Tilt	0	0.077	1.377	0.106		33.7	
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 12-25| Plot A17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 13	10	QPSK	E	0286M	1:1	0.00	782.00	23230	0.0	20.0	18.30	1	25	Right Cheek	0	0.458	1.479	0.677		21.6	
Head	LTE Band 13	10	QPSK	E	0286M	1:1	-0.01	782.00	23230	0.0	20.0	18.33	25	0	Right Cheek	0	0.473	1.469	0.695		21.5	
Head	LTE Band 13	10	QPSK	E	0286M	1:1	-0.01	782.00	23230	0.0	20.0	18.30	1	25	Right Tilt	0	0.389	1.479	0.575		22.4	
Head	LTE Band 13	10	QPSK	E	0286M	1:1	0.03	782.00	23230	0.0	20.0	18.33	25	0	Right Tilt	0	0.404	1.469	0.593		22.2	
Head	LTE Band 13	10	QPSK	E	0286M	1:1	0.00	782.00	23230	0.0	20.0	18.30	1	25	Left Cheek	0	0.456	1.479	0.674		21.7	
Head	LTE Band 13	10	QPSK	E	0286M	1:1	-0.02	782.00	23230	0.0	20.0	18.33	25	0	Left Cheek	0	0.486	1.469	0.714	Plot	21.4	
Head	LTE Band 13	10	QPSK	E	0286M	1:1	-0.02	782.00	23230	0.0	20.0	18.30	1	25	Left Tilt	0	0.421	1.479	0.623		22.0	
Head	LTE Band 13	10	QPSK	E	0286M	1:1	0.00	782.00	23230	0.0	20.0	18.33	25	0	Left Tilt	0	0.445	1.469	0.654		21.8	
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 12-26| Plot A18

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	0281M	1:1	-0.10	782.00	23230	0.0	25.0	24.21	1	0	Back	5	0.587	1.199	0.704	Plot	26.5	
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	0281M	1:1	-0.01	782.00	23230	1.0	24.0	22.61	25	0	Back	5	0.420	1.377	0.578		26.3	
Hotspot	LTE Band 13	10	QPSK	A	0281M	1:1	0.00	782.00	23230	0.0	25.0	24.21	1	0	Front	5	0.288	1.199	0.345		29.6	
Hotspot	LTE Band 13	10	QPSK	A	0281M	1:1	0.00	782.00	23230	1.0	24.0	22.61	25	0	Front	5	0.216	1.377	0.297		29.2	
Hotspot	LTE Band 13	10	QPSK	A	0281M	1:1	0.08	782.00	23230	0.0	25.0	24.21	1	0	Bottom	10	0.042	1.199	0.050		37.9	
Hotspot	LTE Band 13	10	QPSK	A	0281M	1:1	-0.07	782.00	23230	1.0	24.0	22.61	25	0	Bottom	10	0.029	1.377	0.040		37.9	
Hotspot	LTE Band 13	10	QPSK	A	0281M	1:1	-0.05	782.00	23230	0.0	25.0	24.21	1	0	Right	10	0.183	1.199	0.219		31.5	
Hotspot	LTE Band 13	10	QPSK	A	0281M	1:1	-0.08	782.00	23230	1.0	24.0	22.61	25	0	Right	10	0.135	1.377	0.188		31.3	
Hotspot	LTE Band 13	10	QPSK	A	0281M	1:1	-0.02	782.00	23230	0.0	25.0	24.21	1	0	Left	10	0.241	1.199	0.289		30.3	
Hotspot	LTE Band 13	10	QPSK	A	0281M	1:1	-0.05	782.00	23230	1.0	24.0	22.61	25	0	Left	10	0.170	1.377	0.246		30.0	
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 12-27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 13	10	QPSK	E	3386M	1:1	-0.03	782.00	23230	0.0	20.0	18.30	1	25	Back	5	0.242	1.479	0.358		24.4	
Body-worn/Hotspot	LTE Band 13	10	QPSK	E	3386M	1:1	-0.10	782.00	23230	0.0	20.0	18.33	25	0	Back	5	0.256	1.469	0.376		24.2	
Hotspot	LTE Band 13	10	QPSK	E	3386M	1:1	-0.01	782.00	23230	0.0	20.0	18.30	1	25	Front	5	0.226	1.479	0.334		24.7	
Hotspot	LTE Band 13	10	QPSK	E	3386M	1:1	-0.09	782.00	23230	0.0	20.0	18.33	25	0	Front	5	0.226	1.469	0.332		24.7	
Hotspot	LTE Band 13	10	QPSK	E	3386M	1:1	-0.06	782.00	23230	0.0	20.0	18.30	1	25	Top	10	0.102	1.479	0.151		28.2	
Hotspot	LTE Band 13	10	QPSK	E	3386M	1:1	-0.06	782.00	23230	0.0	20.0	18.33	25	0	Top	10	0.115	1.469	0.169		27.7	
Hotspot	LTE Band 13	10	QPSK	E	3386M	1:1	0.02	782.00	23230	0.0	20.0	18.30	1	25	Right	10	0.106	1.479	0.157		28.0	
Hotspot	LTE Band 13	10	QPSK	E	3386M	1:1	0.03	782.00	23230	0.0	20.0	18.33	25	0	Right	10	0.102	1.469	0.150		28.2	
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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12.8 LTE Band 26 (Cell) Standalone SAR

Table 12-28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 26	15	QPSK	A	0281M	1:1	0.02	831.50	26865	0.0	24.0	23.40	1	74	Right Cheek	0	0.191	1.148	0.219		30.5	30.5
Head	LTE Band 26	15	QPSK	A	0281M	1:1	0.01	831.50	26865	1.0	23.0	22.34	36	37	Right Cheek	0	0.144	1.164	0.168		30.7	
Head	LTE Band 26	15	QPSK	A	0281M	1:1	-0.07	831.50	26865	0.0	24.0	23.40	1	74	Right Tilt	0	0.113	1.148	0.130		32.8	
Head	LTE Band 26	15	QPSK	A	0281M	1:1	-0.04	831.50	26865	1.0	23.0	22.34	36	37	Right Tilt	0	0.084	1.164	0.098		33.0	
Head	LTE Band 26	15	QPSK	A	0281M	1:1	-0.11	831.50	26865	0.0	24.0	23.40	1	74	Left Cheek	0	0.143	1.148	0.164		31.8	
Head	LTE Band 26	15	QPSK	A	0281M	1:1	-0.02	831.50	26865	1.0	23.0	22.34	36	37	Left Cheek	0	0.121	1.164	0.141		31.5	
Head	LTE Band 26	15	QPSK	A	0281M	1:1	-0.01	831.50	26865	0.0	24.0	23.40	1	74	Left Tilt	0	0.079	1.148	0.091		34.4	
Head	LTE Band 26	15	QPSK	A	0281M	1:1	0.02	831.50	26865	1.0	23.0	22.34	36	37	Left Tilt	0	0.067	1.164	0.078		34.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-29| Plot A19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 26	15	QPSK	E	0286M	1:1	0.05	831.50	26865	0.0	19.0	18.88	1	74	Right Cheek	0	0.576	1.028	0.592		21.2	20.9
Head	LTE Band 26	15	QPSK	E	0286M	1:1	-0.03	831.50	26865	0.0	19.0	18.88	36	0	Right Cheek	0	0.588	1.028	0.604		21.1	
Head	LTE Band 26	15	QPSK	E	0286M	1:1	-0.02	831.50	26865	0.0	19.0	18.88	1	74	Right Tilt	0	0.454	1.028	0.467		22.3	
Head	LTE Band 26	15	QPSK	E	0286M	1:1	-0.01	831.50	26865	0.0	19.0	18.88	36	0	Right Tilt	0	0.496	1.028	0.510		21.9	
Head	LTE Band 26	15	QPSK	E	0286M	1:1	-0.01	831.50	26865	0.0	19.0	18.88	1	74	Left Cheek	0	0.585	1.028	0.601		21.2	
Head	LTE Band 26	15	QPSK	E	0286M	1:1	0.01	831.50	26865	0.0	19.0	18.88	36	0	Left Cheek	0	0.623	1.028	0.640		20.9	
Head	LTE Band 26	15	QPSK	E	0286M	1:1	0.01	831.50	26865	0.0	19.0	18.88	1	74	Left Tilt	0	0.586	1.028	0.602		21.2	
Head	LTE Band 26	15	QPSK	E	0286M	1:1	0.01	831.50	26865	0.0	19.0	18.88	36	0	Left Tilt	0	0.624	1.028	0.641	Plot	20.9	
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 12-30| Plot A20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	0281M	1:1	0.00	831.50	26865	0.0	24.0	23.40	1	74	Back	5	0.961	1.148	1.103	Plot	23.5	23.5
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	0281M	1:1	0.07	831.50	26865	0.0	24.0	23.40	1	74	Back	5	0.915	1.148	1.063		23.7	
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	0281M	1:1	0.08	831.50	26865	1.0	23.0	22.34	36	37	Back	5	0.739	1.164	0.860		23.6	
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	0281M	1:1	0.00	831.50	26865	1.0	23.0	22.25	75	0	Back	5	0.731	1.189	0.869		23.6	
Hotspot	LTE Band 26	15	QPSK	A	0281M	1:1	0.03	831.50	26865	0.0	24.0	23.40	1	74	Front	5	0.485	1.148	0.557		26.5	
Hotspot	LTE Band 26	15	QPSK	A	0281M	1:1	-0.02	831.50	26865	1.0	23.0	22.34	36	37	Front	5	0.395	1.164	0.460		26.3	
Hotspot	LTE Band 26	15	QPSK	A	0281M	1:1	-0.03	831.50	26865	0.0	24.0	23.40	1	74	Bottom	10	0.129	1.148	0.148		32.2	
Hotspot	LTE Band 26	15	QPSK	A	0281M	1:1	0.04	831.50	26865	1.0	23.0	22.34	36	37	Bottom	10	0.102	1.164	0.119		32.2	
Hotspot	LTE Band 26	15	QPSK	A	0281M	1:1	0.00	831.50	26865	0.0	24.0	23.40	1	74	Right	10	0.201	1.148	0.231		30.3	
Hotspot	LTE Band 26	15	QPSK	A	0281M	1:1	0.03	831.50	26865	1.0	23.0	22.34	36	37	Right	10	0.165	1.164	0.192		30.1	
Hotspot	LTE Band 26	15	QPSK	A	0281M	1:1	-0.05	831.50	26865	0.0	24.0	23.40	1	74	Left	10	0.181	1.148	0.208		30.8	
Hotspot	LTE Band 26	15	QPSK	A	0281M	1:1	0.00	831.50	26865	1.0	23.0	22.34	36	37	Left	10	0.133	1.164	0.155		31.1	
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: Blue entry represents variability measurement

Table 12-31

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 26	15	QPSK	E	0286M	1:1	-0.05	831.50	26865	0.0	19.0	18.88	1	74	Back	5	0.572	1.028	0.588		21.3	20.7
Body-worn/Hotspot	LTE Band 26	15	QPSK	E	0286M	1:1	-0.07	831.50	26865	0.0	19.0	18.88	36	0	Back	5	0.548	1.028	0.563		21.4	
Hotspot	LTE Band 26	15	QPSK	E	0286M	1:1	-0.03	831.50	26865	0.0	19.0	18.88	1	74	Front	5	0.648	1.028	0.666		20.7	
Hotspot	LTE Band 26	15	QPSK	E	0286M	1:1	-0.01	831.50	26865	0.0	19.0	18.88	36	0	Front	5	0.614	1.028	0.631		20.9	
Hotspot	LTE Band 26	15	QPSK	E	0286M	1:1	0.01	831.50	26865	0.0	19.0	18.88	1	74	Top	10	0.377	1.028	0.388		23.1	
Hotspot	LTE Band 26	15	QPSK	E	0286M	1:1	0.01	831.50	26865	0.0	19.0	18.88	36	0	Top	10	0.352	1.028	0.362		23.4	
Hotspot	LTE Band 26	15	QPSK	E	0286M	1:1	0.02	831.50	26865	0.0	19.0	18.88	1	74	Right	10	0.212	1.028	0.218		25.6	
Hotspot	LTE Band 26	15	QPSK	E	0286M	1:1	0.01	831.50	26865	0.0	19.0	18.88	36	0	Right	10	0.189	1.028	0.194		26.1	
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 12-32| Plot A21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	LTE Band 26	15	QPSK	E	0281M	1:1	0.07	831.50	26865	0.0	19.0	18.87	1	74	Top	0	0.512	1.030	0.527	Plot	25.7	25.7
Phablet	LTE Band 26	15	QPSK	E	0281M	1:1	0.03	831.50	26865	0.0	19.0	18.88	36	0	Top	0	0.473	1.028	0.486		26.1	
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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12.9 LTE Band 66 (AWS) Standalone SAR

Table 12-33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 66	20	QPSK	A	3386M	1:1	0.01	1745.00	132322	0.0	24.5	23.37	1	99	Right Cheek	0	0.609	1.297	0.134		33.2	31.0
Head	LTE Band 66	20	QPSK	A	3386M	1:1	0.05	1745.00	132322	1.0	23.5	22.48	50	50	Right Cheek	0	0.072	1.265	0.091		33.9	
Head	LTE Band 66	20	QPSK	A	3386M	1:1	0.04	1745.00	132322	0.0	24.5	23.37	1	99	Right Tilt	0	0.064	1.297	0.083		35.3	
Head	LTE Band 66	20	QPSK	A	3386M	1:1	0.05	1745.00	132322	1.0	23.5	22.48	50	50	Right Tilt	0	0.054	1.265	0.068		35.1	
Head	LTE Band 66	20	QPSK	A	3386M	1:1	0.20	1745.00	132322	0.0	24.5	23.37	1	99	Left Cheek	0	0.171	1.297	0.232		31.0	
Head	LTE Band 66	20	QPSK	A	3386M	1:1	0.03	1745.00	132322	1.0	23.5	22.48	50	50	Left Cheek	0	0.134	1.265	0.170		31.2	
Head	LTE Band 66	20	QPSK	A	3386M	1:1	0.04	1745.00	132322	0.0	24.5	23.37	1	99	Left Tilt	0	0.034	1.297	0.044		38.0	
Head	LTE Band 66	20	QPSK	A	3386M	1:1	0.15	1745.00	132322	1.0	23.5	22.48	50	50	Left Tilt	0	0.030	1.265	0.038		37.7	
ANS/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-34| Plot A22

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 66	20	QPSK	F	3386M	1:1	-0.06	1745.00	132322	0.0	16.5	16.24	1	99	Right Cheek	0	0.618	1.062	0.656		18.3	17.9
Head	LTE Band 66	20	QPSK	F	3386M	1:1	0.02	1745.00	132322	0.0	16.5	16.22	50	50	Right Cheek	0	0.619	1.067	0.660		18.3	
Head	LTE Band 66	20	QPSK	F	3386M	1:1	0.01	1745.00	132322	0.0	16.5	16.24	1	99	Right Tilt	0	0.673	1.062	0.713	Plot	17.9	
Head	LTE Band 66	20	QPSK	F	3386M	1:1	0.00	1745.00	132322	0.0	16.5	16.22	50	50	Right Tilt	0	0.668	1.067	0.713		17.9	
Head	LTE Band 66	20	QPSK	F	3386M	1:1	-0.13	1745.00	132322	0.0	16.5	16.24	1	99	Left Cheek	0	0.416	1.062	0.442		20.0	
Head	LTE Band 66	20	QPSK	F	3386M	1:1	-0.15	1745.00	132322	0.0	16.5	16.22	50	50	Left Cheek	0	0.444	1.067	0.474		19.7	
Head	LTE Band 66	20	QPSK	F	3386M	1:1	-0.14	1745.00	132322	0.0	16.5	16.24	1	99	Left Tilt	0	0.582	1.062	0.618		18.5	
Head	LTE Band 66	20	QPSK	F	3386M	1:1	0.09	1745.00	132322	0.0	16.5	16.22	50	50	Left Tilt	0	0.572	1.067	0.610		18.6	
ANS/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0257M	1:1	-0.21	1745.00	132322	0.0	18.5	17.09	1	50	Back	5	0.371	1.384	0.513		21.3	20.4
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0257M	1:1	0.02	1745.00	132322	0.0	18.5	17.14	50	50	Back	5	0.388	1.368	0.531		21.2	
Hotspot	LTE Band 66	20	QPSK	A	0257M	1:1	-0.06	1745.00	132322	0.0	18.5	17.09	1	50	Front	5	0.462	1.384	0.639		20.4	
Hotspot	LTE Band 66	20	QPSK	A	0257M	1:1	0.09	1745.00	132322	0.0	18.5	17.14	50	50	Front	5	0.440	1.368	0.602		20.7	
Hotspot	LTE Band 66	20	QPSK	A	0257M	1:1	-0.17	1745.00	132322	0.0	18.5	17.09	1	50	Bottom	10	0.308	1.384	0.426		22.2	
Hotspot	LTE Band 66	20	QPSK	A	0257M	1:1	-0.18	1745.00	132322	0.0	18.5	17.14	50	50	Bottom	10	0.245	1.368	0.335		23.2	
Hotspot	LTE Band 66	20	QPSK	A	0257M	1:1	0.07	1745.00	132322	0.0	18.5	17.09	1	50	Right	10	0.019	1.384	0.026		34.3	
Hotspot	LTE Band 66	20	QPSK	A	0257M	1:1	-0.12	1745.00	132322	0.0	18.5	17.14	50	50	Right	10	0.019	1.368	0.026		34.3	
Hotspot	LTE Band 66	20	QPSK	A	0257M	1:1	0.05	1745.00	132322	0.0	18.5	17.09	1	50	Left	10	0.045	1.384	0.062		30.5	
Hotspot	LTE Band 66	20	QPSK	A	0257M	1:1	0.09	1745.00	132322	0.0	18.5	17.14	50	50	Left	10	0.046	1.368	0.063		30.5	
ANS/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-36| Plot A23

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 66	20	QPSK	F	0257M	1:1	-0.10	1770.00	132572	0.0	19.0	18.64	1	0	Back	5	0.454	1.086	0.493		22.0	21.3
Body-worn/Hotspot	LTE Band 66	20	QPSK	F	0257M	1:1	-0.06	1770.00	132572	0.0	19.0	18.55	50	0	Back	5	0.520	1.109	0.577	Plot	21.3	
Hotspot	LTE Band 66	20	QPSK	F	0257M	1:1	0.02	1770.00	132572	0.0	19.0	18.64	1	0	Front	5	0.407	1.086	0.442		22.5	
Hotspot	LTE Band 66	20	QPSK	F	0257M	1:1	0.04	1770.00	132572	0.0	19.0	18.55	50	0	Front	5	0.462	1.109	0.512		21.9	
Hotspot	LTE Band 66	20	QPSK	F	0204M	1:1	0.01	1770.00	132572	0.0	19.0	18.64	1	0	Top	10	0.260	1.086	0.291		23.0	
Hotspot	LTE Band 66	20	QPSK	F	0204M	1:1	0.03	1770.00	132572	0.0	19.0	18.55	50	0	Top	10	0.383	1.109	0.425		22.7	
Hotspot	LTE Band 66	20	QPSK	F	0204M	1:1	0.02	1770.00	132572	0.0	19.0	18.64	1	0	Left	10	0.052	1.086	0.056		31.4	
Hotspot	LTE Band 66	20	QPSK	F	0204M	1:1	0.08	1770.00	132572	0.0	19.0	18.55	50	0	Left	10	0.051	1.109	0.057		31.4	
ANS/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-37

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	LTE Band 66	20	QPSK	A	0722M	1:1	0.01	1745.00	132322	0.0	18.5	17.09	1	50	Bottom	0	0.806	1.384	1.116		22.0	21.9
Phablet	LTE Band 66	20	QPSK	A	0722M	1:1	0.01	1745.00	132322	0.0	18.5	17.14	50	50	Bottom	0	0.819	1.368	1.120		21.9	
ANS/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Phablet 4.0 W/kg (mW/g) averaged over 10 grams						

Table 12-38| Plot A24

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	LTE Band 66	20	QPSK	F	0281M	1:1	0.07	1770.00	132572	0.0	19.0	18.64	1	0	Top	0	1.170	1.086	1.271	Plot	21.9	21.8
Phablet	LTE Band 66	20	QPSK	F	0281M	1:1	0.02	1770.00	132572	0.0	19.0	18.55	50	0	Top	0	1.160	1.109	1.286		21.8	
ANS/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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12.10 LTE Band 25 (PCS) Standalone SAR

