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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.	C, E, G, H, J, L, O, P, R, S

1.2.2 Testing Laboratory 2

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY SAN JOSE, CA
Test Lab Location	18855 Adams Ct, Morgan Hill, CA 95037 USA United States Tel. +1.408.538.5600 / Fax +1.410.290.6654
Accreditation Info.	Lab Code. (ISED): 22831
	CAB Identifier (NIST): US0211
	ISO/IEC 17025 (A2LA): CERT #2041.02
	
Measurement System No.	AM4, AM7, AM8, AM13, AM14, AM16,

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1.2.3 Testing Laboratory 3

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY SUWON, LTD.
Test Lab Location	Yongin-si, Gyeonggi-do, 16954, South 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.	K2, K3, K4, K6

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 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26	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 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n12	Voice/Data	701.5 - 713.5 MHz
NR Band n14	Voice/Data	790.5 - 795.5 MHz
NR Band n26	Voice/Data	816.5 - 846.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n70	Voice/Data	1697.5 - 1707.5 MHz
NR Band n66	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2	Voice/Data	1852.5 - 1907.5 MHz
NR Band n30	Voice/Data	2307.5 - 2312.5 MHz
NR Band n7	Voice/Data	2502.5 - 2567.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n38	Voice/Data	2575 - 2615 MHz
NR Band n48	Voice/Data	3555 - 3694.98 MHz
NR Band n78	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3795 MHz
NR Band n77	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3975 MHz
NTN Band 255	Data	1629 - 1658 MHz
NR Band n258	Data	24250 - 24450 MHz; 24750 - 25250 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2462 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
UWB	Data	6489.6 - 7987.2 MHz

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2.2 Time-Averaging Algorithm for RF Exposure Compliance

This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature with antenna grouping. This feature performs time-averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 2.10– Bibliography).

Note that NTN operations are not enabled with Smart Transmit.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of *SAR_design_target* or *PD_design_target*, below the predefined time-averaged power limit (i.e., P_{limit} for WWAN sub-6/WLAN/BT radio, and *input.power.limit* for 5G mmW NR), for each characterized technology and band. Characterization is achieved by determining P_{limit} for WWAN sub-6/WLAN/BT 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 SAR Summary Section and Part 0 SAR Test Results for P_{limit} Calculations Appendix).

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

The maximum time-averaged output power (dBm) for any WWAN sub-6/WLAN/BT technology, band, and DSI is the minimum of (" P_{limit} EFS" and "Maximum tune up output power P_{max} ") + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

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Exposure Scenario			Maximum Tune-Up Output Power*	Body-Worn, Hotspot, or Phablet	Head
Averaging Volume				1g/10g	1g
Spacing				10mm, 0mm	0mm
Configuration				0	1
DSI				0	1
Technology/Band	Antenna	Antenna Group	P _{max}	P _{limit}	P _{limit}
GSM 850	A	AG0	25.3	30.2	30.2
GSM 850	E	AG1	25.3	28.4	20.8
GSM 1900	A	AG0	22.1	17.8	28.0
UMTS 850	A	AG0	24.0	28.0	29.8
UMTS 850	E	AG1	24.0	26.8	21.0
UMTS 1750	A	AG0	22.5	18.0	27.6
UMTS 1900	A	AG0	23.5	17.5	27.8
LTE Band 71	A	AG0	24.0	28.7	30.1
LTE Band 71	E	AG1	24.0	28.4	18.0
LTE Band 12	A	AG0	24.3	29.5	30.3
LTE Band 12	E	AG1	24.3	27.9	21.0
LTE Band 13	A	AG0	24.0	28.5	30.0
LTE Band 13	E	AG1	24.0	26.2	21.0
LTE Band 14	A	AG0	24.3	28.8	29.9
LTE Band 14	E	AG1	24.3	26.4	21.0
LTE Band 26/5	A	AG0	24.0	28.8	29.8
LTE Band 26/5	E	AG1	24.0	26.2	21.0
LTE Band 66/4	A	AG0	23.5	18.5	27.3
LTE Band 66/4	F	AG1	23.5	20.0	16.0
LTE Band 25/2	A	AG0	23.5	18.0	28.8
LTE Band 25/2	F	AG1	23.5	20.0	18.0
LTE Band 30	A	AG0	22.5	19.0	34.8
LTE Band 30	F	AG1	22.5	18.0	16.5
LTE Band 7	B	AG0	23.0	19.0	31.2
LTE Band 7	F	AG1	23.0	17.0	15.5
LTE Band 41	B	AG0	22.0	19.0	18.4
LTE Band 41	F	AG1	22.0	16.0	14.5
LTE Band 38	B	AG0	22.0	17.0	18.4
LTE Band 38	F	AG1	22.0	14.5	12.5
LTE Band 48	F	AG1	20.5	16.5	12.5
NR Band n71	A	AG0	24.0	28.4	31.0
NR Band n71	E	AG1	24.0	27.5	18.0
NR Band n12	A	AG0	24.3	28.6	31.2
NR Band n12	E	AG1	24.3	28.2	21.0
NR Band n14	A	AG0	24.0	28.7	34.2
NR Band n14	E	AG1	24.0	26.8	21.0
NR Band n26/n5	A	AG0	24.0	27.6	33.5
NR Band n26/n5	E	AG1	24.0	25.8	21.0
NR Band n70	A	AG0	23.0	19.0	28.5
NR Band n70	F	AG1	23.0	19.0	16.0
NR Band n66	A	AG0	23.5	18.5	26.7
NR Band n66	F	AG1	23.5	20.0	16.0
NR Band n25/n2	A	AG0	23.5	18.0	28.0
NR Band n25/n2	F	AG1	23.5	20.0	18.0
NR Band n30	A	AG0	22.5	19.0	34.9
NR Band n30	F	AG1	22.5	18.0	16.5
NR Band n7	B	AG0	23.0	19.0	30.7
NR Band n7	F	AG1	23.0	17.0	15.5
NR Band n41 PC2 (Path 1)	F	AG1	26.0	16.5	13.5
NR Band n41 PC2 (Path 1)	B	AG0	25.0	19.0	17.5
NR Band n41 PC2 (Path 1)	E	AG1	24.0	17.5	16.0
NR Band n41 PC2 (Path 1)	D	AG0	20.0	15.5	14.0
NR Band n41 PC2 (Path 2)	B	AG0	26.0	20.0	24.0
NR Band n41 PC2 (Path 2)	F	AG1	21.0	16.5	13.5
NR Band n41 PC2 (Path 2)	D	AG0	22.0	15.5	14.0
NR Band n41 PC2 (Path 2)	E	AG1	19.0	17.5	16.0
NR Band n38 (Path 1)	F	AG1	24.0	16.5	13.5
NR Band n38 (Path 2)	B	AG0	24.0	19.0	24.0
NR Band n48	F	AG1	22.5	18.0	14.0
NR Band n48	C	AG0	19.5	13.0	9.0
NR Band n48	I	AG1	22.5	16.0	12.0
NR Band n48	D	AG0	18.5	11.5	7.5
NR Band n77/n78 PC2	F	AG1	26.0	17.0	15.0
NR Band n77/n78 PC2	C	AG0	19.0	11.0	10.0
NR Band n77/n78 PC2	I	AG1	23.5	15.0	14.0
NR Band n77/n78 PC2	D	AG0	18.0	10.0	9.0
2.4 GHz WiFi	H	AG1	19.0	20.1	13.0
2.4 GHz WiFi	J	MMO	19.0	25.1	13.0
2.4 GHz WiFi	H	AG1	19.0	19.6	13.0
5 GHz WiFi	E	AG1	17.0	16.0	13.0
5 GHz WiFi	MMO	AG1	17.0	16.0	13.0
5 GHz WiFi	H	AG1	17.0	16.0	13.0
6 GHz WiFi	H	AG1	16.0	10.5	9.0
6 GHz WiFi	E	AG1	16.0	10.5	9.0
6 GHz WiFi	MMO	AG1	16.0	10.5	9.0
2.4 GHz Bluetooth	H	AG1	17.4	20.2	10.9
2.4 GHz Bluetooth	J	AG1	17.4	26.9	10.9
2.4 GHz Bluetooth	MMO	AG1	10.9	19.3	17.7

Notes:

-All Plimit EFS and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD, GMSK, or OFDM modulation schemes (e.g. GSM, LTE TDD and WLAN/BT).

-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.

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2.3 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 D01v06.

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

2.3.1 Licensed 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	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 1 (Head)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	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	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 1 (Head)	Max Allowed Power	31.0	31.0	28.0	26.2	25.0	28.0	26.0	24.0	23.0
	Nominal	30.0	30.0	27.0	25.2	24.0	27.0	25.0	23.0	22.0

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	31.0	31.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	30.0	30.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	28.0	28.0	25.0	23.2	22.0	27.0	25.0	23.0	22.0
	Nominal	27.0	27.0	24.0	22.2	21.0	26.0	24.0	22.0	21.0
DSI = 1 (Head)	Max Allowed Power	31.0	31.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	30.0	30.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0

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

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	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 1 (Head)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0

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	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 1 (Head)	Max Allowed Power	22.0	21.0	21.0	21.0
	Nominal	21.0	20.0	20.0	20.0

UMTS Band 4 (1755 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	23.5	22.5	22.5	22.5
	Nominal	22.5	21.5	21.5	21.5
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
DSI = 1 (Head)	Max Allowed Power	23.5	22.5	22.5	22.5
	Nominal	22.5	21.5	21.5	21.5

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
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	18.5	17.5	17.5	17.5
	Nominal	17.5	16.5	16.5	16.5
DSI = 1 (Head)	Max Allowed Power	24.5	23.5	23.5	23.5
	Nominal	23.5	22.5	22.5	22.5

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)		
			Pmax	DSI = 0 (Body-Worn, Hotspot, or Phablet)	DSI = 1 (Head)
LTE Band 71	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
LTE Band 71	E	Max Allowed Power	25.0	25.0	19.0
		Nominal	24.0	24.0	18.0
LTE Band 12	A	Max Allowed Power	25.3	25.3	25.3
		Nominal	24.3	24.3	24.3
LTE Band 12	E	Max Allowed Power	25.3	25.3	22.0
		Nominal	24.3	24.3	21.0
LTE Band 13	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
LTE Band 13	E	Max Allowed Power	25.0	25.0	22.0
		Nominal	24.0	24.0	21.0
LTE Band 14	A	Max Allowed Power	25.3	25.3	25.3
		Nominal	24.3	24.3	24.3
LTE Band 14	E	Max Allowed Power	25.3	25.3	22.0
		Nominal	24.3	24.3	21.0
LTE Band 26/5	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
LTE Band 26/5	E	Max Allowed Power	25.0	25.0	22.0
		Nominal	24.0	24.0	21.0
LTE Band 66/4	A	Max Allowed Power	24.5	19.5	24.5
		Nominal	23.5	18.5	23.5
LTE Band 66/4	F	Max Allowed Power	24.5	21.0	17.0
		Nominal	23.5	20.0	16.0
LTE Band 25/2	A	Max Allowed Power	24.5	19.0	24.5
		Nominal	23.5	18.0	23.5
LTE Band 25/2	F	Max Allowed Power	24.5	21.0	19.0
		Nominal	23.5	20.0	18.0
LTE Band 30	A	Max Allowed Power	23.5	20.0	23.5
		Nominal	22.5	19.0	22.5
LTE Band 30	F	Max Allowed Power	23.5	19.0	17.5
		Nominal	22.5	18.0	16.5
LTE Band 7	B	Max Allowed Power	24.0	20.0	24.0
		Nominal	23.0	19.0	23.0
LTE Band 7	F	Max Allowed Power	24.0	18.0	16.5
		Nominal	23.0	17.0	15.5
LTE Band 41	B	Max Allowed Power	25.0	22.0	21.4
		Nominal	24.0	21.0	20.4
LTE Band 41	F	Max Allowed Power	25.0	19.0	17.5
		Nominal	24.0	18.0	16.5
LTE Band 38	B	Max Allowed Power	25.0	20.0	21.4
		Nominal	24.0	19.0	20.4
LTE Band 38	F	Max Allowed Power	25.0	17.5	15.5
		Nominal	24.0	16.5	14.5
LTE Band 48	F	Max Allowed Power	23.5	19.5	15.5
		Nominal	22.5	18.5	14.5
NTN Band 255	F	Max Allowed Power	23.0	23.0	N/A
		Nominal	22.0	22.0	N/A

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	DSI = 0 (Body-Worn, Hotspot, or Phablet)	DSI = 1 (Head)
NR Band n71	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
NR Band n71	E	Max Allowed Power	25.0	25.0	19.0
		Nominal	24.0	24.0	18.0
NR Band n12	A	Max Allowed Power	25.3	25.3	25.3
		Nominal	24.3	24.3	24.3
NR Band n12	E	Max Allowed Power	25.3	25.3	22.0
		Nominal	24.3	24.3	21.0
NR Band n14	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
NR Band n14	E	Max Allowed Power	25.0	25.0	22.0
		Nominal	24.0	24.0	21.0
NR Band n26/n5	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
NR Band n26/n5	E	Max Allowed Power	25.0	25.0	22.0
		Nominal	24.0	24.0	21.0
NR Band n70	A	Max Allowed Power	24.0	20.0	24.0
		Nominal	23.0	19.0	23.0
NR Band n70	F	Max Allowed Power	24.0	20.0	17.0
		Nominal	23.0	19.0	16.0
NR Band n66	A	Max Allowed Power	24.5	19.5	24.5
		Nominal	23.5	18.5	23.5
NR Band n66	F	Max Allowed Power	24.5	21.0	17.0
		Nominal	23.5	20.0	16.0
NR Band n25/n2	A	Max Allowed Power	24.5	19.0	24.5
		Nominal	23.5	18.0	23.5
NR Band n25/n2	F	Max Allowed Power	24.5	21.0	19.0
		Nominal	23.5	20.0	18.0
NR Band n30	A	Max Allowed Power	23.5	20.0	23.5
		Nominal	22.5	19.0	22.5
NR Band n30	F	Max Allowed Power	23.5	19.0	17.5
		Nominal	22.5	18.0	16.5
NR Band n7	B	Max Allowed Power	24.0	20.0	24.0
		Nominal	23.0	19.0	23.0
NR Band n7	F	Max Allowed Power	24.0	18.0	16.5
		Nominal	23.0	17.0	15.5
NR Band n41 PC2 (Path 1)	F	Max Allowed Power	27.0	17.5	14.5
		Nominal	26.0	16.5	13.5
NR Band n41 PC2 (Path 1)	B	Max Allowed Power	26.0	20.0	18.5
		Nominal	25.0	19.0	17.5
NR Band n41 PC2 (Path 1)	E	Max Allowed Power	25.0	18.5	17.0
		Nominal	24.0	17.5	16.0
NR Band n41 PC2 (Path 1)	D	Max Allowed Power	21.0	16.5	15.0
		Nominal	20.0	15.5	14.0
NR Band n41 PC2 (Path 2)	B	Max Allowed Power	27.0	21.0	25.0
		Nominal	26.0	20.0	24.0
NR Band n41 PC2 (Path 2)	F	Max Allowed Power	22.0	17.5	14.5
		Nominal	21.0	16.5	13.5
NR Band n41 PC2 (Path 2)	D	Max Allowed Power	23.0	16.5	15.0
		Nominal	22.0	15.5	14.0
NR Band n41 PC2 (Path 2)	E	Max Allowed Power	20.0	18.5	17.0
		Nominal	19.0	17.5	16.0
NR Band n38	F	Max Allowed Power	25.0	17.5	14.5
		Nominal	24.0	16.5	13.5
NR Band n38	B	Max Allowed Power	25.0	20.0	25.0
		Nominal	24.0	19.0	24.0
NR Band n48	F	Max Allowed Power	23.5	19.0	15.0
		Nominal	22.5	18.0	14.0
NR Band n48	C	Max Allowed Power	20.5	14.0	10.0
		Nominal	19.5	13.0	9.0
NR Band n48	I	Max Allowed Power	23.5	17.0	13.0
		Nominal	22.5	16.0	12.0
NR Band n48	D	Max Allowed Power	19.5	12.5	8.5
		Nominal	18.5	11.5	7.5
NR Band n77/n78 PC2	F	Max Allowed Power	27.0	18.0	16.0
		Nominal	26.0	17.0	15.0
NR Band n77/n78 PC2	C	Max Allowed Power	20.0	12.0	11.0
		Nominal	19.0	11.0	10.0
NR Band n77/n78 PC2	I	Max Allowed Power	24.5	16.0	15.0
		Nominal	23.5	15.0	14.0
NR Band n77/n78 PC2	D	Max Allowed Power	19.0	11.0	10.0
		Nominal	18.0	10.0	9.0

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

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The below table is applicable in the following conditions:

- DSI=1 (RCV)

Power Level	Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																											
			SISO												SISO + MIMO															
			Antenna H												Antenna E															
			a						b						a						b									
Maximum / Nominal Power	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm				
1_Hand	5 GHz (WIFI, 60MHz BW)	UNH-1	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0		
		UNH-2A	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0		
		UNH-2C	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0		
		UNH-3	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0		
	UNH-4	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			
	5 GHz (WIFI, 60MHz BW)	UNH-1			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
		UNH-2A			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
		UNH-2C			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
		UNH-3			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	5 GHz (WIFI, 60MHz BW)	UNH-4			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
		UNH-1			12.0	11.0	11.5	10.5	11.5	10.5			12.0	11.0	11.5	10.5	11.5	10.5			12.0	11.0	11.5	10.5	11.5	10.5			12.0	11.0
		UNH-2A			13.0	12.0	12.5	11.5	12.5	11.5			13.0	12.0	12.5	11.5	12.5	11.5			13.0	12.0	12.5	11.5	12.5	11.5			13.0	12.0
		UNH-2C			ch 108, 12.0	11.5	ch 108, 12.0	11.0	ch 108, 12.0	11.0			ch 108, 12.0	11.0	11.0	ch 108, 12.0	11.0	11.0			ch 108, 12.0	11.0	ch 108, 12.0	11.0	ch 108, 12.0	11.0	ch 108, 12.0	11.0	ch 108, 12.0	11.0
	5 GHz (WIFI, 160MHz BW)	UNH-3			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0
		UNH-4			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0
		UNH-1208			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0
UNH-2C				14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	
UNH-34			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0		

2.3.4 6 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Pmax

Power Level	Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
			SISO						SISO						SISO in MIMO					
			Antenna H						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	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.
Pmax	6 GHz WiFi (20MHz BW) - LPI	UNII-5/6/7/8	8.0	7.0	11.0	10.0	11.0	10.0	8.0	7.0	11.0	10.0	11.0	10.0	8.0	7.0	11.0	10.0	11.0	10.0
	6 GHz WiFi (40MHz BW) - LPI	UNII-5/6/7/8	ch. 2: 9.0		8.0	ch. 2: 9.0		8.0	ch. 2: 9.0		8.0	ch. 2: 9.0		8.0	ch. 2: 9.0		8.0	ch. 2: 9.0		8.0
	6 GHz WiFi (80MHz BW) - LPI	UNII-5/6/7/8			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-5/6/7/8			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-5/6/7/8					11.0		10.0					11.0		10.0			11.0	10.0
Power Level	Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
			SISO						SISO						SISO in MIMO					
			Antenna H						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	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.
Pmax	6 GHz WiFi (20MHz BW) - SP	UNII-5/7	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
	6 GHz WiFi (40MHz BW) - SP	UNII-5/7	ch. 2: 9.0		8.0	ch. 2: 9.0		8.0	ch. 2: 9.0		8.0	ch. 2: 9.0		8.0	ch. 2: 9.0		8.0	ch. 2: 9.0		8.0
	6 GHz WiFi (80MHz BW) - SP	UNII-5/7			17.0	16.0	17.0		16.0			17.0	16.0	17.0		16.0			17.0	16.0
	6 GHz WiFi (160MHz BW) - SP	UNII-5/7			17.0	16.0	17.0		16.0			17.0	16.0	17.0		16.0			17.0	16.0
	6 GHz WiFi (320MHz BW) - SP	UNII-5/7					17.0		16.0					17.0		16.0			17.0	16.0
Power Level	Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
			SISO						SISO						SISO in MIMO					
			Antenna H						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	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.
Pmax	6 GHz WiFi (20MHz BW) - VLP	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	6.0	5.0	6.0	5.0	6.0	5.0
	6 GHz WiFi (40MHz BW) - VLP	UNII-5			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-5			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-5			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-5					6.0		5.0					6.0		5.0			6.0	5.0

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The below table is applicable in the following conditions:

- DSI=0 (Body-worn or Phablet)

Power Level	Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
			SISO						SISO						SISO in MIMO					
			Antenna H						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.
DSI = 0 (Body-Worn, Hotspot, or Phablet)	6 GHz WiFi (20MHz BW) - LPI	UNII-5/6/7/8	8.0	7.0	11.0	10.0	11.0	10.0	8.0	7.0	11.0	10.0	11.0	10.0	8.0	7.0	11.0	10.0	11.0	10.0
	6 GHz WiFi (40MHz BW) - LPI	UNII-5/6/7/8			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-5/6/7/8			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-5/6/7/8			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-5/6/7/8					11.0	10.0					11.0	10.0					11.0	10.0
Power Level	Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
			SISO						SISO						SISO in MIMO					
			Antenna H						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.
DSI = 0 (Body-Worn, Hotspot, or Phablet)	6 GHz WiFi (20MHz BW) - SP	UNII-5/7	11.5	10.5	11.5	10.5	11.5	10.5	11.5	10.5	11.5	10.5	11.5	10.5	11.5	10.5	11.5	10.5	11.5	10.5
	6 GHz WiFi (40MHz BW) - SP	UNII-5/7	ch 2: 9.0	8.0	ch 2: 9.0	8.0	ch 2: 9.0	8.0	ch 2: 9.0	8.0	ch 2: 9.0	8.0	ch 2: 9.0	8.0	ch 2: 9.0	8.0	ch 2: 9.0	8.0	ch 2: 9.0	8.0
	6 GHz WiFi (80MHz BW) - SP	UNII-5/7			11.5	10.5	11.5	10.5			11.5	10.5	11.5	10.5			11.5	10.5	11.5	10.5
	6 GHz WiFi (160MHz BW) - SP	UNII-5/7			11.5	10.5	11.5	10.5			11.5	10.5	11.5	10.5			11.5	10.5	11.5	10.5
	6 GHz WiFi (320MHz BW) - SP	UNII-5/7					11.5	10.5					11.5	10.5					11.5	10.5
Power Level	Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
			SISO						SISO						MIMO					
			Antenna H						Antenna E						SISO in 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.
Pmax	6 GHz WiFi (20MHz BW) - VLP	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	6.0	5.0	6.0	5.0	6.0	5.0
	6 GHz WiFi (40MHz BW) - VLP	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
	6 GHz WiFi (80MHz BW) - VLP	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
	6 GHz WiFi (160MHz BW) - VLP	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
	6 GHz WiFi (320MHz BW) - VLP	UNII-5					6.0	5.0					6.0	5.0					6.0	5.0

The below table is applicable in the following conditions:

- DSI=1 (RCV)

Power Level	Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
			SISO						SISO						SISO in MIMO					
			Antenna H						Antenna E						MIMO					
a			ax (SU)		be (SU)		a			ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SCM)		be (SU) (CDD + STBC, SCM)		
Maximum / Nominal Power			Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
DSI = 1 (Head)	6 GHz WiFi (20MHz BW) - LPI	UNII-5/6/7/8	8.0	7.0	10.0	9.0	10.0	9.0	8.0	7.0	10.0	9.0	10.0	9.0	8.0	7.0	10.0	9.0	10.0	9.0
	6 GHz WiFi (40MHz BW) - LPI	UNII-5/6/7/8			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	6 GHz WiFi (80MHz BW) - LPI	UNII-5/6/7/8			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	6 GHz WiFi (160MHz BW) - LPI	UNII-5/6/7/8			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	6 GHz WiFi (320MHz BW) - LPI	UNII-5/6/7/8					10.0	9.0					10.0	9.0					10.0	9.0
Power Level	Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
			SISO						SISO						SISO in MIMO					
			Antenna H						Antenna E						MIMO					
a			ax (SU)		be (SU)		a			ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SCM)		be (SU) (CDD + STBC, SCM)		
Maximum / Nominal Power			Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
DSI = 1 (Head)	6 GHz WiFi (20MHz BW) - SP	UNII-5/7	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
	6 GHz WiFi (40MHz BW) - SP	UNII-5/7	ch 2: 9.0	8.0	ch 2: 9.0	8.0	ch 2: 9.0	8.0	ch 2: 9.0	8.0	ch 2: 9.0	8.0	ch 2: 9.0	8.0	ch 2: 9.0	8.0	ch 2: 9.0	8.0	ch 2: 9.0	8.0
	6 GHz WiFi (80MHz BW) - SP	UNII-5/7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	6 GHz WiFi (160MHz BW) - SP	UNII-5/7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	6 GHz WiFi (320MHz BW) - SP	UNII-5/7					10.0	9.0					10.0	9.0					10.0	9.0

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Power Level	Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
			SISO						SISO						MIMO					
			Antenna H						Antenna E						SISO in MIMO					
			a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SC-M)		be (SU) (CDD + STBC, SC-M)	
Maximum / Nominal Power			Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.		
DSI = 1 (Head)	6 GHz WiFi (20MHz BW) - VLP	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	6.0	5.0	6.0	5.0		
	6 GHz WiFi (40MHz BW) - VLP	UNII-5			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-5			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-5			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-5					6.0	5.0					6.0	5.0				6.0		

2.3.5 2.4 GHz Maximum Bluetooth Output Power

The below table is applicable is applicable in the following conditions:

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

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Each Chain in Dual Mode	
		Antenna H		Antenna J		MIMO	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	18.0	17.0	18.0	17.0	12.0	11.0
Bluetooth EDR	2Mbps	15.0	14.0	15.0	14.0	10.0	9.0
Bluetooth EDR	3Mbps	15.0	14.0	15.0	14.0	10.0	9.0
Bluetooth LE	1Mbps	19.0	18.0	19.0	18.0	12.5	11.5
Bluetooth LE	2Mbps	19.0	18.0	19.0	18.0	12.5	11.5
Bluetooth LE	125kbps	8.5	7.5	8.5	7.5	N/A	N/A
Bluetooth LE	500kbps	8.5	7.5	8.5	7.5	N/A	N/A

The below table is applicable is applicable in the following conditions:

- DSI=1 (RCV)

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Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Each Chain in Dual Mode	
		Antenna H		Antenna J		MIMO	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	12.0	11.0	12.0	11.0	12.0	11.0
Bluetooth EDR	2Mbps	12.0	11.0	12.0	11.0	10.0	9.0
Bluetooth EDR	3Mbps	12.0	11.0	12.0	11.0	10.0	9.0
Bluetooth LE	1Mbps	12.5	11.5	12.5	11.5	12.5	11.5
Bluetooth LE	2Mbps	12.5	11.5	12.5	11.5	12.5	11.5
Bluetooth LE	125kbps	8.5	7.5	8.5	7.5	N/A	N/A
Bluetooth LE	500kbps	8.5	7.5	8.5	7.5	N/A	N/A

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2.4 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
I	Yes	Yes	Yes	No	No	Yes
H	Yes	Yes	Yes	No	No	Yes
J	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 D01v06r03. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, NTN, U-NII-1, U-NII-2A, U-NII-2C, U-NII-4, and WIFI6E operations are disabled.

2.5 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.

2.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, 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 D01v06 procedures.