Table 12-39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 25	20	QPSK	A	0260M	1:1	0.09	1882.50	26365	0.0	24.0	22.70	1	0	Right Cheek	0	0.077	1.349	0.104		33.8	30.8
Head	LTE Band 25	20	QPSK	A	0260M	1:1	0.12	1882.50	26365	1.0	23.0	21.68	50	0	Right Cheek	0	0.063	1.355	0.085		33.6	
Head	LTE Band 25	20	QPSK	A	0260M	1:1	0.01	1882.50	26365	0.0	24.0	22.70	1	0	Right Tit	0	0.054	1.349	0.073		35.3	
Head	LTE Band 25	20	QPSK	A	0260M	1:1	-0.07	1882.50	26365	1.0	23.0	21.68	50	0	Right Tit	0	0.043	1.355	0.058		35.3	
Head	LTE Band 25	20	QPSK	A	0257M	1:1	0.01	1882.50	26365	0.0	24.0	22.70	1	0	Left Cheek	0	0.152	1.349	0.205		30.8	
Head	LTE Band 25	20	QPSK	A	0257M	1:1	0.05	1882.50	26365	1.0	23.0	21.68	50	0	Left Cheek	0	0.122	1.355	0.165		30.8	
Head	LTE Band 25	20	QPSK	A	0260M	1:1	0.12	1882.50	26365	0.0	24.0	22.70	1	0	Left Tit	0	0.057	1.349	0.077		35.1	
Head	LTE Band 25	20	QPSK	A	0260M	1:1	0.08	1882.50	26365	1.0	23.0	21.68	50	0	Left Tit	0	0.044	1.355	0.060		35.2	
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 12-40| Plot A25

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 25	20	QPSK	F	3386M	1:1	0.01	1905.00	26590	0.0	17.5	17.46	1	99	Right Cheek	0	0.707	1.009	0.713		18.9	18.5
Head	LTE Band 25	20	QPSK	F	3386M	1:1	0.03	1905.00	26590	0.0	17.5	17.48	50	25	Right Cheek	0	0.725	1.005	0.729		18.8	
Head	LTE Band 25	20	QPSK	F	3386M	1:1	0.01	1905.00	26590	0.0	17.5	17.46	1	99	Right Tit	0	0.787	1.009	0.794	Plot	18.5	
Head	LTE Band 25	20	QPSK	F	3386M	1:1	-0.04	1905.00	26590	0.0	17.5	17.48	50	25	Right Tit	0	0.745	1.005	0.749		18.7	
Head	LTE Band 25	20	QPSK	F	3386M	1:1	0.01	1905.00	26590	0.0	17.5	17.46	1	99	Left Cheek	0	0.397	1.009	0.401		21.4	
Head	LTE Band 25	20	QPSK	F	3386M	1:1	0.18	1905.00	26590	0.0	17.5	17.48	50	25	Left Cheek	0	0.434	1.005	0.436		21.1	
Head	LTE Band 25	20	QPSK	F	3386M	1:1	0.03	1905.00	26590	0.0	17.5	17.46	1	99	Left Tit	0	0.540	1.009	0.545		20.1	
Head	LTE Band 25	20	QPSK	F	3386M	1:1	0.03	1905.00	26590	0.0	17.5	17.48	50	25	Left Tit	0	0.576	1.005	0.579		19.8	
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 12-41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	3386M	1:1	-0.02	1882.50	26365	0.0	18.0	16.45	1	0	Back	5	0.503	1.429	0.719		19.4	18.7
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	3386M	1:1	-0.14	1860.00	26140	0.0	18.0	16.34	50	50	Back	5	0.557	1.466	0.817		18.8	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	3386M	1:1	-0.01	1882.50	26365	0.0	18.0	16.43	50	0	Back	5	0.589	1.435	0.845		18.7	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	3386M	1:1	-0.09	1905.00	26590	0.0	18.0	16.35	50	50	Back	5	0.548	1.462	0.801		18.9	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	3386M	1:1	0.05	1882.50	26365	0.0	18.0	16.38	100	0	Back	5	0.545	1.452	0.791		19.0	
Hotspot	LTE Band 25	20	QPSK	A	3386M	1:1	0.05	1882.50	26365	0.0	18.0	16.45	1	0	Front	5	0.490	1.429	0.700		19.5	
Hotspot	LTE Band 25	20	QPSK	A	3386M	1:1	0.05	1882.50	26365	0.0	18.0	16.43	50	0	Front	5	0.505	1.435	0.725		19.3	
Hotspot	LTE Band 25	20	QPSK	A	0257M	1:1	-0.01	1882.50	26365	0.0	18.0	16.45	1	0	Bottom	10	0.314	1.429	0.449		21.4	
Hotspot	LTE Band 25	20	QPSK	A	0257M	1:1	-0.01	1882.50	26365	0.0	18.0	16.43	50	0	Bottom	10	0.323	1.435	0.464		21.3	
Hotspot	LTE Band 25	20	QPSK	A	0257M	1:1	0.06	1882.50	26365	0.0	18.0	16.45	1	0	Right	10	0.017	1.429	0.024		34.1	
Hotspot	LTE Band 25	20	QPSK	A	0257M	1:1	-0.14	1882.50	26365	0.0	18.0	16.43	50	0	Right	10	0.018	1.435	0.026		33.8	
Hotspot	LTE Band 25	20	QPSK	A	0257M	1:1	-0.71	1882.50	26365	0.0	18.0	16.45	1	0	Left	10	0.028	1.429	0.040		31.9	
Hotspot	LTE Band 25	20	QPSK	A	0257M	1:1	-0.04	1882.50	26365	0.0	18.0	16.43	50	0	Left	10	0.030	1.435	0.043		31.6	
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 12-42|Plot A26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 25	20	QPSK	F	3386M	1:1	0.00	1882.50	26365	0.0	20.0	19.85	1	99	Back	5	0.623	1.035	0.643		21.9	21.8
Body-worn/Hotspot	LTE Band 25	20	QPSK	F	3386M	1:1	0.08	1882.50	26365	0.0	20.0	19.79	50	50	Back	5	0.621	1.050	0.652	Plot	21.8	
Hotspot	LTE Band 25	20	QPSK	F	3386M	1:1	-0.11	1882.50	26365	0.0	20.0	19.85	1	99	Front	5	0.551	1.035	0.570		22.4	
Hotspot	LTE Band 25	20	QPSK	F	3386M	1:1	-0.19	1882.50	26365	0.0	20.0	19.79	50	50	Front	5	0.522	1.050	0.548		22.6	
Hotspot	LTE Band 25	20	QPSK	F	3386M	1:1	0.10	1882.50	26365	0.0	20.0	19.85	1	99	Top	10	0.475	1.035	0.492		23.0	
Hotspot	LTE Band 25	20	QPSK	F	3386M	1:1	0.02	1882.50	26365	0.0	20.0	19.79	50	50	Top	10	0.450	1.050	0.473		23.2	
Hotspot	LTE Band 25	20	QPSK	F	3386M	1:1	0.08	1882.50	26365	0.0	20.0	19.85	1	99	Left	10	0.056	1.035	0.058		30.3	
Hotspot	LTE Band 25	20	QPSK	F	3386M	1:1	0.14	1882.50	26365	0.0	20.0	19.79	50	50	Left	10	0.053	1.050	0.056		32.5	
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 12-43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	LTE Band 25	20	QPSK	A	0272M	1:1	0.01	1882.50	26365	0.0	18.0	16.45	1	0	Bottom	0	0.810	1.429	1.157		21.3	21.3
Phablet	LTE Band 25	20	QPSK	A	0272M	1:1	0.00	1882.50	26365	0.0	18.0	16.43	50	0	Bottom	0	0.810	1.435	1.162		21.3	
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 12-44| Plot A27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	LTE Band 25	20	QPSK	F	3386M	1:1	-0.02	1882.50	26365	0.0	20.0	19.85	1	99	Top	0	1.760	1.035	1.822		21.3	21.2
Phablet	LTE Band 25	20	QPSK	F	3386M	1:1	0.05	1882.50	26365	0.0	20.0	19.79	50	50	Top	0	1.790	1.050	1.880	Plot	21.2	
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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12.11 LTE Band 41 Standalone SAR

Table 12-45

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 41	20	QPSK	B	2972M	1:1.58	-0.19	2680.00	41490	0.0	24.5	23.58	1	0	Right Cheek	0	0.037	1.236	0.046		35.9	
Head	LTE Band 41	20	QPSK	B	2972M	1:1.58	0.09	2680.00	41490	1.0	23.5	22.19	50	50	Right Cheek	0	0.026	1.352	0.035		36.0	
Head	LTE Band 41	20	QPSK	B	2972M	1:1.58	0.06	2680.00	41490	0.0	24.5	23.58	1	0	Right Tilt	0	0.039	1.236	0.048		35.6	
Head	LTE Band 41	20	QPSK	B	2972M	1:1.58	0.15	2680.00	41490	1.0	23.5	22.19	50	50	Right Tilt	0	0.028	1.352	0.038		35.7	
Head	LTE Band 41	20	QPSK	B	2972M	1:1.58	-0.14	2680.00	41490	0.0	24.5	23.58	1	0	Left Cheek	0	0.066	1.236	0.082		33.4	
Head	LTE Band 41	20	QPSK	B	2976M	12:31	0.03	2680.00	41490	0.0	26.1	24.65	1	0	Left Cheek	0	0.058	1.396	0.081		33.3	
Head	LTE Band 41	20	QPSK	B	2972M	1:1.58	0.09	2680.00	41490	1.0	23.5	22.19	50	50	Left Cheek	0	0.049	1.352	0.066		33.3	
Head	LTE Band 41	20	QPSK	B	2972M	1:1.58	0.10	2680.00	41490	0.0	24.5	23.58	1	0	Left Tilt	0	0.048	1.236	0.059		34.7	
Head	LTE Band 41	20	QPSK	B	2972M	1:1.58	0.07	2680.00	41490	1.0	23.5	22.19	50	50	Left Tilt	0	0.029	1.352	0.039		35.5	
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: Green entry represents HPLC measurement

Table 12-46| Plot A28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 41	20	QPSK	F	2976M	1:1.58	0.05	2506.00	39750	0.0	16.5	15.22	1	0	Right Cheek	0	0.304	1.343	0.408		18.4	
Head	LTE Band 41	20	QPSK	F	2976M	1:1.58	0.02	2506.00	39750	0.0	16.5	15.31	50	0	Right Cheek	0	0.319	1.315	0.419		18.2	
Head	LTE Band 41	20	QPSK	F	2976M	1:1.58	-0.01	2506.00	39750	0.0	16.5	15.22	1	0	Right Tilt	0	0.327	1.343	0.438		18.0	
Head	LTE Band 41	20	QPSK	F	2976M	12:31	0.02	2506.00	39750	0.0	18.1	16.87	1	0	Right Tilt	0	0.329	1.327	0.437		18.0	
Head	LTE Band 41	20	QPSK	F	2976M	1:1.58	-0.01	2506.00	39750	0.0	16.5	15.31	50	0	Right Tilt	0	0.332	1.315	0.437	Plot	18.1	
Head	LTE Band 41	20	QPSK	F	2976M	1:1.58	0.05	2506.00	39750	0.0	16.5	15.22	1	0	Left Cheek	0	0.183	1.349	0.246		20.6	
Head	LTE Band 41	20	QPSK	F	2976M	1:1.58	0.02	2506.00	39750	0.0	16.5	15.31	50	0	Left Cheek	0	0.189	1.315	0.249		20.5	
Head	LTE Band 41	20	QPSK	F	2976M	1:1.58	0.03	2506.00	39750	0.0	16.5	15.22	1	0	Left Tilt	0	0.269	1.343	0.361		18.9	
Head	LTE Band 41	20	QPSK	F	2976M	1:1.58	-0.01	2506.00	39750	0.0	16.5	15.31	50	0	Left Tilt	0	0.281	1.315	0.370		18.8	
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: Green entry represents HPLC measurement

Table 12-47| Plot A29

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	0.04	2506.00	39750	0.0	21.0	19.45	1	99	Back	5	0.719	1.429	1.027		18.8	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	0.03	2549.50	40185	0.0	21.0	19.67	1	0	Back	5	0.704	1.358	0.956		19.2	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	-0.11	2593.00	40620	0.0	21.0	19.74	1	0	Back	5	0.874	1.337	1.169		18.3	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	-0.08	2636.50	41055	0.0	21.0	19.34	1	0	Back	5	0.769	1.466	1.137		18.4	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	-0.06	2680.00	41490	0.0	21.0	19.50	1	99	Back	5	0.766	1.413	1.082		18.6	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	0.17	2506.00	39750	0.0	21.0	19.55	50	0	Back	5	0.772	1.396	1.078		18.6	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	0.05	2549.50	40185	0.0	21.0	19.73	50	0	Back	5	0.720	1.340	0.965		19.1	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	0.08	2593.00	40620	0.0	21.0	19.87	50	0	Back	5	0.880	1.297	1.141		18.4	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	0.00	2636.50	41055	0.0	21.0	19.32	50	0	Back	5	0.763	1.472	1.123		18.5	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	-0.14	2680.00	41490	0.0	21.0	19.63	50	25	Back	5	0.776	1.371	1.064		18.7	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	-0.07	2593.00	40620	0.0	21.0	19.70	100	0	Back	5	0.869	1.349	1.172		18.3	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	2972M	12:31	-0.07	2593.00	40620	0.0	22.6	21.70	100	0	Back	5	0.950	1.230	1.308	Plot	18.2	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	2972M	12:31	-0.01	2593.00	40620	0.0	22.6	21.70	100	0	Back	5	0.953	1.230	1.172		18.2	
Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	-0.02	2593.00	40620	0.0	21.0	19.74	1	0	Front	5	0.370	1.337	0.495		22.0	
Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	-0.02	2593.00	40620	0.0	21.0	19.87	50	0	Front	5	0.387	1.297	0.502		22.0	
Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	-0.02	2593.00	40620	0.0	21.0	19.74	1	0	Bottom	10	0.392	1.337	0.534		21.8	
Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	0.01	2593.00	40620	0.0	21.0	19.87	50	0	Bottom	10	0.412	1.297	0.534		21.7	
Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	-0.01	2593.00	40620	0.0	21.0	19.74	1	0	Left	10	0.160	1.337	0.214		25.7	
Hotspot	LTE Band 41	20	QPSK	B	0041M	1:1.58	0.04	2593.00	40620	0.0	21.0	19.87	50	0	Left	10	0.162	1.297	0.210		25.7	
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: Blue entry represents variability measurement

Note: Green entry represents HPLC measurement

Table 12-48

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	2972M	1:1.58	-0.14	2506.00	39750	0.0	19.5	18.58	1	0	Back	5	0.418	1.236	0.517		20.3	
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	2972M	12:31	0.02	2506.00	39750	0.0	21.1	19.86	1	0	Back	5	0.427	1.300	0.555		20.0	
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	2972M	1:1.58	0.02	2506.00	39750	0.0	19.5	18.66	50	0	Back	5	0.415	1.213	0.503		20.4	
Hotspot	LTE Band 41	20	QPSK	F	2972M	1:1.58	0.02	2506.00	39750	0.0	19.5	18.58	1	0	Front	5	0.303	1.236	0.375		21.7	
Hotspot	LTE Band 41	20	QPSK	F	2972M	1:1.58	-0.01	2506.00	39750	0.0	19.5	18.66	50	0	Front	5	0.314	1.213	0.381		21.7	
Hotspot	LTE Band 41	20	QPSK	F	2972M	1:1.58	-0.02	2506.00	39750	0.0	19.5	18.58	1	0	Top	10	0.278	1.236	0.344		22.1	
Hotspot	LTE Band 41	20	QPSK	F	2972M	1:1.58	0.05	2506.00	39750	0.0	19.5	18.66	50	0	Top	10	0.283	1.213	0.343		22.1	
Hotspot	LTE Band 41	20	QPSK	F	2972M	1:1.58	-0.03	2506.00	39750	0.0	19.5	18.58	1	0	Left	10	0.019	1.236	0.023		33.8	
Hotspot	LTE Band 41	20	QPSK	F	2972M	1:1.58	-0.09	2506.00	39750	0.0	19.5	18.66	50	0	Left	10	0.016	1.213	0.019		34.6	
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: Green entry represents HPLC measurement

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12.12 NR Band n12 Standalone SAR

Table 12-49

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n12	15	QPSK	A	0254M	1:1	-0.11	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	1	1	Right Cheek	0	0.098	1.459	0.143		33.4	
Head	NR Band n12	15	QPSK	A	0254M	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	36	22	Right Cheek	0	0.101	1.462	0.148		33.3	
Head	NR Band n12	15	QPSK	A	0254M	1:1	-0.01	707.50	141500	CP-OFDM	1.5	23.5	21.93	1	1	Right Cheek	0	0.070	1.435	0.100		33.4	
Head	NR Band n12	15	QPSK	A	0254M	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	1	1	Right Tilt	0	0.065	1.459	0.095		35.2	
Head	NR Band n12	15	QPSK	A	0254M	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	36	22	Right Tilt	0	0.059	1.462	0.086		35.6	
Head	NR Band n12	15	QPSK	A	0254M	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	1	1	Left Cheek	0	0.093	1.459	0.136		33.6	
Head	NR Band n12	15	QPSK	A	0254M	1:1	-0.10	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	36	22	Left Cheek	0	0.094	1.462	0.137		33.6	
Head	NR Band n12	15	QPSK	A	0254M	1:1	-0.13	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	1	1	Left Tilt	0	0.066	1.459	0.081		35.8	
Head	NR Band n12	15	QPSK	A	0254M	1:1	0.17	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	36	22	Left Tilt	0	0.051	1.462	0.075		36.2	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT														Spatial Peak		Head							
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)							

Table 12-50| Plot A30

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n12	15	QPSK	E	3274M	1:1	-0.07	707.50	141500	DFT-s-OFDM	0.0	19.5	18.35	1	77	Right Cheek	0	0.405	1.303	0.528		22.2	
Head	NR Band n12	15	QPSK	E	3274M	1:1	-0.07	707.50	141500	DFT-s-OFDM	0.0	19.5	18.35	36	22	Right Cheek	0	0.419	1.318	0.552		22.0	
Head	NR Band n12	15	QPSK	E	3274M	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	19.5	18.35	1	77	Right Tilt	0	0.364	1.303	0.474		22.7	
Head	NR Band n12	15	QPSK	E	3274M	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	19.5	18.35	36	22	Right Tilt	0	0.359	1.318	0.473		22.7	
Head	NR Band n12	15	QPSK	E	3274M	1:1	0.13	707.50	141500	DFT-s-OFDM	0.0	19.5	18.35	1	77	Left Cheek	0	0.440	1.303	0.573		21.9	
Head	NR Band n12	15	QPSK	E	3274M	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	19.5	18.35	36	22	Left Cheek	0	0.482	1.318	0.635	Plot	21.4	
Head	NR Band n12	15	QPSK	E	3274M	1:1	0.38	707.50	141500	CP-OFDM	0.0	19.5	18.21	1	1	Left Cheek	0	0.471	1.346	0.634		21.4	
Head	NR Band n12	15	QPSK	E	3274M	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	19.5	18.35	1	77	Left Tilt	0	0.392	1.303	0.511		22.4	
Head	NR Band n12	15	QPSK	E	3274M	1:1	0.14	707.50	141500	DFT-s-OFDM	0.0	19.5	18.35	36	22	Left Tilt	0	0.402	1.318	0.530		22.2	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT														Spatial Peak		Head							
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)							

Table 12-51

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	NR Band n12	15	QPSK	A	3278M	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.0	23.35	1	1	Back	5	0.473	1.459	0.689		26.6	
Body-worn/Hotspot	NR Band n12	15	QPSK	A	3278M	1:1	-0.11	707.50	141500	DFT-s-OFDM	0.0	25.0	23.35	36	22	Back	5	0.518	1.462	0.757		26.2	
Body-worn/Hotspot	NR Band n12	15	QPSK	A	3278M	1:1	-0.07	707.50	141500	CP-OFDM	1.5	23.5	21.93	1	1	Back	5	0.336	1.435	0.482		26.6	
Hotspot	NR Band n12	15	QPSK	A	0254M	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	1	1	Front	5	0.548	1.459	0.719		29.2	
Hotspot	NR Band n12	15	QPSK	A	0254M	1:1	-0.08	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	36	22	Front	5	0.581	1.462	0.814		28.8	
Hotspot	NR Band n12	15	QPSK	A	0254M	1:1	0.17	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	1	1	Bottom	10	0.038	1.459	0.055		37.5	
Hotspot	NR Band n12	15	QPSK	A	0254M	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	36	22	Bottom	10	0.043	1.462	0.063		37.0	
Hotspot	NR Band n12	15	QPSK	A	0254M	1:1	0.11	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	1	1	Right	10	0.096	1.459	0.145		33.5	
Hotspot	NR Band n12	15	QPSK	A	0254M	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	36	22	Right	10	0.091	1.462	0.133		33.7	
Hotspot	NR Band n12	15	QPSK	A	0254M	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	1	1	Left	10	0.170	1.459	0.248		31.6	
Hotspot	NR Band n12	15	QPSK	A	0254M	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	25.0	25.35	36	22	Left	10	0.187	1.462	0.273		30.0	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT														Spatial Peak		Body							
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)							