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Table 2-2
Simultaneous Transmission Scenarios

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

1. No other simultaneous scenarios besides described above is supported for this model.
2. SISO represents 2.4 GHz WLAN/BT transmission on Ant H or Ant J, and 5/6 GHz transmission on Ant H or Ant E.
3. 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.
4. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
5. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII-2A, U-NII-2C, and U-NII-4 were not evaluated for wireless router conditions.
6. 6 GHz Wireless Router is not supported, therefore it was not evaluated for wireless router conditions.
7. This device supports 2x2 MIMO Tx for WLAN 802.11a/b/g/n/ac/ax/be. 802.11a/b/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM.
8. This device supports VoWIFI.
9. This device supports Bluetooth Tethering on Ant H only.
10. This device supports VoLTE.
11. This device supports VoNR.
12. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
13. 5G NR FR2 n258, n260, and n261 cannot transmit simultaneously.
14. LTE + 5G NR FR2 and 5G NR FR1 + 5G NR FR2 scenarios are limited to combinations with anchor bands as shown in the NR FR2 checklist.
15. UWB and NFC were evaluated for phablet based on expected usage conditions.
16. NB NTN-IoT only transmits only when the device is set to satellite mode and does not transmit with any other radios simultaneously.

2.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz, only 2.4 GHz WIFI, 2.4 GHz Bluetooth, and U-NII-3 WIFI Hotspot SAR tests and combinations are considered for SAR with respect to Wireless Router configurations according to FCC KDB 941225 D06v02r01.

This device supports IEEE 802.11ax/be with the following features:

- a) Up to 320 MHz Bandwidth only for 6GHz
- b) Up to 160 MHz Bandwidth only for 5/6 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 D01v06r03, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for U-NII-1, U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz, phablet SAR tests were performed.

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Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4 GHz Bluetooth, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

Per April 2019 TCB Workshop Notes 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/UWB and 8GHz SAR probe calibration factors for UWB. 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 LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB Publication 941225 D05A v01r02, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.

Per FCC KDB Publication 648474 D01v06r03, 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 LTE Carrier Aggregation (CA) for LTE Band 48 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

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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 2.3.1 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.

This device supports 5G NR for Bands n258, n260, and n261. RF Exposure assessment and simultaneous transmission analysis for these bands can be found in the Near Field PD Report (report SN can be found in Section 2.10 – Bibliography).

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

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

Per Qualcomm guidance in 80-W2112-4, when hotspot mode applies, 10-g extremity SAR is required for the surfaces and edges with hotspot mode 1g reported SAR > 1.2 W/kg. For surfaces and edges with hotspot mode 1g SAR < 1.2 W/kg, the 10-g extremity can be excluded when the normalized *SAR_design_target* for extremity DSI is less than or equal to that of hotspot DSI.

$$SAR_design_target_extremity \leq \frac{SAR_design_target_hotspot}{1g\ SAR\ limit} * 10g\ SAR\ limit$$

2.8 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 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 648474 D01v06r03 (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 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax, Dynamic Antenna Tuning)
- 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

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2.9 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 12.

2.10 Bibliography

Report Type	Report Serial Number
PD Part 1 Test Report	1M2408260064-25.A3L
PD Part 0 Test Report	
RF Exposure Part 0 Test Report	1M2408260064-31.A3L
RF Exposure Part 2 Test Report	1M2408260064-24.A3L
Compliance Summary Report	1M2408260064-26.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 71: 665.5 - 695.5 MHz				
	LTE Band 12: 699.7 - 715.3 MHz				
	LTE Band 13: 779.5 - 784.5 MHz				
	LTE Band 14: 790.5 - 795.5 MHz				
	LTE Band 26: 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 30: 2307.5 - 2312.5 MHz				
	LTE Band 7: 2502.5 - 2567.5 MHz				
	LTE Band 41: 2698.5 - 2697.5 MHz				
	LTE Band 38: 2572.5 - 2617.5 MHz				
	LTE Band 48: 3552.5 - 3697.5 MHz				
	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz				
Channel Bandwidths	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 30: 5 MHz, 10 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 38: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 71: 5 MHz				
	LTE Band 12: 5 MHz				
	LTE Band 13: 5 MHz				
	LTE Band 14: 5 MHz				
	LTE Band 26: 5 MHz				
	LTE Band 66: 5 MHz				
	LTE Band 4: 5 MHz				
	LTE Band 25: 5 MHz				
	LTE Band 2: 5 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
	665.5 (133147)	665.5 (133147)	680.5 (133297)	695.5 (133447)	695.5 (133447)
	699.7 (133172)	699.7 (133172)	699.7 (133297)	699.7 (133422)	699.7 (133422)
	673 (133222)	673 (133222)	690.5 (133297)	690.5 (133397)	690.5 (133397)
	699.7 (23017)	699.7 (23017)	707.5 (23095)	715.3 (23173)	715.3 (23173)
	700.5 (23025)	700.5 (23025)	707.5 (23095)	714.5 (23165)	714.5 (23165)
	701.5 (23035)	701.5 (23035)	707.5 (23095)	713.5 (23155)	713.5 (23155)
	704 (23080)	704 (23080)	707.5 (23095)	711 (23130)	711 (23130)
	779.5 (23205)	779.5 (23205)	782 (23230)	784.5 (23255)	784.5 (23255)
	(N/A)	(N/A)	782 (23230)	(N/A)	(N/A)
	790.5 (23305)	790.5 (23305)	793 (23330)	795.5 (23355)	795.5 (23355)
	(N/A)	(N/A)	793 (23330)	(N/A)	(N/A)
	814.7 (26697)	814.7 (26697)	831.5 (26865)	848.3 (27033)	848.3 (27033)
	815.5 (26705)	815.5 (26705)	831.5 (26865)	847.5 (27025)	847.5 (27025)
	816.5 (26715)	816.5 (26715)	831.5 (26865)	846.5 (27015)	846.5 (27015)
	819 (26740)	819 (26740)	831.5 (26865)	844 (26990)	844 (26990)
	821.5 (26765)	821.5 (26765)	831.5 (26865)	841.5 (26965)	841.5 (26965)
	824.7 (20407)	824.7 (20407)	836.5 (20525)	848.3 (20643)	848.3 (20643)
	825.5 (20415)	825.5 (20415)	836.5 (20525)	847.5 (20635)	847.5 (20635)
	826.5 (20425)	826.5 (20425)	836.5 (20525)	846.5 (20625)	846.5 (20625)
	829 (20450)	829 (20450)	836.5 (20525)	844 (20600)	844 (20600)
	1710.7 (131979)	1710.7 (131979)	1745 (132322)	1779.3 (132665)	1779.3 (132665)
	1711.5 (131987)	1711.5 (131987)	1745 (132322)	1778.5 (132657)	1778.5 (132657)
	1712.5 (131997)	1712.5 (131997)	1745 (132322)	1777.5 (132647)	1777.5 (132647)
	1715 (132022)	1715 (132022)	1745 (132322)	1775 (132622)	1775 (132622)
	1717.5 (132047)	1717.5 (132047)	1745 (132322)	1772.5 (132597)	1772.5 (132597)
	1720 (132072)	1720 (132072)	1745 (132322)	1770 (132572)	1770 (132572)
	1710.7 (19957)	1710.7 (19957)	1732.5 (20175)	1754.3 (20393)	1754.3 (20393)
	1711.5 (19965)	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)	1753.5 (20385)
	1712.5 (19975)	1712.5 (19975)	1732.5 (20175)	1752.5 (20375)	1752.5 (20375)
	1715 (20000)	1715 (20000)	1732.5 (20175)	1750 (20350)	1750 (20350)
	1717.5 (20025)	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)	1747.5 (20325)
	1720 (20050)	1720 (20050)	1732.5 (20175)	1745 (20300)	1745 (20300)
	1850.7 (26047)	1850.7 (26047)	1882.5 (26365)	1914.3 (26683)	1914.3 (26683)
	1851.5 (26055)	1851.5 (26055)	1882.5 (26365)	1913.5 (26675)	1913.5 (26675)
	1852.5 (26065)	1852.5 (26065)	1882.5 (26365)	1912.5 (26665)	1912.5 (26665)
	1855 (26090)	1855 (26090)	1882.5 (26365)	1910 (26640)	1910 (26640)
	1857.5 (26115)	1857.5 (26115)	1882.5 (26365)	1907.5 (26615)	1907.5 (26615)
	1860 (26140)	1860 (26140)	1882.5 (26365)	1905 (26590)	1905 (26590)
	1850.7 (18607)	1850.7 (18607)	1880 (18900)	1909.3 (19193)	1909.3 (19193)
	1851.5 (18615)	1851.5 (18615)	1880 (18900)	1908.5 (19185)	1908.5 (19185)
	1852.5 (18625)	1852.5 (18625)	1880 (18900)	1907.5 (19175)	1907.5 (19175)
	1855 (18650)	1855 (18650)	1880 (18900)	1905 (19150)	1905 (19150)
	1857.5 (18675)	1857.5 (18675)	1880 (18900)	1902.5 (19125)	1902.5 (19125)
	1859 (18700)	1859 (18700)	1880 (18900)	1900 (19100)	1900 (19100)
	2307.5 (27685)	2307.5 (27685)	2310 (27710)	2312.5 (27735)	2312.5 (27735)
	(N/A)	(N/A)	2310 (27710)	(N/A)	(N/A)
	2502.5 (20775)	2502.5 (20775)	2535 (21100)	2567.5 (21425)	2567.5 (21425)
	2505 (20800)	2505 (20800)	2535 (21100)	2565 (21400)	2565 (21400)
	2507.5 (20825)	2507.5 (20825)	2535 (21100)	2562.5 (21375)	2562.5 (21375)
	2510 (20850)	2510 (20850)	2535 (21100)	2560 (21350)	2560 (21350)
	2502.5 (39715)	2502.5 (39715)	2593 (40620)	2636.5 (41055)	2636.5 (41055)
	2505 (39740)	2505 (39740)	2593 (40620)	2636.5 (41055)	2636.5 (41055)
	2507.5 (39765)	2507.5 (39765)	2593 (40620)	2636.5 (41055)	2636.5 (41055)
	2510 (39790)	2510 (39790)	2593 (40620)	2636.5 (41055)	2636.5 (41055)
	2572.5 (37775)	2572.5 (37775)	2595 (38000)	2617.5 (38225)	2617.5 (38225)
	2575 (37800)	2575 (37800)	2595 (38000)	2615 (38200)	2615 (38200)
	2577.5 (37825)	2577.5 (37825)	2595 (38000)	2612.5 (38175)	2612.5 (38175)
	2580 (37850)	2580 (37850)	2595 (38000)	2610 (38150)	2610 (38150)
	3552.5 (55265)	3552.5 (55265)	3600.8 (55748)	3649.2 (56223)	3697.5 (56715)
	3555 (55290)	3555 (55290)	3601.7 (55757)	3648.3 (56223)	3695 (56690)
	3557.5 (55315)	3557.5 (55315)	3602.5 (55765)	3647.5 (56215)	3692.5 (56665)
	3560 (55340)	3560 (55340)	3603.3 (55773)	3646.7 (56207)	3690 (56640)
UE Category	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 and downlink MIMO features. All uplink communications are identical to the Release 5 Specifications. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, eMBMS, Wi-Fi Offloading, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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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.

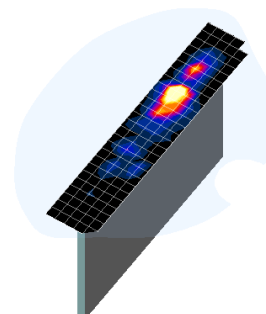


Figure 5-1
Sample SAR Area Scan

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

*Also compliant to IEEE 1528-2013 Table 6

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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].

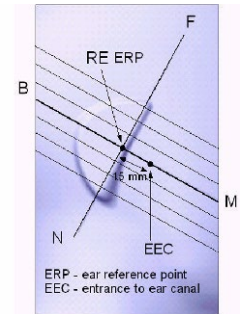


Figure 6-1
Close-Up Side view
of ERP

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.

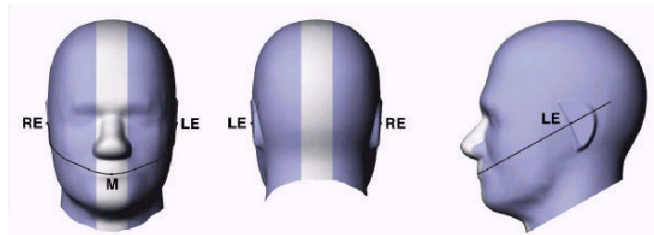


Figure 6-2
Front, back and side view of SAM Twin Phantom

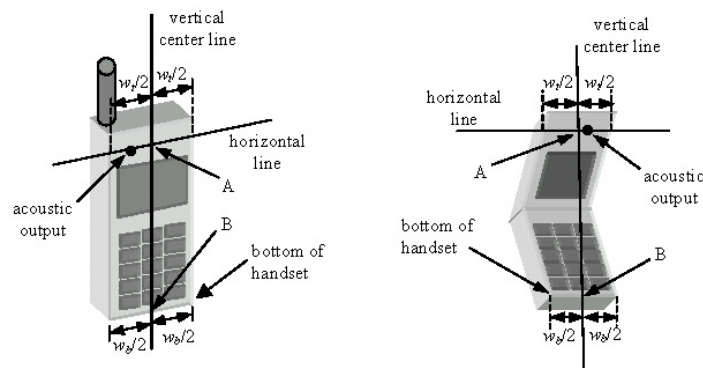


Figure 6-3
Handset Vertical Center & Horizontal Line Reference Points

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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.

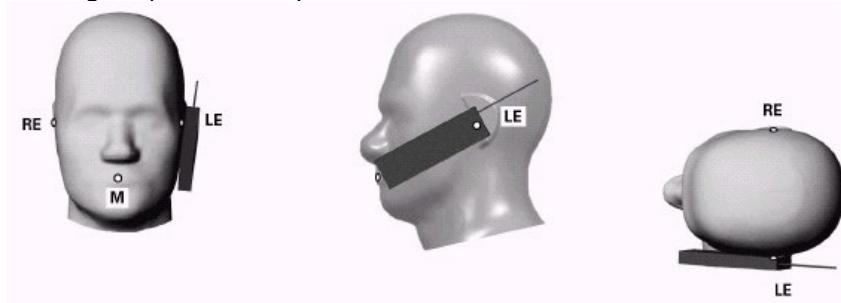


Figure 7-1 Front, Side and Top View of Cheek Position

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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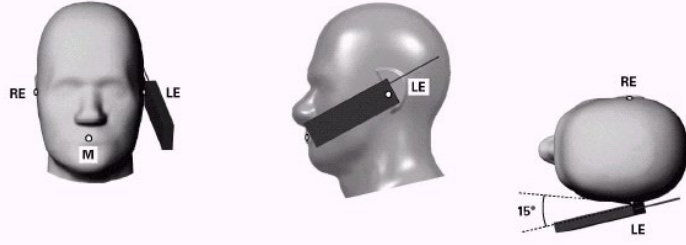


Figure 7-2 Front, Side and Top View of Ear/15° Tilt Position

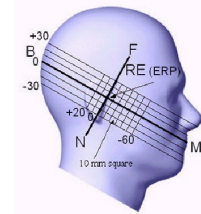


Figure 7-3 Side view w/ relevant markings

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 D01v06r03. 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 D01v06r03, 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 D01v06 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.

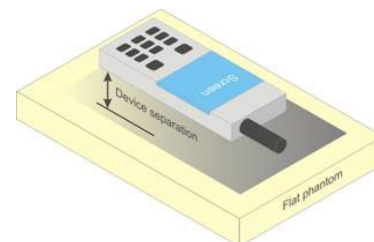


Figure 7-4 Sample Body-Worn Diagram

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 D01v06 should be applied to determine SAR test requirements.

Per KDB Publication 447498 D01v06, 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 D01v06 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 $> 150 \text{ mm}$ or an overall diagonal dimension $> 160 \text{ mm}$ that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that

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support voice calls next to the ear, the phablets procedures outlined in KDB Publication 648474 D01v06r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna ≤ 25 mm from that surface or edge, in direct contact with the phantom, for 10g SAR. The UMPC mini-tablet 1g SAR at 5 mm is not required. When hotspot mode applies, 10g SAR is required only for the surfaces and edges with hotspot mode 1g SAR > 1.2 W/kg.

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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.

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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.

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 D01v06, 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.

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

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

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 and FCC guidance, 802.11ax/be 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.

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

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802.11 mode is considered for SAR measurements (See Section 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 D01v06 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

10.1 GSM Conducted Powers

Table 10-1
Measured P_{max} for all DSI for GSM 850 Ant A
Measured P_{limit} for DSI = 0 (Body-worn, Hotspot or Phablet) for GSM 1900 Ant 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	32.64	32.57	31.14	29.16	27.61	26.71	25.07	23.20	22.51
	190	32.90	32.90	31.25	29.37	27.66	26.61	25.13	23.30	22.37
	251	32.88	32.87	31.21	29.38	27.59	26.76	25.20	23.41	22.38
GSM 1900	512	26.48	26.54	23.72	22.07	20.78	25.37	23.90	22.03	20.79
	661	26.55	26.62	23.91	22.06	20.79	25.71	23.98	22.32	21.07
	810	26.00	26.00	23.62	21.97	20.52	25.35	23.99	22.19	20.85

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	23.44	23.37	24.95	24.73	24.43	17.51	18.88	18.77	19.33
	190	23.70	23.70	25.06	24.94	24.48	17.41	18.94	18.87	19.19
	251	23.68	23.67	25.02	24.95	24.41	17.56	19.01	18.98	19.20
GSM 1900	512	17.28	17.34	17.53	17.64	17.60	16.17	17.71	17.60	17.61
	661	17.35	17.42	17.72	17.63	17.61	16.51	17.79	17.89	17.89
	810	16.80	16.80	17.43	17.54	17.34	16.15	17.80	17.76	17.67

GSM 850	Frame	23.30	23.30	25.31	25.07	24.32	17.80	18.81	18.57	18.82
GSM 1900	Avg.Targets:	17.80	17.80	17.81	17.77	17.82	16.80	17.81	17.57	17.82

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Table 10-2
Measured P_{max} for DSI = 1 (Head) for GSM 1900 Ant 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	29.66	29.71	27.76	25.80	24.15	25.37	23.90	22.03	20.79
	661	29.90	29.94	27.79	25.95	24.19	25.71	23.98	22.32	21.07
	810	29.70	29.76	27.46	25.58	24.03	25.35	23.99	22.19	20.85

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	20.46	20.51	21.57	21.37	20.97	16.17	17.71	17.60	17.61
	661	20.70	20.74	21.60	21.52	21.01	16.51	17.79	17.89	17.89
	810	20.50	20.56	21.27	21.15	20.85	16.15	17.80	17.76	17.67

GSM 1900	Frame Avg.Targets:	20.80	20.80	21.81	22.07	21.32	16.80	17.81	17.57	17.82
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Table 10-3
Measured P_{max} for DSI = 0 (Body-worn, Hotspot or Phablet) for GSM 850 Ant 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	31.98	31.82	31.94	28.71	26.67	26.45	25.08	22.62	21.55
	190	32.22	32.05	31.10	28.85	26.79	26.57	25.05	22.66	21.68
	251	32.15	31.97	31.09	28.92	26.90	26.55	24.75	22.55	21.75

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	22.78	22.62	25.75	24.28	23.49	17.25	18.89	18.19	18.37
	190	23.02	22.85	24.91	24.42	23.61	17.37	18.86	18.23	18.50
	251	22.95	22.77	24.90	24.49	23.72	17.35	18.56	18.12	18.57

GSM 850	Frame Avg.Targets:	23.30	23.30	25.31	25.07	24.32	17.80	18.81	18.57	18.82
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Table 10-4
Measured P_{limit} for DSI = 1 (Head) for GSM 850 Ant 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	29.72	29.74	26.94	24.22	23.24	26.45	25.08	22.62	21.55
	190	29.85	29.89	27.01	24.39	23.20	26.57	25.05	22.66	21.68
	251	29.90	29.90	27.46	24.47	23.27	26.55	24.75	22.55	21.75

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	20.52	20.54	20.75	19.79	20.06	17.25	18.89	18.19	18.37
	190	20.65	20.69	20.82	19.96	20.02	17.37	18.86	18.23	18.50
	251	20.70	20.70	21.27	20.04	20.09	17.35	18.56	18.12	18.57

GSM 850	Frame Avg. Targets:	20.80	20.80	20.81	20.77	20.82	17.80	18.81	18.57	18.82
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Note:

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

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



Figure 10-1
Power Measurement Setup

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10.2 UMTS Conducted Powers

Table 10-5
Measured P_{max} for all DSI for UMTS 850 Ant A
Measured P_{limit} for DSI = 0 (Body-worn, Hotspot or Phablet) for UMTS 1750 & UMTS 1900 Ant A

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	24.67	24.88	24.94	18.85	18.23	18.28	18.37	18.43	18.20	-
99		12.2 kbps AMR	24.90	24.83	24.92	18.87	18.25	18.32	18.38	18.42	18.16	-
6	HSDPA	Subtest 1	22.87	22.97	23.20	17.17	16.56	16.57	16.58	16.57	16.59	0
6		Subtest 2	22.89	22.98	23.19	17.13	16.53	16.56	16.58	16.55	16.57	0
6		Subtest 3	22.41	22.47	22.70	16.64	16.02	16.05	16.06	16.06	16.07	0.5
6		Subtest 4	22.39	22.46	22.70	16.69	15.63	16.07	16.06	16.07	16.05	0.5
6	HSUPA	Subtest 1	22.92	22.98	23.19	17.12	16.49	16.54	16.52	16.51	16.54	0
6		Subtest 2	20.87	20.91	21.15	15.06	14.48	14.54	14.53	14.58	14.56	2
6		Subtest 3	21.87	21.96	22.09	16.09	15.49	15.48	15.51	15.53	15.54	1
6		Subtest 4	20.86	20.94	21.16	15.15	14.51	14.54	14.51	14.53	14.50	2
6		Subtest 5	22.93	22.98	23.20	17.15	16.52	16.57	16.53	16.57	16.54	0
8	DC-HSDPA	Subtest 1	22.89	22.96	23.17	17.12	16.54	16.55	16.58	16.55	16.55	0
8		Subtest 2	22.88	22.96	23.18	17.14	16.54	16.58	16.57	16.56	16.56	0
8		Subtest 3	22.41	22.47	22.66	16.67	16.02	16.08	16.07	16.05	16.05	0.5
8		Subtest 4	22.40	22.46	22.68	16.64	16.20	16.06	16.08	16.06	16.06	0.5

Table 10-6
Measured P_{max} for DSI = 1 (Head) for UMTS 1750 & UMTS 1900 Ant A

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	23.45	22.91	22.98	23.94	23.98	23.75	-
99		12.2 kbps AMR	23.44	22.94	23.07	23.93	24.10	23.83	-
6	HSDPA	Subtest 1	21.78	21.20	21.18	22.45	22.49	22.20	0
6		Subtest 2	21.77	21.19	21.21	22.45	22.47	22.18	0
6		Subtest 3	21.29	20.65	20.72	21.10	21.95	21.70	0.5
6		Subtest 4	21.28	20.67	20.71	21.11	21.94	21.72	0.5
6	HSUPA	Subtest 1	21.79	21.18	21.21	22.40	22.44	22.16	0
6		Subtest 2	19.78	19.14	19.16	20.42	20.43	20.14	2
6		Subtest 3	20.75	20.20	20.17	21.39	21.45	21.15	1
6		Subtest 4	19.80	19.15	19.17	20.41	20.40	20.13	2
6		Subtest 5	21.78	21.21	21.21	22.44	22.48	22.18	0
8	DC-HSDPA	Subtest 1	21.80	21.19	21.24	22.49	22.49	22.22	0
8		Subtest 2	21.76	21.17	21.21	22.49	22.49	22.23	0
8		Subtest 3	21.30	20.69	20.71	22.01	22.00	21.71	0.5
8		Subtest 4	21.31	20.73	20.72	21.98	21.97	21.72	0.5

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Table 10-7
Measured P_{max} for DSI = 0 (Body-worn, Hotspot or Phablet) for UMTS 850 Ant E

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	23.97	24.16	24.23	-
99		12.2 kbps AMR	23.98	24.12	24.21	-
6	HSDPA	Subtest 1	22.82	23.05	23.05	0
6		Subtest 2	22.83	23.09	23.06	0
6		Subtest 3	22.33	22.58	22.55	0.5
6		Subtest 4	22.32	22.55	22.57	0.5
6	HSUPA	Subtest 1	22.83	23.07	23.09	0
6		Subtest 2	20.80	21.06	21.03	2
6		Subtest 3	21.80	22.01	22.06	1
6		Subtest 4	20.73	21.02	21.01	2
6		Subtest 5	22.77	23.05	23.02	0
8	DC-HSDPA	Subtest 1	22.72	22.87	22.98	0
8		Subtest 2	22.74	22.96	22.99	0
8		Subtest 3	22.26	22.48	22.51	0.5
8		Subtest 4	22.28	22.49	22.52	0.5

Table 10-8
Measured P_{limit} for DSI = 1 (Head) for UMTS 850 Ant E

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	20.97	21.00	21.16	-
99		12.2 kbps AMR	20.61	20.79	20.81	-
6	HSDPA	Subtest 1	19.48	19.70	19.69	0
6		Subtest 2	19.50	19.70	19.71	0
6		Subtest 3	18.98	19.19	19.19	0.5
6		Subtest 4	18.97	19.19	19.18	0.5
6	HSUPA	Subtest 1	19.45	19.69	19.66	0
6		Subtest 2	17.45	17.66	17.66	2
6		Subtest 3	18.45	18.69	18.69	1
6		Subtest 4	17.42	17.67	17.64	2
6		Subtest 5	19.43	19.69	19.67	0
8	DC-HSDPA	Subtest 1	19.39	19.61	19.59	0
8		Subtest 2	19.41	19.61	19.60	0
8		Subtest 3	18.86	19.06	19.07	0.5
8		Subtest 4	18.81	19.05	19.06	0.5

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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

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.

LTE Carrier Aggregation Notes:

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

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10.3.1 LTE Band 71

Table 10-9
LTE Band 71 Ant A Measured P_{Max} for all DSI - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz) Conducted Power [dBm]		
QPSK	1	0	24.41	0	0
	1	50	24.46		0
	1	99	24.36		0
	50	0	23.23	0-1	1
	50	25	23.33		1
	50	50	23.34		1
16QAM	100	0	23.30	0-1	1
	1	0	23.39		1
	1	50	23.67		1
	1	99	23.74	0-2	1
	50	0	22.29		2
	50	25	22.34		2
64QAM	50	50	22.38	0-2	2
	100	0	22.31		2
	1	0	22.21	0-2	2
	1	50	22.45		2
	1	99	22.56		2
	50	0	21.25	0-3	3
256QAM	50	25	21.34		3
	50	50	21.34		3
	100	0	21.28	0-5	3
	1	0	19.19		5
	1	50	19.55		5
	1	99	19.32		5
	50	0	19.23		5
	50	25	19.30		5
	50	50	19.29		5
	100	0	19.26		5

Table 10-10
LTE Band 71 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz) Conducted Power [dBm]		
QPSK	1	0	23.81	0	0
	1	50	23.92		0
	1	99	23.88		0
	50	0	22.69	0-1	1
	50	25	22.75		1
	50	50	22.78		1
16QAM	100	0	22.75	0-1	1
	1	0	22.91		1
	1	50	23.10		1
	1	99	23.12	0-2	1
	50	0	21.69		2
	50	25	21.76		2
64QAM	50	50	21.76	0-2	2
	100	0	21.74		2
	1	0	21.72	0-2	2
	1	50	22.10		2
	1	99	22.10		2
	50	0	20.69	0-3	3
256QAM	50	25	20.76		3
	50	50	20.79		3
	100	0	20.72	0-5	3
	1	0	18.58		5
	1	50	18.88		5
	1	99	18.90		5
	50	0	18.64		5
	50	25	18.71		5
	50	50	18.73		5
	100	0	18.68		5

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Table 10-11
LTE Band 71 Ant E Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz) Conducted Power [dBm]		
QPSK	1	0	17.45	0	0
	1	50	17.46		0
	1	99	17.42		0
	50	0	17.42	0-1	0
	50	25	17.42		0
	50	50	17.44		0
	100	0	17.43		0
16QAM	1	0	17.45	0-1	0
	1	50	17.42		0
	1	99	17.45		0
	50	0	17.44	0-2	0
	50	25	17.42		0
	50	50	17.45		0
	100	0	17.45		0
64QAM	1	0	17.43	0-2	0
	1	50	17.43		0
	1	99	17.41		0
	50	0	17.42	0-3	0
	50	25	17.42		0
	50	50	17.45		0
	100	0	17.44		0
256QAM	1	0	17.41	0-5	0
	1	50	17.75		0
	1	99	17.60		0
	50	0	17.40		0
	50	25	17.45		0
	50	50	17.43		0
	100	0	17.46		0

10.3.2 LTE Band 12

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

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz) Conducted Power [dBm]		
QPSK	1	0	24.83	0	0
	1	25	24.78		0
	1	49	24.64		0
	25	0	23.85	0-1	1
	25	12	23.85		1
	25	25	23.88		1
	50	0	23.80		1
16QAM	1	0	24.19	0-1	1
	1	25	24.11		1
	1	49	24.07		1
	25	0	22.83	0-2	2
	25	12	22.83		2
	25	25	22.89		2
	50	0	22.79		2
64QAM	1	0	23.01	0-2	2
	1	25	23.07		2
	1	49	22.96		2
	25	0	21.81	0-3	3
	25	12	21.83		3
	25	25	21.89		3
	50	0	21.79		3
256QAM	1	0	19.81	0-5	5
	1	25	19.95		5
	1	49	19.69		5
	25	0	19.73		5
	25	12	19.82		5
	25	25	19.82		5
	50	0	19.75		5

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Table 10-13
LTE Band 12 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.39	0	0
	1	25	24.34		0
	1	49	24.24		0
	25	0	23.19	0-1	1
	25	12	23.19		1
	25	25	23.25		1
	50	0	23.16		1
16QAM	1	0	23.45	0-1	1
	1	25	23.47		1
	1	49	23.38		1
	25	0	22.22	0-2	2
	25	12	22.24		2
	25	25	22.27		2
	50	0	22.20		2
64QAM	1	0	22.43	0-2	2
	1	25	22.47		2
	1	49	22.40		2
	25	0	21.17	0-3	3
	25	12	21.24		3
	25	25	21.24		3
	50	0	21.17		3
256QAM	1	0	19.28	0-5	5
	1	25	19.42		5
	1	49	19.14		5
	25	0	19.18		5
	25	12	19.16		5
	25	25	19.21		5
	50	0	19.13		5

Table 10-14
LTE Band 12 Ant E Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.60	0	0
	1	25	20.58		0
	1	49	20.58		0
	25	0	20.62	0-1	0
	25	12	20.60		0
	25	25	20.61		0
	50	0	20.58		0
16QAM	1	0	20.65	0-1	0
	1	25	20.62		0
	1	49	20.61		0
	25	0	20.60	0-2	0
	25	12	20.65		0
	25	25	20.59		0
	50	0	20.60		0
64QAM	1	0	20.62	0-2	0
	1	25	20.62		0
	1	49	20.63		0
	25	0	20.58	0-3	0
	25	12	20.61		0
	25	25	20.58		0
	50	0	20.62		0
256QAM	1	0	19.23	0-5	2
	1	25	19.30		2
	1	49	19.16		2
	25	0	19.14		2
	25	12	19.15		2
	25	25	19.17		2
	50	0	19.10		2

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10.3.3 LTE Band 13

Table 10-15
LTE Band 13 Ant A Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.96	0	0
	1	25	24.06		0
	1	49	24.09		0
	25	0	22.99	0-1	1
	25	12	23.17		1
	25	25	23.16		1
	50	0	23.15		1
16QAM	1	0	23.26	0-1	1
	1	25	23.45		1
	1	49	23.42		1
	25	0	22.13	0-2	2
	25	12	22.20		2
	25	25	22.13		2
	50	0	22.20		2
64QAM	1	0	22.26	0-2	2
	1	25	22.45		2
	1	49	22.45		2
	25	0	21.12	0-3	3
	25	12	21.21		3
	25	25	21.16		3
	50	0	21.17		3
256QAM	1	0	19.15	0-5	5
	1	25	19.12		5
	1	49	19.30		5
	25	0	19.06		5
	25	12	19.17		5
	25	25	19.15		5
	50	0	19.13		5

Table 10-16
LTE Band 13 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.22	0	0
	1	25	23.43		0
	1	49	23.42		0
	25	0	22.43	0-1	1
	25	12	22.53		1
	25	25	22.49		1
	50	0	22.50		1
16QAM	1	0	22.57	0-1	1
	1	25	22.78		1
	1	49	22.67		1
	25	0	21.50	0-2	2
	25	12	21.52		2
	25	25	21.56		2
	50	0	21.51		2
64QAM	1	0	21.62	0-2	2
	1	25	21.66		2
	1	49	21.83		2
	25	0	20.47	0-3	3
	25	12	20.53		3
	25	25	20.47		3
	50	0	20.53		3
256QAM	1	0	18.53	0-5	5
	1	25	18.58		5
	1	49	18.52		5
	25	0	18.45		5
	25	12	18.52		5
	25	25	18.49		5
	50	0	18.48		5

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Table 10-17
LTE Band 13 Ant E Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.34	0	0
	1	25	20.29		0
	1	49	20.28		0
	25	0	20.16	0-1	0
	25	12	20.30		0
	25	25	20.21		0
	50	0	20.24		0
16QAM	1	0	20.39	0-1	0
	1	25	20.59		0
	1	49	20.53		0
	25	0	20.21	0-2	0
	25	12	20.30		0
	25	25	20.28		0
	50	0	20.30		0
64QAM	1	0	20.52	0-2	0
	1	25	20.41		0
	1	49	20.64		0
	25	0	20.22	0-3	0
	25	12	20.28		0
	25	25	20.28		0
	50	0	20.29		0
256QAM	1	0	18.52	0-5	2
	1	25	18.64		2
	1	49	18.62		2
	25	0	18.44		2
	25	12	18.53		2
	25	25	18.48		2
	50	0	18.50		2

10.3.4 LTE Band 14

Table 10-18
LTE Band 14 Ant A Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.69	0	0
	1	25	24.80		0
	1	49	24.85		0
	25	0	23.58	0-1	1
	25	12	23.65		1
	25	25	23.64		1
	50	0	23.63		1
16QAM	1	0	23.83	0-1	1
	1	25	23.88		1
	1	49	23.90		1
	25	0	22.58	0-2	2
	25	12	22.70		2
	25	25	22.65		2
	50	0	22.65		2
64QAM	1	0	22.68	0-2	2
	1	25	22.77		2
	1	49	22.82		2
	25	0	21.55	0-3	3
	25	12	21.66		3
	25	25	21.61		3
	50	0	21.63		3
256QAM	1	0	19.66	0-5	5
	1	25	19.70		5
	1	49	19.70		5
	25	0	19.54		5
	25	12	19.65		5
	25	25	19.60		5
	50	0	19.61		5

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Table 10-19
LTE Band 14 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.03	0	0
	1	25	24.16		0
	1	49	24.12		0
	25	0	22.93	0-1	1
	25	12	22.99		1
	25	25	22.96		1
	50	0	22.98		1
16QAM	1	0	23.12	0-1	1
	1	25	23.05		1
	1	49	23.04		1
	25	0	21.91	0-2	2
	25	12	21.99		2
	25	25	22.00		2
	50	0	21.98		2
64QAM	1	0	22.04	0-2	2
	1	25	22.15		2
	1	49	22.10		2
	25	0	20.90	0-3	3
	25	12	20.99		3
	25	25	20.97		3
	50	0	20.96		3
256QAM	1	0	18.85	0-5	5
	1	25	19.05		5
	1	49	19.10		5
	25	0	18.87		5
	25	12	18.99		5
	25	25	18.90		5
	50	0	18.96		5

Table 10-20
LTE Band 14 Ant E Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.35	0	0
	1	25	20.29		0
	1	49	20.45		0
	25	0	20.37	0-1	0
	25	12	20.44		0
	25	25	20.46		0
	50	0	20.43		0
16QAM	1	0	20.78	0-1	0
	1	25	20.71		0
	1	49	20.69		0
	25	0	20.37	0-2	0
	25	12	20.45		0
	25	25	20.42		0
	50	0	20.43		0
64QAM	1	0	20.51	0-2	0
	1	25	20.59		0
	1	49	20.51		0
	25	0	20.35	0-3	0
	25	12	20.48		0
	25	25	20.38		0
	50	0	20.45		0
256QAM	1	0	18.98	0-5	1.7
	1	25	19.07		1.7
	1	49	18.99		1.7
	25	0	18.86		1.7
	25	12	18.98		1.7
	25	25	18.94		1.7
	50	0	18.92		1.7

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10.3.1 LTE Band 26

Table 10-21
LTE Band 26 Ant A Measured P_{Max} for all DSI - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz) Conducted Power [dBm]		
QPSK	1	0	24.36	0	0
	1	36	24.46		0
	1	74	24.37		0
	36	0	23.08	0-1	1
	36	18	23.17		1
	36	37	23.08		1
	75	0	23.13		1
16QAM	1	0	23.26	0-1	1
	1	36	23.34		1
	1	74	23.31		1
	36	0	22.16	0-2	2
	36	18	22.22		2
	36	37	22.15		2
	75	0	22.19		2
64QAM	1	0	22.50	0-2	2
	1	36	22.54		2
	1	74	22.46		2
	36	0	21.17	0-3	3
	36	18	21.22		3
	36	37	21.13		3
	75	0	21.16		3
256QAM	1	0	19.25	0-5	5
	1	36	19.26		5
	1	74	19.17		5
	36	0	19.11		5
	36	18	19.19		5
	36	37	19.11		5
	75	0	19.16		5

Table 10-22
LTE Band 26 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz) Conducted Power [dBm]		
QPSK	1	0	23.63	0	0
	1	36	23.67		0
	1	74	23.55		0
	36	0	22.50	0-1	1
	36	18	22.59		1
	36	37	22.50		1
	75	0	22.53		1
16QAM	1	0	22.82	0-1	1
	1	36	22.91		1
	1	74	22.89		1
	36	0	21.58	0-2	2
	36	18	21.66		2
	36	37	21.57		2
	75	0	21.59		2
64QAM	1	0	21.74	0-2	2
	1	36	21.73		2
	1	74	21.75		2
	36	0	20.56	0-3	3
	36	18	20.61		3
	36	37	20.51		3
	75	0	20.56		3
256QAM	1	0	18.79	0-5	5
	1	36	18.87		5
	1	74	18.67		5
	36	0	18.54		5
	36	18	18.58		5
	36	37	18.51		5
	75	0	18.57		5

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Table 10-23
LTE Band 26 Ant E Measured P_{Limit} for DSI = 1 (Head) - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.17	0	0
	1	36	20.26		0
	1	74	20.16		0
	36	0	20.30	0-1	0
	36	18	20.35		0
	36	37	20.28		0
	75	0	20.20		0
16QAM	1	0	20.43	0-1	0
	1	36	20.66		0
	1	74	20.51		0
	36	0	20.37	0-2	0
	36	18	20.40		0
	36	37	20.34		0
	75	0	20.36		0
64QAM	1	0	20.45	0-2	0
	1	36	20.47		0
	1	74	20.41		0
	36	0	20.34	0-3	0
	36	18	20.39		0
	36	37	20.31		0
	75	0	20.33		0
256QAM	1	0	18.71	0-5	2
	1	36	18.82		2
	1	74	18.63		2
	36	0	18.54		2
	36	18	18.59		2
	36	37	18.51		2
	75	0	18.55		2

10.3.2 LTE Band 66

Table 10-24
LTE Band 66 (AWS) Ant A Measured P_{Limit} for DSI= 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.92	18.43	18.57	0	0
	1	50	18.79	18.37	18.57		0
	1	99	18.60	18.30	18.56		0
	50	0	18.82	18.55	18.53	0-1	0
	50	25	18.78	18.54	18.50		0
	50	50	18.62	18.48	18.51		0
	100	0	18.77	18.51	18.51		0
16QAM	1	0	19.30	19.07	18.93	0-1	0
	1	50	19.08	18.96	18.90		0
	1	99	18.74	19.01	18.67		0
	50	0	18.86	18.58	18.55	0-2	0
	50	25	18.78	18.56	18.53		0
	50	50	18.65	18.47	18.54		0
	100	0	18.78	18.53	18.52		0
64QAM	1	0	19.29	18.72	18.74	0-2	0
	1	50	19.29	18.73	18.74		0
	1	99	18.86	18.81	18.70		0
	50	0	18.91	18.56	18.53	0-3	0
	50	25	18.86	18.53	18.48		0
	50	50	18.70	18.52	18.54		0
	100	0	18.82	18.55	18.48		0
256QAM	1	0	18.98	18.79	18.63	0-5	0
	1	50	19.03	18.67	18.72		0
	1	99	18.80	18.62	18.66		0
	50	0	18.91	18.59	18.55		0
	50	25	18.90	18.57	18.49		0
	50	50	18.70	18.52	18.50		0
	100	0	18.84	18.56	18.49		0

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Table 10-25
LTE Band 66 (AWS) Ant A Measured P_{Max} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.76	23.45	23.53	0	0
	1	50	23.80	23.40	23.59		0
	1	99	23.51	23.36	23.61		0
	50	0	22.80	22.48	22.56	0-1	1
	50	25	22.75	22.45	22.57		1
	50	50	22.59	22.42	22.57		1
	100	0	22.70	22.43	22.55		1
16QAM	1	0	22.90	22.64	22.76	0-1	1
	1	50	22.96	22.66	22.74		1
	1	99	22.63	22.64	22.78		1
	50	0	21.82	21.52	21.61	0-2	2
	50	25	21.79	21.52	21.59		2
	50	50	21.60	21.45	21.58		2
	100	0	21.77	21.49	21.55		2
64QAM	1	0	22.07	21.71	21.76	0-2	2
	1	50	21.96	21.66	21.87		2
	1	99	21.63	21.70	21.90		2
	50	0	20.84	20.53	20.59	0-3	3
	50	25	20.82	20.52	20.57		3
	50	50	20.63	20.49	20.61		3
	100	0	20.75	20.52	20.55		3
256QAM	1	0	18.92	18.77	18.62	0-5	5
	1	50	18.90	18.67	18.71		5
	1	99	18.70	18.64	18.76		5
	50	0	18.83	18.54	18.57		5
	50	25	18.77	18.54	18.55		5
	50	50	18.60	18.48	18.56		5
	100	0	18.78	18.53	18.52		5

Table 10-26
LTE Band 66 (AWS) Ant F Measured P_{Limit} for DSI= 0 (Body-worn, Hotspot or Phablet)- 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.18	19.78	20.02	0	0
	1	50	20.20	19.82	19.99		0
	1	99	20.03	19.73	19.86		0
	50	0	20.23	19.96	19.87	0-1	0
	50	25	20.09	19.94	19.87		0
	50	50	19.99	19.86	19.87		0
	100	0	20.09	19.88	19.86		0
16QAM	1	0	20.65	20.30	20.35	0-1	0
	1	50	20.68	20.51	20.30		0
	1	99	20.42	20.35	20.18		0
	50	0	20.27	19.97	19.88	0-2	0
	50	25	20.16	19.95	19.89		0
	50	50	20.05	19.90	19.92		0
	100	0	20.14	19.93	19.86		0
64QAM	1	0	20.05	20.19	20.26	0-2	0
	1	50	20.68	20.32	20.34		0
	1	99	20.37	20.20	20.20		0
	50	0	20.29	19.97	19.88	0-3	0
	50	25	20.14	19.96	19.86		0
	50	50	20.06	19.89	19.92		0
	100	0	20.15	19.92	19.83		0
256QAM	1	0	19.26	18.89	18.77	0-5	1.5
	1	50	19.27	18.96	18.75		1.5
	1	99	19.05	18.81	18.61		1.5
	50	0	18.94	18.66	18.56		1.5
	50	25	18.83	18.61	18.57		1.5
	50	50	18.78	18.58	18.58		1.5
	100	0	18.81	18.63	18.56		1.5

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Table 10-27

LTE Band 66 (AWS) Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	15.88	15.48	15.82	0	0
	1	50	15.71	15.66	15.75		0
	1	99	15.60	15.56	15.63		0
	50	0	15.90	15.60	15.67	0-1	0
	50	25	15.88	15.60	15.63		0
	50	50	15.74	15.58	15.65		0
	100	0	15.83	15.60	15.56		0
16QAM	1	0	16.01	15.78	16.03	0-1	0
	1	50	15.93	15.67	15.87		0
	1	99	15.84	15.80	15.78		0
	50	0	15.92	15.71	15.61	0-2	0
	50	25	15.92	15.62	15.66		0
	50	50	15.74	15.61	15.70		0
	100	0	15.86	15.66	15.65		0
64QAM	1	0	16.11	15.85	15.79	0-2	0
	1	50	15.97	15.71	16.00		0
	1	99	15.80	15.75	15.83		0
	50	0	15.92	15.72	15.63	0-3	0
	50	25	15.93	15.69	15.72		0
	50	50	15.76	15.67	15.70		0
	100	0	15.92	15.66	15.62		0
256QAM	1	0	16.00	15.75	15.79	0-5	0
	1	50	15.88	15.65	15.84		0
	1	99	15.66	15.76	15.65		0
	50	0	15.92	15.70	15.71		0
	50	25	15.89	15.66	15.68		0
	50	50	15.81	15.63	15.67		0
	100	0	15.85	15.72	15.66		0

10.3.3 LTE Band 25

Table 10-28

LTE Band 25 (PCS) Ant A Measured P_{Limit} for DSI= 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.44	18.15	18.01	0	0
	1	50	18.36	18.17	17.84		0
	1	99	18.31	18.06	17.73		0
	50	0	18.33	18.28	18.00	0-1	0
	50	25	18.38	18.27	17.92		0
	50	50	18.35	18.23	17.79		0
	100	0	18.36	18.25	17.90		0
16QAM	1	0	18.71	18.81	18.42	0-1	0
	1	50	18.60	18.88	18.13		0
	1	99	18.54	18.72	18.15		0
	50	0	18.32	18.33	18.01	0-2	0
	50	25	18.38	18.34	17.95		0
	50	50	18.42	18.30	17.79		0
	100	0	18.35	18.26	17.93		0
64QAM	1	0	18.85	18.63	18.27	0-2	0
	1	50	18.85	18.78	18.27		0
	1	99	18.52	18.50	18.07		0
	50	0	18.33	18.35	17.99	0-3	0
	50	25	18.35	18.32	17.95		0
	50	50	18.35	18.29	17.82		0
	100	0	18.34	18.27	17.95		0
256QAM	1	0	18.62	18.53	18.20	0-5	0
	1	50	18.68	18.49	18.06		0
	1	99	18.44	18.36	17.86		0
	50	0	18.32	18.34	18.00		0
	50	25	18.42	18.33	17.98		0
	50	50	18.37	18.26	17.81		0
	100	0	18.39	18.29	17.98		0

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Table 10-29
LTE Band 25 (PCS) Ant A Measured P_{Max} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.25	23.94	23.67	0	0
	1	50	24.09	23.95	23.44		0
	1	99	24.06	23.76	23.48		0
	50	0	23.05	23.00	22.65	0-1	1
	50	25	23.12	23.06	22.66		1
	50	50	23.07	22.98	22.53		1
	100	0	23.07	22.99	22.67		1
16QAM	1	0	23.44	23.43	23.32	0-1	1
	1	50	23.46	23.42	23.25		1
	1	99	23.33	23.38	23.04		1
	50	0	22.07	22.05	21.74	0-2	2
	50	25	22.11	22.05	21.70		2
	50	50	22.08	21.99	21.56		2
	100	0	22.09	22.01	21.67		2
64QAM	1	0	22.38	22.38	22.13	0-2	2
	1	50	22.37	22.46	22.01		2
	1	99	22.22	22.19	21.83		2
	50	0	21.06	21.08	20.70	0-3	3
	50	25	21.16	21.09	20.70		3
	50	50	21.09	21.00	20.57		3
	100	0	21.09	21.01	20.69		3
256QAM	1	0	19.37	19.23	19.06	0-5	5
	1	50	19.30	19.28	18.81		5
	1	99	19.14	19.07	18.62		5
	50	0	19.06	19.08	18.70		5
	50	25	19.13	19.05	18.70		5
	50	50	19.05	18.98	18.54		5
	100	0	19.05	19.01	18.70		5

Table 10-30
LTE Band 25 (PCS) Ant F Measured P_{Limit} for DSI= 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.12	20.23	19.96	0	0
	1	50	20.20	20.22	19.72		0
	1	99	20.15	19.93	19.73		0
	50	0	20.08	20.13	19.99	0-1	0
	50	25	20.16	20.17	20.03		0
	50	50	20.15	20.10	19.86		0
	100	0	20.15	20.07	19.97		0
16QAM	1	0	20.60	20.47	20.38	0-1	0
	1	50	20.55	20.57	20.29		0
	1	99	20.54	20.29	20.27		0
	50	0	20.08	20.13	19.98	0-2	0
	50	25	20.18	20.14	20.03		0
	50	50	20.13	20.07	19.84		0
	100	0	20.14	20.12	19.97		0
64QAM	1	0	20.36	20.55	20.47	0-2	0
	1	50	20.54	20.61	20.28		0
	1	99	20.54	20.26	20.19		0
	50	0	20.12	20.15	20.01	0-3	0
	50	25	20.21	20.20	20.09		0
	50	50	20.20	20.14	19.87		0
	100	0	20.14	20.14	19.99		0
256QAM	1	0	18.95	19.20	19.01	0-5	1.5
	1	50	19.03	19.05	18.96		1.5
	1	99	18.91	18.77	18.54		1.5
	50	0	18.75	18.84	18.67		1.5
	50	25	18.86	18.84	18.75		1.5
	50	50	18.78	18.75	18.55		1.5
	100	0	18.81	18.82	18.68		1.5

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Table 10-31
LTE Band 25 (PCS) Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.21	18.11	18.19	0	0
	1	50	18.12	18.13	17.93		0
	1	99	18.10	17.87	17.75		0
	50	0	18.13	18.15	18.02	0-1	0
	50	25	18.19	18.16	17.99		0
	50	50	18.16	18.14	17.84		0
	100	0	18.14	18.17	17.94		0
16QAM	1	0	18.40	18.52	18.43	0-1	0
	1	50	18.46	18.63	18.23		0
	1	99	18.39	18.58	18.10		0
	50	0	18.13	18.18	18.06	0-2	0
	50	25	18.19	18.12	18.02		0
	50	50	18.21	18.15	17.88		0
	100	0	18.14	18.12	17.97		0
64QAM	1	0	18.52	18.53	18.45	0-2	0
	1	50	18.51	18.54	18.19		0
	1	99	18.42	18.31	18.06		0
	50	0	18.16	18.19	18.09	0-3	0
	50	25	18.19	18.17	18.03		0
	50	50	18.22	18.19	17.90		0
	100	0	18.17	18.11	17.98		0
256QAM	1	0	18.33	18.35	18.27	0-5	0
	1	50	18.39	18.53	18.12		0
	1	99	18.35	18.15	17.81		0
	50	0	18.13	18.16	18.00		0
	50	25	18.24	18.17	18.05		0
	50	50	18.14	18.13	17.86		0
	100	0	18.14	18.15	17.99		0

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10.3.1 LTE Band 30

Table 10-32
LTE Band 30 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	19.51	0	0
	1	25	19.52		0
	1	49	19.30		0
	25	0	19.41		0
	25	12	19.40		0
	25	25	19.31		0
16QAM	50	0	19.35	0-1	0
	1	0	19.66		0
	1	25	19.79		0
	1	49	19.49		0
	25	0	19.44		0
	25	12	19.38		0
64QAM	25	25	19.36	0-2	0
	50	0	19.38		0
	1	0	19.64		0
	1	25	19.69		0
	1	49	19.34		0
	25	0	19.44		0
256QAM	25	12	19.41	0-3	0
	25	25	19.32		0
	50	0	19.38		0
	1	0	18.06	0-5	1.5
	1	25	18.17		1.5
	1	49	17.95		1.5
	25	0	18.04		1.5
	25	12	18.00		1.5
	25	25	17.92		1.5
	50	0	18.00		1.5

Table 10-33
LTE Band 30 Ant A Measured P_{Max} for DSI = 1 (Head) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	23.09	0	0
	1	25	23.21		0
	1	49	23.01		0
	25	0	22.07		1
	25	12	22.06		1
	25	25	21.99		1
16QAM	50	0	22.05	0-1	1
	1	0	22.34		1
	1	25	22.28		1
	1	49	22.17		1
	25	0	21.08		2
	25	12	21.11		2
64QAM	25	25	21.00	0-2	2
	50	0	21.07		2
	1	0	21.30		2
	1	25	21.34		2
	1	49	21.02		2
	25	0	20.12		3
256QAM	25	12	20.13	0-3	3
	25	25	20.01		3
	50	0	20.05		3
	1	0	18.24	0-5	5
	1	25	18.28		5
	1	49	18.01		5
	25	0	18.09		5
	25	12	18.08		5
	25	25	17.97		5
	50	0	18.03		5

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Table 10-34
LTE Band 30 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.08	0	0
	1	25	18.19		0
	1	49	18.05		0
	25	0	18.12	0-1	0
	25	12	18.17		0
	25	25	18.16		0
16QAM	50	0	18.05	0-1	0
	1	0	18.23		0
	1	25	18.39		0
	1	49	18.34	0-2	0
	25	0	18.08		0
	25	12	18.10		0
64QAM	25	25	18.09	0-2	0
	50	0	18.12		0
	1	0	18.20	0-2	0
	1	25	18.28		0
	1	49	18.37		0
	25	0	18.10	0-3	0
256QAM	25	12	18.12		0
	25	25	18.08		0
	50	0	18.10	0-5	0
	1	0	17.80		0.5
	1	25	17.99		0.5
	1	49	17.95		0.5
256QAM	25	0	17.87		0.5
	25	12	17.85		0.5
	25	25	17.90		0.5
	50	0	17.86		0.5

Table 10-35
LTE Band 30 Ant F Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	16.40	0	0
	1	25	16.51		0
	1	49	16.56		0
	25	0	16.60	0-1	0
	25	12	16.57		0
	25	25	16.56		0
16QAM	50	0	16.55	0-1	0
	1	0	16.69		0
	1	25	16.94		0
	1	49	16.84	0-2	0
	25	0	16.56		0
	25	12	16.58		0
64QAM	25	25	16.58	0-2	0
	50	0	16.59		0
	1	0	16.72	0-2	0
	1	25	16.74		0
	1	49	16.73		0
	25	0	16.60	0-3	0
256QAM	25	12	16.58		0
	25	25	16.62		0
	50	0	16.63	0-5	0
	1	0	16.62		0
	1	25	16.79		0
	1	49	16.60		0
256QAM	25	0	16.56		0
	25	12	16.59		0
	25	25	16.62		0
	50	0	16.57		0