Table 12-52| Plot A31

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	NR Band n12	15	QPSK	E	3274M	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	20.5	20.26	1	77	Back	5	0.599	1.057	0.633	Plot	22.4	
Body-worn/Hotspot	NR Band n12	15	QPSK	E	3274M	1:1	-0.07	707.50	141500	DFT-s-OFDM	0.0	20.5	20.25	36	22	Back	5	0.574	1.059	0.608		22.6	
Body-worn/Hotspot	NR Band n12	15	QPSK	E	3274M	1:1	0.00	707.50	141500	CP-OFDM	0.0	20.5	20.26	1	1	Back	5	0.521	1.057	0.551		23.0	
Hotspot	NR Band n12	15	QPSK	E	3274M	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	20.5	20.26	1	77	Front	5	0.366	1.057	0.387		24.6	
Hotspot	NR Band n12	15	QPSK	E	3274M	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	20.5	20.25	36	22	Front	5	0.348	1.059	0.369		24.8	
Hotspot	NR Band n12	15	QPSK	E	3274M	1:1	-0.04	707.50	141500	DFT-s-OFDM	0.0	20.5	20.26	1	77	Top	10	0.314	1.057	0.226		26.9	
Hotspot	NR Band n12	15	QPSK	E	3274M	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	20.5	20.25	36	22	Top	10	0.307	1.059	0.215		27.0	
Hotspot	NR Band n12	15	QPSK	E	3274M	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	20.5	20.26	1	77	Right	10	0.222	1.057	0.235		26.7	
Hotspot	NR Band n12	15	QPSK	E	3274M	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	20.5	20.25	36	22	Right	10	0.216	1.059	0.229		26.9	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT														Spatial Peak		Body							
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)							

12.13 NR Band n26 Standalone SAR

Table 12-53

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n26	20	QPSK	A	0254M	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	25.0	23.42	1	104	Right Cheek	0	0.161	1.439	0.232		31.3	
Head	NR Band n26	20	QPSK	A	0254M	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.0	23.28	50	28	Right Cheek	0	0.132	1.486	0.196		32.0	
Head	NR Band n26	20	QPSK	A	0254M	1:1	-0.04	831.50	166300	CP-OFDM	1.5	23.5	21.68	1	1	Right Cheek	0	0.085	1.521	0.129		32.3	
Head	NR Band n26	20	QPSK	A	0254M	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	25.0	23.42	1	104	Right Tilt	0	0.088	1.439	0.127		33.9	
Head	NR Band n26	20	QPSK	A	0254M	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	25.0	23.28	50	28	Right Tilt	0	0.075	1.486	0.111		34.5	
Head	NR Band n26	20	QPSK	A	0254M	1:1	0.09	831.50	166300	DFT-s-OFDM	0.0	25.0	23.42	1	104	Left Cheek	0	0.124	1.459	0.178		32.4	

Table 12-54| Plot A32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n26	20	QPSK	E	3274M	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	20.0	18.40	1	104	Right Cheek	0	0.327	1.445	0.473			23.2
Head	NR Band n26	20	QPSK	E	3274M	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	20.0	18.30	50	56	Right Cheek	0	0.341	1.479	0.504			22.9
Head	NR Band n26	20	QPSK	E	3274M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	20.0	18.40	1	104	Right Tilt	0	0.292	1.445	0.422			23.7
Head	NR Band n26	20	QPSK	E	3274M	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	20.0	18.30	50	56	Right Tilt	0	0.304	1.479	0.450			23.4
Head	NR Band n26	20	QPSK	E	3274M	1:1	0.05	831.50	166300	DFT-s-OFDM	0.0	20.0	18.40	1	104	Left Cheek	0	0.369	1.445	0.533			22.7
Head	NR Band n26	20	QPSK	E	3274M	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	20.0	18.30	50	56	Left Cheek	0	0.386	1.479	0.571			22.4
Head	NR Band n26	20	QPSK	E	3274M	1:1	0.07	831.50	166300	CP-OFDM	0.0	20.0	18.25	1	1	Left Cheek	0	0.476	1.496	0.712	Plot		21.4
Head	NR Band n26	20	QPSK	E	3274M	1:1	-0.14	831.50	166300	DFT-s-OFDM	0.0	20.0	18.40	1	104	Left Tilt	0	0.370	1.445	0.535			23.7
Head	NR Band n26	20	QPSK	E	3274M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	20.0	18.30	50	56	Left Tilt	0	0.383	1.479	0.566			22.4
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 12-55| Plot A33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	NR Band n26	20	QPSK	A	3274M	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	25.0	23.42	1	104	Back	5	0.709	1.439	1.020	Plot		24.9
Body-worn/Hotspot	NR Band n26	20	QPSK	A	0254M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	23.28	50	28	Back	5	0.614	1.486	0.912			25.3
Body-worn/Hotspot	NR Band n26	20	QPSK	A	0254M	1:1	-0.08	831.50	166300	DFT-s-OFDM	1.0	24.0	22.75	100	0	Back	5	0.486	1.496	0.727			25.8
Body-worn/Hotspot	NR Band n26	20	QPSK	A	0254M	1:1	-0.03	831.50	166300	CP-OFDM	1.5	23.5	21.68	1	1	Back	5	0.354	1.521	0.538			26.1
Hotspot	NR Band n26	20	QPSK	A	0254M	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.0	23.42	1	104	Front	5	0.453	1.439	0.652			26.8
Hotspot	NR Band n26	20	QPSK	A	0254M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	23.28	50	28	Front	5	0.360	1.486	0.535			27.7
Hotspot	NR Band n26	20	QPSK	A	0254M	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.0	23.42	1	104	Bottom	10	0.081	1.439	0.117			34.3
Hotspot	NR Band n26	20	QPSK	A	0254M	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	25.0	23.28	50	28	Bottom	10	0.062	1.486	0.092			35.3
Hotspot	NR Band n26	20	QPSK	A	0254M	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	25.0	23.42	1	104	Right	10	0.219	1.439	0.315			30.0
Hotspot	NR Band n26	20	QPSK	A	0254M	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	25.0	23.28	50	28	Right	10	0.175	1.486	0.260			30.8
Hotspot	NR Band n26	20	QPSK	A	0254M	1:1	-0.11	831.50	166300	DFT-s-OFDM	0.0	25.0	23.42	1	104	Left	10	0.162	1.439	0.233			31.3
Hotspot	NR Band n26	20	QPSK	A	0254M	1:1	-0.06	831.50	166300	DFT-s-OFDM	0.0	25.0	23.28	50	28	Left	10	0.137	1.486	0.204			31.9
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 12-56

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	NR Band n26	20	QPSK	E	3274M	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	21.0	20.35	1	104	Back	5	0.582	1.161	0.676			22.7
Body-worn/Hotspot	NR Band n26	20	QPSK	E	3274M	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	21.0	20.28	50	56	Back	5	0.614	1.180	0.725			22.3
Body-worn/Hotspot	NR Band n26	20	QPSK	E	3274M	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	21.0	20.20	100	0	Back	5	0.639	1.202	0.768			22.1
Body-worn/Hotspot	NR Band n26	20	QPSK	E	3274M	1:1	0.00	831.50	166300	CP-OFDM	0.0	21.0	20.25	1	1	Back	5	0.695	1.189	0.826			21.8
Hotspot	NR Band n26	20	QPSK	E	3274M	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	21.0	20.35	1	104	Front	5	0.533	1.161	0.639			23.0
Hotspot	NR Band n26	20	QPSK	E	3274M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	21.0	20.28	50	56	Front	5	0.569	1.180	0.661			22.7
Hotspot	NR Band n26	20	QPSK	E	3274M	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	21.0	20.35	1	104	Top	10	0.241	1.161	0.280			26.5
Hotspot	NR Band n26	20	QPSK	E	3274M	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	21.0	20.28	50	56	Top	10	0.257	1.180	0.303			26.1
Hotspot	NR Band n26	20	QPSK	E	3274M	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	21.0	20.35	1	104	Right	10	0.793	1.161	0.111			26.0
Hotspot	NR Band n26	20	QPSK	E	3274M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	21.0	20.28	50	56	Right	10	0.773	1.180	0.322			25.9
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body					
Spatial Peak																		1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 1 gram					

12.14 NR Band n66 Standalone SAR

Table 12-57

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n66	40	QPSK	A	0272M	1:1	-0.19	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.35	1	108	Right Cheek	0	0.135	1.303	0.150			32.7
Head	NR Band n66	40	QPSK	A	0272M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.35	108	54	Right Cheek	0	0.100	1.303	0.130			33.3
Head	NR Band n66	40	QPSK	A	0272M	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.35	1	108	Right Tilt	0	0.055	1.303	0.072			35.9
Head	NR Band n66	40	QPSK	A	0272M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.35	108	54	Right Tilt	0	0.055	1.303	0.072			35.9
Head	NR Band n66	40	QPSK	A	0272M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.35	1	108	Left Cheek	0	0.175	1.303	0.228			30.9
Head	NR Band n66	40	QPSK	A	0272M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.35	108	54	Left Cheek	0	0.181	1.303	0.236			30.7
Head	NR Band n66	40	QPSK	A	0272M	1:1	-0.13	1745.00	349000	CP-OFDM	1.5	23.0	21.61	1	1	Left Cheek	0	0.123	1.377	0.169			30.7
Head	NR Band n66	40	QPSK	A	0272M	1:1	-0.17	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.35	1	108	Left Tilt	0	0.063	1.303	0.082			35.3
Head	NR Band n66	40	QPSK	A	0272M	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.35	108	54	Left Tilt	0	0.062	1.303	0.081			35.4
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 12-58| Plot A34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #
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Table 12-59| Plot A35, A36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	NR Band n66	40	QPSK	A	3274M	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	18.5	17.38	1	214	Back	5	0.592	1.294	0.766	Plot	18.6	
Body-worn/Hotspot	NR Band n66	40	QPSK	A	3274M	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	18.5	17.47	108	108	Back	5	0.592	1.268	0.751		18.7	
Hotspot	NR Band n66	40	QPSK	A	3274M	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	18.5	17.38	1	214	Front	5	0.611	1.294	0.791		19.5	
Hotspot	NR Band n66	40	QPSK	A	3274M	1:1	-0.06	1745.00	349000	DFT-s-OFDM	0.0	18.5	17.47	108	108	Front	5	0.619	1.268	0.785	Plot	19.5	
Hotspot	NR Band n66	40	QPSK	A	3274M	1:1	-0.08	1745.00	349000	CP-OFDM	0.0	18.5	17.36	1	214	Front	5	0.532	1.361	0.724		18.9	
Hotspot	NR Band n66	40	QPSK	A	3274M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	18.5	17.38	1	214	Bottom	10	0.476	1.294	0.616		20.6	
Hotspot	NR Band n66	40	QPSK	A	3274M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	18.5	17.47	108	108	Bottom	10	0.480	1.268	0.609		20.6	
Hotspot	NR Band n66	40	QPSK	A	3274M	1:1	-0.14	1745.00	349000	DFT-s-OFDM	0.0	18.5	17.38	1	214	Right	10	0.079	1.294	0.038		32.7	
Hotspot	NR Band n66	40	QPSK	A	3274M	1:1	0.09	1745.00	349000	DFT-s-OFDM	0.0	18.5	17.47	108	108	Right	10	0.033	1.268	0.042		32.2	
Hotspot	NR Band n66	40	QPSK	A	3274M	1:1	-0.06	1745.00	349000	DFT-s-OFDM	0.0	18.5	17.38	1	214	Left	10	0.051	1.294	0.066		30.3	
Hotspot	NR Band n66	40	QPSK	A	3274M	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	18.5	17.47	108	108	Left	10	0.054	1.268	0.068		30.1	
AND/IEEE CS5.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-60

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	NR Band n66	40	QPSK	F	0286M	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	19.0	18.92	1	214	Back	5	0.440	1.019	0.448		22.4	
Body-worn/Hotspot	NR Band n66	40	QPSK	F	0286M	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	19.0	18.99	1	214	Back	5	0.436	1.063	0.437		22.5	
Body-worn/Hotspot	NR Band n66	40	QPSK	F	0286M	1:1	0.03	1745.00	349000	CP-OFDM	0.0	19.0	18.82	1	214	Back	5	0.428	1.042	0.446		22.5	
Hotspot	NR Band n66	40	QPSK	F	0286M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	19.0	18.92	1	214	Front	5	0.405	1.019	0.413		22.8	
Hotspot	NR Band n66	40	QPSK	F	0286M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	19.0	18.99	108	108	Front	5	0.403	1.002	0.404		22.9	
Hotspot	NR Band n66	40	QPSK	F	0286M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	19.0	18.92	1	214	Top	10	0.377	1.019	0.333		23.7	
Hotspot	NR Band n66	40	QPSK	F	0286M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	19.0	18.99	108	108	Top	10	0.334	1.002	0.335		23.7	
Hotspot	NR Band n66	40	QPSK	F	0286M	1:1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	19.0	18.92	1	214	Left	10	0.058	1.019	0.059		31.0	
Hotspot	NR Band n66	40	QPSK	F	0286M	1:1	-0.08	1745.00	349000	DFT-s-OFDM	0.0	19.0	18.99	108	108	Left	10	0.063	1.002	0.062		31.0	
AND/IEEE CS5.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-61| Plot A37

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Phablet	NR Band n66	40	QPSK	A	3274M	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	18.5	17.38	1	214	Bottom	0	0.687	1.294	0.889		22.9	
Phablet	NR Band n66	40	QPSK	A	3274M	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	18.5	17.47	108	108	Bottom	0	0.756	1.268	0.959		22.6	
Phablet	NR Band n66	40	QPSK	A	3274M	1:1	-0.07	1745.00	349000	CP-OFDM	0.0	18.5	17.16	1	214	Bottom	0	0.756	1.361	1.029	Plot	22.3	
AND/IEEE CS5.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Phablet 4.0 W/kg (mW/g) averaged over 10 grams					

12.15 NR Band n25 Standalone SAR

Table 12-62

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n25	40	QPSK	A	0272M	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	24.0	22.68	1	214	Right Cheek	0	0.094	1.355	0.127		32.9	
Head	NR Band n25	40	QPSK	A	0272M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	24.0	22.58	108	54	Right Cheek	0	0.094	1.387	0.130		32.8	
Head	NR Band n25	40	QPSK	A	0272M	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	24.0	22.68	1	214	Right Tilt	0	0.059	1.355	0.080		34.9	
Head	NR Band n25	40	QPSK	A	0272M	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	24.0	22.58	108	54	Right Tilt	0	0.065	1.387	0.090		34.4	
Head	NR Band n25	40	QPSK	A	0272M	1:1	-0.07	1882.50	376500	DFT-s-OFDM	0.0	24.0	22.68	1	214	Left Cheek	0	0.180	1.355	0.244		30.1	
Head	NR Band n25	40	QPSK	A	0272M	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	24.0	22.58	108	54	Left Cheek	0	0.166	1.387	0.230		30.3	
Head	NR Band n25	40	QPSK	A	0272M	1:1	-0.03	1882.50	376500	CP-OFDM	1.5	22.5	21.12	1	214	Left Cheek	0	0.102	1.374	0.140		31.0	
Head	NR Band n25	40	QPSK	A	0272M	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	24.0	22.68	1	214	Left Tilt	0	0.052	1.355	0.070		35.5	
Head	NR Band n25	40	QPSK	A	0272M	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	24.0	22.58	108	54	Left Tilt	0	0.054	1.387	0.075		35.2	
AND/IEEE CS5.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-63| Plot A38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n25	40	QPSK	F	0269M	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	17.5	16.44	1	214	Right Cheek	0	0.531	1.276	0.678	Plot	19.1	
Head	NR Band n25	40	QPSK	F	0269M	1:1	-0.00	1882.50	376500	DFT-s-OFDM	0.0	17.5	16.37	108	108	Right Cheek	0	0.529	1.297	0.686		19.1	
Head	NR Band n25	40	QPSK	F	0269M	1:1	-0.02	1882.50	376500	CP-OFDM	0.0	17.5	16.40	1	214	Right Cheek	0	0.453	1.288	0.583		19.8	
Head	NR Band n25	40	QPSK	F	0272M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	17.5	16.44	1	214	Right Tilt	0	0.523	1.276	0.667		19.2	
Head	NR Band n25	40	QPSK	F	0272M	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	17.5	16.37	108	108	Right Tilt	0	0.524	1.297	0.680		19.1	
Head	NR Band n25	40	QPSK	F	0272M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	17.5	16.44	1	214	Left Cheek	0	0.321	1.276	0.410		21.3	
Head	NR Band n25	40	QPSK	F	0272M	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	17.5	16.37	108	108	Left Cheek	0	0.326	1.297	0.423		21.2	
Head	NR Band n25	40	QPSK	F	0272M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	17.5	16.46	1	214	Left Tilt	0	0.368	1.276	0.476		20.7	
Head	NR Band n25	40	QPSK	F	0272M	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	17.5	16.37	108	108	Left Tilt	0	0.365	1.297	0.473		20.7	
AND/IEEE CS5.1 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 12-64| Plot A39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n25	40	QPSK	A	0272M	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.75	1	214	Back	5	0.672	1.334	0.896	Plot	19.4	
Body-worn/Hotspot	NR Band n25	40	QPSK	A	0272M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.59	108	0	Back	5	0.668	1.384	0.925		19.3	
Body-worn/Hotspot	NR Band n25	40	QPSK	A	0272M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.58	216	0	Back	5	0.645	1.387	0.895		19.4	
Hotspot	NR Band n25	40	QPSK	A	0272M	1:1	0.01	1882.50	376500	CP-OFDM	0.0	19.0	17.54	1	214	Back	5	0.651	1.400	0.911		19.4	
Hotspot	NR Band n25	40	QPSK	A	0272M	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.75	1	214	Front	5	0.667	1.334	0.895		19.3	
Hotspot	NR Band n25	40	QPSK	A	0272M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.59	108	0	Front	5	0.646	1.384	0.894		19.4	
Hotspot	NR Band n25	40	QPSK	A	0272M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.58	216	0	Front	5	0.656	1.387	0.910		19.4	
Hotspot	NR Band n25	40	QPSK	A	0272M	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.75	1	214	Bottom	10	0.653	1.334	0.871		19.6	
Hotspot	NR Band n25	40	QPSK	A	0272M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.59	108	0	Bottom	10	0.608	1.384	0.841		19.7	
Hotspot	NR Band n25	40	QPSK	A	0286M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.58	216	0	Bottom	10	0.544	1.387	0.755		20.2	
Hotspot	NR Band n25	40	QPSK	A	0872M	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.75	1	214	Right	10	0.042	1.334	0.056		31.5	
Hotspot	NR Band n25	40	QPSK	A	0872M	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.59	108	0	Right	10	0.042	1.384	0.058		31.3	
Hotspot	NR Band n25	40	QPSK	A	0272M	1:1	0.11	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.75	1	214	Left	10	0.075	1.334	0.100		28.9	
Hotspot	NR Band n25	40	QPSK	A	0272M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.59	108	0	Left	10	0.075	1.384	0.104		28.8	
Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-65

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n25	40	QPSK	F	3274M	1:1	-0.07	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.56	1	108	Back	5	0.497	1.107	0.550		21.5	
Body-worn/Hotspot	NR Band n25	40	QPSK	F	3274M	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.38	108	54	Back	5	0.482	1.153	0.556		21.5	
Body-worn/Hotspot	NR Band n25	40	QPSK	F	3274M	1:1	-0.03	1882.50	376500	CP-OFDM	0.0	19.0	18.56	1	1	Back	5	0.495	1.107	0.549		21.6	
Hotspot	NR Band n25	40	QPSK	F	3274M	1:1	-0.14	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.56	1	108	Front	5	0.435	1.107	0.482		22.1	
Hotspot	NR Band n25	40	QPSK	F	3274M	1:1	-0.07	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.38	108	54	Front	5	0.416	1.153	0.480		22.1	
Hotspot	NR Band n25	40	QPSK	F	3274M	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.56	1	108	Top	10	0.306	1.107	0.339		23.7	
Hotspot	NR Band n25	40	QPSK	F	3274M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.38	108	54	Top	10	0.307	1.153	0.354		23.5	
Hotspot	NR Band n25	40	QPSK	F	3274M	1:1	0.09	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.56	1	108	Left	10	0.067	1.107	0.074		30.2	
Hotspot	NR Band n25	40	QPSK	F	3274M	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.38	108	54	Left	10	0.070	1.153	0.081		29.9	
Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-66| Plot A40

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	NR Band n25	40	QPSK	A	3274M	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.75	1	214	Bottom	0	0.719	1.334	0.959		23.1	
Phablet	NR Band n25	40	QPSK	A	3274M	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.59	108	0	Bottom	0	0.786	1.384	1.100		22.5	
Phablet	NR Band n25	40	QPSK	A	3274M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	19.0	17.54	1	1	Bottom	0	0.810	1.400	1.134	Plot	22.4	
Spatial Peak Uncontrolled Exposure/General Population																		Body 4.0 W/kg (mW/g) averaged over 10 grams					