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10.3.2 LTE Band 7

Table 10-36

LTE Band 7 Ant B Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.64	19.62	19.35	0	0
	1	50	19.69	19.45	19.32		0
	1	99	19.60	19.56	19.32		0
	50	0	19.73	19.57	19.53	0-1	0
	50	25	19.69	19.53	19.58		0
	50	50	19.64	19.48	19.52		0
	100	0	19.68	19.54	19.52		0
16QAM	1	0	19.81	20.00	19.75	0-1	0
	1	50	19.87	19.84	19.79		0
	1	99	19.91	19.78	19.77		0
	50	0	19.75	19.78	19.51	0-2	0
	50	25	19.67	19.78	19.59		0
	50	50	19.64	19.50	19.53		0
	100	0	19.68	19.56	19.53		0
64QAM	1	0	19.85	19.65	19.80	0-2	0
	1	50	19.89	19.66	19.78		0
	1	99	19.89	19.66	19.76		0
	50	0	19.74	19.59	19.55	0-3	0
	50	25	19.70	19.59	19.64		0
	50	50	19.68	19.51	19.59		0
	100	0	19.73	19.56	19.61		0
256QAM	1	0	18.99	18.73	18.75	0-5	1
	1	50	18.95	18.65	18.62		1
	1	99	18.91	18.78	18.77		1
	50	0	18.87	18.69	18.66		1
	50	25	18.81	18.69	18.73		1
	50	50	18.81	18.67	18.68		1
	100	0	18.81	18.68	18.68		1

Table 10-37

LTE Band 7 Ant B Measured P_{Max} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.23	23.67	23.58	0	0
	1	50	23.68	23.65	23.46		0
	1	99	23.59	23.65	23.49		0
	50	0	22.93	22.90	22.70	0-1	1
	50	25	22.87	22.76	22.70		1
	50	50	22.86	22.71	22.74		1
	100	0	22.86	22.71	22.72		1
16QAM	1	0	22.67	22.95	22.96	0-1	1
	1	50	22.89	22.82	22.99		1
	1	99	22.88	22.82	22.91		1
	50	0	21.96	21.79	21.72	0-2	2
	50	25	21.92	21.77	21.81		2
	50	50	21.85	21.73	21.74		2
	100	0	21.89	21.64	21.79		2
64QAM	1	0	21.63	21.84	21.93	0-2	2
	1	50	21.93	21.84	21.93		2
	1	99	21.91	21.87	21.94		2
	50	0	20.94	20.87	20.72	0-3	3
	50	25	20.92	20.67	20.79		3
	50	50	20.84	20.62	20.74		3
	100	0	20.86	20.67	20.75		3
256QAM	1	0	18.79	18.74	18.84	0-5	5
	1	50	18.91	18.78	18.81		5
	1	99	18.93	18.73	18.78		5
	50	0	18.94	18.72	18.78		5
	50	25	18.88	18.71	18.77		5
	50	50	18.85	18.68	18.75		5
	100	0	18.85	18.68	18.73		5

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Table 10-38
LTE Band 7 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.91	16.94	16.84	0	0
	1	50	16.70	16.95	16.57		0
	1	99	16.78	16.73	16.36		0
	50	0	16.93	16.95	16.75	0-1	0
	50	25	16.80	16.92	16.69		0
	50	50	16.77	16.77	16.53		0
16QAM	100	0	16.88	16.85	16.68	0-1	0
	1	0	17.12	17.02	16.99		0
	1	50	17.07	17.27	16.82		0
	1	99	17.03	17.09	16.50	0-2	0
	50	0	17.00	16.86	16.83		0
	50	25	16.94	16.94	16.74		0
64QAM	50	50	16.81	16.85	16.57	0-2	0
	100	0	16.96	16.87	16.66		0
	1	0	17.06	17.07	17.01		0-2
	1	50	17.11	17.10	16.81	0	
	1	99	16.92	16.92	16.56	0-3	
	50	0	16.93	16.87	16.85		0
256QAM	50	25	16.96	16.99	16.73		0-3
	50	50	16.74	16.89	16.62	0	
	100	0	16.93	16.93	16.64	0	
	1	0	17.05	16.86	16.97	0-5	0
	1	50	16.97	17.14	16.72		0
	1	99	16.92	16.75	16.39		0
50	0	16.96	16.84	16.71	0		
50	25	16.93	16.95	16.73	0		
50	50	16.84	16.87	16.65	0		
	100	0	16.97	16.95	16.68	0	

Table 10-39
LTE Band 7 Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.18	15.97	15.95	0	0
	1	50	16.10	15.93	15.87		0
	1	99	16.08	15.91	15.75		0
	50	0	16.19	16.10	15.98	0-1	0
	50	25	16.17	16.10	15.96		0
	50	50	16.13	16.12	15.90		0
16QAM	100	0	16.14	16.11	15.92	0-1	0
	1	0	16.42	16.19	16.07		0
	1	50	16.39	16.30	16.01		0
	1	99	16.31	16.17	15.97	0-2	0
	50	0	16.31	16.10	15.96		0
	50	25	16.14	16.10	15.96		0
64QAM	50	50	16.12	16.08	15.86	0-2	0
	100	0	16.12	16.05	15.89		0
	1	0	16.14	16.23	16.06		0-2
	1	50	16.19	16.28	16.14	0	
	1	99	16.11	16.15	15.89	0	
	50	0	16.18	16.07	15.99	0-3	0
256QAM	50	25	16.10	16.07	15.95		0
	50	50	16.09	16.08	15.89		0
	100	0	16.09	16.07	15.92	0	
	1	0	16.23	16.06	16.12	0-5	0
	1	50	16.24	16.22	16.11		0
	1	99	16.14	16.11	15.82		0
50	0	16.16	16.05	16.00	0		
50	25	16.12	16.10	15.96	0		
50	50	16.13	16.08	15.93	0		
256QAM	100	0	16.14	16.08	15.95	0	

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10.3.3 LTE Band 41

Table 10-40

LTE Band 41 Ant B Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 41										
20 MHz Bandwidth										
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)			
			Conducted Power [dBm]							
QPSK	1	0	21.74	21.73	21.81	21.84	21.47	0	0	
	1	50	21.72	21.79	21.76	21.73	21.27		0	
	1	99	21.68	21.65	21.53	21.47	21.05		0	
	50	0	21.85	21.71	21.80	21.90	21.46	0-1	0	
	50	25	21.86	21.84	21.83	21.83	21.40		0	
	50	50	21.81	21.78	21.71	21.64	21.21		0	
16QAM	100	0	21.78	21.82	21.82	21.80	21.40	0-1	0	
	1	0	21.83	21.69	21.82	21.85	21.31		0	
	1	50	21.81	21.70	21.88	21.76	21.32		0	
	1	99	21.66	21.61	21.69	21.51	21.08	0-2	0	
	50	0	21.85	21.68	21.82	21.91	21.49		0	
	50	25	21.82	21.83	21.88	21.86	21.48		0	
64QAM	50	50	21.80	21.77	21.73	21.68	21.19	0-2	0	
	100	0	21.84	21.77	21.80	21.84	21.39		0	
	1	0	21.75	21.61	21.84	21.97	21.51		0-3	0
	1	50	21.85	21.78	21.73	21.75	21.42	0		
	1	99	21.78	21.67	21.54	21.54	20.94	0		
	50	0	21.74	21.54	21.58	21.70	21.29	0-3	0	
50	25	21.68	21.62	21.62	21.65	21.21	0			
50	50	21.69	21.58	21.52	21.47	21.01	0			
256QAM	100	0	21.69	21.59	21.61	21.62	21.23	0-3	0	
	1	0	19.47	19.48	19.76	19.70	19.33		0-5	2
	1	50	19.65	19.52	19.70	19.53	19.13			2
	1	99	19.37	19.49	19.38	19.19	18.87	2		
	50	0	19.67	19.50	19.60	19.69	19.34	2		
	50	25	19.67	19.59	19.65	19.61	19.23	2		
50	50	19.60	19.58	19.54	19.47	19.05	2			
	100	0	19.60	19.55	19.63	19.60	19.21		2	

Table 10-41

LTE Band 41 Ant B Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	21.28	21.18	21.23	21.32	20.87	0	0
	1	50	21.26	21.16	21.12	21.11	20.71		0
	1	99	21.19	21.10	20.98	20.90	20.45		0
	50	0	21.30	21.20	21.19	21.38	20.88	0-1	0
	50	25	21.35	21.28	21.21	21.22	20.76		0
	50	50	21.28	21.20	21.17	21.05	20.60		0
	100	0	21.25	21.22	21.20	21.30	20.75	0	
16QAM	1	0	21.29	21.10	21.38	21.39	21.00	0-1	0
	1	50	21.39	21.15	21.38	21.11	20.81		0
	1	99	21.26	21.13	21.28	20.86	20.44		0
	50	0	21.36	21.16	21.21	21.34	20.90	0-2	0
	50	25	21.33	21.26	21.28	21.26	20.82		0
	50	50	21.30	21.18	21.16	21.06	20.60		0
	100	0	21.31	21.21	21.24	21.22	20.79	0	
64QAM	1	0	21.30	21.16	21.26	21.28	20.78	0-2	0
	1	50	21.19	21.08	21.16	21.01	20.68		0
	1	99	21.00	21.00	20.99	20.92	20.47		0
	50	0	21.37	21.14	21.21	21.31	20.91	0-3	0
	50	25	21.35	21.24	21.27	21.21	20.78		0
	50	50	21.31	21.20	21.16	21.04	20.60		0
	100	0	21.32	21.21	21.20	21.22	20.77	0	
256QAM	1	0	19.53	19.39	19.69	19.56	19.35	0-5	1.4
	1	50	19.65	19.68	19.60	19.55	19.13		1.4
	1	99	19.48	19.42	19.46	19.26	18.87		1.4
	50	0	19.72	19.51	19.61	19.71	19.30		1.4
	50	25	19.73	19.62	19.65	19.63	19.19		1.4
	50	50	19.67	19.57	19.55	19.42	18.99		1.4
	100	0	19.69	19.58	19.58	19.59	19.18		1.4

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Table 10-42
LTE Band 41 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	18.18	18.10	17.96	17.97	17.76	0	0
	1	50	18.27	18.01	17.81	17.88	17.67		0
	1	99	18.33	17.88	17.62	17.59	17.39		0
	50	0	18.27	18.12	17.91	17.91	17.70	0-1	0
	50	25	18.30	18.15	17.92	17.92	17.70		0
	50	50	18.32	18.02	17.83	17.79	17.64		0
	100	0	18.29	18.05	17.88	17.88	17.62		0
16QAM	1	0	18.33	18.08	17.92	17.94	17.78	0-1	0
	1	50	18.26	17.99	17.94	17.85	17.59		0
	1	99	18.16	17.81	17.57	17.66	17.45		0
	50	0	18.32	18.16	17.90	17.94	17.70	0-2	0
	50	25	18.32	18.11	17.93	17.92	17.66		0
	50	50	18.30	17.98	17.86	17.81	17.62		0
	100	0	18.30	18.07	17.90	17.88	17.65		0
64QAM	1	0	18.42	18.15	18.03	18.03	17.83	0-2	0
	1	50	18.36	18.15	17.95	17.95	17.71		0
	1	99	18.22	17.92	17.74	17.75	17.50		0
	50	0	18.31	18.11	17.91	17.93	17.71	0-3	0
	50	25	18.32	18.10	17.94	17.91	17.65		0
	50	50	18.24	18.00	17.86	17.83	17.62		0
	100	0	18.28	18.03	17.92	17.92	17.64		0
256QAM	1	0	18.21	17.99	17.91	17.97	17.70	0-5	0
	1	50	18.31	18.06	17.79	17.90	17.71		0
	1	99	18.12	17.73	17.70	17.61	17.48		0
	50	0	18.28	18.08	17.96	17.94	17.75		0
	50	25	18.35	18.08	17.98	17.98	17.67		0
	50	50	18.28	17.95	17.87	17.85	17.64		0
	100	0	18.31	18.06	17.96	17.95	17.66		0

Table 10-43
LTE Band 41 Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 41									
20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	16.62	16.59	16.40	16.42	16.24	0	0
	1	50	16.76	16.51	16.34	16.24	16.07		0
	1	99	16.82	16.37	16.11	16.02	15.86		0
	50	0	16.79	16.62	16.37	16.37	16.17	0-1	0
	50	25	16.75	16.58	16.39	16.38	16.08		0
	50	50	16.80	16.45	16.32	16.24	16.06		0
	100	0	16.77	16.77	16.38	16.36	16.08	0	
16QAM	1	0	16.86	16.58	16.42	16.34	16.28	0-1	0
	1	50	16.78	16.54	16.27	16.29	16.12		0
	1	99	16.68	16.34	16.11	16.10	15.89		0
	50	0	16.80	16.62	16.40	16.41	16.17	0-2	0
	50	25	16.81	16.58	16.40	16.37	16.10		0
	50	50	16.75	16.48	16.30	16.26	16.08		0
	100	0	16.76	16.52	16.41	16.34	16.09	0	
64QAM	1	0	16.98	16.58	16.51	16.56	16.32	0-2	0
	1	50	16.83	16.64	16.49	16.40	16.23		0
	1	99	16.79	16.42	16.28	16.21	16.02		0
	50	0	16.81	16.65	16.38	16.41	16.21	0-3	0
	50	25	16.82	16.58	16.43	16.38	16.15		0
	50	50	16.77	16.45	16.34	16.29	16.11		0
	100	0	16.79	16.55	16.40	16.35	16.13	0	
256QAM	1	0	16.70	16.52	16.35	16.36	16.20	0-5	0
	1	50	16.74	16.58	16.37	16.31	16.13		0
	1	99	16.65	16.25	16.14	16.02	15.90		0
	50	0	16.76	16.58	16.43	16.46	16.20	0	
	50	25	16.83	16.60	16.45	16.41	16.15	0	
	50	50	16.74	16.46	16.36	16.30	16.11	0	
	100	0	16.80	16.54	16.41	16.41	16.11	0	

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10.3.4 LTE Band 48

Table 10-44

LTE Band 48 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	19.15	19.11	19.32	19.12	0	0
	1	50	19.09	19.10	19.27	19.17		0
	1	99	19.12	19.28	19.45	19.35		0
	50	0	19.25	19.22	19.42	19.30	0-1	0
	50	25	19.28	19.32	19.50	19.40		0
	50	50	19.24	19.38	19.41	19.35		0
	100	0	19.21	19.31	19.36	19.35		0
16QAM	1	0	19.20	19.04	19.26	19.04	0-1	0
	1	50	19.19	19.25	19.40	19.28		0
	1	99	19.20	19.31	19.33	19.39		0
	50	0	19.26	19.25	19.44	19.28	0-2	0
	50	25	19.29	19.39	19.49	19.41		0
	50	50	19.33	19.40	19.43	19.38		0
	100	0	19.26	19.34	19.46	19.39		0
64QAM	1	0	19.22	19.15	19.42	19.23	0-2	0
	1	50	19.34	19.34	19.40	19.36		0
	1	99	19.39	19.45	19.32	19.44		0
	50	0	18.75	18.71	18.94	18.82	0-3	0
	50	25	18.80	18.85	19.01	18.94		0
	50	50	18.79	18.91	18.90	18.95		0
	100	0	18.77	18.83	18.95	18.88		0
256QAM	1	0	16.74	16.61	16.77	16.67	0-5	2
	1	50	16.81	16.77	16.90	16.79		2
	1	99	16.74	16.87	16.81	16.90		2
	50	0	16.77	16.76	16.97	16.82		2
	50	25	16.81	16.89	17.04	16.93		2
	50	50	16.80	16.87	16.90	16.95		2
	100	0	16.78	16.82	16.99	16.91		2

Table 10-45

LTE Band 48 Ant F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

Combination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56207	3646.7	QPSK	50	0	LTE B48	20	56009	3626.9	QPSK	50	50	19.45	19.42

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Table 10-46
LTE Band 48 Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	15.10	15.24	15.28	15.03	0	0
	1	50	14.98	15.04	15.29	15.31		0
	1	99	15.18	15.21	15.23	15.29		0
	50	0	15.20	15.17	15.17	15.21	0-1	0
	50	25	15.22	15.26	15.32	15.34		0
	50	50	15.25	15.31	15.30	15.31		0
	100	0	15.17	15.24	15.27	15.30	0	
16QAM	1	0	15.08	15.02	15.29	14.97	0-1	0
	1	50	15.17	15.19	15.33	15.27		0
	1	99	15.02	15.30	15.33	15.33		0
	50	0	15.18	15.21	15.38	15.21	0-2	0
	50	25	15.26	15.28	15.42	15.36		0
	50	50	15.27	15.33	15.32	15.31		0
	100	0	15.21	15.25	15.40	15.29	0	
64QAM	1	0	15.22	15.19	15.35	15.24	0-2	0
	1	50	15.34	15.27	15.38	15.28		0
	1	99	15.30	15.43	15.43	15.44		0
	50	0	15.21	15.22	15.38	15.24	0-3	0
	50	25	15.26	15.32	15.47	15.34		0
	50	50	15.26	15.33	15.38	15.32		0
	100	0	15.23	15.27	15.41	15.32	0	
256QAM	1	0	15.09	14.94	15.18	15.14	0-5	0
	1	50	15.10	15.25	15.34	15.17		0
	1	99	15.07	15.26	15.23	15.32		0
	50	0	15.24	15.22	15.41	15.24		0
	50	25	15.25	15.35	15.49	15.38		0
	50	50	15.25	15.34	15.37	15.36		0
	100	0	15.23	15.29	15.43	15.32		0

Table 10-47
LTE Band 48 Ant F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

PCC								SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56640	3690.0	QPSK	50	0	LTE B48	20	56442	3670.2	QPSK	50	50	15.42	15.21

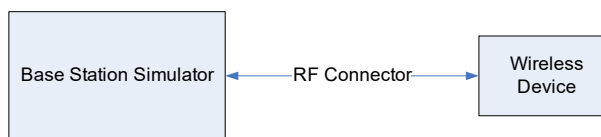


Figure 10-3
Power Measurement Setup

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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 were 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 n71

Table 10-48
NR Band n71 Ant A Measured P_{Max} for all DSI – 35 MHz Bandwidth

NR Band n71 35 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.05	0	0.0
	1	94	24.40		0.0
	1	186	24.30		0.0
	90	0	23.05	0-1	1.0
	90	49	24.29	0	0.0
	90	98	23.27	0-1	1.0
	180	0	23.18		1.0
DFT-s-OFDM 16QAM	1	1	23.01	0-1	1.0
CP-OFDM QPSK	1	1	22.70	0-1.5	1.5

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Table 10-49
NR Band n71 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 35 MHz Bandwidth

NR Band n71 35 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.48	0	0.0
	1	94	23.87		0.0
	1	186	24.07		0.0
	90	0	22.61	0-1	1.0
	90	49	23.94	0	0.0
	90	98	22.91	0-1	1.0
	180	0	22.68		1.0
DFT-s-OFDM 16QAM	1	1	22.43	0-1	1.0
CP-OFDM QPSK	1	1	22.20	0-1.5	1.5

Table 10-50
NR Band n71 Ant E Measured P_{Limit} for DSI = 1 (Head) – 35 MHz Bandwidth

NR Band n71 35 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.12	0	0.0
	1	94	17.55		0.0
	1	186	17.63		0.0
	90	0	17.28	0-1	0.0
	90	49	17.59	0	0.0
	90	98	17.48	0-1	0.0
	180	0	17.39		0.0
DFT-s-OFDM 16QAM	1	1	17.21	0-1	0.0
CP-OFDM QPSK	1	1	17.35	0-1.5	0.0

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10.4.2 NR Band n12

Table 10-51
NR Band n12 Ant A Measured P_{Max} for all DSI - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.71	0	0.0
	1	40	24.70		0.0
	1	77	24.48		0.0
	36	0	23.58	0-1	1.0
	36	22	24.48	0	0.0
	36	43	23.69	0-1	1.0
	75	0	23.63		1.0
DFT-s-OFDM 16QAM	1	1	23.36	0-1	1.0
CP-OFDM QPSK	1	1	23.53	0-1.5	1.5

Table 10-52
NR Band n12 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 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	24.15	0	0.0
	1	40	24.37		0.0
	1	77	24.03		0.0
	36	0	23.03	0-1	1.0
	36	22	24.18	0	0.0
	36	43	23.27	0-1	1.0
	75	0	23.20		1.0
DFT-s-OFDM 16QAM	1	1	22.93	0-1	1.0
CP-OFDM QPSK	1	1	22.61	0-1.5	1.5

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Table 10-53
NR Band n12 Ant E Measured P_{Limit} for DSI = 1 (Head) - 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	20.79	0	0.0
	1	40	20.77		0.0
	1	77	20.77		0.0
	36	0	20.64	0-1	0.0
	36	22	20.91	0	0.0
	36	43	20.78	0-1	0.0
	75	0	20.75		0.0
DFT-s-OFDM 16QAM	1	1	20.68	0-1	0.0
CP-OFDM QPSK	1	1	20.90	0-1.5	0.0

10.4.3 NR Band n14

Table 10-54
NR Band n14 Ant A Measured P_{Max} for all DSI - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.18	0	0.0
	1	26	24.32		0.0
	1	50	24.23		0.0
	25	0	23.17	0-1	1.0
	25	14	24.23	0	0.0
	25	27	23.15	0-1	1.0
	50	0	23.11		1.0
DFT-s-OFDM 16QAM	1	1	23.09	0-1	1.0
CP-OFDM QPSK	1	1	22.76	0-1.5	1.5

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Table 10-55
NR Band n14 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.73	0	0.0
	1	26	23.67		0.0
	1	50	23.70		0.0
	25	0	22.69	0-1	1.0
	25	14	23.82	0	0.0
	25	27	22.69	0-1	1.0
	50	0	22.57		1.0
DFT-s-OFDM 16QAM	1	1	22.58	0-1	1.0
CP-OFDM QPSK	1	1	22.29	0-1.5	1.5

Table 10-56
NR Band n14 Ant E Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.43	0	0.0
	1	26	20.55		0.0
	1	50	20.46		0.0
	25	0	20.44	0-1	0.0
	25	14	20.37	0	0.0
	25	27	20.39	0-1	0.0
	50	0	20.40		0.0
DFT-s-OFDM 16QAM	1	1	20.38	0-1	0.0
CP-OFDM QPSK	1	1	20.51	0-1.5	0.0

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10.4.1 NR Band n26

Table 10-57
NR Band n26 Ant A Measured P_{Max} for all DSI - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.91	0	0.0
	1	53	23.87		0.0
	1	104	24.00		0.0
	50	0	22.96	0-1	1.0
	50	28	23.95	0	0.0
	50	56	22.88	0-1	1.0
	100	0	23.02		1.0
DFT-s-OFDM 16QAM	1	1	22.73	0-1	1.0
CP-OFDM QPSK	1	1	22.54	0-1.5	1.5

Table 10-58
NR Band n26 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 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	23.51	0	0.0
	1	53	23.49		0.0
	1	104	23.56		0.0
	50	0	22.40	0-1	1.0
	50	28	23.53	0	0.0
	50	56	22.43	0-1	1.0
	100	0	22.57		1.0
DFT-s-OFDM 16QAM	1	1	22.31	0-1	1.0
CP-OFDM QPSK	1	1	22.07	0-1.5	1.5

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Table 10-59
NR Band n26 Ant E Measured P_{Limit} for DSI = 1 (Head) - 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	20.33	0	0.0
	1	53	20.20		0.0
	1	104	20.11		0.0
	50	0	20.09	0-1	0.0
	50	28	20.28	0	0.0
	50	56	20.15	0-1	0.0
	100	0	20.21		0.0
DFT-s-OFDM 16QAM	1	1	20.05	0-1	0.0
CP-OFDM QPSK	1	1	20.28	0-1.5	0.0

10.4.1 NR Band n70

Table 10-60
NR Band n70 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.14	0	0.0
	1	40	19.20		0.0
	1	77	19.25		0.0
	36	0	19.30	0-1	0.0
	36	22	19.25	0	0.0
	36	43	19.27	0-1	0.0
	75	0	19.23		0.0
DFT-s-OFDM 16QAM	1	1	19.24	0-1	0.0
CP-OFDM QPSK	1	1	19.35	0-1.5	0.0

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Table 10-61
NR Band n70 Ant A Measured P_{Max} for DSI = 1 (Head) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.39	0	0.0
	1	40	23.43		0.0
	1	77	23.46		0.0
	36	0	22.41	0-1	1.0
	36	22	23.54	0	0.0
	36	43	22.40	0-1	1.0
	75	0	22.52		1.0
DFT-s-OFDM 16QAM	1	1	22.44	0-1	1.0
CP-OFDM QPSK	1	1	22.11	0-1.5	1.5

Table 10-62
NR Band n70 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.22	0	0.0
	1	40	19.39		0.0
	1	77	19.37		0.0
	36	0	19.19	0-1	0.0
	36	22	19.29	0	0.0
	36	43	19.26	0-1	0.0
	75	0	19.21		0.0
DFT-s-OFDM 16QAM	1	1	19.10	0-1	0.0
CP-OFDM QPSK	1	1	19.44	0-1.5	0.0

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Table 10-63
NR Band n70 Ant F Measured P_{Limit} for DSI = 1 (Head) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.38	0	0.0
	1	40	16.21		0.0
	1	77	16.42		0.0
	36	0	16.12	0-1	0.0
	36	22	16.32	0	0.0
	36	43	16.21	0-1	0.0
	75	0	16.20		0.0
DFT-s-OFDM 16QAM	1	1	16.11	0-1	0.0
CP-OFDM QPSK	1	1	16.26	0-1.5	0.0

10.4.2 NR Band n66

Table 10-64
NR Band n66 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 45 MHz Bandwidth

NR Band n66 45 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	18.58	0	0.0
	1	121	18.17		0.0
	1	240	18.29		0.0
	120	0	18.48	0-1	0.0
	120	61	18.22	0	0.0
	120	122	18.30	0-1	0.0
	240	0	18.38		0.0
DFT-s-OFDM 16QAM	1	1	18.58	0-1	0.0
CP-OFDM QPSK	1	1	18.74	0-1.5	0.0

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Table 10-65
NR Band n66 Ant A Measured P_{Max} for DSI = 1 (Head) - 45 MHz Bandwidth

NR Band n66 45 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	23.62	0	0.0
	1	121	23.16		0.0
	1	240	23.37		0.0
	120	0	22.44	0-1	1.0
	120	61	23.29	0	0.0
	120	122	22.18	0-1	1.0
	240	0	22.28		1.0
DFT-s-OFDM 16QAM	1	1	22.48	0-1	1.0
CP-OFDM QPSK	1	1	22.20	0-1.5	1.5

Table 10-66
NR Band n66 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 45 MHz Bandwidth

NR Band n66 45 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	20.17	0	0.0
	1	121	20.07		0.0
	1	240	20.05		0.0
	120	0	20.20	0-1	0.0
	120	61	20.21	0	0.0
	120	122	19.97	0-1	0.0
	240	0	19.95		0.0
DFT-s-OFDM 16QAM	1	1	20.09	0-1	0.0
CP-OFDM QPSK	1	1	20.25	0-1.5	0.0

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Table 10-67
NR Band n66 Ant F Measured P_{Limit} for DSI = 1 (Head) - 45 MHz Bandwidth

NR Band n66 45 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	16.29	0	0.0
	1	121	16.04		0.0
	1	240	15.99		0.0
	120	0	16.15	0-1	0.0
	120	61	15.97	0	0.0
	120	122	15.90	0-1	0.0
	240	0	15.93		0.0
DFT-s-OFDM 16QAM	1	1	16.17	0-1	0.0
CP-OFDM QPSK	1	1	16.30	0-1.5	0.0

10.4.3 NR Band n25

Table 10-68
NR Band n25 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 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	18.09	0	0.0
	1	108	18.10		0.0
	1	214	17.79		0.0
	108	0	18.08	0-1	0.0
	108	54	18.09	0	0.0
	108	108	17.77	0-1	0.0
	216	0	18.01		0.0
DFT-s-OFDM 16QAM	1	1	18.03	0-1	0.0
CP-OFDM QPSK	1	1	18.24	0-1.5	0.0

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Table 10-69
NR Band n25 Ant A Measured P_{Max} for DSI = 1 (Head) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.74	0	0.0
	1	108	23.77		0.0
	1	214	23.50		0.0
	108	0	22.67	0-1	1.0
	108	54	23.65	0	0.0
	108	108	22.54	0-1	1.0
	216	0	22.62		1.0
DFT-s-OFDM 16QAM	1	1	22.76	0-1	1.0
CP-OFDM QPSK	1	1	22.38	0-1.5	1.5

Table 10-70
NR Band n25 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 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	20.28	0	0.0
	1	108	20.31		0.0
	1	214	20.12		0.0
	108	0	20.23	0-1	0.0
	108	54	20.25	0	0.0
	108	108	20.01	0-1	0.0
	216	0	20.24		0.0
DFT-s-OFDM 16QAM	1	1	20.19	0-1	0.0
CP-OFDM QPSK	1	1	20.39	0-1.5	0.0

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Table 10-71
NR Band n25 Ant F Measured P_{Limit} for DSI = 1 (Head) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.23	0	0.0
	1	108	18.28		0.0
	1	214	17.95		0.0
	108	0	18.20	0-1	0.0
	108	54	18.14	0	0.0
	108	108	18.12	0-1	0.0
	216	0	18.17		0.0
DFT-s-OFDM 16QAM	1	1	18.11	0-1	0.0
CP-OFDM QPSK	1	1	18.21	0-1.5	0.0

10.4.4 NR Band n30

Table 10-72
NR Band n30 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.26	0	0.0
	1	26	19.22		0.0
	1	50	19.08		0.0
	25	0	19.22	0-1	0.0
	25	14	19.16	0	0.0
	25	27	19.15	0-1	0.0
	50	0	19.10		0.0
DFT-s-OFDM 16QAM	1	1	19.20	0-1	0.0
CP-OFDM QPSK	1	1	19.29	0-1.5	0.0

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Table 10-73
NR Band n30 Ant A Measured P_{Max} for DSI = 1 (Head) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	22.91	0	0.0
	1	26	22.78		0.0
	1	50	22.20		0.0
	25	0	21.80	0-1	1.0
	25	14	22.81	0	0.0
	25	27	21.63	0-1	1.0
	50	0	21.73		1.0
DFT-s-OFDM 16QAM	1	1	21.81	0-1	1.0
CP-OFDM QPSK	1	1	21.48	0-1.5	1.5

Table 10-74
NR Band n30 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.80	0	0.0
	1	26	18.03		0.0
	1	50	18.09		0.0
	25	0	17.76	0-1	0.0
	25	14	17.88	0	0.0
	25	27	17.93	0-1	0.0
	50	0	17.83		0.0
DFT-s-OFDM 16QAM	1	1	17.53	0-1	0.0
CP-OFDM QPSK	1	1	18.00	0-1.5	0.0

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Table 10-75
NR Band n30 Ant F Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.19	0	0.0
	1	26	16.47		0.0
	1	50	16.53		0.0
	25	0	16.30	0-1	0.0
	25	14	16.41	0	0.0
	25	27	16.40	0-1	0.0
	50	0	16.32		0.0
DFT-s-OFDM 16QAM	1	1	16.06	0-1	0.0
CP-OFDM QPSK	1	1	16.30	0-1.5	0.0

10.4.5 NR Band n7

Table 10-76
NR Band n7 Ant B Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 50 MHz Bandwidth

NR Band n7 50 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.16	0	0.0
	1	135	19.03		0.0
	1	268	19.30		0.0
	135	0	19.17	0-1	0.0
	135	68	19.29	0	0.0
	135	135	19.24	0-1	0.0
	270	0	19.13		0.0
DFT-s-OFDM 16QAM	1	1	19.17	0-1	0.0
CP-OFDM QPSK	1	1	19.34	0-1.5	0.0

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Table 10-77
NR Band n7 Ant B Measured P_{Max} for DSI = 1 (Head) - 50 MHz Bandwidth

NR Band n7 50 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.25	0	0.0
	1	135	22.99		0.0
	1	268	23.35		0.0
	135	0	22.29	0-1	1.0
	135	68	23.28	0	0.0
	135	135	22.34	0-1	1.0
	270	0	22.27		1.0
DFT-s-OFDM 16QAM	1	1	22.27	0-1	1.0
CP-OFDM QPSK	1	1	21.89	0-1.5	1.5

Table 10-78
NR Band n7 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 50 MHz Bandwidth

NR Band n7 50 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.21	0	0.0
	1	135	17.18		0.0
	1	268	17.11		0.0
	135	0	17.10	0-1	0.0
	135	68	17.17	0	0.0
	135	135	17.24	0-1	0.0
	270	0	17.06		0.0
DFT-s-OFDM 16QAM	1	1	17.03	0-1	0.0
CP-OFDM QPSK	1	1	17.30	0-1.5	0.0

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Table 10-79
NR Band n7 Ant F Measured P_{Limit} for DSI = 1 (Head) - 40 MHz Bandwidth

NR Band n7 50 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	15.90	0	0.0
	1	135	15.80		0.0
	1	268	15.77		0.0
	135	0	15.78	0-1	0.0
	135	68	15.74	0	0.0
	135	135	15.65	0-1	0.0
	270	0	15.75		0.0
DFT-s-OFDM 16QAM	1	1	15.72	0-1	0.0
CP-OFDM QPSK	1	1	15.97	0-1.5	0.0

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10.4.6 NR Band n41

Table 10-80
NR Band n41 PC2 Antenna F Path 1 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 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	17.42	0	0.0
	1	137	17.23		0.0
	1	271	17.02		0.0
	135	0	17.27	0-1	0.0
	135	69	17.32	0	0.0
	135	138	17.10	0-1	0.0
	270	0	17.23		0.0
DFT-s-OFDM 16QAM	1	1	17.31	0-1	0.0
CP-OFDM QPSK	1	1	17.24	0-1.5	0.0

Table 10-81
NR Band n41 PC2 Antenna F Path 1 Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.45	0	0.0
	1	137	14.27		0.0
	1	271	14.11		0.0
	135	0	14.23	0-1	0.0
	135	69	14.34	0	0.0
	135	138	14.15	0-1	0.0
	270	0	14.26		0.0
DFT-s-OFDM 16QAM	1	1	14.28	0-1	0.0
CP-OFDM QPSK	1	1	14.33	0-1.5	0.0

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Table 10-82

NR Band n41 PC2 Antenna B & E & D Path 1 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant B	19.72
SRS #3 Ant E	18.24
SRS #4 Ant D	16.01

Table 10-83

NR Band n41 PC2 Antenna B & E & D Path 1 Measured for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant B	18.19
SRS #3 Ant E	16.73
SRS #4 Ant D	14.54

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Table 10-84
NR Band n41 PC2 Antenna B Path 2 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 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	20.86	0	0.0
	1	137	20.84		0.0
	1	271	20.64		0.0
	135	0	20.82	0-1	0.0
	135	69	20.80	0	0.0
	135	138	20.77	0-1	0.0
	270	0	20.81		0.0
DFT-s-OFDM 16QAM	1	1	20.76	0-1	0.0
CP-OFDM QPSK	1	1	20.77	0-1.5	0.0

Table 10-85
NR Band n41 PC2 Antenna B Path 2 Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	25.00	0	0.0
	1	137	24.93		0.0
	1	271	24.78		0.0
	135	0	24.92	0-1	0.0
	135	69	24.85	0	0.0
	135	138	24.88	0-1	0.0
	270	0	24.90		0.0
DFT-s-OFDM 16QAM	1	1	24.91	0-1	0.0
CP-OFDM QPSK	1	1	24.90	0-1.5	0.0

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10.4.7 NR Band n48

Table 10-86

NR Band n48 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	17.81	18.25	18.15	0	0.0
	1	53	17.96	18.14	18.09		0.0
	1	104	18.09	18.03	18.22		0.0
	50	0	17.90	18.23	18.05	0-1	0.0
	50	28	18.06	18.28	18.10	0	0.0
	50	56	18.02	18.13	18.20	0-1	0.0
	100	0	17.99	18.16	18.08		0.0
DFT-s-OFDM 16QAM	1	1	17.82	18.22	18.18	0-1	0.0
CP-OFDM QPSK	1	1	17.84	18.23	18.19	0-1.5	0.0

Table 10-87

NR Band n48 Ant F Measured P_{Limit} for DSI = 1 (Head) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	13.88	14.51	14.42	0	0.0
	1	53	14.10	14.47	14.30		0.0
	1	104	14.23	14.33	14.45		0.0
	50	0	14.04	14.50	14.37	0-1	0.0
	50	28	14.18	14.54	14.43	0	0.0
	50	56	14.15	14.42	14.46	0-1	0.0
	100	0	14.12	14.47	14.38		0.0
DFT-s-OFDM 16QAM	1	1	13.94	14.47	14.38	0-1	0.0
CP-OFDM QPSK	1	1	13.89	14.49	14.35	0-1.5	0.0

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Table 10-88
NR Band n48 Antenna C, I, D Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth			
Channel			
Antenna	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS #2 Ant C	12.87	13.27	13.23
SRS #3 Ant I	15.98	16.26	16.03
SRS #4 Ant D	11.74	12.05	11.95

Table 10-89
NR Band n48 Antenna C, I, D Measured P_{Limit} for DSI = 1 (Head) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth			
Channel			
Antenna	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS #2 Ant C	9.05	9.48	9.51
SRS #3 Ant I	12.13	12.49	12.23
SRS #4 Ant D	7.81	8.29	8.23

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10.4.8 NR Band n77

Table 10-90
NR Band n77 DoD Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.46	0	0.0
	1	137	17.05		0.0
	1	271	17.31		0.0
	135	0	17.34	0-1	0.0
	135	69	17.09	0	0.0
	135	138	17.16	0-1	0.0
	270	0	17.19		0.0
DFT-s-OFDM 16QAM	1	1	17.29	0-1	0.0
CP-OFDM QPSK	1	1	17.31	0-1.5	0.0

Table 10-91
NR Band n77 DoD Antenna F Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	15.32	0	0.0
	1	137	14.87		0.0
	1	271	15.15		0.0
	135	0	15.04	0-1	0.0
	135	69	14.87	0	0.0
	135	138	14.91	0-1	0.0
	270	0	15.00		0.0
DFT-s-OFDM 16QAM	1	1	15.31	0-1	0.0
CP-OFDM QPSK	1	1	15.30	0-1.5	0.0

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Table 10-92
NR Band n77 DoD Antenna C, I, D Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant C	11.61
SRS #3 Ant I	15.40
SRS #4 Ant D	10.48

Table 10-93
NR Band n77 DoD Antenna C, I, D Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant C	10.57
SRS #3 Ant I	14.42
SRS #4 Ant D	9.48

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Table 10-94
NR Band n77 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 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	17.66	17.53	0	0.0
	1	137	17.36	17.50		0.0
	1	271	17.20	17.48		0.0
	135	0	17.59	17.30	0-1	0.0
	135	69	17.37	17.42	0	0.0
	135	138	17.22	17.57	0-1	0.0
	270	0	17.39	17.26		0.0
DFT-s-OFDM 16QAM	1	1	17.43	17.39	0-1	0.0
CP-OFDM QPSK	1	1	17.57	17.49	0-1.5	0.0

Table 10-95
NR Band n77 Antenna F Measured P_{Limit} for DSI = 1 (Head) - 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	15.70	15.05	0	0.0
	1	137	15.42	15.03		0.0
	1	271	15.41	15.36		0.0
	135	0	15.47	15.05	0-1	0.0
	135	69	15.41	15.16	0	0.0
	135	138	15.35	15.29	0-1	0.0
	270	0	15.38	15.16		0.0
DFT-s-OFDM 16QAM	1	1	15.75	15.16	0-1	0.0
CP-OFDM QPSK	1	1	15.78	15.21	0-1.5	0.0

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Table 10-96
NR Band n77 Antenna C, I, D Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant C	11.81	10.32
SRS #3 Ant I	15.47	15.18
SRS #4 Ant D	10.81	10.11

Table 10-97
NR Band n77 Antenna C, I, D Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant C	10.87	9.35
SRS #3 Ant I	14.49	14.16
SRS #4 Ant D	9.86	9.12



Figure 10-4
Power Measurement Setup – NR FDD

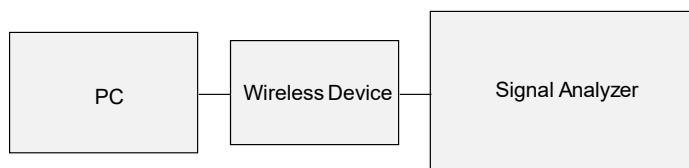


Figure 10-5
Power Measurement Setup – NR TDD

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10.4.9 NTN Band 255

Table 10-98
NTN Band b255 Antenna F Measured P_{Max} for DSI = 0 (Body-worn and Phablet) - 20 MHz Bandwidth

Rx Channel	Tx Channel	Frequency	# Tones	Tone Start	BPSK	QPSK
228737	261505	1626.6	1	0	22.44	22.48
			1	5	22.8	22.73
			1	11	22.42	22.12
			3	0	22.29	19.82
			3	3	22.38	19.89
			3	6	22.32	19.91
			6	0	22.23	19.17
			6	6	22.32	19.94
			12	0	22.31	19.83
			1	0	22.41	22.42
			1	5	22.76	22.90
			1	11	22.38	22.65
228906	261674	1643.5	3	0	22.4	20.17
			3	3	22.69	20.40
			3	6	22.54	20.24
			6	0	22.64	20.43
			6	6	22.66	20.39
			12	0	22.62	20.69
			1	0	22.42	22.33
			1	5	22.81	22.74
			1	11	22.35	22.16
			3	0	22.55	20.06
			3	3	22.57	19.93
			3	6	22.48	19.80
229075	261843	1660.4	6	0	22.65	20.39
			6	6	22.72	20.52
			12	0	22.54	20.77

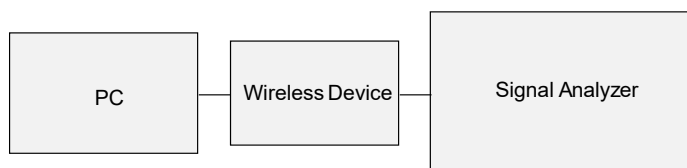


Figure 10-6
Power Measurement Setup – NTN

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10.5 WLAN Conducted Powers

Table 10-99

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

2.4GHz WIFI (20MHz 802.11b SISO ANT H)				2.4GHz WIFI (20MHz 802.11ac SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.40	2412	1	Average	12.22
2437	6		12.80	2437	6		12.09
2462	11		12.45	2462	11		12.40
2.4GHz WIFI (20MHz 802.11g SISO ANT H)				2.4GHz WIFI (20MHz 802.11ax SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.56	2412	1	Average	12.39
2437	6		12.24	2437	6		12.27
2462	11		12.01	2462	11		12.58
2.4GHz WIFI (20MHz 802.11n SISO ANT H)				2.4GHz WIFI (20MHz 802.11be SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.27	2412	1	Average	12.37
2437	6		12.11	2437	6		12.25
2462	11		12.37	2462	11		12.56

Table 10-100

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

2.4GHz WIFI (20MHz 802.11b SISO ANT J)				2.4GHz WIFI (20MHz 802.11ac SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.00	2412	1	Average	12.71
2437	6		13.30	2437	6		12.70
2462	11		12.98	2462	11		12.57
2.4GHz WIFI (20MHz 802.11g SISO ANT J)				2.4GHz WIFI (20MHz 802.11ax SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.82	2412	1	Average	12.86
2437	6		12.81	2437	6		12.84
2462	11		12.69	2462	11		12.67
2.4GHz WIFI (20MHz 802.11n SISO ANT J)				2.4GHz WIFI (20MHz 802.11be SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.72	2412	1	Average	12.86
2437	6		12.69	2437	6		12.83
2462	11		12.57	2462	11		12.73

Table 10-101

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

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	12.33	12.93	15.65
2437	6		12.69	13.24	15.98
2462	11		12.38	12.98	15.70

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Table 10-102
2.4 GHz WLAN Measured P_{Max} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant H

2.4GHz WIFI (20MHz 802.11b SISO ANT H)				2.4GHz WIFI (20MHz 802.11ac SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.39	2412	1	Average	17.31
2437	6		19.47	2437	6		17.18
2462	11		19.46	2462	11		17.40
2.4GHz WIFI (20MHz 802.11g SISO ANT H)				2.4GHz WIFI (20MHz 802.11ax SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.40	2412	1	Average	17.45
2437	6		17.28	2437	6		17.28
2462	11		17.48	2462	11		17.03
2.4GHz WIFI (20MHz 802.11n SISO ANT H)				2.4GHz WIFI (20MHz 802.11be SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.35	2412	1	Average	17.45
2437	6		17.24	2437	6		17.33
2462	11		17.44	2462	11		17.04

Table 10-103
2.4 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant J

2.4GHz WIFI (20MHz 802.11b SISO ANT J)				2.4GHz WIFI (20MHz 802.11ac SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.19	2412	1	Average	17.12
2437	6		19.48	2437	6		17.40
2462	11		19.33	2462	11		17.32
2.4GHz WIFI (20MHz 802.11g SISO ANT J)				2.4GHz WIFI (20MHz 802.11ax SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.20	2412	1	Average	17.25
2437	6		17.46	2437	6		17.51
2462	11		17.40	2462	11		17.45
2.4GHz WIFI (20MHz 802.11n SISO ANT J)				2.4GHz WIFI (20MHz 802.11be SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.11	2412	1	Average	17.22
2437	6		17.40	2437	6		17.50
2462	11		17.34	2462	11		17.45

Table 10-104
2.4 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – MIMO

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	19.01	19.70	22.38
2437	6		19.20	19.95	22.60
2462	11		19.01	19.80	22.43

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Table 10-105
5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant H

5GHz WIFI (80MHz 802.11ac SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	11.23
UNII-2A	5290	58	12.43
UNII-2C	5530	106	11.63
	5610	122	12.15
	5690	138	12.27
UNII-3	5775	155	12.61
UNII-4	5885	171	13.11

5GHz WIFI (80MHz 802.11ax SISO ANT H)				5GHz WIFI (80MHz 802.11be SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	10.68	UNII-1	5210	42	10.53
UNII-2A	5290	58	12.07	UNII-2A	5290	58	11.77
UNII-2C	5530	106	11.22	UNII-2C	5530	106	11.33
	5610	122	12.44		5610	122	12.49
	5690	138	12.60		5690	138	12.59
UNII-3	5775	155	12.38	UNII-3	5775	155	12.42
UNII-4	5885	171	12.48	UNII-4	5885	171	12.41

5GHz WIFI (40MHz 802.11n SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.44
	5230	46	13.28
UNII-2A	5270	54	13.13
	5310	62	13.05
UNII-2C	5510	102	12.56
	5590	118	12.40
	5630	126	12.38
	5710	142	12.85
UNII-3	5755	151	12.83
	5795	159	12.94
UNII-4	5835	167	12.97
	5875	175	13.29

5GHz WIFI (40MHz 802.11ac SISO ANT H)				5GHz WIFI (40MHz 802.11ax SISO ANT H)				5GHz WIFI (40MHz 802.11be SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.49	UNII-1	5190	38	13.11	UNII-1	5190	38	13.28
	5230	46	13.14		5230	46	12.81		5230	46	13.25
UNII-2A	5270	54	13.13	UNII-2A	5270	54	12.68	UNII-2A	5270	54	12.95
	5310	62	13.09		5310	62	12.53		5310	62	12.84
UNII-2C	5510	102	12.54	UNII-2C	5510	102	12.14	UNII-2C	5510	102	12.35
	5590	118	12.53		5590	118	12.04		5590	118	12.29
	5630	126	12.43		5630	126	12.01		5630	126	12.21
	5710	142	12.79		5710	142	12.45		5710	142	12.93
UNII-3	5755	151	12.77	UNII-3	5755	151	12.48	UNII-3	5755	151	12.64
	5795	159	12.80		5795	159	12.53		5795	159	12.73
UNII-4	5835	167	13.00	UNII-4	5835	167	12.60	UNII-4	5835	167	12.88
	5875	175	13.27		5875	175	12.95		5875	175	13.16

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Table 10-106
5 GHz WLAN Measured 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	11.41
UNII-2A	5290	58	12.22
UNII-2C	5530	106	11.57
	5610	122	12.65
	5690	138	12.91
UNII-3	5775	155	12.86
UNII-4	5885	171	13.14

5GHz WIFI (80MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	11.23
UNII-2A	5290	58	11.52
UNII-2C	5530	106	11.53
	5610	122	12.09
	5690	138	12.23
UNII-3	5775	155	12.51
UNII-4	5885	171	12.11

5GHz WIFI (80MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	11.45
UNII-2A	5290	58	11.69
UNII-2C	5530	106	11.54
	5610	122	12.11
	5690	138	12.31
UNII-3	5775	155	12.48
UNII-4	5885	171	12.15

5GHz WIFI (40MHz 802.11n SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.67
	5230	46	13.01
UNII-2A	5270	54	13.12
	5310	62	13.23
UNII-2C	5510	102	13.47
	5590	118	13.48
	5630	126	13.15
	5710	142	13.44
UNII-3	5755	151	13.75
	5795	159	13.80
UNII-4	5835	167	13.88
	5875	175	13.90

5GHz WIFI (40MHz 802.11n SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.44
	5230	46	13.28
UNII-2A	5270	54	13.13
	5310	62	13.05
UNII-2C	5510	102	12.56
	5590	118	12.40
	5630	126	12.38
	5710	142	12.85
UNII-3	5755	151	12.83
	5795	159	12.94
UNII-4	5835	167	12.97
	5875	175	13.29

5GHz WIFI (40MHz 802.11ac SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.63
	5230	46	13.00
UNII-2A	5270	54	12.95
	5310	62	13.10
UNII-2C	5510	102	13.38
	5590	118	13.46
	5630	126	13.05
	5710	142	13.34
UNII-3	5755	151	13.60
	5795	159	13.76
UNII-4	5835	167	13.78
	5875	175	13.95

5GHz WIFI (40MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.16
	5230	46	12.50
UNII-2A	5270	54	12.59
	5310	62	12.74
UNII-2C	5510	102	12.92
	5590	118	13.04
	5630	126	12.60
	5710	142	12.99
UNII-3	5755	151	13.28
	5795	159	13.31
UNII-4	5835	167	13.41
	5875	175	13.74

5GHz WIFI (40MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.52
	5230	46	13.06
UNII-2A	5270	54	13.09
	5310	62	13.25
UNII-2C	5510	102	13.41
	5590	118	13.54
	5630	126	13.19
	5710	142	13.29
UNII-3	5755	151	13.51
	5795	159	13.62
UNII-4	5835	167	13.94
	5875	175	13.46

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Table 10-107
5 GHz WLAN Measured 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	10.30	11.85	14.15
UNII-2A	5290	58	12.49	12.98	15.75
UNII-2C	5530	106	10.83	11.48	14.18
	5610	122	12.31	12.68	15.51
	5690	138	12.22	12.98	15.62
UNII-3	5775	155	12.31	13.10	15.73
UNII-4	5885	171	12.80	13.22	16.02

5GHz WIFI (40MHz 802.11n MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5190	38	13.51	12.72	16.14
	5230	46	13.31	12.98	16.16
UNII-2A	5270	54	13.22	13.06	16.15
	5310	62	13.04	13.21	16.14
UNII-2C	5510	102	12.53	13.47	16.04
	5590	118	12.43	13.58	16.05
	5630	126	12.34	13.16	15.78
	5710	142	12.82	13.48	16.17
UNII-3	5755	151	12.83	13.75	16.32
	5795	159	12.86	13.90	16.42
UNII-4	5835	167	12.95	13.94	16.48
	5875	175	13.25	13.99	16.65

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Table 10-108
5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant H

5GHz WIFI (20MHz 802.11a SISO ANT H)				
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	
UNII-1	5180	36	16.58	
	5200	40	16.56	
	5220	44	16.44	
	5240	48	16.48	
UNII-2A	5260	52	16.65	
	5280	56	16.69	
	5300	60	16.37	
	5320	64	16.42	
UNII-2C	5500	100	16.51	
	5600	120	16.29	
	5620	124	16.31	
	5720	144	16.69	
UNII-3	5745	149	16.69	
	5785	157	16.87	
	5825	165	16.97	
UNII-4	5845	169	16.89	
	5865	173	16.88	
	5885	177	16.89	

5GHz WIFI (20MHz 802.11n SISO ANT H)				
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Target
UNII-1	5180	36	16.47	16.0
	5200	40	16.40	16.0
	5220	44	16.34	16.0
	5240	48	16.43	16.0
UNII-2A	5260	52	16.43	16.0
	5280	56	16.29	16.0
	5300	60	16.00	16.0
	5320	64	16.11	16.0
UNII-2C	5500	100	16.50	16.0
	5600	120	16.08	16.0
	5620	124	16.21	16.0
	5720	144	16.41	16.0
UNII-3	5745	149	16.26	16.0
	5785	157	16.13	16.0
	5825	165	16.00	16.0
UNII-4	5845	169	16.49	16.0
	5865	173	16.33	16.0
	5885	177	16.05	16.0

5GHz WIFI (20MHz 802.11ac SISO ANT H)				
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Target
UNII-1	5180	36	16.40	16.0
	5200	40	16.38	16.0
	5220	44	16.34	16.0
	5240	48	16.31	16.0
UNII-2A	5260	52	16.34	16.0
	5280	56	16.20	16.0
	5300	60	16.02	16.0
	5320	64	16.11	16.0
UNII-2C	5500	100	16.47	16.0
	5600	120	16.14	16.0
	5620	124	16.07	16.0
	5720	144	16.46	16.0
UNII-3	5745	149	16.24	16.0
	5785	157	16.23	16.0
	5825	165	16.49	16.0
UNII-4	5845	169	16.40	16.0
	5865	173	16.37	16.0
	5885	177	16.05	16.0

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5GHz WIFI (20MHz 802.11ax SISO ANT H)				
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Target
UNII-1	5180	36	15.16	15.0
	5200	40	15.33	15.0
	5220	44	15.22	15.0
	5240	48	15.01	15.0
UNII-2A	5260	52	15.45	15.0
	5280	56	15.02	15.0
	5300	60	15.44	15.0
	5320	64	15.46	15.0
UNII-2C	5500	100	15.07	15.0
	5620	124	15.54	15.0
	5640	128	15.48	15.0
	5720	144	15.05	15.0
UNII-3	5745	149	15.34	15.0
	5785	157	15.28	15.0
	5825	165	15.18	15.0
UNII-4	5845	169	15.24	15.0
	5865	173	15.28	15.0
	5885	177	15.36	15.0
5GHz WIFI (20MHz 802.11be SISO ANT H)				
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Target
UNII-1	5180	36	15.12	15.0
	5200	40	15.29	15.0
	5220	44	15.18	15.0
	5240	48	15.01	15.0
UNII-2A	5260	52	15.41	15.0
	5280	56	15.04	15.0
	5300	60	15.40	15.0
	5320	64	15.42	15.0
UNII-2C	5500	100	15.03	15.0
	5600	120	15.01	15.0
	5620	124	15.50	15.0
	5720	144	15.01	15.0
UNII-3	5745	149	15.30	15.0
	5785	157	15.24	15.0
	5825	165	15.14	15.0
UNII-4	5845	169	15.20	15.0
	5865	173	15.24	15.0
	5885	177	15.32	15.0