12.16 NR Band n41 Standalone SAR

Table 12-67| Plot A41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Head	NR Band n41	100	QPSK	F	1	0041M	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.86	1	271	Right Cheek	0	0.506	1.033	0.523		16.8		
Head	NR Band n41	100	QPSK	F	1	0041M	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.67	135	69	Right Cheek	0	0.453	1.079	0.489		17.1		
Head	NR Band n41	100	QPSK	F	1	0041M	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.86	1	271	Right Tilt	0	0.471	1.033	0.487		17.1		
Head	NR Band n41	100	QPSK	F	1	0041M	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.67	135	69	Right Tilt	0	0.546	1.079	0.589		16.2		
Head	NR Band n41	100	QPSK	F	1	0041M	1:1	-0.02	2592.99	518598	CP-OFDM	0.0	14.0	13.86	1	1	Right Tilt	0	0.551	1.002	0.552		16.5		
Head	NR Band n41	100	QPSK	F	1	0041M	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.86	1	271	Left Cheek	0	0.202	1.033	0.209		20.8		
Head	NR Band n41	100	QPSK	F	1	0041M	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.67	135	69	Left Cheek	0	0.227	1.079	0.245		20.3		
Head	NR Band n41	100	QPSK	F	1	0041M	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.86	1	271	Left Tilt	0	0.202	1.033	0.209		20.8		
Head	NR Band n41	100	QPSK	F	1	0041M	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.67	135	69	Left Tilt	0	0.239	1.079	0.258		19.8		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																				Head					
Spatial Peak																				1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																				averaged over 1 gram					
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]					
Head	NR Band n41	100	F	2	0041M	1:1	-0.01	2592.99	518598	CW/SRS	14.0	13.97	Right Tilt	0	0.555	1.007	0.559	Plot	16.5	16.5					
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 12-68

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]				
Head	NR Band n41	100	B	1	0041M	1:1	0.01	2592.99	518598	CW/SRS	14.0	13.49	Left Cheek	0	0.005	1.125	0.006		36.5	36.5				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram									
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n41	100	QPSK	B	2	0041M	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.79	1	1	Right Cheek	0	0.002	1.050	0.002		40.7	
Head	NR Band n41	100	QPSK	B	2	0041M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.64	135	69	Right Cheek	0	0.000	1.086	0.000		53.6	
Head	NR Band n41	100	QPSK	B	2	0041M	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.79	1	1	Right Tilt	0	0.000	1.050	0.000		53.7	
Head	NR Band n41	100	QPSK	B	2	0041M	1:1	0.07	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.64	135	69	Right Tilt	0	0.000	1.086	0.000		53.6	
Head	NR Band n41	100	QPSK	B	2	0041M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.79	1	1	Left Cheek	0	0.007	1.050	0.007		35.3	
Head	NR Band n41	100	QPSK	B	2	0041M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.64	135	69	Left Cheek	0	0.005	1.086	0.005		36.6	
Head	NR Band n41	100	QPSK	B	2	0041M	1:1	0.06	2592.99	518598	CP-OFDM	0.0	14.0	13.86	1	1	Left Cheek	0	0.00	1.000	0.00		36.3	
Head	NR Band n41	100	QPSK	B	2	0041M	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.79	1	1	Left Tilt	0	0.000	1.050	0.000		53.7	
Head	NR Band n41	100	QPSK	B	2	0041M	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	14.0	13.64	135	69	Left Tilt	0	0.000	1.086	0.000		53.6	
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 12-69

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n41	100	E	1	0041M	1:1	-0.02	2592.99	518598	CW/SRS	14.0	13.61	Right Cheek	0	0.242	1.094	0.265		19.7	16.7
Head	NR Band n41	100	E	1	0041M	1:1	0.00	2592.99	518598	CW/SRS	14.0	13.61	Right Tilt	0	0.235	1.094	0.257		19.8	
Head	NR Band n41	100	E	1	0041M	1:1	-0.01	2592.99	518598	CW/SRS	14.0	13.61	Left Cheek	0	0.487	1.094	0.533		16.7	
Head	NR Band n41	100	E	1	0041M	1:1	-0.03	2592.99	518598	CW/SRS	14.0	13.61	Left Tilt	0	0.456	1.094	0.499		17.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram							
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n41	100	E	2	0041M	1:1	0.00	2592.99	518598	CW/SRS	14.0	13.65	Left Cheek	0	0.483	1.084	0.524		16.8	16.8
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 12-70

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n41	100	D	1	0041M	1:1	0.01	2592.99	518598	CW/SRS	14.0	13.83	Right Cheek	0	0.000	1.040	0.000		53.8	53.8
Head	NR Band n41	100	D	1	0041M	1:1	0.03	2592.99	518598	CW/SRS	14.0	13.83	Right Tilt	0	0.000	1.040	0.000		53.8	
Head	NR Band n41	100	D	1	0041M	1:1	0.07	2592.99	518598	CW/SRS	14.0	13.83	Left Cheek	0	0.000	1.040	0.000		53.8	
Head	NR Band n41	100	D	1	0041M	1:1	0.09	2592.99	518598	CW/SRS	14.0	13.83	Left Tilt	0	0.000	1.040	0.000		53.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram							
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n41	100	D	2	0041M	1:1	0.07	2592.99	518598	CW/SRS	14.0	13.84	Right Tilt	0	0.000	1.038	0.000		53.8	53.8
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 12-71

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	0041M	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.85	1	1	Back	5	0.660	1.035	0.683		19.6	19.0
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	0041M	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.66	135	0	Back	5	0.689	1.084	0.747		19.2	
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	0041M	1:1	-0.07	2592.99	518598	CP-OFDM	0.0	18.0	17.52	1	1	Back	5	0.706	1.117	0.789		19.0	
Hotspot	NR Band n41	100	QPSK	F	1	0041M	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.85	1	1	Front	5	0.581	1.035	0.593		20.9	
Hotspot	NR Band n41	100	QPSK	F	1	0041M	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.66	135	0	Front	5	0.531	1.084	0.576		20.3	
Hotspot	NR Band n41	100	QPSK	F	1	0041M	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.85	1	1	Top	10	0.486	1.035	0.472		21.2	
Hotspot	NR Band n41	100	QPSK	F	1	0041M	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.66	135	0	Top	10	0.339	1.084	0.367		22.3	
Hotspot	NR Band n41	100	QPSK	F	1	0041M	1:1	0.10	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.85	1	1	Left	10	0.021	1.035	0.022		34.6	
Hotspot	NR Band n41	100	QPSK	F	1	0041M	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.66	135	0	Left	10	0.034	1.084	0.037		33.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]				
Body-worn/Hotspot	NR Band n41	100	F	2	0145M	1:1	-0.01	2592.99	518598	CW/SRS	18.0	17.90	Back	5	0.690	1.023	0.706		19.5	19.5				
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 12-72

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	0145M	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.86	1	1	Back	5	0.727	1.033	0.751		19.2	19.0
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	0145M	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.67	135	0	Back	5	0.659	1.079	0.711		19.4	
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	0145M	1:1	0.01	2592.99	518598	CP-OFDM	0.0	18.0	17.68	1	1	Back	5	0.769	1.016	0.783		19.0	
Hotspot	NR Band n41	100	QPSK	B	2	0145M	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.86	1	1	Front	5	0.313	1.033	0.323		22.9	
Hotspot	NR Band n41	100	QPSK	B	2	0145M	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.67	135	0	Front	5	0.338	1.079	0.365		22.3	
Hotspot	NR Band n41	100	QPSK	B	2	0145M	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.86	1	1	Bottom	10	0.326	1.033	0.337		22.7	
Hotspot	NR Band n41	100	QPSK	B	2	0145M	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.67	135	0	Bottom	10	0.362	1.079	0.393		22.0	
Hotspot	NR Band n41	100	QPSK	B	2	0145M	1:1	-0.08	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.86	1	1	Left	10	0.150	1.033	0.155		26.0	
Hotspot	NR Band n41	100	QPSK	B	2	0145M	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.67	135	0	Left	10	0.144	1.079	0.155		26.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram							
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]				
Body-worn/Hotspot	NR Band n41	100	B	1	0145M	1:1	0.01	2592.99	518598	CW/SRS	18.0	17.50	Back	5	0.739	1.122	0.829		18.8	18.8				
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 12-73| Plot A42

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	D	1	3272M	1:1	-0.05	2592.99	518598	CW/SRS	18.0	17.83	Back	5	0.957	1.040	0.995	Plot	18.0	18.0
Hotspot	NR Band n41	100	D	1	3272M	1:1	-0.02	2592.99	518598	CW/SRS	18.0	17.83	Front	5	0.283	1.040	0.294		23.3	
Hotspot	NR Band n41	100	D	1	3272M	1:1	0.01	2592.99	518598	CW/SRS	18.0	17.83	Bottom	10	0.132	1.040	0.137		26.6	
Hotspot	NR Band n41	100	D	1	3272M	1:1	0.06	2592.99	518598	CW/SRS	18.0	17.83	Right	10	0.031	1.040	0.032		32.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram						19
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	D	2	3272M	1:1	0.01	2592.99	518598	CW/SRS	18.0	17.82	Back	5	0.924	1.042	0.963		18.1	18.1
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 12-74

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	E	1	3272M	1:1	-0.03	2592.99	518598	CW/SRS	18.0	17.61	Back	5	0.606	1.094	0.663		19.7	19.7
Hotspot	NR Band n41	100	E	1	3272M	1:1	-0.04	2592.99	518598	CW/SRS	18.0	17.61	Front	5	0.375	1.094	0.410		21.8	
Hotspot	NR Band n41	100	E	1	3272M	1:1	-0.03	2592.99	518598	CW/SRS	18.0	17.61	Top	10	0.175	1.094	0.191		25.1	
Hotspot	NR Band n41	100	E	1	3272M	1:1	-0.03	2592.99	518598	CW/SRS	18.0	17.61	Right	10	0.162	1.094	0.177		25.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	E	2	3272M	1:1	0.04	2592.99	518598	CW/SRS	18.0	17.71	Back	5	0.655	1.069	0.700		19.5	19.5
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 12-75| Plot A43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	NR Band n41	100	QPSK	F	1	0041M	1:1	0.14	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.85	1	1	Top	0	1.830	1.035	1.894		19.2	18.5
Phablet	NR Band n41	100	QPSK	F	1	0041M	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.65	135	0	Top	0	1.740	1.084	1.886		19.2	
Phablet	NR Band n41	100	QPSK	F	1	0041M	1:1	0.10	2592.99	518598	CP-OFDM	0.0	18.0	17.52	1	1	Top	0	1.970	1.117	2.206	Plot	18.5	
Phablet 4.0 W/kg (mW/g) averaged over 10 grams																								
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																								
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]				
Phablet	NR Band n41	100	F	2	0145M	1:1	-0.04	2592.99	518598	CW/SRS	18.0	17.90	Top	0	1.500	1.023	1.535		20.1	20.1				
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 12-76

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	NR Band n41	100	QPSK	B	2	0145M	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.86	1	1	Bottom	0	1.070	1.033	1.105		21.5	21.0
Phablet	NR Band n41	100	QPSK	B	2	0145M	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.67	135	0	Bottom	0	1.140	1.079	1.230		21.0	
Phablet	NR Band n41	100	QPSK	B	2	0145M	1:1	-0.04	2592.99	518598	CP-OFDM	0.0	18.0	17.59	1	1	Bottom	0	1.020	1.016	1.036		21.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Phablet 4.0 W/kg (mW/g) averaged over 10 grams								
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]				
Phablet	NR Band n41	100	B	1	0145M	1:1	0.02	2592.99	518598	CW/SRS	18.0	17.50	Bottom	0	1.160	1.122	1.302		20.8	20.8				
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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12.17 NR Band n77 Standalone SAR

Table 12-77| Plot A44

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n77	100	QPSK	F	3384M	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	14.0	13.33	1	1	Right Cheek	0	0.492	1.167	0.574		16.4	
Head	NR Band n77	100	QPSK	F	3384M	1:1	0.09	3930.00	662000	DFT-s-OFDM	0.0	14.0	12.22	1	1	Right Cheek	0	0.222	1.472	0.327		18.8	
Head	NR Band n77	100	QPSK	F	3384M	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	14.0	13.39	135	0	Right Cheek	0	0.470	1.151	0.541		16.6	
Head	NR Band n77	100	QPSK	F	3384M	1:1	0.07	3930.00	662000	DFT-s-OFDM	0.0	14.0	12.60	135	0	Right Cheek	0	0.225	1.380	0.311		19.0	
Head	NR Band n77	100	QPSK	F	3384M	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	14.0	13.33	1	1	Right Tilt	0	0.505	1.167	0.589		16.2	
Head	NR Band n77	100	QPSK	F	3384M	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	14.0	12.32	1	1	Right Tilt	0	0.242	1.472	0.356		18.4	
Head	NR Band n77	100	QPSK	F	3384M	1:1	-0.09	3750.00	650000	DFT-s-OFDM	0.0	14.0	13.39	135	0	Right Tilt	0	0.505	1.151	0.581		16.3	16.2
Head	NR Band n77	100	QPSK	F	3384M	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	14.0	12.60	135	0	Right Tilt	0	0.240	1.380	0.311		18.7	
Head	NR Band n77	100	QPSK	F	3384M	1:1	0.15	3750.00	650000	CP-OFDM	0.0	14.0	13.33	1	1	Right Tilt	0	0.510	1.167	0.595		16.2	
Head	NR Band n77	100	QPSK	F	0904M	1:1	0.04	3750.00	650000	DFT-s-OFDM	0.0	14.0	13.33	1	1	Left Cheek	0	0.229	1.167	0.267		19.7	
Head	NR Band n77	100	QPSK	F	3384M	1:1	0.04	3750.00	650000	DFT-s-OFDM	0.0	14.0	13.39	135	0	Left Cheek	0	0.239	1.151	0.275		19.6	
Head	NR Band n77	100	QPSK	F	0904M	1:1	-0.19	3750.00	650000	DFT-s-OFDM	0.0	14.0	13.33	1	1	Left Tilt	0	0.246	1.167	0.287		19.4	
Head	NR Band n77	100	QPSK	F	3384M	1:1	-0.08	3750.00	650000	DFT-s-OFDM	0.0	14.0	13.39	135	0	Left Tilt	0	0.251	1.151	0.289		19.3	
ANSI/IEEE CS5.1 1992 - SAFETY LIMIT																		Head					
Spatial Peak																		1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 1 gram					
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n77 DoD	100	QPSK	F	3384M	1:1	-0.05	3500.01	633334	DFT-s-OFDM	0.0	14.0	13.54	1	271	Right Cheek	0	0.631	1.112	0.702		15.5	
Head	NR Band n77 DoD	100	QPSK	F	3384M	1:1	0.08	3500.01	633334	DFT-s-OFDM	0.0	14.0	13.58	135	138	Right Cheek	0	0.636	1.102	0.701		15.5	
Head	NR Band n77 DoD	100	QPSK	F	3384M	1:1	-0.12	3500.01	633334	DFT-s-OFDM	0.0	14.0	13.54	1	271	Right Tilt	0	0.655	1.112	0.728	Plot	15.3	
Head	NR Band n77 DoD	100	QPSK	F	3384M	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	14.0	13.58	135	138	Right Tilt	0	0.652	1.102	0.719		15.4	
Head	NR Band n77 DoD	100	QPSK	F	3384M	1:1	0.03	3500.01	633334	CP-OFDM	0.0	14.0	13.45	1	1	Right Tilt	0	0.572	1.135	0.649		15.8	15.3
Head	NR Band n77 DoD	100	QPSK	F	3384M	1:1	-0.04	3500.01	633334	DFT-s-OFDM	0.0	14.0	13.54	1	271	Left Cheek	0	0.326	1.112	0.363		18.4	
Head	NR Band n77 DoD	100	QPSK	F	3384M	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	14.0	13.58	135	138	Left Cheek	0	0.296	1.102	0.246		18.8	
Head	NR Band n77 DoD	100	QPSK	F	3384M	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	14.0	13.54	1	271	Left Tilt	0	0.341	1.112	0.379		18.2	
Head	NR Band n77 DoD	100	QPSK	F	3384M	1:1	-0.05	3500.01	633334	DFT-s-OFDM	0.0	14.0	13.58	135	138	Left Tilt	0	0.347	1.102	0.382		18.1	
ANSI/IEEE CS5.1 1992 - SAFETY LIMIT																		Head					
Spatial Peak																		1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 1 gram					

Note: NR Band n77 DoD has been fully tested for antenna F because a significantly higher SAR was seen.

Table 12-78

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Head	NR Band n77	100	C	3384M	1:1	0.07	3750.00	650000	CW/SRS	13.5	13.05	Right Cheek	0	0.012	1.109	0.013		32.2	29.0	
Head	NR Band n77 DoD	100	C	3384M	1:1	0.03	3500.01	633334	CW/SRS	13.5	12.01	Right Tilt	0	0.009	1.409	0.013		32.4		
Head	NR Band n77	100	C	3384M	1:1	0.08	3750.00	650000	CW/SRS	13.5	13.05	Right Tilt	0	0.025	1.109	0.028		29.0		
Head	NR Band n77	100	C	3384M	1:1	0.04	3750.00	650000	CW/SRS	13.5	13.05	Left Cheek	0	0.015	1.109	0.017		31.2		
Head	NR Band n77	100	C	3384M	1:1	0.09	3750.00	650000	CW/SRS	13.5	13.05	Left Tilt	0	0.005	1.109	0.006		36.0		
ANSI/IEEE CS5.1 1992 - SAFETY LIMIT																		Head 1.6 W/kg (mW/g) averaged over 1 gram		
Spatial Peak Uncontrolled Exposure/General Population																				

Table 12-79

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n77 DoD	100	H	3384M	1:1	0.02	3500.01	633334	CW/SRS	13.5	11.70	Right Cheek	0	0.397	1.514	0.601		15.7	
Head	NR Band n77	100	H	3384M	1:1	0.03	3750.00	650000	CW/SRS	13.5	13.14	Right Cheek	0	0.599	1.086	0.651		15.3	
Head	NR Band n77	100	H	3384M	1:1	0.03	3930.00	662000	CW/SRS	13.5	11.80	Right Cheek	0	0.384	1.479	0.568		15.9	
Head	NR Band n77	100	H	3384M	1:1	0.01	3750.00	650000	CW/SRS	13.5	13.14	Right Tilt	0	0.037	1.086	0.040		27.4	15.3
Head	NR Band n77	100	H	3384M	1:1	0.17	3750.00	650000	CW/SRS	13.5	13.14	Left Cheek	0	0.415	1.086	0.451		16.9	
Head	NR Band n77	100	H	3384M	1:1	0.05	3930.00	662000	CW/SRS	13.5	11.80	Left Cheek	0	0.216	1.479	0.319		18.4	
Head	NR Band n77	100	H	3384M	1:1	0.08	3750.00	650000	CW/SRS	13.5	13.14	Left Tilt	0	0.029	1.086	0.031		28.5	
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 12-80

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]		
Head	NR Band n77	100	D	3289M	1:1	0.01	3750.00	650000	CW/SRS	13.5	13.26	Right Cheek	0	0.000	1.057	0.000		53.2	38.4		
Head	NR Band n77	100	D	3289M	1:1	0.01	3750.00	650000	CW/SRS	13.5	13.26	Right Tilt	0	0.000	1.057	0.000		53.2			
Head	NR Band n77 DoD	100	D	3289M	1:1	0.06	3500.01	633334	CW/SRS	13.5	12.78	Left Cheek	0	0.000	1.180	0.000		52.7			
Head	NR Band n77	100	D	3289M	1:1	0.01	3750.00	650000	CW/SRS	13.5	13.26	Left Cheek	0	0.003	1.057	0.003		38.4			
Head	NR Band n77	100	D	3289M	1:1	0.01	3750.00	650000	CW/SRS	13.5	13.26	Left Tilt	0	0.001	1.057	0.001		43.2			
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 12-81