Table 10-109

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

5GHz WIFI (20MHz 802.11a SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	16.58
	5200	40	16.76
	5220	44	16.88
	5240	48	16.68
UNII-2A	5260	52	16.80
	5280	56	16.81
	5300	60	16.94
	5320	64	16.73
UNII-2C	5500	100	16.83
	5600	120	16.79
	5620	124	16.72
	5720	144	16.98
UNII-3	5745	149	16.48
	5785	157	16.55
	5825	165	16.63
UNII-4	5845	169	16.68
	5865	173	16.63
	5885	177	16.72

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5GHz WIFI (20MHz 802.11n SISO ANT E)				5GHz WIFI (20MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	16.20	UNII-1	5180	36	15.01
	5200	40	16.32		5200	40	15.06
	5220	44	16.31		5220	44	15.09
	5240	48	16.01		5240	48	15.34
UNII-2A	5260	52	16.39	UNII-2A	5260	52	15.49
	5280	56	16.04		5280	56	15.32
	5300	60	16.32		5300	60	15.14
	5320	64	16.16		5320	64	15.39
UNII-2C	5500	100	16.16	UNII-2C	5500	100	15.02
	5600	120	16.39		5600	120	15.08
	5620	124	16.29		5620	124	15.49
	5720	144	16.15		5720	144	15.46
UNII-3	5745	149	16.28	UNII-3	5745	149	15.15
	5785	157	16.40		5785	157	15.11
	5825	165	16.01		5825	165	15.01
UNII-4	5845	169	16.04	UNII-4	5845	169	15.41
	5865	173	16.25		5865	173	15.49
	5885	177	16.37		5885	177	15.30
5GHz WIFI (20MHz 802.11ac SISO ANT E)				5GHz WIFI (20MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	16.18	UNII-1	5180	36	15.47
	5200	40	16.36		5200	40	15.56
	5220	44	16.36		5220	44	15.08
	5240	48	16.06		5240	48	15.31
UNII-2A	5260	52	16.24	UNII-2A	5260	52	15.48
	5280	56	16.50		5280	56	15.24
	5300	60	16.44		5300	60	15.13
	5320	64	16.05		5320	64	15.39
UNII-2C	5500	100	16.03	UNII-2C	5500	100	15.01
	5600	120	16.29		5600	120	15.04
	5620	124	16.06		5620	124	15.43
	5720	144	16.10		5720	144	15.47
UNII-3	5745	149	16.44	UNII-3	5745	149	15.14
	5785	157	16.26		5785	157	15.04
	5825	165	16.26		5825	165	15.41
UNII-4	5845	169	16.07	UNII-4	5845	169	15.41
	5865	173	16.15		5865	173	15.51
	5885	177	16.40		5885	177	15.30

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Table 10-110
5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – MIMO

5GHz WIFI (20MHz 802.11a MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT H	ANT E	MIMO
UNII-1	5180	36	16.78	16.79	19.80
	5200	40	16.81	16.78	19.80
	5220	44	16.73	16.94	19.84
	5240	48	16.74	16.98	19.87
UNII-2A	5260	52	16.86	16.69	19.79
	5280	56	16.89	16.76	19.83
	5300	60	16.62	16.85	19.75
	5320	64	16.61	16.69	19.66
UNII-2C	5500	100	16.60	16.96	19.79
	5600	120	16.43	16.74	19.60
	5620	124	16.38	16.71	19.56
	5720	144	16.70	16.98	19.85
UNII-3	5745	149	16.01	16.51	19.28
	5785	157	16.09	16.62	19.37
	5825	165	16.27	16.63	19.46
	5845	169	16.43	16.61	19.53
UNII-4	5865	173	16.30	16.71	19.52
	5885	177	16.33	16.73	19.54

Table 10-111
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant H

6GHz WIFI (80MHz 802.11ax SISO ANT H)				6GHz WIFI (80MHz 802.11be SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	9.67	UNII-5	5985	7	9.67
	6305	71	9.35		6145	39	9.41
	6385	87	9.51		6305	71	9.33
UNII-6	6465	103	9.23		6385	87	9.12
	6545	119	9.71	UNII-6	6465	103	9.06
UNII-7	6705	151	9.45	UNII-7	6545	119	9.27
	6785	167	9.59		6705	151	9.19
	6865	183	9.71		6785	167	9.47
	6945	199	9.83		6865	183	9.21
UNII-8	7025	215	9.76	UNII-8	6945	199	9.36
					7025	215	9.32

Table 10-112
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant E

6GHz WIFI (80MHz 802.11ax SISO ANT E)				6GHz WIFI (80MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	9.38	UNII-5	5985	7	9.30
	6305	71	9.85		6145	39	9.16
	6385	87	9.71		6305	71	9.36
UNII-6	6465	103	9.95		6385	87	9.28
	6545	119	9.29	UNII-6	6465	103	9.25
UNII-7	6705	151	9.91	UNII-7	6545	119	9.48
	6785	167	9.88		6705	151	9.26
	6865	183	9.44		6785	167	9.29
	6945	199	9.86		6865	183	9.07
UNII-8	7025	215	9.54	UNII-8	6945	199	9.02
					7025	215	9.31

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Table 10-113
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – MIMO

6GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	5985	7	9.39	9.73	12.57
	6145	39	8.79	9.78	12.32
	6305	71	8.11	9.58	11.92
	6385	87	8.45	9.48	12.01
UNII-6	6465	103	8.87	9.64	12.28
	6545	119	9.38	9.63	12.52
UNII-7	6705	151	9.37	9.61	12.50
	6785	167	9.63	9.49	12.57
	6865	183	9.45	8.88	12.18
	6945	199	9.48	9.13	12.32
UNII-8	7025	215	9.52	9.32	12.43

Table 10-114
6 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (Body-worn or Phablet) – Ant H

6GHz WIFI (80MHz 802.11ax SISO ANT H)				6GHz WIFI (80MHz 802.11ax SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	10.53	UNII-6	6465	103	10.58
	6305	71	10.90		6945	199	10.52
UNII-7	6705	151	10.80	UNII-8	7025	215	10.74

6GHz WIFI (80MHz 802.11be SISO ANT H)				6GHz WIFI (80MHz 802.11be SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	10.53	UNII-6	6465	103	10.54
	6305	71	10.43		6945	199	10.48
UNII-7	6705	151	10.10	UNII-8	7025	215	10.70

Table 10-115
6 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (Body-worn or Phablet) – Ant E

6GHz WIFI (80MHz 802.11ax SISO ANT E)				6GHz WIFI (80MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	10.78	UNII-6	6465	103	10.92
	6305	71	11.10		6945	199	10.92
UNII-7	6705	151	10.68	UNII-8	7025	215	10.99

6GHz WIFI (80MHz 802.11be SISO ANT E)				6GHz WIFI (80MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	10.20	UNII-6	6465	103	10.98
	6305	71	11.01		6945	199	10.98
UNII-7	6705	151	11.04	UNII-8	7025	215	10.99

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Table 10-116
6 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (Body-worn or Phablet) – MIMO

6GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	5985	7	10.85	9.85	13.39
	6305	71	9.52	11.20	13.45
UNII-7	6705	151	11.28	10.23	13.80

6GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-6	6465	103	9.04	10.88	13.07
UNII-8	6945	199	9.42	10.98	13.28
	7025	215	9.49	10.99	13.31

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.

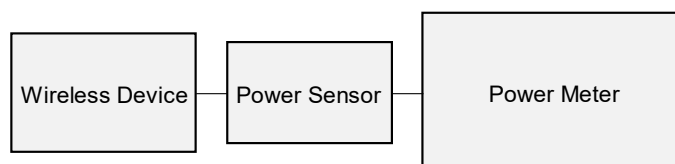


Figure 10-7
Power Measurement Setup

10.6 Bluetooth Conducted Powers

Table 10-117
Bluetooth LE Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant H

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	12.45	17.567
2440	1 Mbps	19	LE	11.56	14.335
2480	1 Mbps	39	LE	11.12	12.936

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Table 10-118
Bluetooth LE Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant J

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	11.57	14.355
2440	1 Mbps	19	LE	11.32	13.536
2480	1 Mbps	39	LE	10.77	11.940

Table 10-119
Bluetooth LE Measured for P_{Max} Average RF Power for DSI = 0 (Body-worn or Phablet) and P_{Limit} Average RF Power for DSI = 1 (Head) – MIMO

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	ANT H Peak Conducted Power		ANT J Peak Conducted Power		Dual Peak Conducted Power	
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1 Mbps	0	LE	12.35	17.179	11.92	15.560	15.15	32.739
2440	1 Mbps	19	LE	11.39	13.772	11.67	14.689	14.54	28.461
2480	1 Mbps	39	LE	10.98	12.531	11.22	13.243	14.11	25.775

Table 10-120
Bluetooth LE Measured P_{Max} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant H

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	18.39	69.024
2440	1 Mbps	19	LE	18.11	64.714
2480	1 Mbps	39	LE	17.65	58.210

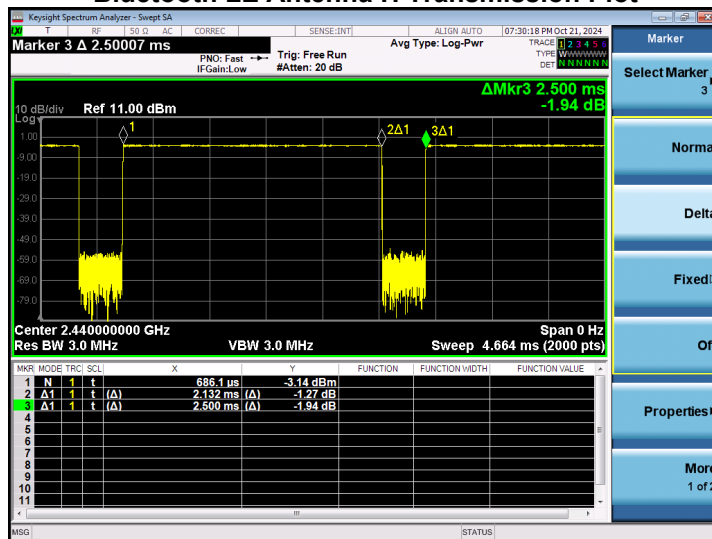
Table 10-121
Bluetooth LE Measured P_{Max} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant J

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	17.11	51.404
2440	1 Mbps	19	LE	18.02	63.387
2480	1 Mbps	39	LE	17.89	61.518

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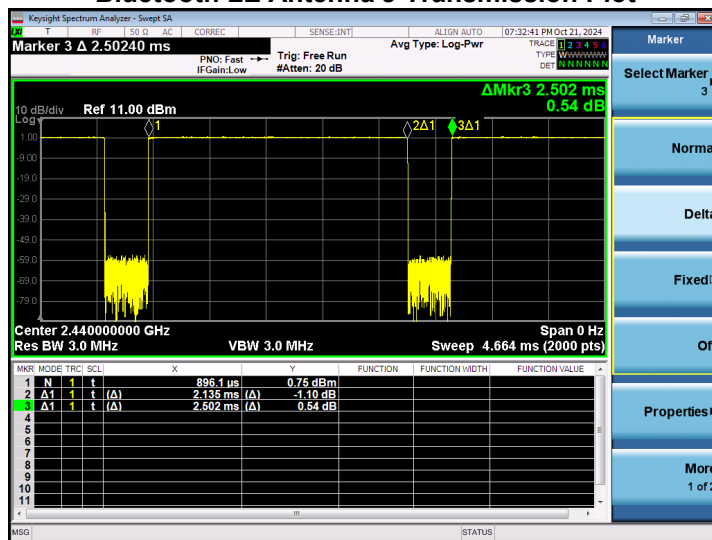
Figure 10-8
Bluetooth LE Antenna H Transmission Plot



Equation 10-1
Bluetooth LE Antenna H Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.132\text{ms}}{2.500\text{ms}} * 100\% = 85.28\%$$

Figure 10-9
Bluetooth LE Antenna J Transmission Plot



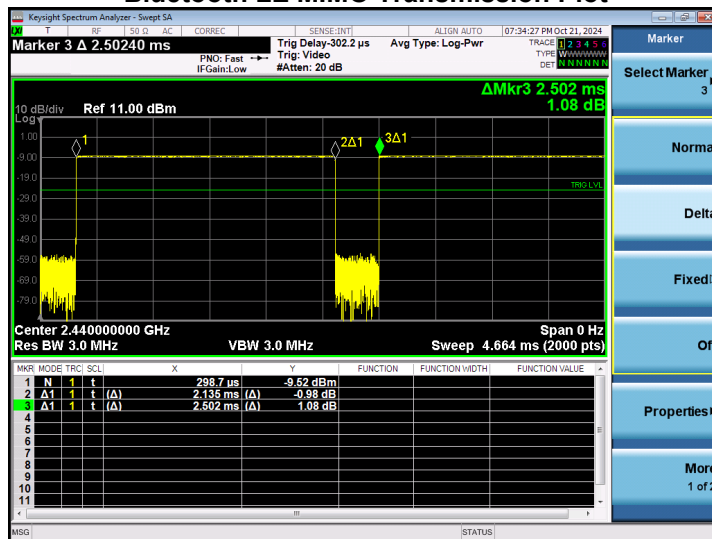
Equation 10-2
Bluetooth LE Antenna J Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.135\text{ms}}{2.502\text{ms}} * 100\% = 85.33\%$$

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Figure 10-10
Bluetooth LE MIMO Transmission Plot



Equation 10-3
Bluetooth LE MIMO Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.135ms}{2.502ms} * 100\% = 85.33\%$$

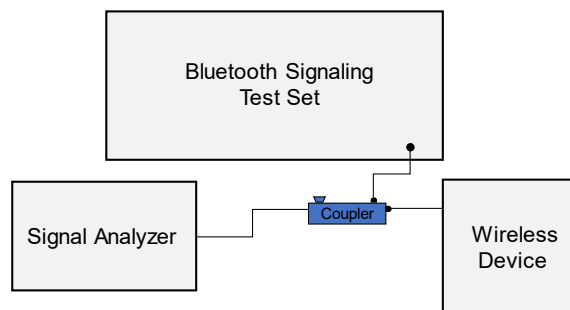


Figure 10-11
Power Measurement Setup

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11 SYSTEM VERIFICATION

11.1 Tissue Verification

Table 11-1
Measured Head Tissue Properties

Tests Performed on Calibrated for	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ (S/m)	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
10/02/2024	30 Head	24.8	4	0.116	57.318	0.750	58.000	-4.83%	4.21%
			8	0.116	58.584	0.750	58.000	-4.53%	1.22%
			12	0.117	59.469	0.750	58.000	-4.40%	-2.79%
			13	0.117	53.354	0.750	58.000	-4.40%	-3.86%
			14	0.117	53.357	0.750	58.000	-4.40%	-3.10%
			30	0.119	52.825	0.750	58.000	-4.13%	-4.22%
			60	0.122	52.049	0.753	54.325	-4.12%	-4.19%
			95	0.126	51.621	0.753	54.213	-3.66%	-4.22%
			150	0.151	50.187	0.750	52.300	-1.68%	-4.04%
			880	0.882	41.325	0.888	42.305	-0.68%	-2.32%
09/02/2024	750 Head	21.21	995	0.887	41.269	0.889	42.227	-0.22%	-2.26%
			700	0.889	41.248	0.889	42.201	0.00%	-2.26%
			710	0.892	41.221	0.890	42.149	0.22%	-2.26%
			725	0.906	41.178	0.891	42.071	0.56%	-2.12%
			750	0.903	41.084	0.894	41.942	0.01%	-2.04%
			770	0.910	41.009	0.895	41.838	1.68%	-1.66%
			785	0.917	40.961	0.896	41.760	2.34%	-1.61%
			800	0.923	40.927	0.897	41.682	2.90%	-1.61%
			880	0.882	40.875	0.888	42.305	-0.68%	-3.88%
			995	0.887	40.823	0.889	42.227	-0.22%	-3.88%
09/04/2024	750 Head	21.0	700	0.889	40.810	0.889	42.201	0.00%	-3.77%
			710	0.892	40.599	0.890	42.149	0.22%	-3.66%
			725	0.888	40.596	0.891	42.071	0.79%	-3.62%
			750	0.906	40.464	0.894	41.942	1.34%	-3.55%
			770	0.912	40.381	0.895	41.838	1.92%	-3.48%
			785	0.917	40.353	0.896	41.760	2.24%	-3.42%
			800	0.922	40.298	0.897	41.682	2.79%	-3.38%
			880	0.889	41.845	0.888	42.305	0.11%	-1.06%
			995	0.884	41.798	0.889	42.227	0.56%	-1.02%
			700	0.989	41.748	0.989	42.201	0.67%	-1.00%
09/05/2024	750 Head	23.0	710	0.899	41.739	0.890	41.838	1.79%	-0.62%
			725	0.904	41.700	0.891	41.760	3.24%	-0.58%
			750	0.912	41.603	0.894	41.942	2.07%	-0.74%
			770	0.920	41.579	0.895	41.838	2.79%	-0.62%
			785	0.920	41.537	0.896	41.760	3.24%	-0.58%
			800	0.931	41.486	0.897	41.682	3.79%	-0.47%
			880	0.889	40.819	0.888	42.305	-2.14%	-3.52%
			995	0.874	40.781	0.889	42.227	-1.69%	-3.47%
			710	0.879	40.711	0.890	42.149	-2.24%	-3.41%
			725	0.885	40.662	0.891	42.071	-0.67%	-3.38%
09/06/2024	750 Head	21.0	750	0.932	40.620	0.894	41.942	-0.22%	-3.29%
			770	0.939	40.523	0.895	41.838	0.45%	-3.07%
			785	0.943	40.519	0.896	41.760	0.78%	-2.97%
			800	0.959	40.481	0.897	41.682	1.34%	-2.88%
			880	0.875	40.406	0.888	42.305	-0.46%	-3.47%
			995	0.880	40.463	0.889	42.227	-1.01%	-3.04%
			710	0.885	42.407	0.890	42.149	-0.50%	0.61%
			725	0.891	42.368	0.891	42.071	0.00%	0.76%
			750	0.900	42.302	0.894	41.942	0.67%	0.88%
			770	0.907	42.245	0.895	41.838	1.34%	0.97%
750 Head	22.6	780	0.906	42.202	0.896	41.760	0.79%	1.06%	
		800	0.918	42.155	0.897	41.682	2.34%	1.13%	
		880	0.887	40.319	0.888	42.305	-2.36%	-4.66%	
		995	0.876	40.268	0.889	42.227	-0.80%	-4.62%	
		700	0.875	40.251	0.889	42.201	-1.57%	-4.62%	
		710	0.879	40.222	0.890	42.149	-1.24%	-4.57%	
		725	0.886	40.178	0.891	42.071	-0.67%	-4.52%	
		750	0.894	40.166	0.894	41.942	0.00%	-4.40%	
		770	0.900	40.020	0.895	41.838	0.68%	-4.29%	
		780	0.906	40.001	0.896	41.760	0.73%	-4.22%	
09/20/2024	750 Head	21.0	800	0.911	39.959	0.897	41.682	1.56%	-4.21%
			880	0.863	42.145	0.888	42.305	-2.62%	-0.38%
			995	0.868	42.088	0.889	42.227	-3.05%	-0.22%
			700	0.869	42.069	0.889	42.201	-2.29%	-0.32%
			710	0.873	42.035	0.890	42.149	-1.91%	-0.27%
			725	0.878	41.988	0.891	42.071	-0.40%	-0.22%
			750	0.886	41.931	0.894	41.942	-0.89%	-0.09%
			770	0.892	41.892	0.895	41.838	-0.34%	0.12%
			780	0.897	41.873	0.896	41.760	0.11%	0.27%
			800	0.904	41.827	0.897	41.682	0.78%	0.35%
10/02/2024	750 Head	21.4	880	0.871	41.388	0.888	42.305	-1.91%	-2.17%
			995	0.876	41.337	0.889	42.227	-0.80%	-2.11%
			700	0.878	41.321	0.889	42.201	-2.24%	-2.06%
			710	0.881	41.289	0.890	42.149	-1.01%	-2.04%
			725	0.887	41.245	0.891	42.071	-0.45%	-1.97%
			750	0.888	41.188	0.894	41.942	0.22%	-1.88%
			770	0.903	41.110	0.895	41.838	0.89%	-1.74%
			785	0.908	41.085	0.896	41.760	1.24%	-1.66%
			800	0.914	41.022	0.897	41.682	1.90%	-1.58%
			710	0.881	41.289	0.890	42.149	-1.01%	-2.04%
10/24/2024	750 Head	19.0	820	0.917	40.416	0.899	41.578	2.00%	-2.79%
			835	0.945	41.588	0.900	41.500	5.00%	-0.29%
			850	0.950	41.559	0.916	41.500	3.71%	-0.34%
			815	0.915	40.428	0.898	41.594	1.89%	-2.78%
			820	0.917	40.416	0.899	41.578	2.00%	-2.79%
			835	0.923	40.352	0.900	41.500	2.66%	-2.77%
			850	0.928	40.320	0.916	41.500	3.27%	-2.80%
			815	0.924	42.165	0.898	41.594	2.80%	1.22%
			820	0.926	42.091	0.899	41.578	3.00%	1.22%
			835	0.932	42.021	0.900	41.500	3.66%	1.37%
09/08/2024	835 Head	22.6	850	0.937	42.005	0.916	41.500	2.29%	1.22%
			815	0.910	42.620	0.898	41.594	1.34%	2.47%
			820	0.917	40.607	0.899	41.578	0.45%	2.47%
			835	0.923	40.559	0.900	41.500	1.89%	2.57%
			850	0.928	40.528	0.916	41.500	0.76%	2.48%
			815	0.909	41.088	0.898	41.594	1.23%	1.58%
			820	0.911	43.071	0.899	41.578	1.33%	3.59%
			835	0.917	43.035	0.900	41.500	1.89%	3.76%
			850	0.923	42.988	0.916	41.500	0.76%	3.62%
			1910	1.228	40.587	1.290	40.300	-8.87%	0.71%
10/14/2024	1640 Head	21.8	1620	0.971	39.798	0.934	40.384	-4.68%	0.81%
			1640	1.244	40.542	1.307	40.253	-4.62%	0.72%
			1650	1.249	40.528	1.313	40.257	-4.67%	0.72%
			1660	1.250	40.500	1.320	40.254	-4.74%	0.70%
			1620	1.234	39.969	1.291	40.284	-4.79%	0.70%
			1640	1.244	39.968	1.307	40.263	-4.82%	0.71%
			1650	1.249	39.954	1.313	40.267	-4.85%	0.72%
			1660	1.250	39.940	1.320	40.270	-4.88%	0.73%
			1620	1.234	39.969	1.291	40.284	-4.79%	0.70%
			1640	1.244	39.968	1.307	40.263	-4.82%	0.71%

Table 11-2
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
09/03/2024	1750 Head	21.3	1700	1.323	41.494	1.343	40.145	-1.46%	3.36%
			1705	1.326	41.487	1.345	40.141	-1.41%	3.35%
			1710	1.329	41.480	1.348	40.136	-1.41%	3.35%
			1720	1.335	41.462	1.354	40.126	-1.40%	3.33%
			1745	1.351	41.417	1.368	40.087	-1.24%	3.32%
			1750	1.354	41.408	1.371	40.079	-1.24%	3.32%
			1770	1.366	41.377	1.383	40.047	-1.23%	3.32%
			1790	1.378	41.343	1.394	40.016	-1.15%	3.32%
			1700	1.314	40.428	1.343	40.145	-2.15%	0.70%
			1705	1.317	40.420	1.345	40.141	-2.08%	0.70%
09/03/2024	1750 Head	20.4	1710	1.319	40.410	1.348	40.136	-2.15%	0.68%
			1720	1.325	40.391	1.354	40.126	-2.14%	0.65%
			1745	1.341	40.340	1.368	40.087	-1.97%	0.63%
			1750	1.344	40.331	1.371	40.079	-1.97%	0.63%
			1770	1.356	40.302	1.383	40.047	-1.95%	0.64%
			1790	1.368	40.274	1.394	40.016	-1.97%	0.64%
			1700	1.313	39.819	1.343	40.145	-2.23%	-1.31%
			1705	1.316	39.812	1.345	40.141	-2.16%	-1.32%
			1710	1.319	39.805	1.348	40.136	-2.15%	-1.33%
			1720	1.325	39.803	1.354	40.126	-2.14%	-1.35%
09/05/2024	1750 Head	21.0	1745	1.341	39.530	1.368	40.087	-1.97%	-1.39%
			1750	1.344	39.520	1.371	40.079	-1.97%	-1.39%
			1770	1.356	39.498	1.383	40.047	-1.95%	-1.45%
			1790	1.367	39.469	1.394	40.016	-1.94%	-1.39%
			1700	1.334	38.969	1.343	40.145	-0.87%	-2.88%
			1705	1.336	38.961	1.345	40.141	-0.87%	-2.89%
			1710	1.339	38.955	1.348	40.136	-0.87%	-2.89%
			1720	1.345	38.941	1.354	40.126	-0.86%	-2.89%
			1745	1.357	38.924	1.368	40.087	-0.80%	-2.89%
			1750	1.360	38.915	1.371	40.079	-0.80%	-2.89%
09/19/2024	1750 Head	23.2	1770	1.370	38.867	1.383	40.047	-0.84%	-2.85%
			1790	1.381	38.822	1.394	40.016	-0.83%	-2.88%
			1700	1.322	40.171	1.343	40.145	-0.85%	0.05%
			1705	1.325	40.164	1.345	40.141	-1.48%	0.05%
			1710	1.328	40.157	1.348	40.136	-1.48%	0.05%
			1720	1.335	40.142	1.354	40.126	-1.40%	0.04%
			1745	1.352	40.101	1.368	40.087	-1.17%	0.03%
			1750	1.355	40.091	1.371	40.079	-1.17%	0.03%
			1770	1.367	40.060	1.383	40.047	-1.15%	0.03%
			1790	1.378	40.025	1.394	40.016	-1.15%	0.02%
09/30/2024	1750 Head	21.8	1700	1.290	39.617	1.343	40.145	-3.65%	-1.32%
			1705	1.292	39.610	1.345	40.141	-3.64%	-1.32%
			1710	1.295	39.600	1.348	40.136	-3.63%	-1.34%
			1720	1.300	39.578	1.354	40.126	-3.60%	-1.37%
			1745	1.313	39.508	1.368	40.087	-4.01%	-1.45%
			1750	1.316	39.492	1.371	40.079	-4.01%	-1.46%
			1770	1.328	39.447	1.383	40.047	-4.12%	-1.50%
			1790	1.337	39.426	1.394	40.016	-4.06%	-1.47%
			1850	1.403	40.179	1.400	40.000	0.21%	0.48%
			1860	1.409	40.181	1.400	40.000	0.54%	0.45%
09/03/2024	1900 Head	20.4	1880	1.421	40.127	1.400	40.000	1.55%	0.32%
			1900	1.434	40.097	1.400	40.000	2.43%	0.24%
			1905	1.436	40.091	1.400	40.000	2.71%	0.23%
			1910	1.441	40.085	1.400	40.000	2.93%	0.21%
			1920	1.447	40.073	1.400	40.000	3.35%	0.18%
			1950	1.396	39.279	1.400	40.000	-2.35%	-4.32%
			1980	1.402	39.245	1.400	40.000	0.14%	-4.39%
			1990	1.415	39.205	1.400	40.000	1.07%	-4.49%
			1900	1.429	39.196	1.400	40.000	2.07%	-4.54%
			1905	1.432	39.184	1.400	40.000	2.29%	-4.54%
09/03/2024	1900 Head	21.3	1910	1.435	39.184	1.400	40.000	2.50%	-4.54%
			1920	1.441	39.180	1.400	40.000	2.93%	-4.58%
			1950	1.413	41.252	1.400	40.000	0.93%	3.13%
			1960	1.420	41.237	1.400	40.000	1.43%	3.09%
			1990	1.433	41.205	1.400	40.000	2.35%	3.01%
			1900	1.446	41.173	1.400	40.000	3.25%	2.93%
			1905	1.449	41.167	1.400	40.000	3.55%	2.92%
			1910	1.452	41.161	1.400	40.000	3.71%	2.90%
			1920	1.458	41.149	1.400	40.000	4.14%	2.87%
			1950	1.359	41.076	1.400	40.000	-2.43%	3.64%
09/04/2024	1900 Head	21.9	1980	1.365	41.088	1.400	40.000	-2.50%	3.92%
			1990	1.379	41.042	1.400	40.000	-1.97%	3.88%
			1900	1.391	41.022	1.400	40.000	-0.84%	3.81%
			1905	1.394	41.010	1.400	40.000	-0.43%	3.80%
			1910	1.397	41.014	1.400	40.000	-0.21%	3.79%
			1920	1.403	41.005	1.400	40.000	0.21%	3.78%
			1950	1.400	39.398	1.400	40.000	0.00%	-1.81%
			1960	1.408	39.343	1.400	40.000	0.43%	-1.84%
			1980	1.420	39.322	1.400	40.000	1.43%	-1.89%
			1900	1.433	39.294	1.400	40.000	2.35%	-1.77%
09/05/2024	1900 Head	21.0	1905	1.436	39.285	1.400	40.000	2.57%	-1.79%
			1910	1.439	39.276	1.400	40.000	2.79%	-1.81%
			1920	1.445	39.257	1.400	40.000	3.21%	-1.88%
			1950	1.375	40.998	1.400	40.000	-1.57%	2.27%
			1980	1.385	40.982	1.400	40.000	-1.07%	2.23%
			1990	1.398	40.962	1.400	40.000	-0.14%	2.19%
			1900	1.411	40.832	1.400	40.000	0.79%	2.08%
			1905	1.415	40.824	1.400	40.000	1.07%	2.05%
			1910	1.418	40.816	1.400	40.000	1.29%	2.04%
			1920	1.424	40.802	1.400	40.000	1.71%	2.01%
09/11/2024	1900 Head	19.0	1950	1.394	39.908	1.400	40.000	-0.43%	-0.15%
			1960	1.400	39.925	1.400	40.000	0.00%	-0.10%
			1980	1.413	39.907	1.400	40.000	0.93%	-0.23%
			1900	1.425	39.882	1.400	40.000	1.79%	-0.30%
			1905	1.428	39.874	1.400	40.000	2.05%	-0.31%
			1910	1.432	39.867	1.400	40.000	2.25%	-0.33%
			1920	1.438	39.852	1.400	40.000	2.71%	-0.37%
			2300	1.718	39.770	1.670	39.500	2.87%	0.68%
			2310	1.727	39.729	1.675	39.480	2.86%	0.65%
			2320	1.738	39.689	1.687	39.460	3.02%	0.58%
09/02/2024	2450 Head	24.9	2400	1.826	39.438	1.750	39.299	3.99%	0.38%
			2450	1.882	39.241	1.800	39.200	4.55%	0.10%
			2480	1.915	39.152	1.833	39.162	4.47%	-0.03%
			2500	1.934	39.089	1.855	39.136	4.28%	-0.12%
			2510	1.943	39.048	1.866	39.123	4.19%	-0.20%
			2535	1.971	38.944	1.893	39.082	4.12%	-0.38%
			2550	1.990	38.898	1.909	39.073	4.24%	-0.48%
			2560	2.003	38.866	1.920	39.060	4.32%	-0.52%
			2600	2.047	38.715	1.964	39.009	4.23%	-0.75%
			2650	2.102	38.520	2.018	39.945	4.16%	-1.09%
			2680	2.149	38.367	2.061	39.907	4.34%	-1.31%
			2700	2.182	38.330	2.073	39.882	4.29%	-1.42%

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Table 11-3
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
09/02/2024	2450 Head	21.0	2300	1.714	37.088	1.670	36.500	2.63%	-3.83%
			2310	1.720	37.090	1.679	36.480	2.44%	-3.83%
			2320	1.727	37.043	1.687	36.480	2.37%	-3.83%
			2400	1.782	37.820	1.756	36.289	1.48%	-3.73%
			2450	1.816	37.791	1.800	36.200	1.00%	-3.68%
			2480	1.840	37.715	1.833	36.162	0.38%	-3.68%
			2500	1.850	37.680	1.855	36.156	0.00%	-3.72%
			2510	1.863	37.662	1.866	36.123	-0.16%	-3.72%
			2535	1.884	37.620	1.893	36.062	-0.46%	-3.75%
			2550	1.897	37.606	1.909	36.073	-0.63%	-3.75%
			2560	1.906	37.593	1.920	36.060	-0.73%	-3.76%
			2600	1.909	37.523	1.964	36.009	1.27%	-3.81%
			2650	1.981	37.440	2.018	36.945	-1.83%	-3.86%
			2680	2.004	37.386	2.051	36.907	-2.29%	-3.91%
			2700	2.010	37.350	2.073	36.862	-2.60%	-3.93%
			2300	1.713	36.861	1.670	36.500	2.57%	-3.72%
			2310	1.724	36.828	1.679	36.480	2.68%	-2.18%
			2320	1.726	36.868	1.687	36.480	2.90%	-2.18%
			2400	1.821	36.333	1.756	36.289	3.70%	-2.43%
			2450	1.877	36.199	1.800	36.200	4.28%	-2.66%
09/04/2024	2450 Head	24.9	2300	1.868	36.848	1.833	36.162	4.15%	-2.42%
			2320	1.921	37.292	1.892	36.156	4.10%	-3.00%
			2510	1.942	37.624	1.966	36.123	4.07%	-3.06%
			2535	1.969	37.542	1.993	36.062	4.01%	-3.20%
			2550	1.984	37.789	1.909	36.073	3.93%	-3.29%
			2560	1.994	37.750	1.920	36.060	3.85%	-3.35%
			2600	2.040	37.567	1.964	36.009	3.87%	-3.60%
			2650	2.088	37.476	2.018	36.945	3.96%	-3.84%
			2680	2.131	37.291	2.051	36.907	3.80%	-4.15%
			2700	2.162	37.267	2.073	36.862	3.87%	-4.21%
			2300	1.684	36.765	1.670	36.500	-0.36%	-0.74%
			2310	1.676	36.764	1.679	36.480	-0.24%	-0.72%
			2320	1.686	36.730	1.687	36.480	-0.06%	-0.70%
			2400	1.776	36.425	1.756	36.289	1.64%	-0.35%
			2450	1.833	36.268	1.800	36.200	1.83%	-0.17%
			2480	1.868	36.130	1.833	36.162	1.91%	-0.06%
			2500	1.881	36.090	1.855	36.136	1.94%	-0.22%
			2510	1.903	36.013	1.866	36.123	1.98%	-0.28%
			2535	1.934	36.933	1.893	36.062	2.17%	-0.41%
09/04/2024	2450 Head	21.5	2300	1.681	36.862	1.630	36.073	3.20%	-0.47%
			2320	1.683	36.897	1.620	36.060	2.24%	-0.54%
			2600	2.008	36.675	1.964	36.009	2.24%	-0.85%
			2650	2.070	36.485	2.018	36.945	2.56%	-1.16%
			2680	2.105	36.363	2.051	36.907	2.63%	-1.40%
			2700	2.124	36.283	2.073	36.862	2.46%	-1.54%
			2300	1.670	36.460	1.670	36.500	0.00%	-2.63%
			2310	1.676	36.448	1.679	36.480	-0.18%	-2.62%
			2320	1.683	36.430	1.687	36.480	-0.24%	-2.61%
			2400	1.760	36.307	1.756	36.289	0.91%	-2.42%
			2450	1.777	36.271	1.800	36.200	-1.26%	-2.37%
			2480	1.801	36.234	1.833	36.162	-1.75%	-2.37%
			2500	1.817	36.204	1.855	36.136	-2.05%	-2.28%
			2510	1.825	36.188	1.866	36.123	-2.20%	-2.39%
			2535	1.844	36.151	1.893	36.062	-2.59%	-2.41%
			2550	1.860	36.121	1.909	36.073	-2.67%	-2.41%
			2560	1.867	36.117	1.920	36.060	-2.76%	-2.41%
			2600	1.898	36.057	1.964	36.009	-3.36%	-2.44%
			2650	1.938	37.075	2.018	36.945	-3.96%	-2.49%
			2680	1.962	37.020	2.051	36.907	-4.34%	-2.42%
09/08/2024	2450 Head	24.8	2700	1.976	37.894	2.073	36.862	-4.66%	-2.54%
			2300	1.728	40.050	1.670	36.500	3.47%	1.41%
			2310	1.728	40.024	1.679	36.480	3.47%	1.37%
			2320	1.740	39.985	1.687	36.480	3.68%	1.33%
			2400	1.835	36.688	1.756	36.289	4.50%	1.04%
			2450	1.887	36.523	1.800	36.200	4.63%	0.68%
			2480	1.910	36.409	1.833	36.162	4.69%	0.63%
			2500	1.942	36.341	1.855	36.136	4.69%	0.52%
			2510	1.964	36.311	1.866	36.123	4.72%	0.46%
			2535	1.980	36.225	1.893	36.062	4.60%	0.34%
			2550	1.996	36.170	1.909	36.073	4.56%	0.23%
			2560	2.007	36.160	1.920	36.060	4.53%	0.16%
			2600	2.055	36.995	1.964	36.009	4.63%	-0.08%
			2650	2.109	36.820	2.018	36.945	4.57%	-0.31%
			2680	2.143	36.696	2.051	36.907	4.49%	-0.24%
			2700	2.166	36.622	2.073	36.862	4.46%	-0.17%
			2300	1.695	36.230	1.670	36.500	-0.90%	-0.68%
			2310	1.697	36.197	1.679	36.480	-0.71%	-0.72%
			2320	1.697	36.161	1.687	36.480	-0.96%	-0.76%
09/09/2024	2450 Head	24.6	2400	1.707	36.626	1.756	36.289	0.63%	-1.18%
			2450	1.821	36.633	1.800	36.200	1.17%	-1.49%
			2480	1.857	36.469	1.833	36.162	1.71%	-1.69%
			2500	1.876	36.418	1.855	36.136	1.29%	-1.83%
			2510	1.891	36.380	1.866	36.123	1.34%	-1.88%
			2535	1.918	36.302	1.893	36.062	1.32%	-2.02%
			2550	1.935	36.242	1.909	36.073	1.36%	-2.13%
			2560	1.945	36.199	1.920	36.060	1.30%	-2.20%
			2600	1.981	36.023	1.964	36.009	1.37%	-2.62%
			2650	2.040	37.845	2.018	36.945	1.54%	-2.62%
			2680	2.082	37.716	2.051	36.907	1.51%	-3.06%
			2700	2.108	37.634	2.073	36.862	1.54%	-3.51%
			2300	1.676	36.902	1.670	36.500	0.48%	-1.51%
			2310	1.680	36.872	1.679	36.480	0.66%	-1.54%
			2320	1.701	36.838	1.687	36.480	0.83%	-1.58%
			2400	1.753	36.916	1.756	36.289	2.17%	-1.97%
			2450	1.800	36.341	1.800	36.200	2.78%	-2.19%
			2480	1.863	36.164	1.833	36.162	2.73%	-2.47%
09/13/2024	2450 Head	24.5	2500	1.909	36.125	1.855	36.136	2.91%	-1.59%
			2510	1.921	36.088	1.866	36.123	2.89%	-2.65%
			2535	1.951	37.099	1.893	36.062	3.06%	-2.82%
			2550	1.967	37.840	1.909	36.073	3.04%	-3.80%
			2560	1.978	37.892	1.920	36.060	3.02%	-3.99%
			2600	2.028	37.724	1.964	36.009	3.16%	-3.29%
			2650	2.098	37.520	2.018	36.945	3.37%	-3.62%
			2680	2.118	37.401	2.051	36.907	3.27%	-3.87%
			2700	2.141	37.312	2.073	36.862	3.28%	-4.04%
			2300	1.683	36.480	1.670	36.500	0.76%	-2.56%
			2310	1.694	36.462	1.679	36.480	0.89%	-2.58%
			2320	1.708	36.431	1.687	36.480	1.13%	-2.61%
			2400	1.791	36.122	1.756	36.289	1.99%	-2.84%
			2450	1.846	37.995	1.800	36.200	2.56%	-3.18%
			2480	1.876	37.837	1.833	36.162	2.39%	-3.38%
			2500	1.888	37.795	1.855	36.136	2.32%	-3.49%
			2510	1.910	37.724	1.866	36.123	2.36%	-3.58%
			2535	1.938	37.647	1.893	36.062	2.38%	-3.70%
			2550	1.963	37.580	1.909	36.073	2.30%	-3.82%
09/18/2024	2450 Head	21.8	2560	1.963	37.543	1.920	36.060	2.24%	-3.87%
			2600	2.007	37.389	1.964	36.009	2.19%	-4.16%
			2650	2.062	37.221	2.018	36.945	2.18%	-4.43%
			2680	2.096	37.106	2.051	36.907	2.16%	-4.62%
			2700	2.117	37.030	2.073	36.862	2.12%	-4.76%

Table 11-4
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Time Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (B/m)	Measured Dielectric Constant, ε	TARGET Dielectric Constant, ε (B/m)	TARGET Frequency (MHz)	% dev σ	% dev ε			
09/23/2024	2450 Head	20.7	2200	1.713	38.003	1.676	38.000	2.07%	-1.61%			
			2310	1.727	38.008	1.679	38.400	2.50%	-1.60%			
			2320	1.720	38.072	1.687	38.400	2.43%	-1.49%			
			2400	1.702	38.011	1.680	38.200	1.64%	-1.50%			
			2420	1.825	38.059	1.833	38.162	1.69%	-1.40%			
			2480	1.860	38.015	1.833	38.162	1.69%	-1.40%			
			2500	1.860	38.001	1.865	38.126	0.25%	-1.43%			
			2510	1.877	38.046	1.868	38.123	0.69%	-1.42%			
			2520	1.897	38.022	1.893	38.092	0.21%	-1.45%			
			2550	1.930	38.007	1.909	38.073	0.08%	-1.47%			
			2560	1.910	38.081	1.920	38.060	-0.10%	-1.48%			
			2600	1.961	38.011	1.964	38.000	-0.06%	-1.52%			
			2610	1.995	38.100	2.018	38.045	-1.14%	-1.57%			
			2680	2.010	38.087	2.051	38.907	-1.56%	-1.69%			
			2700	2.020	38.071	2.073	38.882	-1.81%	-1.61%			
			2710	1.719	38.003	1.679	38.000	2.07%	-1.61%			
			2710	1.721	38.008	1.679	38.400	2.50%	-1.60%			
			2720	1.728	38.072	1.687	38.400	2.43%	-1.49%			
			2930/2024	2450 Head	20.7	2940	1.700	38.103	1.706	38.200	1.04%	-1.38%
			2950			1.820	38.059	1.800	38.200	1.67%	-1.38%	
2960	1.853	38.015	1.833			38.162	1.69%	-1.40%				
2980	1.860	38.001	1.865			38.126	0.25%	-1.43%				
2990	1.877	38.046	1.868			38.123	0.69%	-1.42%				
3000	1.897	38.022	1.893			38.092	0.21%	-1.45%				
3020	1.930	38.007	1.909			38.073	0.08%	-1.47%				
3030	1.910	38.081	1.920			38.060	-0.10%	-1.48%				
3050	1.961	38.011	1.964			38.000	-0.06%	-1.52%				
3060	1.995	38.100	2.018			38.045	-1.14%	-1.57%				
3080	2.010	38.087	2.051			38.907	-1.56%	-1.69%				
3090	2.020	38.071	2.073			38.882	-1.81%	-1.61%				
3100	1.719	38.003	1.679			38.000	2.07%	-1.61%				
3110	1.721	38.008	1.679			38.400	2.50%	-1.60%				
3120	1.728	38.072	1.687			38.400	2.43%	-1.49%				
3130	1.746	38.108	1.687			38.400	3.65%	-1.74%				
3140	1.800	38.071	1.706			38.200	2.86%	-1.69%				
3160	1.860	38.100	1.800			38.200	2.72%	-1.68%				
3180	1.871	38.044	1.810			38.162	2.67%	-1.60%				
3200	1.892	38.009	1.895			38.136	1.08%	-1.69%				
10/02/2024	2450 Head	20.9	3210	1.890	38.078	1.888	38.123	1.77%	-1.67%			
			3220	1.921	38.026	1.883	38.060	1.48%	-1.72%			
			3250	1.933	38.003	1.909	38.073	1.26%	-1.74%			
			3260	1.942	37.996	1.920	38.060	1.15%	-1.73%			
			3300	1.970	37.999	1.964	38.000	0.91%	-1.82%			
			3320	2.010	37.991	2.018	38.045	-0.10%	-1.89%			
			3380	2.026	37.987	2.067	38.887	-0.87%	-1.81%			
			3400	2.025	37.970	2.073	38.882	-0.87%	-1.90%			
			2300	1.690	38.016	1.670	38.000	1.69%	-1.78%			
			2310	1.700	38.001	1.670	38.400	1.73%	-1.77%			
			2320	1.710	38.001	1.687	38.400	1.60%	-1.82%			
			2400	1.810	38.070	1.706	38.200	3.08%	-1.71%			
			2420	1.860	38.102	1.800	38.200	3.79%	-1.44%			
			2440	1.901	38.110	1.833	38.162	3.71%	-1.69%			
			2500	1.920	38.003	1.895	38.136	3.77%	-1.82%			
			2510	1.937	37.980	1.888	38.123	3.80%	-1.89%			
			2520	1.981	37.960	1.893	38.092	3.81%	-1.90%			
			2550	1.980	37.930	1.890	38.073	3.63%	-1.97%			
			2560	1.980	37.900	1.920	38.060	3.68%	-1.95%			
			10/14/2024	2450 Head	21.5	2570	1.980	37.925	2.018	38.045	4.16%	-1.90%
2680	2.128	37.908				2.051	38.907	4.14%	-1.94%			
2700	2.120	37.915				2.073	38.882	4.10%	-1.99%			
2300	1.671	40.000				1.670	38.000	0.00%	1.92%			
2310	1.670	40.001				1.670	38.400	0.00%	1.94%			
2320	1.687	40.026				1.687	38.400	0.00%	1.95%			
2400	1.700	40.001				1.670	38.200	-0.67%	1.70%			
2420	1.813	39.995				1.833	38.162	-1.09%	2.13%			
2500	1.850	39.999				1.865	38.126	-1.40%	2.10%			
2510	1.837	39.942				1.868	38.123	-1.85%	2.09%			
2520	1.890	39.980				1.893	38.092	-1.80%	2.08%			
2550	1.874	39.974				1.899	38.073	-1.64%	2.08%			
2560	1.880	39.938				1.920	38.060	-2.08%	2.04%			
2600	1.910	39.906				1.964	38.000	-2.52%	2.02%			
2610	1.907	39.977				2.018	38.045	-3.02%	1.68%			
2680	1.981	39.950				2.051	38.907	-3.47%	1.64%			
2700	1.997	39.930				2.073	38.882	-3.67%	1.62%			
3300	2.610	39.984				2.708	38.157	-3.82%	1.76%			
3320	2.684	39.980				2.709	38.160	-3.83%	1.70%			
09/02/2024	3000 Head	19.6				3400	2.760	39.993	2.861	37.988	-3.52%	1.63%
			3500	2.807	39.999	2.913	37.926	-3.64%	1.50%			
			3600	2.890	39.996	3.004	37.871	-3.67%	1.52%			
			3700	2.950	39.988	3.074	37.860	-3.53%	1.51%			
			3800	2.995	39.978	3.067	37.711	-4.38%	1.04%			
			3900	2.950	39.968	3.068	37.700	-4.36%	1.02%			
			4000	2.985	39.967	3.069	37.643	-4.52%	1.02%			
			4100	3.410	38.073	3.528	37.243	-3.26%	1.77%			
			4150	3.460	38.148	3.579	37.188	-3.10%	1.69%			
			4300	2.600	39.496	2.708	38.157	-3.81%	1.68%			
			4350	2.650	39.491	2.709	38.100	-3.88%	1.47%			
			3400	2.745	39.921	2.861	37.988	-4.12%	1.23%			
			3500	2.797	39.940	2.913	37.920	-4.19%	1.19%			
			3550	2.830	39.940	2.964	37.871	-4.32%	1.17%			
			3600	2.860	39.940	3.004	37.860	-4.37%	1.16%			
			3650	2.885	39.973	3.075	37.814	-4.21%	1.07%			
			3700	2.885	39.968	3.068	37.757	-4.27%	1.09%			
			3800	2.921	39.978	3.067	37.711	-4.38%	1.04%			
			3900	2.950	39.968	3.068	37.700	-4.36%	1.02%			
			10/09/2024	3000 Head	19.3	3950	3.032	38.027	3.189	37.843	-4.32%	0.92%
4000	3.170	37.700				3.323	37.471	-4.53%	0.80%			
3900	3.200	37.714				3.353	37.437	-4.32%	0.78%			
3800	3.350	37.440				3.528	37.243	-3.81%	0.53%			
4100	3.430	37.441				3.579	37.188	-3.75%	0.49%			
3400	2.623	38.050				2.728	38.157	-3.12%	1.14%			
3500	2.673	38.076				2.768	38.157	-3.11%	1.14%			
3600	2.720	38.101				2.813	38.157	-3.07%	1.14%			
3700	2.769	38.125				2.864	38.157	-3.06%	1.14%			
3800	2.819	38.201				2.913	38.099	-3.71%	0.72%			
3900	2.868	38.281				3.016	38.071	-3.61%	0.72%			
4000	2.916	38.359				3.074	38.060	-3.63%	0.61%			
3500	2.750	38.050				2.864	37.988	-3.52%	1.63%			
3600	2.800	38.070				2.913	37.926	-3.64%	1.50%			
3700	2.850	38.089				2.964	37.871	-3.67%	1.52%			
3800	2.900	38.108				3.016	37.860	-3.69%	1.51%			
3900	2.950	38.127				3.067	37.814	-4.38%	1.04%			
4000	2.950	38.127				3.067	37.814	-4.38%	1.04%			
10/09/2024	3000 Head	19.3				4050	3.050	38.050	3.189	37.951	-3.62%	0.95%
						3950	2.988	37.888	3.107	37.711	-3.83%	0.88%
			3850	2.926	37.719	3.117	37.700	-4.26%	0.90%			
			3750	2.847	37.747	3.169	37.643	-4.63%	0.24%			
			3650	2.761	37.662	3.252	37.471	-4.94%	0.16%			
			3550	2.675	37.577	3.335	37.300	-5.25%	0.08%			
			4100	3.410	37.789	3.528	37.243	-3.77%	0.61%			
			4150	3.410	37.789	3.528	37.243	-3.77%	0.61%			
			4200	3.410	37.789	3.528	37.243	-3.77%	0.61%			
			4250	3.410	37.789	3.528	37.243	-3.77%	0.61%			
			4300	3.410	37.789	3.528	37.243	-3.77%	0.61%			
			4350	3.410	37.789	3.528	37.243	-3.77%	0.61%			
			4400	3.410	37.789	3.528	37.243	-3.77%	0.61%			
			4450	3.410	37.789	3.528	37.243	-3.77%	0.61%			
			4500	3.410	37.789	3.528	37.243	-3.77%	0.61%			
			4550	3.410	37.789	3.528	37.243	-3.77%	0.61%			
			4600	3.410	37.789	3.528	37.243	-3.77%	0.61%			
			4650	3.410	37.789	3.528	37.243	-3.77%	0.61%			
			4700	3.410	37.789	3.528	37.243	-3.77%	0.61%			