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n77	100	QPSK	F	3384M	1:1	-0.13	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.32	1	1	Back	5	0.692	1.169	0.809			17.9
Body-worn/Hotspot	NR Band n77	100	QPSK	F	3384M	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	17.0	15.29	1	1	Back	5	0.343	1.483	0.506			19.9
Body-worn/Hotspot	NR Band n77 DoD	100	QPSK	F	3384M	1:1	-0.11	3500.01	633334	DFT-s-OFDM	0.0	17.0	16.31	135	138	Back	5	0.663	1.172	0.777			18.0
Body-worn/Hotspot	NR Band n77	100	QPSK	F	3384M	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.33	135	69	Back	5	0.539	1.167	0.746			18.2
Body-worn/Hotspot	NR Band n77	100	QPSK	F	3384M	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	17.0	15.29	135	0	Back	5	0.345	1.387	0.479			20.2
Body-worn/Hotspot	NR Band n77	100	QPSK	F	3384M	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.29	270	0	Back	5	0.632	1.178	0.744			18.2
Body-worn/Hotspot	NR Band n77	100	QPSK	F	3384M	1:1	-0.05	3750.00	650000	CP-OFDM	0.0	17.0	16.29	1	1	Back	5	0.656	1.178	0.773			18.1
Hotspot	NR Band n77	100	QPSK	F	3384M	1:1	-0.06	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.31	1	1	Front	5	0.482	1.169	0.562			19.4
Hotspot	NR Band n77	100	QPSK	F	3384M	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	17.0	15.29	1	1	Front	5	0.312	1.483	0.314			22.0
Hotspot	NR Band n77	100	QPSK	F	3384M	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.33	135	69	Front	5	0.424	1.167	0.495			20.0
Hotspot	NR Band n77	100	QPSK	F	3384M	1:1	-0.16	3930.00	662000	DFT-s-OFDM	0.0	17.0	15.38	135	0	Front	5	0.202	1.387	0.285			22.5
Hotspot	NR Band n77	100	QPSK	F	3384M	1:1	-0.08	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.32	1	1	Top	10	0.218	1.169	0.255			22.9
Hotspot	NR Band n77	100	QPSK	F	3384M	1:1	0.11	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.33	135	69	Top	10	0.214	1.167	0.250			23.0
Hotspot	NR Band n77	100	QPSK	F	3384M	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.32	1	1	Left	10	0.034	1.169	0.040			31.0
Hotspot	NR Band n77	100	QPSK	F	3384M	1:1	0.13	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.33	135	69	Left	10	0.031	1.167	0.036			31.4
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 12-82

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	C	3384M	1:1	-0.14	3500.01	633334	CW/SRS	16.5	14.93	Back	5	0.255	1.435	0.366			20.8
Body-worn/Hotspot	NR Band n77	100	C	3384M	1:1	-0.16	3750.00	650000	CW/SRS	16.5	16.34	Back	5	0.379	1.086	0.412			20.3
Body-worn/Hotspot	NR Band n77	100	C	3384M	1:1	-0.01	3930.00	662000	CW/SRS	16.5	14.94	Back	5	0.256	1.432	0.367			20.8
Hotspot	NR Band n77	100	C	3384M	1:1	0.02	3750.00	650000	CW/SRS	16.5	16.14	Front	5	0.324	1.086	0.352			21.0
Hotspot	NR Band n77	100	C	3384M	1:1	0.08	3750.00	650000	CW/SRS	16.5	16.14	Bottom	10	0.063	1.086	0.068			28.1
Hotspot	NR Band n77	100	C	3384M	1:1	-0.04	3750.00	650000	CW/SRS	16.5	16.14	Left	10	0.242	1.086	0.263			22.3
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			
Spatial Peak																		Body	
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram	

Table 12-83

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]		
Body-worn/Hotspot	NR Band n77 DoD	100	H	3384M	1:1	-0.10	3500.01	633334	CW/SRS	16.5	14.70	Back	5	0.390	1.514	0.590			18.7		
Body-worn/Hotspot	NR Band n77	100	H	3384M	1:1	-0.11	3750.00	650000	CW/SRS	16.5	16.10	Back	5	0.527	1.096	0.578			18.8		
Body-worn/Hotspot	NR Band n77	100	H	3384M	1:1	-0.06	3930.00	662000	CW/SRS	16.5	14.84	Back	5	0.262	1.466	0.384			20.6		
Hotspot	NR Band n77	100	H	3384M	1:1	-0.17	3750.00	650000	CW/SRS	16.5	16.10	Front	5	0.520	1.096	0.570			18.9		
Hotspot	NR Band n77	100	H	3384M	1:1	-0.17	3930.00	662000	CW/SRS	16.5	14.84	Front	5	0.336	1.466	0.493			19.5		
Hotspot	NR Band n77	100	H	3384M	1:1	0.03	3750.00	650000	CW/SRS	16.5	16.10	Left	10	0.051	1.096	0.056			29.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak																		Body			
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram			

Table 12-84| Plot A45

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	D	3289M	1:1	-0.03	3500.01	633334	CW/SRS	16.5	15.80	Back	5	0.752	1.175	0.884			17.0
Body-worn/Hotspot	NR Band n77	100	D	3289M	1:1	-0.06	3750.00	650000	CW/SRS	16.5	16.20	Back	5	1.040	1.072	1.115	Plot		16.0
Body-worn/Hotspot	NR Band n77	100	D	3289M	1:1	-0.03	3750.00	650000	CW/SRS	16.5	16.20	Back	5	1.040	1.072	1.115			16.0
Body-worn/Hotspot	NR Band n77	100	D	3289M	1:1	-0.05	3930.00	662000	CW/SRS	16.5	14.59	Back	5	0.487	1.552	0.756			17.7
Hotspot	NR Band n77	100	D	3289M	1:1	0.08	3750.00	650000	CW/SRS	16.5	16.20	Front	5	0.011	1.072	0.012			35.7
Hotspot	NR Band n77	100	D	3289M	1:1	0.03	3750.00	650000	CW/SRS	16.5	16.20	Bottom	10	0.022	1.072	0.024			32.7
Hotspot	NR Band n77	100	D	3289M	1:1	0.06	3750.00	650000	CW/SRS	16.5	16.20	Right	10	0.018	1.072	0.019			33.6
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: Blue entry represents variability measurement

Table 12-85| Plot A46

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	NR Band n77	100	QPSK	F	3384M	1:1	-0.13	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.30	1	1	Top	0	1.070	1.175	1.257			19.9
Phablet	NR Band n77	100	QPSK	F	3384M	1:1	-0.04	3930.00	662000	DFT-s-OFDM	0.0	17.0	15.29	1	1	Top	0	0.549	1.483	0.814			21.8
Phablet	NR Band n77	100	QPSK	F	3384M	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.31	135	69	Top	0	0.962	1.167	1.123			20.4
Phablet	NR Band n77	100	QPSK	F	3384M	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	17.0	15.58	135	0	Top	0	0.555	1.387	0.770			22.1
Phablet	NR Band n77	100	QPSK	F	3384M	1:1	0.03	3750.00	650000	CP-OFDM	0.0	17.0	16.29	1	1	Top	0	1.400	1.178	1.249			20.0
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Phablet 4.0 W/kg (mW/g) averaged over 10 grams					
Phablet	NR Band n77 DoD	100	QPSK	F	3384M	1:1	-0.02	3500.01	633334	DFT-s-OFDM	0.0	17.0	16.27	1	271	Top	0	1.310	1.183	1.550			19.0
Phablet	NR Band n77 DoD	100	QPSK	F	3384M	1:1	-0.06	3500.01	633334	DFT-s-OFDM	0.0	17.0	16.31	135	138	Top	0	1.380	1.172	1.617			18.8
Phablet	NR Band n77 DoD	100	QPSK	F	3384M	1:1	-0.09	3500.01	633334	CP-OFDM	0.0	17.0	16.17	1	1	Top	0	1.400	1.211	1.756	Plot		18.5
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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12.18 2.4 GHz WIFI SISO Standalone SAR

Table 12-86| Plot A47

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	G	0018M	98.86	0.05	2437.00	6	1.0	14.0	13.80	Right Cheek	0	0.449	1.047	1.012	0.449	Plot	17.2	17.2
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	G	0018M	98.86	0.04	2437.00	6	1.0	14.0	13.80	Right Tilt	0	0.177	1.047	1.012	0.188		21.2	
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	G	0018M	98.86	0.08	2437.00	6	1.0	14.0	13.80	Left Cheek	0	0.108	1.047	1.012	0.114		23.4	
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	G	0018M	98.86	0.00	2437.00	6	1.0	14.0	13.80	Left Tilt	0	0.056	1.047	1.012	0.059		26.2	
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 12-87

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	I	0018M	98.86	-0.06	2437.00	6	1.0	14.0	13.69	Right Cheek	0	0.261	1.074	1.012	0.284		19.4	17.5
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	I	0018M	98.86	0.02	2437.00	6	1.0	14.0	13.69	Right Tilt	0	0.031	1.074	1.012	0.034		28.7	
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	I	0018M	98.86	-0.03	2437.00	6	1.0	14.0	13.69	Left Cheek	0	0.409	1.074	1.012	0.445		17.5	
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	I	0018M	98.86	0.17	2437.00	6	1.0	14.0	13.69	Left Tilt	0	0.058	1.074	1.012	0.063		26.0	
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 12-88

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	G	0028M	98.86	-0.12	2437.00	6	1.0	16.0	15.28	Back	5	0.302	1.180	1.012	0.361		20.4	20.4
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	G	0028M	98.86	-0.01	2437.00	6	1.0	16.0	15.28	Front	5	0.204	1.180	1.012	0.244		22.1	
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	G	0028M	98.86	0.00	2437.00	6	1.0	16.0	15.28	Top	10	0.063	1.180	1.012	0.075		27.2	
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	G	0028M	98.86	0.06	2437.00	6	1.0	16.0	15.28	Left	10	0.178	1.180	1.012	0.213		22.7	
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 12-89

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	I	3383M	98.86	-0.03	2437.00	6	1.0	16.0	15.31	Back	5	0.246	1.172	1.012	0.292		21.3	21.3
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	I	3383M	98.86	0.05	2437.00	6	1.0	16.0	15.31	Front	5	0.247	1.172	1.012	0.293		21.3	
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	I	3383M	98.86	0.04	2437.00	6	1.0	16.0	15.31	Top	10	0.000	1.172	1.012	0.000		55.2	
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	I	3383M	98.86	-0.06	2437.00	6	1.0	16.0	15.31	Right	10	0.028	1.172	1.012	0.033		30.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram								

12.19 2.4 GHz WIFI MIMO Standalone SAR

Table 12-90

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	3383M	93.13	-0.02	2437.00	6	6.0	14.0	12.72	14.0	12.81	Right Cheek	0	0.352	1.343	1.074	0.508		16.9	16.9
Head	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	3383M	93.13	0.01	2437.00	6	6.0	14.0	12.72	14.0	12.81	Right Tilt	0	0.391	1.343	1.074	0.275		19.6	
Head	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	3383M	93.13	-0.05	2437.00	6	6.0	14.0	12.72	14.0	12.81	Left Cheek	0	0.250	1.343	1.074	0.447		17.4	
Head	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	3383M	93.13	-0.03	2437.00	6	6.0	14.0	12.72	14.0	12.81	Left Tilt	0	0.099	1.343	1.074	0.134		23.4	
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: To achieve the 17 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14 dBm.

Table 12-91| Plot A48

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	0028M	93.13	0.00	2437.00	6	6.0	16.0	14.74	16.0	14.69	Back	5	0.386	1.352	1.074	0.560	Plot	18.5	18.5
Hotspot	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	0028M	93.13	0.02	2437.00	6	6.0	16.0	14.74	16.0	14.69	Front	5	0.268	1.352	1.074	0.389		20.0	
Hotspot	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	0028M	93.13	-0.01	2437.00	6	6.0	16.0	14.74	16.0	14.69	Top	10	0.061	1.352	1.074	0.089		26.5	
Hotspot	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	0028M	93.13	-0.12	2437.00	6	6.0	16.0	14.74	16.0	14.69	Right	10	0.077	1.352	1.074	0.079		30.0	
Hotspot	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	0028M	93.13	-0.01	2437.00	6	6.0	16.0	14.74	16.0	14.69	Left	10	0.171	1.352	1.074	0.248		22.0	
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 19 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 16 dBm.

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12.20 5 GHz WIFI SISO Standalone SAR

Table 12-92

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	0.12	5290.00	58	U-NII-2A	29.3	12.0	11.14	Right Cheek	0	0.342	1.219	1.043	0.435		15.6	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	0.01	5690.00	138	U-NII-2C	29.3	12.0	11.59	Right Cheek	0	0.286	1.099	1.043	0.328		16.8	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	0.03	5775.00	155	U-NII-3	29.3	12.0	11.51	Right Cheek	0	0.235	1.119	1.043	0.274		17.6	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	0.08	5855.00	171	U-NII-4	29.3	12.0	11.58	Right Cheek	0	0.213	1.102	1.043	0.245		18.1	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	0.01	5290.00	58	U-NII-2A	29.3	12.0	11.14	Right Tilt	0	0.181	1.219	1.043	0.230		18.3	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	0.04	5690.00	138	U-NII-2C	29.3	12.0	11.59	Right Tilt	0	0.164	1.099	1.043	0.188		19.2	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	0.03	5775.00	155	U-NII-3	29.3	12.0	11.51	Right Tilt	0	0.134	1.119	1.043	0.156		20.0	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	0.01	5855.00	171	U-NII-4	29.3	12.0	11.58	Right Tilt	0	0.123	1.102	1.043	0.141		20.4	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	0.07	5290.00	58	U-NII-2A	29.3	12.0	11.14	Left Cheek	0	0.087	1.219	1.043	0.111		21.5	15.6
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	0.17	5610.00	138	U-NII-2C	29.3	12.0	11.59	Left Cheek	0	0.116	1.099	1.043	0.133		20.7	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	-0.17	5775.00	155	U-NII-3	29.3	12.0	11.51	Left Cheek	0	0.071	1.119	1.043	0.083		22.8	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	-0.09	5855.00	171	U-NII-4	29.3	12.0	11.58	Left Cheek	0	0.065	1.102	1.043	0.075		23.2	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	0.01	5290.00	58	U-NII-2A	29.3	12.0	11.14	Left Tilt	0	0.069	1.219	1.043	0.088		22.5	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	0.07	5610.00	138	U-NII-2C	29.3	12.0	11.59	Left Tilt	0	0.103	1.099	1.043	0.118		21.2	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	0.06	5775.00	155	U-NII-3	29.3	12.0	11.51	Left Tilt	0	0.060	1.119	1.043	0.070		23.5	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	3286M	95.91	-0.21	5855.00	171	U-NII-4	29.3	12.0	11.58	Left Tilt	0	0.064	1.102	1.043	0.074		23.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Head		1.6 W/kg (mW/g) averaged over 1 gram				
Spatial Peak																Uncontrolled Exposure/General Population						

Table 12-93

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.08	5290.00	58	U-NII-2A	29.3	12.0	10.77	Right Cheek	0	0.065	1.327	1.043	0.090		22.4	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.07	5690.00	138	U-NII-2C	29.3	12.0	10.65	Right Cheek	0	0.091	1.365	1.043	0.130		20.8	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.07	5775.00	155	U-NII-3	29.3	12.0	10.43	Right Cheek	0	0.071	1.435	1.043	0.106		21.7	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.01	5855.00	171	U-NII-4	29.3	12.0	10.52	Right Cheek	0	0.104	1.406	1.043	0.153		20.1	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.05	5290.00	58	U-NII-2A	29.3	12.0	10.77	Right Tilt	0	0.058	1.327	1.043	0.080		22.9	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.04	5690.00	138	U-NII-2C	29.3	12.0	10.65	Right Tilt	0	0.106	1.365	1.043	0.151		20.2	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.08	5775.00	155	U-NII-3	29.3	12.0	10.43	Right Tilt	0	0.065	1.435	1.043	0.097		22.1	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.08	5855.00	171	U-NII-4	29.3	12.0	10.52	Right Tilt	0	0.044	1.406	1.043	0.065		23.9	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.07	5290.00	58	U-NII-2A	29.3	12.0	10.77	Left Cheek	0	0.124	1.327	1.043	0.124		16.8	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.12	5690.00	138	U-NII-2C	29.3	12.0	10.65	Left Cheek	0	0.129	1.365	1.043	0.184		19.3	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.03	5775.00	155	U-NII-3	29.3	12.0	10.43	Left Cheek	0	0.100	1.435	1.043	0.150		20.2	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.03	5855.00	171	U-NII-4	29.3	12.0	10.52	Left Cheek	0	0.068	1.406	1.043	0.100		22.0	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.02	5290.00	58	U-NII-2A	29.3	12.0	10.77	Left Tilt	0	0.118	1.327	1.043	0.146		18.0	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.01	5690.00	138	U-NII-2C	29.3	12.0	10.65	Left Tilt	0	0.084	1.385	1.043	0.120		21.2	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.07	5775.00	155	U-NII-3	29.3	12.0	10.43	Left Tilt	0	0.124	1.435	1.043	0.186		19.3	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.09	5855.00	171	U-NII-4	29.3	12.0	10.52	Left Tilt	0	0.095	1.406	1.043	0.139		20.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Head		1.6 W/kg (mW/g) averaged over 1 gram				
Spatial Peak																Uncontrolled Exposure/General Population						

Table 12-94

e	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn	5 GHz WIFI / IEEE 802.11ac	80	OFDM	G	3286M	95.91	-0.09	5290.00	58	U-NII-2A	29.3	12.5	11.53	Back	5	0.254	1.250	1.043	0.331		17.3	17.3
Body-worn	5 GHz WIFI / IEEE 802.11ac	80	OFDM	G	3286M	95.91	-0.21	5610.00	138	U-NII-2C	29.3	12.5	11.87	Back	5	0.242	1.156	1.043	0.292		17.8	
Body-worn	5 GHz WIFI / IEEE 802.11ac	80	OFDM	G	3286M	95.91	-0.19	5855.00	171	U-NII-4	29.3	12.5	11.70	Back	5	0.126	1.202	1.043	0.158		20.5	
Body-worn/Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	G	3286M	95.91	-0.15	5775.00	155	U-NII-3	29.3	12.5	11.68	Back	5	0.150	1.208	1.043	0.189		19.7	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	G	3282M	95.91	0.01	5210.00	42	U-NII-1	29.3	12.5	11.04	Front	5	0.124	1.400	1.043	0.181		19.9	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	G	3286M	95.91	0.12	5775.00	155	U-NII-3	29.3	12.5	11.68	Front	5	0.103	1.208	1.043	0.130		21.3	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	G	3282M	95.91	0.02	5210.00	42	U-NII-1	29.3	12.5	11.04	Top	10	0.012	1.400	1.043	0.012		27.4	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	G	3282M	95.91	0.02	5775.00	155	U-NII-3	29.3	12.5	11.68	Top	10	0.013	1.208	1.043	0.016		30.3	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	G	3282M	95.91	0.06	5210.00	42	U-NII-1	29.3	12.5	11.04	Left	10	0.098	1.400	1.043	0.143		20.9	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	G	3282M	95.91	-0.18	5775.00	155	U-NII-3	29.3	12.5	11.68	Left	10	0.054	1.208	1.043	0.068		24.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body		1.6 W/kg (mW/g) averaged over 1.6cm				
Spatial Peak																Uncontrolled Exposure/General Population						

Table 12-95) Plot A50

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.04	5290.00	58	U-NII-2A	29.3	12.5	11.10	Back	5	0.125	1.380	1.043	0.180		19.9	
Body-worn	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.02	5690.00	138	U-NII-2C	29.3	12.5	10.98	Back	5	0.154	1.419	1.043	0.228		18.9	
Body-worn	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	-0.02	5855.00	171	U-NII-4	29.3	12.5	10.87	Back	5	0.289	1.455	1.043	0.439	Plot	16.0	
Body-worn/Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	-0.15	5775.00	155	U-NII-3	29.3	12.5	10.68	Back	5	0.160	1.521	1.043	0.264		18.4	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3285M	95.86	0.04	5210.00	42	U-NII-1	29.3	12.5	10.97	Front	5	0.087	1.422	1.043	0.123		21.3	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.02	5690.00	138	U-NII-2C	29.3	12.5	10.98	Front	5	0.154	1.419	1.043	0.228		18.9	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3285M	95.86	0.05	5210.00	42	U-NII-1	29.3	12.5	10.97	Front	5	0.093	1.521	1.043	0.207		20.0	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3282M	95.86	0.09	5775.00	155	U-NII-3	29.3	12.5	10.68	Front	10	0.032	1.521	1.043	0.051		25.4	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3285M	95.86	0.07	5210.00	42	U-NII-1	29.3	12.5	10.97	Front	10	0.038	1.422	1.043	0.053		23.7	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	3282M	95.86	0.03	5775.00	155	U-NII-3	29.3	12.5	10.68	Right	10	0.004	1.521	1.043	0.006		34.4	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																						
Spatial Peak																Body						
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-96| Plot A52

	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	0028M	95.91	0.04	5290.00	58	U-NII-2A	29.3	12.5	11.53	Back	0	0.424	1.250	1.043	0.553		19.0	16.4	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	0028M	95.91	0.00	5610.00	138	U-NII-2C	29.3	12.5	11.87	Back	0	0.611	1.156	1.043	0.737		17.8		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	0028M	95.91	-0.16	5855.00	171	U-NII-4	29.3	12.5	11.70	Back	0	0.569	1.202	1.043	0.463		19.8		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	0028M	95.91	-0.01	5290.00	58	U-NII-2A	29.3	12.5	11.53	Front	0	0.394	1.250	1.043	0.514		19.3		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	0028M	95.91	-0.01	5610.00	138	U-NII-2C	29.3	12.5	11.87	Front	0	0.460	1.156	1.043	0.555		19.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	0028M	95.91	0.01	5855.00	171	U-NII-4	29.3	12.5	11.70	Front	0	0.517	1.202	1.043	0.397		20.4		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	0028M	95.91	0.00	5290.00	58	U-NII-2A	29.3	12.5	11.53	Top	0	0.102	1.250	1.043	0.133		25.2		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	0028M	95.91	-0.05	5610.00	138	U-NII-2C	29.3	12.5	11.87	Top	0	0.156	1.156	1.043	0.188		23.7		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	0028M	95.91	-0.04	5855.00	171	U-NII-4	29.3	12.5	11.70	Top	0	0.085	1.202	1.043	0.107		26.2		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	0028M	95.91	-0.07	5290.00	58	U-NII-2A	29.3	12.5	11.53	Left	0	0.533	1.250	1.043	0.695		18.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	0028M	95.91	0.01	5610.00	138	U-NII-2C	29.3	12.5	11.87	Left	0	0.843	1.156	1.043	0.016	Plot	16.4		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	G	0028M	95.91	0.03	5855.00	171	U-NII-4	29.3	12.5	11.70	Left	0	0.757	1.202	1.043	0.949		16.7		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																Phablet		4.0 W/kg (mW/g) averaged over 10 grams					
Spatial Peak																Uncontrolled Exposure/General Population							

Table 12-97

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.04	5290.00	58	U-NII-2A	29.3	12.5	11.10	Back	0	0.091	1.380	1.043	0.131		25.3	22.5
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.09	5690.00	138	U-NII-2C	29.3	12.5	10.98	Back	0	0.101	1.419	1.043	0.149		24.7	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	3382M	95.86	0.06	5855.00	171	U-NII-4	29.3	12.5	10.87	Back	0	0.164	1.455	1.043	0.249		22.5	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	0028M	95.86	-0.07	5290.00	58	U-NII-2A	29.3	12.5	11.10	Front	0	0.129	1.380	1.043	0.186		23.7	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.02	5690.00	138	U-NII-2C	29.3	12.5	10.98	Front	0	0.095	1.419	1.043	0.141		24.9	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	3382M	95.86	-0.19	5855.00	171	U-NII-4	29.3	12.5	10.87	Front	0	0.062	1.455	1.043	0.094		26.7	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.01	5290.00	58	U-NII-2A	29.3	12.5	11.10	Top	0	0.047	1.380	1.043	0.068		28.1	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	3382M	95.86	0.03	5690.00	138	U-NII-2C	29.3	12.5	10.98	Top	0	0.070	1.419	1.043	0.104		26.3	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	3382M	95.86	0.04	5855.00	171	U-NII-4	29.3	12.5	10.87	Top	0	0.080	1.455	1.043	0.121		25.6	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	3286M	95.86	0.04	5290.00	58	U-NII-2A	29.3	12.5	11.10	Right	0	0.103	1.380	1.043	0.148		24.7	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	3382M	95.86	0.01	5690.00	138	U-NII-2C	29.3	12.5	10.98	Right	0	0.032	1.419	1.043	0.047		29.7	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	3382M	95.86	0.05	5855.00	171	U-NII-4	29.3	12.5	10.87	Right	0	0.015	1.455	1.043	0.023		32.9	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																Spatial Peak		Phablet				
Uncontrolled Exposure/General Population																		4.0 W/kg (mW/g) averaged over 10 grams				

12.21 5 GHz WIFI MIMO Standalone SAR

Table 12-98| Plot A49

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	0.03	5290.00	58	U-NII-2A	58.5	12.0	11.97	12.0	10.89	Right Cheek	0	0.374	1.291	1.084	0.523	Plot	14.8	14.7
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	0.04	5610.00	122	U-NII-2C	58.5	12.0	11.49	12.0	10.45	Right Cheek	0	0.340	1.429	1.084	0.527		14.7	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	-0.19	5775.00	155	U-NII-3	58.5	12.0	11.46	12.0	10.69	Right Cheek	0	0.224	1.352	1.084	0.328		16.8	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	-0.13	5855.00	171	U-NII-4	58.5	12.0	11.25	12.0	10.48	Right Cheek	0	0.187	1.419	1.084	0.288		17.4	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	-0.06	5290.00	58	U-NII-2A	58.5	12.0	11.97	12.0	10.89	Right Tilt	0	0.200	1.291	1.084	0.280		17.5	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	-0.10	5610.00	122	U-NII-2C	58.5	12.0	11.49	12.0	10.45	Right Tilt	0	0.224	1.429	1.084	0.347		16.5	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	-0.10	5775.00	155	U-NII-3	58.5	12.0	11.46	12.0	10.69	Right Tilt	0	0.136	1.352	1.084	0.199		19.0	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	0.03	5855.00	171	U-NII-4	58.5	12.0	11.25	12.0	10.48	Right Tilt	0	0.121	1.419	1.084	0.186		19.3	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	-0.11	5290.00	58	U-NII-2A	58.5	12.0	11.97	12.0	10.89	Left Cheek	0	0.259	1.291	1.084	0.362		16.4	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	0.09	5610.00	122	U-NII-2C	58.5	12.0	11.49	12.0	10.45	Left Cheek	0	0.192	1.429	1.084	0.297		17.2	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	-0.07	5775.00	155	U-NII-3	58.5	12.0	11.46	12.0	10.69	Left Cheek	0	0.131	1.352	1.084	0.192		19.1	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	0.09	5855.00	171	U-NII-4	58.5	12.0	11.25	12.0	10.48	Left Cheek	0	0.056	1.419	1.084	0.086		22.6	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	0.05	5290.00	58	U-NII-2A	58.5	12.0	11.97	12.0	10.89	Left Tilt	0	0.191	1.291	1.084	0.267		17.7	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	-0.17	5610.00	122	U-NII-2C	58.5	12.0	11.49	12.0	10.45	Left Tilt	0	0.181	1.429	1.084	0.280		17.5	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	0.21	5775.00	155	U-NII-3	58.5	12.0	11.46	12.0	10.69	Left Tilt	0	0.080	1.352	1.084	0.117		21.1	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	0.19	5855.00	171	U-NII-4	58.5	12.0	11.25	12.0	10.48	Left Tilt	0	0.110	1.419	1.084	0.189		19.7	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																Spatial Peak		Head						
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)		averaged over 1 gram						

Note: To achieve the 15 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 12 dBm.

Table 12-99| Plot A51

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Body worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3383M	92.22	-0.09	5290.00	58	U-NII-2A	58.5	12.5	11.48	12.5	11.00	Back	5	0.256	1.413	1.084	0.392		16.5	
Body worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3383M	92.22	-0.06	5610.00	122	U-NII-2C	58.5	12.5	11.70	12.5	10.51	Back	5	0.176	1.581	1.084	0.302		17.7	
Body worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	-0.17	5855.00	171	U-NII-4	58.5	12.5	11.09	12.5	10.77	Back	5	0.243	1.489	1.084	0.392		16.5	
Body worn/Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3383M	92.22	0.03	5775.00	155	U-NII-3	58.5	12.5	11.75	12.5	10.81	Back	5	0.231	1.476	1.084	0.370	Plot	16.8	
Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3236M	92.22	0.02	5210.00	42	U-NII-3	58.5	12.5	10.99	12.5	10.93	Front	5	0.151	1.442	1.084	0.236		18.7	
Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3286M	92.22	0.03	5775.00	155	U-NII-3	58.5	12.5	11.75	12.5	10.81	Front	5	0.231	1.476	1.084	0.370		21.2	
Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3236M	92.22	0.09	5210.00	42	U-NII-3	58.5	12.5	10.99	12.5	10.93	Top	10	0.041	1.442	1.084	0.004		24.8	
Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3236M	92.22	0.09	5775.00	155	U-NII-3	58.5	12.5	11.75	12.5	10.81	Top	10	0.029	1.476	1.084	0.006		25.3	
Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3236M	92.22	0.09	5775.00	155	U-NII-3	58.5	12.5	11.75	12.5	10.81	Right	10	0.027	1.476	1.084	0.011		24.7	
Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3382M	92.22	0.08	5775.00	155	U-NII-3	58.5	12.5	11.75	12.5	10.81	Left	10	0.050	1.476	1.084	0.050		20.4	
Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3382M	92.22	0.04	5210.00	42	U-NII-3	58.5	12.5	10.99	12.5	10.93	Left	10	0.043	1.476	1.084	0.043		24.8	
Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	3382M	92.22	0.03	5775.00	155	U-NII-3	58.5	12.5	11.75	12.5	10.81	Right	10	0.075	1.476	1.084	0.130		21.7	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																			Body					
Spatial Peak																			averaged over 1 gram					
Unrestricted Exposure/General Population																								

Table 12-100

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	-0.07	5290.00	58	U-NI-2A	58.5	12.5	11.48	12.5	11.00	Back	0	0.388	1.413	1.084	0.594		18.7	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	0.05	5610.00	122	U-NI-2C	58.5	12.5	11.70	12.5	10.51	Back	0	0.591	1.581	1.084	1.013		16.4	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	0.03	5850.00	171	U-NI-4	58.5	12.5	11.38	12.5	10.77	Back	0	0.453	1.489	1.084	0.751		17.8	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	-0.02	5290.00	58	U-NI-2A	58.5	12.5	11.48	12.5	11.00	Front	0	0.385	1.413	1.084	0.584		18.8	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	0.00	5610.00	122	U-NI-2C	58.5	12.5	11.70	12.5	10.51	Front	0	0.472	1.581	1.084	0.809		17.3	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	-0.02	5850.00	171	U-NI-4	58.5	12.5	11.38	12.5	10.77	Front	0	0.390	1.489	1.084	0.684		19.0	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	-0.08	5290.00	58	U-NI-2A	58.5	12.5	11.48	12.5	11.00	Top	0	0.098	1.413	1.084	0.150		24.7	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	-0.10	5610.00	122	U-NI-2C	58.5	12.5	11.70	12.5	10.51	Top	0	0.158	1.581	1.084	0.271		22.1	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	-0.09	5850.00	171	U-NI-4	58.5	12.5	11.38	12.5	10.77	Top	0	0.094	1.489	1.084	0.152		24.6	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	-0.10	5290.00	58	U-NI-2A	58.5	12.5	11.48	12.5	11.00	Right	0	0.081	1.413	1.084	0.124		25.5	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	-0.10	5610.00	122	U-NI-2C	58.5	12.5	11.70	12.5	10.51	Right	0	0.082	1.581	1.084	0.141		24.9	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	-0.01	5850.00	171	U-NI-4	58.5	12.5	11.38	12.5	10.77	Right	0	0.054	1.489	1.084	0.087		27.0	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	0.05	5290.00	58	U-NI-2A	58.5	12.5	11.48	12.5	11.00	Left	0	0.592	1.413	1.084	0.907		16.9	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	0.10	5610.00	122	U-NI-2C	58.5	12.5	11.70	12.5	10.51	Left	0	0.680	1.581	1.084	1.165		15.8	
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0028M	92.22	0.01	5850.00	171	U-NI-4	58.5	12.5	11.38	12.5	10.77	Left	0	0.748	1.489	1.084	1.207		15.6	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		Phablet						
Spatial Peak																		4.0 W/kg (mW/g)						
Uncontrolled Exposure/General Population																		averaged over 10 grams						

Note: To achieve the 15.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 12.5 dBm.

12.22 6 GHz WIFI SISO Standalone SAR and APD

Table 12-101

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.03	6025.00	15	68.1	10.5	10.44	Right Cheek	0	0.193	1.014	1.003	0.196		17.5	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.02	6345.00	79	68.1	10.5	10.24	Right Cheek	0	0.145	1.062	1.003	0.154		18.6	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.03	6505.00	111	68.1	10.5	9.54	Right Cheek	0	0.102	1.247	1.003	0.128		19.4	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.01	6665.00	143	68.1	10.5	9.36	Right Cheek	0	0.082	1.300	1.003	0.107		20.2	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.04	6985.00	207	68.1	10.5	9.75	Right Cheek	0	0.051	1.189	1.003	0.081		22.6	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	-0.02	6025.00	15	68.1	10.5	10.44	Right Tilt	0	0.109	1.014	1.003	0.111		20.0	17.5
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.02	6025.00	15	68.1	10.5	10.44	Left Cheek	0	0.049	1.014	1.003	0.050		23.5	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.07	6025.00	15	68.1	10.5	10.44	Left Tilt	0	0.051	1.014	1.003	0.052		23.3	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT															Head						
Spatial Peak															1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population															averaged over 1 gram						

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.03	6025.00	15	68.1	10.5	10.44	Right Cheek	0	1.320	1.014	1.003	1.342		20.2	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.02	6345.00	79	68.1	10.5	10.24	Right Cheek	0	0.917	1.062	1.003	0.977		21.6	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.03	6505.00	111	68.1	10.5	9.54	Right Cheek	0	0.636	1.247	1.003	0.795		22.4	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.01	6665.00	143	68.1	10.5	9.36	Right Cheek	0	0.527	1.300	1.003	0.687		23.1	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.04	6985.00	207	68.1	10.5	9.75	Right Cheek	0	0.327	1.189	1.003	0.390		25.5	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	-0.02	6025.00	15	68.1	10.5	10.44	Right Tilt	0	0.764	1.014	1.003	0.777		22.6	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.02	6025.00	15	68.1	10.5	10.44	Left Cheek	0	0.333	1.014	1.003	0.339		26.2	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.07	6025.00	15	68.1	10.5	10.44	Left Tilt	0	0.340	1.014	1.003	0.346		26.1	

Table 12-102

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.02	6505.00	111	68.1	10.5	8.95	Right Cheek	0	0.017	1.429	1.003	0.024		26.6	
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.07	6505.00	111	68.1	10.5	8.95	Right Tilt	0	0.017	1.429	1.003	0.024		26.6	
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	F	3236M	99.69	0.08	6505.00	111	68.1	10.5	8.95	Left Cheek	0	0.017	1.429	1.003	0.024		26.6	
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.10	6505.00	111	68.1	10.5	8.95	Left Tilt	0	0.019	1.429	1.003	0.027		26.1	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT															Head						
Spatial Peak															1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population															averaged over 1 gram						

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.02	6505.00	111	68.1	10.5	8.95	Right Cheek	0	0.098	1.429	1.003	0.140		30.0	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.07	6505.00	111	68.1	10.5	8.95	Right Tilt	0	0.133	1.429	1.003	0.191		28.7	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.08	6505.00	111	68.1	10.5	8.95	Left Cheek	0	0.095	1.429	1.003	0.136		30.1	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.10	6505.00	111	68.1	10.5	8.95	Left Tilt	0	0.134	1.429	1.003	0.192		28.6	

Table 12-103

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Body-worn/Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.04	6025.00	15	68.1	10.5	10.44	Back	5	0.137	1.014	1.003	0.139		19.0		
Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.02	6025.00	15	68.1	10.5	10.44	Front	5	0.072	1.014	1.003	0.073		21.8		
Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.01	6025.00	15	68.1	10.5	10.44	Top	10	0.016	1.014	1.003	0.016		28.3		
Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.03	6025.00	15	68.1	10.5	10.44	Left	10	0.083	1.014	1.003	0.083		21.2		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																						
Spatial Peak													Body									
Uncontrolled Exposure/General Population													1.6 W/kg (mW/g) averaged over 1 gram									
Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured AFD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported AFD [W/m² (4cm²)]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Body-worn/Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.04	6025.00	15	68.1	10.5	10.44	Back	5	0.856	1.014	1.003	0.871		22.1		
Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.02	6025.00	15	68.1	10.5	10.44	Front	5	0.516	1.014	1.003	0.525		24.3		
Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.01	6025.00	15	68.1	10.5	10.44	Top	10	0.158	1.014	1.003	0.160		31.0		
Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.03	6025.00	15	68.1	10.5	10.44	Left	10	0.618	1.014	1.003	0.628		23.6		
																					22.1	

Table 12-104| Plot A54

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Body-worn/Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.07	6025.00	15	68.1	10.5	8.61	Back	5	0.247	1.545	1.003	0.383		14.6	
Body-worn/Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.03	6345.00	79	68.1	10.5	8.57	Back	5	0.285	1.560	1.003	0.446	Plot	14.0	
Body-worn/Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.02	6505.00	111	68.1	10.5	8.95	Back	5	0.382	1.429	1.003	0.404		14.4	
Body-worn/Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.07	6665.00	143	68.1	10.5	8.53	Back	5	0.174	1.574	1.003	0.275		16.1	
Body-worn/Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.06	6985.00	207	68.1	10.5	8.67	Back	5	0.167	1.524	1.003	0.255		16.4	
Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.04	6505.00	111	68.1	10.5	8.95	Front	5	0.008	1.429	1.003	0.011		29.9	
Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.01	6505.00	111	68.1	10.5	8.95	Top	10	0.013	1.429	1.003	0.047		23.7	
Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.06	6505.00	111	68.1	10.5	8.95	Right	10	0.002	1.429	1.003	0.003		35.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Body-worn/Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.07	6025.00	15	68.1	10.5	8.61	Back	5	1.790	1.545	1.003	2.774		17.0	
Body-worn/Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.03	6345.00	79	68.1	10.5	8.57	Back	5	2.000	1.560	1.003	3.405	Plot	16.5	
Body-worn/Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.02	6505.00	111	68.1	10.5	8.95	Back	5	1.920	1.429	1.003	2.752		17.1	
Body-worn/Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.07	6665.00	143	68.1	10.5	8.53	Back	5	1.200	1.574	1.003	1.894		16.7	
Body-worn/Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.06	6985.00	207	68.1	10.5	8.67	Back	5	1.010	1.524	1.003	1.544		19.6	
Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.04	6505.00	111	68.1	10.5	8.95	Front	5	0.017	1.429	1.003	0.039		35.6	
Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.01	6505.00	111	68.1	10.5	8.95	Top	10	0.263	1.429	1.003	0.377		25.7	
Hotspot	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	3236M	99.69	0.06	6505.00	111	68.1	10.5	8.95	Right	10	0.015	1.429	1.003	0.021		38.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Phabiet 4.0 W/kg (mW/g) averaged over 10 grams							

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	-0.05	6025.00	15	68.1	10.5	10.44	Back	0	5.320	1.014	1.003	5.411		14.1	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.05	6025.00	15	68.1	10.5	10.44	Front	0	3.270	1.014	1.003	3.326		16.2	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.06	6025.00	15	68.1	10.5	10.44	Top	0	1.110	1.014	1.003	1.129		20.9	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.01	6025.00	15	68.1	10.5	10.44	Left	0	8.780	1.014	1.003	8.930		11.9	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.01	6345.00	79	68.1	10.5	10.24	Left	0	9.420	1.062	1.003	10.046		11.4	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.04	6505.00	111	68.1	10.5	9.54	Left	0	6.880	1.247	1.003	8.605		12.1	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	0.01	6665.00	143	68.1	10.5	9.36	Left	0	5.590	1.300	1.003	7.389		12.8	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	3236M	99.67	-0.08	6985.00	207	68.1	10.5	9.75	Left	0	3.560	1.189	1.003	4.246		15.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Phabiet 4.0 W/kg (mW/g) averaged over 10 grams							

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.08	6025.00	15	68.1	10.5	8.61	Back	0	0.136	1.545	1.003	0.309		21.2	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.09	6345.00	79	68.1	10.5	8.57	Back	0	0.215	1.560	1.003	0.336		19.2	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.05	6505.00	111	68.1	10.5	8.95	Back	0	0.211	1.429	1.003	0.302		19.6	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.07	6665.00	143	68.1	10.5	8.53	Back	0	0.171	1.574	1.003	0.270		20.1	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.05	6985.00	207	68.1	10.5	8.67	Back	0	0.144	1.524	1.003	0.220		21.0	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.06	6345.00	79	68.1	10.5	8.57	Front	0	0.021	1.560	1.003	0.031		29.3	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.09	6345.00	79	68.1	10.5	8.57	Top	0	0.094	1.560	1.003	0.147		22.8	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.03	6345.00	79	68.1	10.5	8.57	Right	0	0.005	1.560	1.003	0.008		35.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Phabiet 4.0 W/kg (mW/g) averaged over 10 grams							

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.08	6025.00	15	68.1	10.5	8.61	Back	0	3.130	1.545	1.003	4.850		14.6	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.09	6345.00	79	68.1	10.5	8.57	Back	0	4.940	1.560	1.003	7.730		12.6	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.05	6505.00	111	68.1	10.5	8.95	Back	0	4.830	1.429	1.003	6.923		13.1	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.07	6665.00	143	68.1	10.5	8.53	Back	0	3.910	1.574	1.003	6.173		13.6	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.05	6985.00	207	68.1	10.5	8.67	Back	0	3.300	1.524	1.003	5.044		14.4	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.06	6345.00	79	68.1	10.5	8.57	Front	0	0.462	1.560	1.003	0.723		22.9	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.09	6345.00	79	68.1	10.5	8.57	Top	0	2.150	1.560	1.003	3.364		16.2	
Phabiet	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0086M	99.69	0.03	6345.00	79	68.1	10.5	8.57	Right	0	0.115	1.560	1.003	0.180		28.9	

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12.23 6 GHz WIFI MIMO Standalone SAR and APD

Table 12-107| Plot A53

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.07	6025.00	15	136.1	10.5	9.91	10.5	8.65	Right Cheek	0	0.218	1.531	1.004	0.335	Plot	15.2	15.2
Head	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.03	6025.00	15	136.1	10.5	9.91	10.5	8.65	Right Tilt	0	0.132	1.531	1.004	0.203		17.4	
Head	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.03	6025.00	15	136.1	10.5	9.91	10.5	8.65	Left Cheek	0	0.066	1.531	1.004	0.071		22.0	
Head	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.05	6025.00	15	136.1	10.5	9.91	10.5	8.65	Left Tilt	0	0.069	1.531	1.004	0.095		20.9	
AND/IEEE CS1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population 1.6 W/kg (mW/g) averaged over 1 gram																							
Note: To achieve the 13.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 10.5 dBm.																							
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.07	6025.00	15	136.1	10.5	9.91	10.5	8.65	Right Cheek	0	1.510	1.531	1.004	2.321	Plot	17.8	17.8
Head	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.01	6025.00	15	136.1	10.5	9.91	10.5	8.65	Right Tilt	0	0.238	1.531	1.004	1.443		19.9	
Head	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.01	6025.00	15	136.1	10.5	9.91	10.5	8.65	Left Cheek	0	0.329	1.531	1.004	0.506		24.4	
Head	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.05	6025.00	15	136.1	10.5	9.91	10.5	8.65	Left Tilt	0	0.426	1.531	1.004	0.655		23.3	
Note: To achieve the 13.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 10.5 dBm.																							

Table 12-108

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.09	6025.00	15	136.1	10.5	9.91	10.5	8.65	Back	5	0.257	1.531	1.004	0.395		14.5	14.5
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.21	6345.00	79	136.1	10.5	9.72	10.5	8.53	Back	5	0.230	1.574	1.004	0.395		14.5	
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.06	6005.00	111	136.1	10.5	9.29	10.5	8.96	Back	5	0.211	1.426	1.004	0.302		15.7	
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.00	6665.00	143	136.1	10.5	8.43	10.5	8.56	Back	5	0.160	1.563	1.004	0.251		16.5	
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.06	6085.00	207	136.1	10.5	9.77	10.5	8.78	Back	5	0.159	1.486	1.004	0.217		18.7	
Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	0986M	99.63	0.07	6025.00	15	136.1	10.5	9.91	10.5	8.65	Front	5	0.095	1.531	1.004	0.146		18.8	
Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.09	6025.00	15	136.1	10.5	9.91	10.5	8.65	Top	10	0.035	1.531	1.004	0.054		23.1	
Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.03	6025.00	15	136.1	10.5	9.91	10.5	8.65	Right	10	0.004	1.531	1.004	0.006		32.6	
Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.07	6025.00	15	136.1	10.5	9.91	10.5	8.65	Left	10	0.081	1.531	1.004	0.125		19.9	
AND/IEEE CS1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population 1.6 W/kg (mW/g) averaged over 1 gram																							
Note: To achieve the 13.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 10.5 dBm.																							
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.09	6025.00	15	136.1	10.5	9.91	10.5	8.65	Back	5	1.870	1.531	1.004	2.874		16.9	16.9
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.21	6345.00	79	136.1	10.5	9.72	10.5	8.53	Back	5	1.760	1.574	1.004	2.785		17.0	
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.06	6005.00	111	136.1	10.5	9.29	10.5	8.96	Back	5	1.500	1.426	1.004	2.176		18.1	
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.00	6665.00	143	136.1	10.5	8.43	10.5	8.56	Back	5	1.100	1.563	1.004	1.726		19.1	
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.06	6085.00	207	136.1	10.5	9.77	10.5	8.78	Back	5	1.020	1.486	1.004	1.522		19.6	
Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	0986M	99.63	0.07	6025.00	15	136.1	10.5	9.91	10.5	8.65	Front	5	0.617	1.531	1.004	1.010		21.4	
Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.09	6025.00	15	136.1	10.5	9.91	10.5	8.65	Top	10	0.284	1.531	1.004	0.452		24.9	
Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.03	6025.00	15	136.1	10.5	9.91	10.5	8.65	Right	10	0.019	1.531	1.004	0.029		36.8	
Hotspot	6 GHz WIF/ IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.07	6025.00	15	136.1	10.5	9.91	10.5	8.65	Left	10	0.620	1.531	1.004	0.953		21.7	
AND/IEEE CS1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population 1.6 W/kg (mW/g) averaged over 1 gram																							
Note: To achieve the 13.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 10.5 dBm.																							

Table 12-109| Plot A55

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #	Limit [dBm]	Overall Limit [dBm]
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.04	6025.00	15	136.1	10.5	9.91	10.5	8.65	Back	0	0.240	1.531	1.004	0.360		18.8	16.2
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.03	6025.00	15	136.1	10.5	9.91	10.5	8.65	Front	0	0.156	1.531	1.004	0.240		20.6	
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.09	6025.00	15	136.1	10.5	9.91	10.5	8.65	Top	0	0.052	1.531	1.004	0.080		25.4	
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.03	6025.00	15	136.1	10.5	9.91	10.5	8.65	Right	0	0.209	1.531	1.004	0.024		23.0	
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.09	6025.00	15	136.1	10.5	9.91	10.5	8.65	Left	0	0.407	1.531	1.004	0.626		16.5	
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.07	6345.00	79	136.1	10.5	9.72	10.5	8.53	Left	0	0.421	1.574	1.004	0.665	Plot	16.2	
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.01	6505.00	111	136.1	10.5	9.29	10.5	8.96	Left	0	0.215	1.426	1.004	0.463		17.9	
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.01	6665.00	143	136.1	10.5	8.43	10.5	8.56	Left	0	0.287	1.563	1.004	0.450		17.9	
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.02	6085.00	207	136.1	10.5	9.77	10.5	8.78	Left	0	0.172	1.486	1.004	0.257		20.3	
ANSI/IEEE C59.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population 4.0 W/kg (mW/g) averaged over 10 grams																							
Note: To achieve the 13.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 10.5 dBm.																							
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #	Limit [dBm]	Overall Limit [dBm]
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.04	6025.00	15	136.1	10.5	9.91	10.5	8.65	Back	0	6.680	1.531	1.004	8.731		12.0	9.5
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.03	6025.00	15	136.1	10.5	9.91	10.5	8.65	Front	0	3.980	1.531	1.004	5.503		14.1	
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.09	6025.00	15	136.1	10.5	9.91	10.5	8.65	Top	0	1.190	1.531	1.004	1.829		18.8	
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.03	6025.00	15	136.1	10.5	9.91	10.5	8.65	Right	0	0.219	1.531	1.004	0.337		26.2	
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.09	6025.00	15	136.1	10.5	9.91	10.5	8.65	Left	0	1.660	1.531	1.004	1.818		14.8	
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.07	6345.00	79	136.1	10.5	9.72	10.5	8.53	Left	0	1.900	1.574	1.004	1.760	Plot	9.5	
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.01	6505.00	111	136.1	10.5	9.29	10.5	8.96	Left	0	1.420	1.426	1.004	10.623		11.2	
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.01	6665.00	143	136.1	10.5	8.43	10.5	8.56	Left	0	1.860	1.563	1.004	10.677		11.6	
Phablet	6 GHz WIFU / IEEE 802.11ax	160	OFDM	MIMO	3236M	99.63	0.02	6085.00	207	136.1	10.5	9.77	10.5	8.78	Left	0	1.400	1.486	1.004	6.042		13.2	

12.24 2.4 GHz Bluetooth SISO Standalone SAR

Table 12-110

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	2.4 GHz Bluetooth	FHSS	G	3383M	76.80	-0.09	2480.00	78	1	13.0	12.23	Right Cheek	0	0.264	1.194	1.016	0.320	
Head	2.4 GHz Bluetooth LE	DSSS	G	3383M	85.49	0.02	2480.00	39	1	14.0	13.61	Right Cheek	0	0.293	1.094	1.018	0.326	
Head	2.4 GHz Bluetooth LE	DSSS	G	3383M	85.49	0.03	2480.00	39	1	14.0	13.61	Right Tilt	0	0.160	1.094	1.018	0.178	
Head	2.4 GHz Bluetooth LE	DSSS	G	3383M	85.49	0.13	2480.00	39	1	14.0	13.61	Left Cheek	0	0.064	1.094	1.018	0.071	
Head	2.4 GHz Bluetooth LE	DSSS	G	3383M	85.49	-0.05	2480.00	39	1	14.0	13.61	Left Tilt	0	0.058	1.094	1.018	0.065	
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 12-111| Plot A56

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	2.4 GHz Bluetooth LE	DSSS	I	3383M	85.40	-0.03	2440.00	17	1	14.0	13.49	Right Cheek	0	0.262	1.125	1.019	0.300	
Head	2.4 GHz Bluetooth LE	DSSS	I	3383M	85.40	-0.17	2440.00	17	1	14.0	13.49	Right Tilt	0	0.030	1.125	1.019	0.034	
Head	2.4 GHz Bluetooth	FHSS	I	3383M	76.80	0.06	2402.00	0	1	13.0	12.26	Left Cheek	0	0.323	1.186	1.016	0.389	
Head	2.4 GHz Bluetooth LE	DSSS	I	3383M	85.40	-0.03	2440.00	17	1	14.0	13.49	Left Cheek	0	0.440	1.125	1.019	0.504	Plot
Head	2.4 GHz Bluetooth LE	DSSS	I	3383M	85.40	0.03	2440.00	17	1	14.0	13.49	Left Tilt	0	0.062	1.125	1.019	0.071	
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 12-112| Plot A57

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn/Hotspot	2.4 GHz Bluetooth	FHSS	G	3383M	76.80	0.02	2480.00	78	1	16.0	15.95	Back	5	0.314	1.012	1.016	0.323	
Body-worn/Hotspot	2.4 GHz Bluetooth LE	DSSS	G	3383M	85.49	0.02	2402.00	37	1	17.0	16.67	Back	5	0.448	1.079	1.018	0.492	Plot
Hotspot	2.4 GHz Bluetooth LE	DSSS	G	3383M	85.49	-0.09	2402.00	37	1	17.0	16.67	Front	5	0.356	1.079	1.018	0.391	
Hotspot	2.4 GHz Bluetooth LE	DSSS	G	3383M	85.49	0.08	2402.00	37	1	17.0	16.67	Top	10	0.079	1.079	1.018	0.087	
Hotspot	2.4 GHz Bluetooth LE	DSSS	G	3383M	85.49	-0.04	2402.00	37	1	17.0	16.67	Left	10	0.205	1.079	1.018	0.225	
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 12-113

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Body-worn	2.4 GHz Bluetooth	FHSS	I	3382M	76.80	0.08	2441.00	39	1	16.0	15.96	Back	5	0.204	1.009	1.016	0.209	
Body-worn	2.4 GHz Bluetooth LE	DSSS	I	3236M	85.40	-0.01	2402.00	37	1	17.0	16.85	Back	5	0.219	1.035	1.019	0.231	
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 12-114| Plot A58

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	2.4 GHz Bluetooth LE	DSSS	I	3383M	85.40	0.09	2402.00	37	1	17.0	16.85	Back	0	0.136	1.035	1.019	0.143	
Phablet	2.4 GHz Bluetooth	FHSS	I	3383M	76.80	0.05	2441.00	39	1	16.0	15.96	Front	0	0.385	1.009	1.016	0.395	
Phablet	2.4 GHz Bluetooth LE	DSSS	I	3383M	85.40	0.01	2402.00	37	1	17.0	16.85	Front	0	0.452	1.035	1.019	0.477	Plot
Phablet	2.4 GHz Bluetooth LE	DSSS	I	3383M	85.40	0.01	2402.00	37	1	17.0	16.85	Top	0	0.000	1.035	1.019	0.000	
Phablet	2.4 GHz Bluetooth LE	DSSS	I	3383M	85.40	-0.02	2402.00	37	1	17.0	16.85	Right	0	0.115	1.035	1.019	0.121	
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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12.25 2.4 GHz Bluetooth MIMO Standalone SAR

Table 12-115

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #						
Head	2.4 GHz Bluetooth LE	DSSS	MIMO	3383M	85.49	0.02	2480.00	39	1	12.0	11.07	12.0	10.93	Right Cheek	0	0.158	1.279	1.018	0.206							
Head	2.4 GHz Bluetooth LE	DSSS	MIMO	3383M	85.49	0.08	2480.00	39	1	12.0	11.07	12.0	10.93	Right Tilt	0	0.058	1.279	1.018	0.076							
Head	2.4 GHz Bluetooth	FHSS	MIMO	3383M	76.88	0.04	2480.00	0	1	11.0	9.78	11.0	10.93	Left Cheek	0	0.133	1.324	1.015	0.179							
Head	2.4 GHz Bluetooth LE	DSSS	MIMO	3383M	85.49	0.04	2480.00	39	1	12.0	11.07	12.0	10.93	Left Cheek	0	0.187	1.279	1.018	0.243							
Head	2.4 GHz Bluetooth LE	DSSS	MIMO	3383M	85.49	0.11	2480.00	39	1	12.0	11.07	12.0	10.93	Left Tilt	0	0.028	1.279	1.018	0.036							
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: To achieve the 15 dBm maximum allowed MIMO BT LE power shown in the documentation, each antenna transmits at a maximum allowed power of 12 dBm.																										
Note: To achieve the 14 dBm maximum allowed MIMO BT power shown in the documentation, each antenna transmits at a maximum allowed power of 11 dBm.																										

Table 12-116

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #						
Body-worn	2.4 GHz Bluetooth	FHSS	MIMO	3382M	76.88	0.13	2441.00	39	1	13.0	12.13	13.0	12.42	Back	5	0.223	1.222	1.015	0.277							
Body-worn	2.4 GHz Bluetooth LE	DSSS	MIMO	3383M	85.49	-0.04	2480.00	39	1	14.0	13.20	14.0	13.96	Back	5	0.217	1.202	1.018	0.266							
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 dBm maximum allowed MIMO BT LE power shown in the documentation, each antenna transmits at a maximum allowed power of 14 dBm.																										
Note: To achieve the 16 dBm maximum allowed MIMO BT power shown in the documentation, each antenna transmits at a maximum allowed power of 13 dBm.																										

Table 12-117

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Phablet	2.4 GHz Bluetooth LE	DSSS	MIMO	3383M	85.49	0.06	2480.00	39	1	14.0	13.20	14.0	13.96	Back	0	0.255	1.202	1.018	0.312	
Phablet	2.4 GHz Bluetooth LE	DSSS	MIMO	3383M	85.49	0.00	2480.00	39	1	14.0	13.20	14.0	13.96	Front	0	0.181	1.202	1.018	0.221	
Phablet	2.4 GHz Bluetooth LE	DSSS	MIMO	3383M	85.49	0.01	2480.00	39	1	14.0	13.20	14.0	13.96	Top	0	0.084	1.202	1.018	0.103	
Phablet	2.4 GHz Bluetooth LE	DSSS	MIMO	3383M	85.49	0.04	2480.00	39	1	14.0	13.20	14.0	13.96	Right	0	0.021	1.202	1.018	0.026	
Phablet	2.4 GHz Bluetooth LE	DSSS	MIMO	0001M	76.88	-0.02	2441.00	39	1	13.0	12.13	13.0	12.42	Left	0	0.250	1.222	1.015	0.310	
Phablet	2.4 GHz Bluetooth LE	DSSS	MIMO	3383M	85.49	0.04	2480.00	39	1	14.0	13.20	14.0	13.96	Left	0	0.076	1.202	1.018	0.038	
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: To achieve the 17 dBm maximum allowed MIMO BT LE power shown in the documentation, each antenna transmits at a maximum allowed power of 14 dBm.																				
Note: To achieve the 16 dBm maximum allowed MIMO BT power shown in the documentation, each antenna transmits at a maximum allowed power of 13 dBm.																				

12.26 NFC Standalone SAR

Table 12-118| Plot A59

Exposure	Band / Mode	Signal Type	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plot #
Phablet	NFC	B	NFC	3286M	-0.06	13.60	Back	0	0.012	Plot
Phablet	NFC	B	NFC	3286M	0.05	13.60	Front	0	0.000	
Phablet	NFC	B	NFC	3286M	0.03	13.60	Top	0	0.000	
Phablet	NFC	B	NFC	3286M	0.04	13.60	Bottom	0	0.000	
Phablet	NFC	B	NFC	3286M	0.04	13.60	Right	0	0.000	
Phablet	NFC	B	NFC	3286M	0.07	13.60	Left	0	0.000	
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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12.27 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 5 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 14 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 7.7 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. 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.
12. This device uses S.LSI TAS for WWAN and Qualcomm FastConnect TAS for WIFI 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 (RSI/DSI).
13. Per October 2020 TCB Workshop notes, absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.

GSM Test Notes:

1. Body-Worn accessory testing is typically associated with voice operations. Per FCC guidance, since the frame average target of GPRS is higher than GSM, GPRS 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).

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.

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- 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:

- 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 9.5.4.
- 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.
- 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).
- 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, testing at the other channels was required for such test configurations.
- 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.
- 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.
- 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 15 for linearity results.

NR Notes:

- 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.
- Due to test setup limitations, SAR testing for NR TDD was performed using test mode software to establish the connection.
- Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
- This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
- 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.
- 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.
- Per FCC KDB Publication 447498 D04v01, when the reported NR Band n41 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.
- SRS was tested with CW signal per S.LSI guidance.
- For final implementation, NR Band n41, 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.

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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 9.6.5 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 9.6.6 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.
8. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factor for WIFI 6E. Per October 2020 TCB Workshop notes, 5 channels were tested for WIFI 6E.

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 78% 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. Hotspot Bluetooth SAR was evaluated for BT tethering applications on Antenna G.
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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13 POWER DENSITY DATA SUMMARY

13.1 6 GHz WIFI Power Density Results

Table 13-1| Plot A60

MEASUREMENT RESULTS																									
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) (dBm)	Conducted Power (Ant 1) (dBm)	Maximum Allowed Power (Ant 2) (dBm)	Conducted Power (Ant 2) (dBm)	Power DUT (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6025.00	15	802.11ax	OFDM	160	10.50	10.44	N/A	N/A	-0.19	2	G	3286M	68.1	Front	99.67	0.05	-	1.554	1.014	1.003	0.799	1.263	0.909	1.437	
6025.00	15	802.11ax	OFDM	160	10.50	10.44	N/A	N/A	0.02	2	G	3286M	68.1	Back	99.67	0.05	-	1.554	1.014	1.003	0.713	1.127	0.794	1.255	
6345.00	79	802.11ax	OFDM	160	10.50	10.24	N/A	N/A	-0.10	2	G	3286M	68.1	Left	99.67	0.05	1.040	1.554	1.062	1.003	1.970	3.261	2.490	4.122	
6345.00	79	802.11ax	OFDM	160	10.50	10.24	N/A	N/A	-0.15	9.45	G	3286M	68.1	Left	99.67	0.25	0.787	1.554	1.062	1.003	0.560	0.927	0.614	1.016	
6605.00	111	802.11ax	OFDM	160	N/A	N/A	10.50	8.95	0.00	2	E	3382M	68.1	Front	99.69	0.05	-	1.554	1.429	1.003	0.236	0.526	0.245	0.546	
6345.00	79	802.11ax	OFDM	160	N/A	N/A	10.50	8.57	0.14	2	E	3382M	68.1	Back	99.69	0.05	0.972	1.554	1.560	1.003	2.120	5.155	2.490	6.054	
6345.00	79	802.11ax	OFDM	160	N/A	N/A	10.50	8.57	0.11	9.45	E	3382M	68.1	Back	99.69	0.125	1.150	1.554	1.560	1.003	1.300	3.161	1.410	3.426	
6025.00	15	802.11ax	OFDM	160	10.50	9.91	10.50	8.65	-0.16	2	MIMO	3286M	136.1	Front	99.63	0.05	-	1.554	1.531	1.004	0.552	1.319	0.906	2.164	
6025.00	15	802.11ax	OFDM	160	10.50	9.91	10.50	8.65	-0.01	2	MIMO	3286M	136.1	Back	99.63	0.05	-	1.554	1.531	1.004	1.480	3.535	1.830	4.371	
6345.00	79	802.11ax	OFDM	160	10.50	9.72	10.50	8.53	0.14	2	MIMO	3286M	136.1	Left	99.63	0.05	1.160	1.554	1.574	1.004	2.020	4.961	2.620	6.434	Plot
6345.00	79	802.11ax	OFDM	160	10.50	9.72	10.50	8.53	-0.14	9.45	MIMO	3286M	136.1	Left	99.63	0.125	1.200	1.554	1.574	1.004	1.020	2.905	1.120	2.750	
47 CFR §1.1319 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population																		Power Density 10 W/m² averaged over 4 cm²							

Power Density General Notes

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
3. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
4. 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.
5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
6. Per equipment manufacturer guidance, power density was measured at $d=2\text{mm}$ and $d=\lambda/5\text{mm}$ using the same grid size and grid step size for some frequencies and surfaces. The integrated Power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is $\geq -1\text{dB}$, the grid step was sufficient for determining compliance at $d=2\text{mm}$.
7. psPD for MIMO was evaluated by making a measurement with both antennas transmitting simultaneously.
8. PTP-PR algorithm was used during psPD measurement and calculations.
9. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04.

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14 SAR MEASUREMENT VARIABILITY

14.1 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 14-1
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)	
1750	1752.60	1513	UMTS 1750	RMC	Right	Tilt	F	0.881	0.814	1.08	N/A	N/A	N/A	N/A
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 14-2
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Spacing (mm)	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)	
850	831.50	26865	LTE Band 26, 15 MHz Bandwidth	QPSK, 1 RB, 74 RB Offset	Back	5	A	0.961	0.926	1.04	N/A	N/A	N/A	N/A
2600	2593.00	40620	LTE Band 41 PC2, 20 MHz Bandwidth	QPSK, 100 RB, 0 RB Offset	Back	5	B	0.959	0.953	1.01	N/A	N/A	N/A	N/A
3750	3750.00	650000	NR Band n77	CW/SRS	Back	5	D	1.040	1.040	1.00	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					Body 1.6 W/kg (mW/g) averaged over 1 gram									

14.2 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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15 ADDITIONAL TESTING PER FCC GUIDANCE

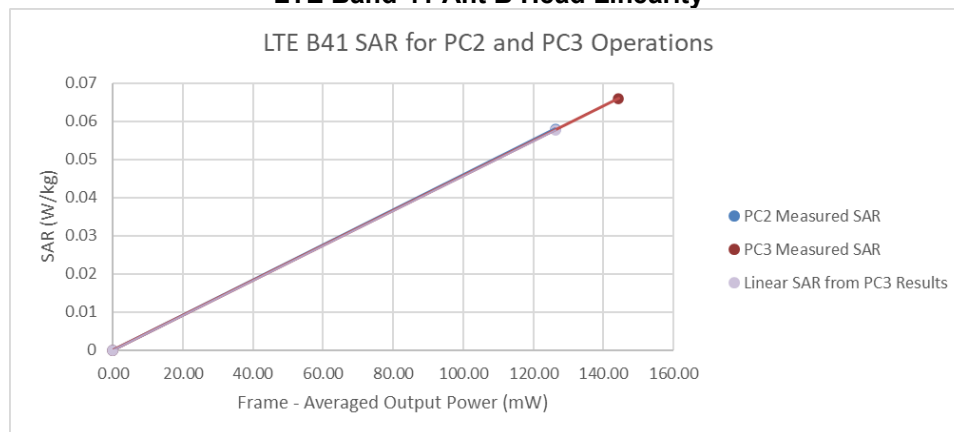
15.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

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. 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 15-1
LTE Band 41 Ant B Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.50	26.10
Measured Output Power (dBm)	23.58	24.65
Measured SAR (W/kg)	0.066	0.058
Measured Power (mW)	228.03	291.74
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	144.35	126.32
% deviation from expected linearity		0.42%

Figure 15-1
LTE Band 41 Ant B Head Linearity



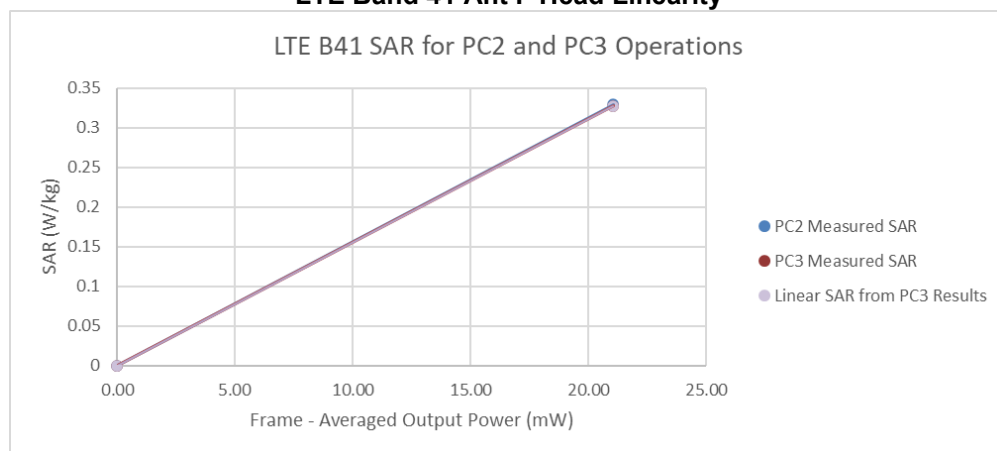
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Table 15-2
LTE Band 41 Ant F Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.50	18.10
Measured Output Power (dBm)	15.22	16.87
Measured SAR (W/kg)	0.327	0.329
Measured Power (mW)	33.27	48.64
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	21.06	21.06
% deviation from expected linearity		0.59%

Figure 15-2
LTE Band 41 Ant F Head Linearity



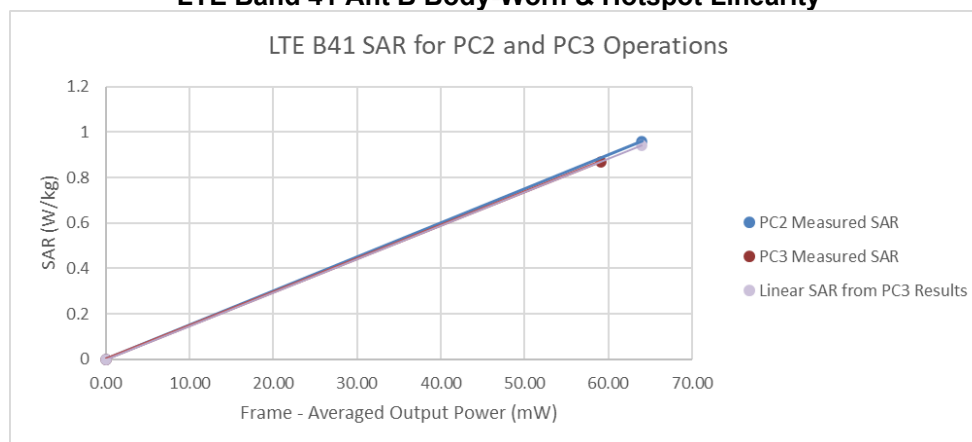
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Table 15-3
LTE Band 41 Ant B Body-Worn & Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.00	22.60
Measured Output Power (dBm)	19.70	21.70
Measured SAR (W/kg)	0.869	0.959
Measured Power (mW)	93.33	147.91
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	59.07	64.05
% deviation from expected linearity		1.79%

Figure 15-3
LTE Band 41 Ant B Body-Worn & Hotspot Linearity



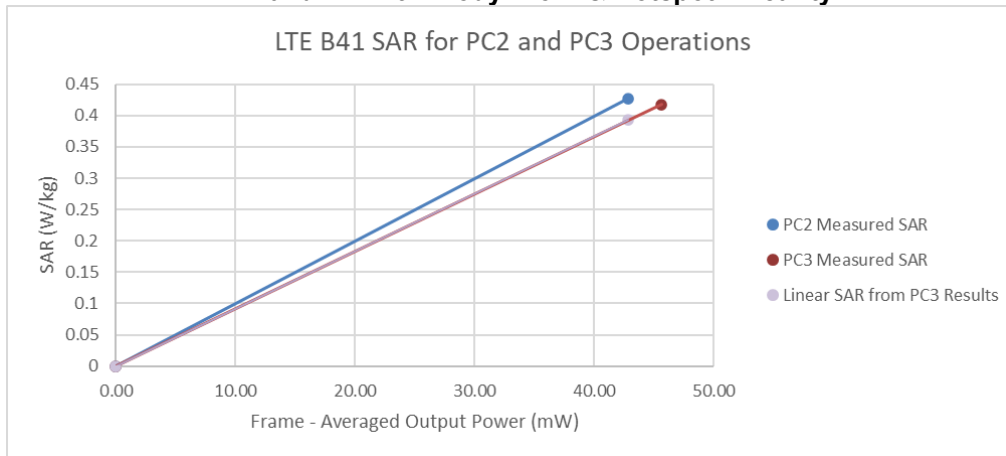
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Table 15-4
LTE Band 41 Ant F Body-Worn & Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	19.50	21.10
Measured Output Power (dBm)	18.58	19.96
Measured SAR (W/kg)	0.418	0.427
Measured Power (mW)	72.11	99.08
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	45.65	42.90
% deviation from expected linearity		8.68%

Figure 15-4
LTE Band 41 Ant F Body-Worn & Hotspot Linearity



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16 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	N5182A	MXG Vector Signal Generator	5/20/2025	Annual	5/20/2026	MY418180366
Agilent	N5182A	MXG Vector Signal Generator	8/1/2025	Annual	8/1/2026	MY47420651
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Anritsu	MN6110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Rohde & Schwarz	NR2	Power Meter	5/23/2025	Annual	5/23/2026	103084
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	6/9/2025	Annual	6/9/2026	6201144418
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	3/14/2025	Annual	3/14/2026	6201381794
Anritsu	MT8000A	Radio Communication Test Station	6/4/2025	Annual	6/4/2026	6261914237
Anritsu	MT8000A	Radio Communication Test Station	10/17/2025	Annual	10/17/2026	6272337405
Anritsu	MA24106A	USB Power Sensor	5/29/2025	Annual	5/29/2026	1344534
Anritsu	MA24106A	USB Power Sensor	6/26/2025	Annual	6/26/2026	1827529
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4040	Therm./Clock/Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./Clock/Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Testo	ALARM-HYGROMETER	ALARM-HYGROMETER	7/3/2025	Annual	7/3/2026	83316952
Testo	ALARM-HYGROMETER	ALARM-HYGROMETER	7/3/2025	Annual	7/3/2026	83316953
Testo	ALARM-HYGROMETER	ALARM-HYGROMETER	7/3/2025	Annual	7/3/2026	83316970
Keysight Technologies	N9020A	MXA Signal Analyzer	7/7/2025	Annual	7/7/2026	MY48010233
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MCL	BW-N1W5+	3dB Attenuator	CBT	N/A	CBT	2028
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-85-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772.3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seokon	NC-100	Torque Wrench	4/2/2024	Biennial	4/2/2026	1262
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/10/2025	Annual	1/10/2026	131453
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	8/27/2024	Biennial	8/27/2026	167085
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	12/10/2024	Annual	12/10/2026	167286
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/6/2025	Annual	1/6/2026	131454
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	7/9/2025	Annual	7/9/2026	166462
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2/22/2025	Annual	2/22/2026	168527
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/6/2025	Annual	1/6/2026	150117
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/10/2025	Annual	11/10/2026	1277
SPEAG	DAK-3.5	Dielectric Assessment Kit	8/5/2025	Annual	8/5/2026	1041
SPEAG	DAK-3.5	Dielectric Assessment Kit	7/14/2025	Annual	7/14/2026	1039
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	7/14/2025	Annual	7/14/2026	1039
SPEAG	CLA-13	Confined Loop Antenna	9/4/2025	Annual	9/4/2026	1002
SPEAG	D750V3	750 MHz SAR Dipole	10/7/2024	Biennial	10/7/2026	1161
SPEAG	D750V3	750 MHz SAR Dipole	3/4/2025	Annual	3/4/2026	1054
SPEAG	D835V2	835 MHz SAR Dipole	1/18/2024	Biennial	1/18/2026	44132
SPEAG	D835V2	835 MHz SAR Dipole	3/4/2025	Annual	3/4/2026	44047
SPEAG	D835V2	835 MHz SAR Dipole	3/11/2024	Biennial	3/11/2026	44133
SPEAG	D1750V2	1750 MHz SAR Dipole	1/13/2025	Annual	1/13/2026	1148
SPEAG	D1750V2	1750 MHz SAR Dipole	11/7/2024	Biennial	11/7/2026	1150
SPEAG	D1750V2	1750 MHz SAR Dipole	6/4/2025	Annual	6/4/2026	1092
SPEAG	D1900V2	1900 MHz SAR Dipole	2/7/2025	Annual	2/7/2026	50148
SPEAG	D1900V2	1900 MHz SAR Dipole	8/7/2025	Annual	8/7/2026	5080
SPEAG	D2450V2	2450 MHz SAR Dipole	2/12/2025	Annual	2/12/2026	882
SPEAG	D2450V2	2450 MHz SAR Dipole	11/15/2024	Annual	11/15/2025	797
SPEAG	D2450V2	2450 MHz SAR Dipole	10/7/2025	Annual	10/7/2026	797
SPEAG	D2450V2	2450 MHz SAR Dipole	6/1/2025	Annual	6/1/2026	945
SPEAG	D2600V2	2600 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	1009
SPEAG	D2600V2	2600 MHz SAR Dipole	8/11/2025	Annual	8/11/2026	1126
SPEAG	D3500V2	3500 MHz SAR Dipole	6/2/2025	Annual	6/2/2026	1127
SPEAG	D3700V2	3700 MHz SAR Dipole	6/2/2025	Annual	6/2/2026	1096
SPEAG	D3900V2	3900 MHz SAR Dipole	6/2/2025	Annual	6/2/2026	1074
SPEAG	D502HV2	5 GHz SAR Dipole	6/2/2025	Annual	6/2/2026	1237
SPEAG	D502HV2	5 GHz SAR Dipole	2/21/2024	Biennial	2/21/2026	1057
SPEAG	D6.5GHV2	6.5 GHz SAR Dipole	2/4/2025	Annual	2/4/2026	1111
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	3/4/2025	Annual	3/4/2026	1002
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/11/2025	Annual	3/11/2026	1415
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/7/2025	Annual	4/7/2026	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/9/2025	Annual	5/9/2026	1678
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/4/2024	Annual	12/4/2025	1213
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1052
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/5/2025	Annual	11/5/2026	1677
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2025	Annual	1/13/2026	1530
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/14/2025	Annual	1/14/2026	1466
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/5/2025	Annual	6/5/2026	1558
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/11/2025	Annual	2/11/2026	1645
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1502
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2025	Annual	9/10/2026	1364
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	2/7/2025	Annual	2/7/2026	1638
SPEAG	ELumMWV3	ELumMWV3 Probe	3/12/2025	Annual	3/12/2026	9421
SPEAG	EX3DV4	SAR Probe	10/14/2025	Annual	10/14/2026	7527
SPEAG	EX3DV4	SAR Probe	4/8/2025	Annual	4/8/2026	7718
SPEAG	EX3DV4	SAR Probe	3/7/2025	Annual	3/7/2026	7488
SPEAG	EX3DV4	SAR Probe	5/9/2025	Annual	5/9/2026	7660
SPEAG	EX3DV4	SAR Probe	4/7/2025	Annual	4/7/2026	7659
SPEAG	EX3DV4	SAR Probe	12/5/2024	Annual	12/5/2025	7410
SPEAG	EX3DV4	SAR Probe	6/12/2025	Annual	6/12/2026	7637
SPEAG	EX3DV4	SAR Probe	11/7/2025	Annual	11/7/2026	7406
SPEAG	EX3DV4	SAR Probe	1/7/2026	Annual	1/7/2026	7713
SPEAG	EX3DV4	SAR Probe	1/9/2025	Annual	1/9/2026	7565
SPEAG	EX3DV4	SAR Probe	6/14/2025	Annual	6/14/2026	7661
SPEAG	EX3DV4	SAR Probe	2/12/2025	Annual	2/12/2026	7640
SPEAG	EX3DV4	SAR Probe	8/12/2025	Annual	8/12/2026	7491
SPEAG	EX3DV4	SAR Probe	6/12/2025	Annual	6/12/2026	7402
SPEAG	EX3DV4	SAR Probe	9/15/2025	Annual	9/15/2026	7558
SPEAG	EX3DV4	SAR Probe	2/10/2025	Annual	2/10/2026	7570

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.

Note: All equipment was used solely within its respective calibration period.

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17 MEASUREMENT UNCERTAINTIES

Note: The tables below represent the worst-case uncertainty budget among the uncertainty budgets of all testing laboratories listed in Section 1.2.

SAR Uncertainty Budget based on IEEE 1528-2013 (0.3 GHz to 10 GHz)

a	b	c	d	e f(d,k)	f	g	h cxf/e	i cxg/e	k
Uncertainty component	Reference	Tol. (± %)	Prob. dist.	Dvi.	ci (1g)	ci (10g)	lg ui (± %)	10g ui (± %)	vi
Measurement system									
Probe calibration	E.2.1	9.30	N	1	1	1	9.30	9.30	∞
Axial isotropy	E.2.2	0.25	N	1	0.707	0.707	0.18	0.18	∞
Hemispherical isotropy	E.2.2	1.30	N	1	0.707	0.707	0.92	0.92	∞
Boundary effect	E.2.3	2.00	R	1.73	1	1	1.15	1.15	∞
Linearity	E.2.4	0.30	R	1.73	1	1	0.17	0.17	∞
System detection limits	E.2.4	0.25	R	1.73	1	1	0.14	0.14	∞
Modulation response	E.2.5	4.80	R	1.73	1	1	2.77	2.77	∞
Readout electronics	E.2.6	0.30	N	1	1	1	0.30	0.30	∞
Response time	E.2.7	1.01	R	1.73	1	1	0.58	0.58	∞
Integration time	E.2.8	2.60	R	1.73	1	1	1.50	1.50	∞
RF ambient conditions - noise	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
RF ambient conditions - reflections	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.04	R	1.73	1	1	0.02	0.02	∞
Probe positioning with respect to phantom shell	E.6.3	0.80	R	1.73	1	1	0.46	0.46	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	E.5	4.00	R	1.73	1	1	2.31	2.31	∞
Test sample related									
Test sample positioning	E.4.2	3.12	N	1	1	1	3.12	3.12	35
Device holder uncertainty	E.4.1	1.67	N	1	1	1	1.67	1.67	5
Output power variation - SAR drift	E.2.9	5.00	R	1.73	1	1	2.89	2.89	∞
SAR scaling	E.6.5	0.00	R	1.73	1	1	0.00	0.00	∞
Phantom and tissue parameters									
Phantom shell uncertainty - shape, thickness and permittivity	E.3.1	7.60	R	1.73	1	1	4.39	4.39	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	0.00	N	1	1	1	0.00	0.00	∞
Liquid conductivity measurement	E.3.3	4.27	N	1	0.78	0.71	3.33	3.03	55
Liquid permittivity measurement	E.3.3	4.18	N	1	0.23	0.26	0.96	1.09	55
Liquid conductivity - temperature uncertainty	E.3.4	3.40	R	1.73	0.78	0.71	1.53	1.39	∞
Liquid permittivity - temperature uncertainty	E.3.4	0.60	R	1.73	0.23	0.26	0.08	0.09	∞
Liquid Conductivity - deviation from target values	E.3.2	5.00	R	1.73	0.64	0.43	1.85	1.24	∞
Liquid Permittivity - deviation from target values	E.3.2	5.00	R	1.73	0.60	0.49	1.73	1.41	∞
Combined standard uncertainty							13.1	12.9	150
Expanded uncertainty (95% confidence interval)							26.2	25.8	

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Applicable for Power Density Measurements:

a	b	c	d	e	f = c x f/e	g
Uncertainty Component	Unc. (± dB)	Prob. Dist.	Div.	c _i	u _i (± dB)	v _i
Measurement System						
Calibration	0.49	N	1	1	0.49	∞
Probe Correction	0.00	R	1.73	1	0.00	∞
Frequency Response	0.20	R	1.73	1	0.12	∞
Sensor Cross Coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe Scattering	0.00	R	1.73	1	0.00	∞
Probe Positioning offset	0.30	R	1.73	1	0.17	∞
Probe Positioning Repeatability	0.04	R	1.73	1	0.02	∞
Sensor Mechanical Offset	0.00	R	1.73	1	0.00	∞
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field Impedance Dependence	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Drift	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Noise	0.04	R	1.73	1	0.02	∞
Measurement Area Truncation	0.00	R	1.73	1	0.00	∞
Data Acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.73	1	0.00	∞
Field Reconstruction	2.00	R	1.73	1	1.15	∞
Forward Transformation	0.00	R	1.73	1	0.00	∞
Power Density Scaling	0.00	R	1.73	1	0.00	∞
Spatial Averaging	0.10	R	1.73	1	0.06	∞
System Detection Limit	0.04	R	1.73	1	0.02	∞
Test Sample Related						
Probe Coupling with DUT	0.00	R	1.73	1	0.00	∞
Modulation Response	0.40	R	1.73	1	0.23	∞
Integration Time	0.00	R	1.73	1	0.00	∞
Response Time	0.00	R	1.73	1	0.00	∞
Device Holder Influence	0.10	R	1.73	1	0.06	∞
DUT alignment	0.00	R	1.73	1	0.00	∞
RF Ambient Conditions	0.04	R	1.73	1	0.02	∞
Ambient Reflections	0.04	R	1.73	1	0.02	∞
Immunity/Secondary Reception	0.00	R	1.73	1	0.00	∞
Drift of DUT	0.21	R	1.73	1	0.12	∞
Combined Standard Uncertainty (k=1)					RSS	1.34
Expanded Uncertainty (95% CONFIDENCE LEVEL)					k=2	2.68

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18 CONCLUSION

18.1 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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