Table 11-5
Measured Head Tissue Properties

Calculated for Total Performance on:	Tissue Type	Time 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
09/02/2024	S200-S800 Head	21.1	5150	4.422	16.422	4.422	16.422	0.00%	0.00%
			5160	4.402	16.402	4.402	16.402	-0.45%	-0.64%
			5200	4.524	16.524	4.524	16.524	0.00%	0.00%
			5210	4.527	16.529	4.527	16.529	0.11%	0.06%
			5220	4.530	16.540	4.530	16.543	0.26%	0.17%
			5240	4.552	16.552	4.552	16.552	0.00%	0.00%
			5260	4.569	16.574	4.569	16.574	0.00%	0.00%
			5280	4.573	16.580	4.573	16.577	-0.07%	-0.17%
			5290	4.582	16.589	4.582	16.588	-0.06%	-0.06%
			5300	4.582	16.589	4.582	16.584	-0.35%	-0.32%
			5310	4.581	16.591	4.581	16.593	0.45%	0.29%
			5320	4.584	16.594	4.584	16.593	-0.06%	-0.06%
			5330	4.584	16.594	4.584	16.590	-0.24%	-0.24%
			5340	4.581	16.591	4.581	16.593	0.45%	0.29%
			5350	4.581	16.591	4.581	16.593	0.45%	0.29%
			5360	4.581	16.591	4.581	16.593	0.45%	0.29%
			5370	4.581	16.591	4.581	16.593	0.45%	0.29%
			5380	4.581	16.591	4.581	16.593	0.45%	0.29%
			5390	4.581	16.591	4.581	16.593	0.45%	0.29%
			5400	4.581	16.591	4.581	16.593	0.45%	0.29%
			5410	4.581	16.591	4.581	16.593	0.45%	0.29%
			5420	4.581	16.591	4.581	16.593	0.45%	0.29%
			5430	4.581	16.591	4.581	16.593	0.45%	0.29%
			5440	4.581	16.591	4.581	16.593	0.45%	0.29%
			5450	4.581	16.591	4.581	16.593	0.45%	0.29%
			5460	4.581	16.591	4.581	16.593	0.45%	0.29%
			5470	4.581	16.591	4.581	16.593	0.45%	0.29%
			5480	4.581	16.591	4.581	16.593	0.45%	0.29%
			5490	4.581	16.591	4.581	16.593	0.45%	0.29%
			5500	4.581	16.591	4.581	16.593	0.45%	0.29%
			5510	4.581	16.591	4.581	16.593	0.45%	0.29%
			5520	4.581	16.591	4.581	16.593	0.45%	0.29%
			5530	4.581	16.591	4.581	16.593	0.45%	0.29%
			5540	4.581	16.591	4.581	16.593	0.45%	0.29%
			5550	4.581	16.591	4.581	16.593	0.45%	0.29%
			5560	4.581	16.591	4.581	16.593	0.45%	0.29%
			5570	4.581	16.591	4.581	16.593	0.45%	0.29%
			5580	4.581	16.591	4.581	16.593	0.45%	0.29%
			5590	4.581	16.591	4.581	16.593	0.45%	0.29%
			5600	4.581	16.591	4.581	16.593	0.45%	0.29%
			5610	4.581	16.591	4.581	16.593	0.45%	0.29%
			5620	4.581	16.591	4.581	16.593	0.45%	0.29%
			5630	4.581	16.591	4.581	16.593	0.45%	0.29%
			5640	4.581	16.591	4.581	16.593	0.45%	0.29%
			5650	4.581	16.591	4.581	16.593	0.45%	0.29%
			5660	4.581	16.591	4.581	16.593	0.45%	0.29%
			5670	4.581	16.591	4.581	16.593	0.45%	0.29%
			5680	4.581	16.591	4.581	16.593	0.45%	0.29%
			5690	4.581	16.591	4.581	16.593	0.45%	0.29%
			5700	4.581	16.591	4.581	16.593	0.45%	0.29%
			5710	4.581	16.591	4.581	16.593	0.45%	0.29%
			5720	4.581	16.591	4.581	16.593	0.45%	0.29%
			5730	4.581	16.591	4.581	16.593	0.45%	0.29%
			5740	4.581	16.591	4.581	16.593	0.45%	0.29%
			5750	4.581	16.591	4.581	16.593	0.45%	0.29%
			5760	4.581	16.591	4.581	16.593	0.45%	0.29%
			5770	4.581	16.591	4.581	16.593	0.45%	0.29%
			5780	4.581	16.591	4.581	16.593	0.45%	0.29%
			5790	4.581	16.591	4.581	16.593	0.45%	0.29%
			5800	4.581	16.591	4.581	16.593	0.45%	0.29%
			5810	4.581	16.591	4.581	16.593	0.45%	0.29%
			5820	4.581	16.591	4.581	16.593	0.45%	0.29%
			5830	4.581	16.591	4.581	16.593	0.45%	0.29%
			5840	4.581	16.591	4.581	16.593	0.45%	0.29%
			5850	4.581	16.591	4.581	16.593	0.45%	0.29%
			5860	4.581	16.591	4.581	16.593	0.45%	0.29%
			5870	4.581	16.591	4.581	16.593	0.45%	0.29%
			5880	4.581	16.591	4.581	16.593	0.45%	0.29%
			5890	4.581	16.591	4.581	16.593	0.45%	0.29%
			5900	4.581	16.591	4.581	16.593	0.45%	0.29%
			5910	4.581	16.591	4.581	16.593	0.45%	0.29%
			5920	4.581	16.591	4.581	16.593	0.45%	0.29%
			5930	4.581	16.591	4.581	16.593	0.45%	0.29%
			5940	4.581	16.591	4.581	16.593	0.45%	0.29%
			5950	4.581	16.591	4.581	16.593	0.45%	0.29%
			5960	4.581	16.591	4.581	16.593	0.45%	0.29%
			5970	4.581	16.591	4.581	16.593	0.45%	0.29%
			5980	4.581	16.591	4.581	16.593	0.45%	0.29%
			5990	4.581	16.591	4.581	16.593	0.45%	0.29%
			6000	4.581	16.591	4.581	16.593	0.45%	0.29%
			6010	4.581	16.591	4.581	16.593	0.45%	0.29%
			6020	4.581	16.591	4.581	16.593	0.45%	0.29%
			6030	4.581	16.591	4.581	16.593	0.45%	0.29%
			6040	4.581	16.591	4.581	16.593	0.45%	0.29%
			6050	4.581	16.591	4.581	16.593	0.45%	0.29%
			6060	4.581	16.591	4.581	16.593	0.45%	0.29%
			6070	4.581	16.591	4.581	16.593	0.45%	0.29%
			6080	4.581	16.591	4.581	16.593	0.45%	0.29%
			6090	4.581	16.591	4.581	16.593	0.45%	0.29%
			6100	4.581	16.591	4.581	16.593	0.45%	0.29%
			6110	4.581	16.591	4.581	16.593	0.45%	0.29%
			6120	4.581	16.591	4.581	16.593	0.45%	0.29%
			6130	4.581	16.591	4.581	16.593	0.45%	0.29%
			6140	4.581	16.591	4.581	16.593	0.45%	0.29%
			6150	4.581	16.591	4.581	16.593	0.45%	0.29%
			6160	4.581	16.591	4.581	16.593	0.45%	0.29%
			6170	4.581	16.591	4.581	16.593	0.45%	0.29%
			6180	4.581	16.591	4.581	16.593	0.45%	0.29%
			6190	4.581	16.591	4.581	16.593	0.45%	0.29%
			6200	4.581	16.591	4.581	16.593	0.45%	0.29%
			6210	4.581	16.591	4.581	16.593	0.45%	0.29%
			6220	4.581	16.591	4.581	16.593	0.45%	0.29%
			6230	4.581	16.591	4.581	16.593	0.45%	0.29%
			6240	4.581	16.591	4.581	16.593	0.45%	0.29%
			6250	4.581	16.591	4.581	16.593	0.45%	0.29%
			6260	4.581	16.591	4.581	16.593	0.45%	0.29%
			6270	4.581	16.591	4.581	16.593	0.45%	0.29%
			6280	4.581	16.591	4.581	16.593	0.45%	0.29%
			6290	4.581	16.591	4.581	16.593	0.45%	0.29%
			6300	4.581	16.591	4.581	16.593	0.45%	0.29%
			6310	4.581	16.591	4.581	16.593	0.45%	0.29%
			6320	4.581	16.591	4.581	16.593	0.45%	0.29%
			6330	4.581	16.591	4.581	16.593	0.45%	0.29%
			6340	4.581	16.591	4.581	16.593	0.45%	0.29%
			6350	4.581	16.591	4.581	16.593	0.45%	0.29%
			6360	4.581	16.591	4.581	16.593	0.45%	0.29%
			6370	4.581	16.591	4.581	16.593	0.45%	0.29%
			6380	4.581	16.591	4.581	16.593	0.45%	0.29%
			6390	4.581	16.591	4.581	16.593	0.45%	0.29%
			6400	4.581	16.591	4.581	16.593	0.45%	0.29%
			6410	4.581	16.591	4.581	16.593	0.45%	0.29%
			6420	4.581	16.591	4.581	16.593	0.45%	0.29%
			6430	4.581	16.591	4.581	16.593	0.45%	0.29%

Table 11-6
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
09/09/2024	6000 Head	22.8	5935	5.235	35.504	5.411	35.143	-3.25%	1.03%
			5970	5.249	35.520	5.448	35.120	-3.65%	1.14%
			5985	5.253	35.444	5.464	35.110	-3.86%	0.95%
			6000	5.259	35.249	5.480	35.100	-4.03%	0.42%
			6025	5.324	35.203	5.510	35.070	-3.38%	0.38%
			6065	5.362	35.215	5.557	35.022	-3.51%	0.55%
			6075	5.353	35.173	5.569	35.010	-3.88%	0.47%
			6085	5.364	35.148	5.580	34.998	-3.87%	0.43%
			6185	5.501	35.029	5.698	34.878	-3.46%	0.43%
			6275	5.631	34.850	5.805	34.770	-3.00%	0.23%
			6285	5.627	34.866	5.816	34.758	-3.25%	0.31%
			6305	5.655	34.832	5.840	34.734	-3.17%	0.28%
			6345	5.716	34.761	5.887	34.686	-2.90%	0.22%
			6475	5.876	34.542	6.041	34.530	-2.73%	0.03%
			6485	5.903	34.547	6.052	34.518	-2.46%	0.08%
			6500	5.905	34.539	6.070	34.500	-2.72%	0.11%
			6505	5.897	34.538	6.076	34.494	-2.95%	0.13%
			6545	5.936	34.351	6.122	34.446	-3.04%	-0.28%
			6665	6.058	34.197	6.265	34.302	-3.30%	-0.31%
			6675	6.086	34.159	6.273	34.290	-2.98%	-0.38%
			6685	6.111	34.128	6.285	34.278	-2.77%	-0.44%
			6715	6.146	34.186	6.319	34.242	-2.74%	-0.16%
			6785	6.212	33.928	6.400	34.158	-2.94%	-0.67%
			6825	6.280	33.952	6.447	34.110	-2.59%	-0.46%
			6985	6.407	33.770	6.633	33.918	-3.41%	-0.44%
			6995	6.400	33.704	6.644	33.906	-3.67%	-0.60%
			7000	6.405	33.860	6.650	33.900	-3.68%	-0.71%
			7005	6.413	33.616	6.656	33.894	-3.65%	-0.82%
			7025	6.465	33.490	6.680	33.870	-3.22%	-1.12%
			5935	5.196	35.362	5.411	35.143	-4.05%	0.62%
5970	5.225	35.288	5.448	35.120	-4.07%	0.45%			
5985	5.248	35.243	5.464	35.110	-3.95%	0.38%			
6000	5.268	35.206	5.480	35.100	-3.87%	0.30%			
6025	5.300	35.171	5.510	35.070	-3.81%	0.29%			
6065	5.340	35.102	5.557	35.022	-3.90%	0.23%			
6075	5.353	35.081	5.569	35.010	-3.88%	0.20%			
6085	5.369	35.055	5.580	34.998	-3.78%	0.16%			
6185	5.485	34.907	5.698	34.878	-3.74%	0.08%			
6275	5.607	34.722	5.805	34.770	-3.41%	-0.14%			
6285	5.615	34.707	5.816	34.758	-3.46%	-0.15%			
6305	5.642	34.682	5.840	34.734	-3.38%	-0.15%			
6345	5.700	34.636	5.887	34.686	-3.18%	-0.14%			
6475	5.839	34.430	6.041	34.530	-3.34%	-0.29%			
6485	5.847	34.400	6.052	34.518	-3.39%	-0.34%			
6500	5.864	34.349	6.070	34.500	-3.39%	-0.44%			
6505	5.871	34.335	6.076	34.494	-3.37%	-0.46%			
6545	5.936	34.280	6.122	34.446	-3.04%	-0.48%			
6665	6.074	34.055	6.265	34.302	-3.05%	-0.72%			
6675	6.082	34.050	6.273	34.290	-3.04%	-0.70%			
6685	6.085	34.042	6.285	34.278	-3.18%	-0.69%			
6715	6.102	33.987	6.319	34.242	-3.43%	-0.74%			
6785	6.200	33.890	6.400	34.158	-3.13%	-0.78%			
6825	6.227	33.794	6.447	34.110	-3.41%	-0.93%			
6985	6.437	33.510	6.633	33.918	-2.95%	-1.20%			
6995	6.441	33.508	6.644	33.906	-3.06%	-1.17%			
7000	6.443	33.506	6.650	33.900	-3.11%	-1.16%			
7005	6.447	33.505	6.656	33.894	-3.14%	-1.15%			
7025	6.472	33.457	6.680	33.870	-3.11%	-1.22%			
7500	7.091	32.650	7.240	33.300	-2.06%	-1.95%			
7980	7.644	31.859	7.816	32.724	-2.20%	-2.64%			
5935	5.442	36.377	5.411	35.143	0.57%	3.51%			
5970	5.466	36.357	5.448	35.120	0.33%	3.52%			
5985	5.485	36.282	5.464	35.110	0.38%	3.34%			
6000	5.518	36.202	5.480	35.100	0.69%	3.14%			
6025	5.586	36.146	5.510	35.070	1.38%	3.07%			
6065	5.620	36.163	5.557	35.022	1.13%	3.26%			
6075	5.623	36.140	5.569	35.010	0.97%	3.23%			
6085	5.629	36.099	5.580	34.998	0.88%	3.15%			
6185	5.761	35.925	5.698	34.878	1.11%	3.00%			
6275	5.887	35.773	5.805	34.770	1.41%	2.88%			
6285	5.897	35.752	5.816	34.758	1.39%	2.86%			
6305	5.909	35.711	5.840	34.734	1.18%	2.81%			
6345	5.974	35.604	5.887	34.686	1.48%	2.65%			
6475	6.143	35.375	6.041	34.530	1.69%	2.45%			
6485	6.154	35.379	6.052	34.518	1.69%	2.49%			
6500	6.166	35.376	6.070	34.500	1.58%	2.54%			
6505	6.170	35.365	6.076	34.494	1.55%	2.53%			
6545	6.208	35.203	6.122	34.446	1.40%	2.20%			
6665	6.339	35.009	6.265	34.302	1.48%	2.06%			
6675	6.371	34.989	6.273	34.290	1.56%	1.98%			
6685	6.386	34.960	6.285	34.278	1.61%	1.99%			
6715	6.431	34.988	6.319	34.242	1.77%	2.18%			
6785	6.486	34.754	6.400	34.158	1.34%	1.74%			
6825	6.563	34.775	6.447	34.110	1.80%	1.95%			
6985	6.715	34.548	6.633	33.918	1.24%	1.86%			
6995	6.715	34.482	6.644	33.906	1.07%	1.70%			
7000	6.718	34.447	6.650	33.900	1.02%	1.61%			
7005	6.722	34.419	6.656	33.894	0.99%	1.55%			
7025	6.752	34.325	6.680	33.870	1.08%	1.34%			
7500	7.352	33.423	7.240	33.300	1.55%	0.37%			
7980	7.979	32.797	7.816	32.724	2.09%	0.22%			
8000	8.009	32.919	7.840	32.700	2.16%	0.67%			
5935	5.442	36.377	5.411	35.143	0.57%	3.51%			
5970	5.466	36.357	5.448	35.120	0.33%	3.52%			
5985	5.485	36.282	5.464	35.110	0.38%	3.34%			
6000	5.518	36.202	5.480	35.100	0.69%	3.14%			
6025	5.586	36.146	5.510	35.070	1.38%	3.07%			
6065	5.620	36.163	5.557	35.022	1.13%	3.26%			
6075	5.623	36.140	5.569	35.010	0.97%	3.23%			
6085	5.629	36.099	5.580	34.998	0.88%	3.15%			
6185	5.761	35.925	5.698	34.878	1.11%	3.00%			
6275	5.887	35.773	5.805	34.770	1.41%	2.88%			
6285	5.897	35.752	5.816	34.758	1.39%	2.86%			
6305	5.909	35.711	5.840	34.734	1.18%	2.81%			
6345	5.974	35.604	5.887	34.686	1.48%	2.65%			
6475	6.143	35.375	6.041	34.530	1.69%	2.45%			
6485	6.154	35.379	6.052	34.518	1.69%	2.49%			
6500	6.166	35.376	6.070	34.500	1.58%	2.54%			
6505	6.170	35.365	6.076	34.494	1.55%	2.53%			
6545	6.208	35.203	6.122	34.446	1.40%	2.20%			
6665	6.339	35.009	6.265	34.302	1.48%	2.06%			
6675	6.371	34.989	6.273	34.290	1.56%	1.98%			
6685	6.386	34.960	6.285	34.278	1.61%	1.99%			
6715	6.431	34.988	6.319	34.242	1.77%	2.18%			
6785	6.486	34.754	6.400	34.158	1.34%	1.74%			
6825	6.563	34.775	6.447	34.110	1.80%	1.95%			
6985	6.715	34.548	6.633	33.918	1.24%	1.86%			
6995	6.715	34.482	6.644	33.906	1.07%	1.70%			
7000	6.718	34.447	6.650	33.900	1.02%	1.61%			
7005	6.722	34.419	6.656	33.894	0.99%	1.55%			
7025	6.752	34.325	6.680	33.870	1.08%	1.34%			
7500	7.352	33.423	7.240	33.300	1.55%	0.37%			
7980	7.979	32.797	7.816	32.724	2.09%	0.22%			
8000	8.009	32.919	7.840	32.700	2.16%	0.67%			
5935	5.442	36.377	5.411	35.143	0.57%	3.51%			
5970	5.466	36.357	5.448	35.120	0.33%	3.52%			
5985	5.485	36.282	5.464	35.110	0.38%	3.34%			
6000	5.518	36.202	5.480	35.100	0.69%	3.14%			
6025	5.586	36.146	5.510	35.070	1.38%	3.07%			
6065	5.620	36.163	5.557	35.022	1.13%	3.26%			
6075	5.623	36.140	5.569	35.010	0.97%	3.23%			
6085	5.629	36.099	5.580	34.998	0.88%	3.15%			
6185	5.761	35.925	5.698	34.878	1.11%	3.00%			
6275	5.887	35.773	5.805	34.770	1.41%	2.88%			
6285	5.897	35.752	5.816	34.758	1.39%	2.86%			
6305	5.909	35.711	5.840	34.734	1.18%	2.81%			
6345	5.974	35.604	5.887	34.686	1.48%	2.65%			
6475	6.143	35.375	6.041	34.530	1.69%	2.45%			
6485	6.154	35.379	6.052	34.518	1.69%	2.49%			
6500	6.166	35.376	6.070	34.500	1.58%	2.54%			
6505	6.170	35.365	6.076	34.494	1.55%	2.53%			
6545	6.208	35.203	6.122	34.446	1.40%	2.20%			
6665	6.339	35.009	6.265	34.302	1.48%	2.06%			
6675	6.371	34.989	6.273	34.290	1.56%	1.98%			
6685	6.386	34.960	6.285	34.278	1.61%	1.99%			
6715	6.431	34.988	6.319	34.242	1.77%	2.18%			
6785	6.486	34.754	6.400	34.158	1.34%	1.74%			
6825	6.563	34.775	6.447	34.110	1.80%	1.95%			
6985	6.715	34.548	6.633	33.918	1.24%	1.86%			
6995	6.715	34.482	6.644	33.906	1.07%	1.70%			
7000	6.718	34.447	6.650	33.900	1.02%	1.61%			
7005	6.722	34.419	6.656	33.894	0.99%	1.55%			
7025	6.752	34.325	6.680	33.870	1.08%	1.34%			
7500	7.352	33.423	7.240	33.300	1.55%	0.37%			
7980	7.979	32.797	7.816	32.724	2.09%	0.22%			
8000	8.009	32.919	7.840	32.700	2.16%	0.67%			
5935	5.442	36.377	5.411	35.143	0.57%	3.51%			
5970	5.466	36.357	5.448	35.120	0.33%	3.52%			
5985	5.485	36.282	5.464	35.110	0.38%	3.34%			
6000	5.518	36.202	5.480	35.100	0.69%	3.14%			
6025	5.586	36.146	5.510	35.070	1.38%	3.07%			
6065	5.620	36.163	5.557	35.022	1.13%	3.26%			
6075	5.623	36.140	5.569	35.010	0.97%	3.23%			
6085	5.629	36.099	5.580	34.998	0.88%	3.15%			
6185	5.761	35.925	5.698	34.878	1.11%	3.00%			
6275	5.887	35.773	5.805	34.770	1.41%	2.88%			
6285	5.897	35.752	5.816	34.758	1.39%	2.86%			
630									

11.2 SAR 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 11-7
System Verification Results – Head

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 APD (%)
AM14	13	HEAD	10/03/2024	21.5	23.0	1.00	1004	7808	134	0.54	0.58	0.54	-6.23%	0.33	0.36	0.33	-6.18%	N/A	N/A	N/A	N/A
AM4	750	HEAD	09/02/2024	21.1	20.9	0.20	1057	7557	1582	1.76	8.51	8.80	3.41%	1.17	5.58	5.80	4.84%	N/A	N/A	N/A	N/A
AM4	750	HEAD	09/04/2024	23.8	23.6	0.20	1057	7557	1582	1.81	8.51	8.95	5.20%	1.19	5.58	5.95	6.63%	N/A	N/A	N/A	N/A
J	750	HEAD	09/05/2024	25.0	23.0	0.20	1181	7406	1677	1.72	8.44	9.00	6.51%	1.13	5.51	5.65	2.54%	N/A	N/A	N/A	N/A
AM4	750	HEAD	09/06/2024	23.5	21.2	0.20	1057	7557	1582	1.79	8.52	8.95	5.17%	1.18	5.58	5.90	5.73%	N/A	N/A	N/A	N/A
J	750	HEAD	09/07/2024	23.6	23.6	0.20	1161	7406	1677	1.46	8.44	9.00	6.21%	1.05	5.52	5.35	-3.12%	N/A	N/A	N/A	N/A
AM4	750	HEAD	09/12/2024	22.0	21.0	0.20	1057	7557	1582	1.80	8.52	9.00	5.76%	1.19	5.58	5.95	6.63%	N/A	N/A	N/A	N/A
AM4	750	HEAD	09/20/2024	22.3	21.0	0.20	1097	7357	1582	1.66	8.27	8.30	0.36%	1.11	5.38	5.55	3.16%	N/A	N/A	N/A	N/A
J	750	HEAD	09/04/2024	23.5	23.5	0.20	1054	7406	1677	1.84	8.52	9.20	8.78%	1.20	5.60	5.35	-4.46%	N/A	N/A	N/A	N/A
L	750	HEAD	10/24/2024	20.1	19.0	0.20	1054	7406	1677	1.81	8.52	9.05	6.22%	1.21	5.60	6.05	8.05%	N/A	N/A	N/A	N/A
J	835	HEAD	09/05/2024	25.0	23.0	0.20	46113	7406	1677	2.03	9.94	10.15	2.11%	1.32	6.49	6.60	1.69%	N/A	N/A	N/A	N/A
AM4	835	HEAD	09/06/2024	23.5	21.2	0.20	46040	7357	1582	2.02	9.79	10.10	3.17%	1.33	6.38	6.65	4.23%	N/A	N/A	N/A	N/A
J	835	HEAD	09/06/2024	23.9	23.0	0.20	46113	7406	1677	1.97	9.84	9.95	1.10%	1.28	6.40	6.50	1.56%	N/A	N/A	N/A	N/A
AM4	835	HEAD	09/09/2024	21.6	21.0	0.20	46040	7357	1582	2.03	9.79	10.15	3.68%	1.33	6.38	6.65	4.38%	N/A	N/A	N/A	N/A
K3	835	HEAD	09/10/2024	23.0	21.5	0.20	46119	7491	1532	2.06	9.96	10.30	3.41%	1.35	6.48	6.75	4.17%	N/A	N/A	N/A	N/A
K3	835	HEAD	09/08/2024	23.4	23.0	0.20	46119	7491	1532	2.08	9.96	10.40	4.42%	1.37	6.48	6.85	5.71%	N/A	N/A	N/A	N/A
K4	835	HEAD	09/15/2024	22.6	21.5	0.20	46119	7565	1466	2.04	9.96	10.20	2.41%	1.33	6.48	6.65	2.62%	N/A	N/A	N/A	N/A
K3	835	HEAD	09/19/2024	22.1	20.0	0.20	46119	7491	1532	2.10	9.96	10.50	5.42%	1.39	6.48	6.95	7.25%	N/A	N/A	N/A	N/A
G	1640	HEAD	10/14/2024	23.1	22.0	0.20	321	7570	1530	3.49	34.90	34.90	0.00%	1.91	38.50	38.10	-1.04%	N/A	N/A	N/A	N/A
C	1640	HEAD	10/23/2024	23.1	22.5	22.00	321	7570	1530	3.54	34.90	35.40	1.43%	1.95	38.50	39.50	2.60%	N/A	N/A	N/A	N/A
G	1750	HEAD	09/03/2024	22.4	22.0	0.10	1150	7659	1407	3.30	36.90	37.00	0.27%	1.98	39.40	39.80	1.00%	N/A	N/A	N/A	N/A
O	1750	HEAD	09/03/2024	21.7	20.4	0.10	1148	3814	728	3.79	37.20	37.90	1.88%	2.03	39.40	40.30	2.28%	N/A	N/A	N/A	N/A
O	1750	HEAD	09/05/2024	21.7	21.0	0.10	1150	7659	1407	3.40	37.20	37.90	1.88%	2.03	39.40	40.30	2.28%	N/A	N/A	N/A	N/A
E	1750	HEAD	09/18/2024	24.3	23.7	0.10	1148	7409	1334	3.87	37.20	38.70	4.03%	2.05	39.40	40.50	2.79%	N/A	N/A	N/A	N/A
K4	1750	HEAD	09/19/2024	23.0	21.0	0.10	1051	7565	1466	3.49	37.00	34.90	-5.68%	1.86	39.50	38.60	-2.28%	N/A	N/A	N/A	N/A
P	1750	HEAD	10/27/2024	21.8	21.8	0.10	1150	7659	1407	3.40	37.20	37.90	1.88%	2.03	39.40	40.30	2.28%	N/A	N/A	N/A	N/A
E	1900	HEAD	09/03/2024	23.6	22.0	0.10	56148	7409	1334	4.30	40.10	43.00	7.23%	2.23	21.00	22.30	6.19%	N/A	N/A	N/A	N/A
C	1900	HEAD	09/03/2024	22.4	22.0	0.10	56148	7659	1407	4.11	40.10	41.10	2.49%	2.13	21.00	21.30	1.43%	N/A	N/A	N/A	N/A
S	1900	HEAD	10/14/2024	21.6	21.6	0.10	56148	7659	1407	4.05	40.10	40.10	0.00%	2.14	21.00	21.00	0.00%	N/A	N/A	N/A	N/A
O	1900	HEAD	09/04/2024	22.6	23.0	0.10	56148	814	728	4.80	40.10	43.00	7.23%	2.23	21.00	22.30	6.19%	N/A	N/A	N/A	N/A
P	1900	HEAD	09/04/2024	21.0	20.0	0.10	56148	7718	665	4.23	40.10	42.10	4.99%	2.22	21.00	22.20	5.71%	N/A	N/A	N/A	N/A
K4	1900	HEAD	09/11/2024	25.2	19.0	0.10	56141	7565	1466	3.87	40.10	38.70	-3.97%	2.00	21.00	20.00	-4.76%	N/A	N/A	N/A	N/A
AM8	2300	HEAD	09/02/2024	22.1	23.0	0.10	1064	7427	467	5.06	49.30	50.00	1.40%	2.40	23.80	24.00	0.84%	N/A	N/A	N/A	N/A
AM8	2300	HEAD	09/04/2024	23.3	23.7	0.10	1064	7427	467	4.86	49.30	48.60	-1.42%	2.29	23.80	22.90	-3.78%	N/A	N/A	N/A	N/A
AM8	2300	HEAD	09/08/2024	20.5	23.0	0.10	1038	7427	467	4.96	49.10	49.60	1.02%	2.32	23.70	23.20	-2.11%	N/A	N/A	N/A	N/A
AM13	2300	HEAD	09/02/2024	21.1	21.7	0.10	1038	7427	467	4.82	49.10	49.30	0.41%	2.32	23.70	23.50	-0.85%	N/A	N/A	N/A	N/A
AM13	2300	HEAD	10/07/2024	22.7	22.5	0.10	1064	7682	1683	4.78	49.30	47.80	-3.04%	2.24	23.80	22.40	-5.88%	N/A	N/A	N/A	N/A
AM8	2450	HEAD	09/02/2024	22.1	23.8	0.10	750	7427	467	5.26	52.60	52.60	0.00%	2.39	24.50	23.90	-2.45%	N/A	N/A	N/A	N/A
K2	2450	HEAD	09/04/2024	21.6	21.0	0.10	945	7637	1652	5.37	53.40	55.70	4.31%	2.59	25.30	25.90	2.38%	N/A	N/A	N/A	N/A
AM13	2450	HEAD	09/04/2024	21.6	21.0	0.10	945	7637	1652	5.30	53.40	53.00	-0.75%	2.30	24.60	23.00	-6.90%	N/A	N/A	N/A	N/A
K2	2450	HEAD	09/04/2024	20.9	25.4	0.10	945	7637	1652	5.14	53.40	53.40	0.00%	2.41	25.10	24.10	-3.98%	N/A	N/A	N/A	N/A
AM8	2450	HEAD	09/18/2024	22.0	21.8	0.10	750	7427	467	5.26	52.60	52.60	0.00%	2.37	24.50	23.70	-3.27%	N/A	N/A	N/A	N/A
K2	2450	HEAD	09/18/2024	20.8	21.0	0.10	945	7637	1652	5.14	53.40	53.40	0.00%	2.39	25.10	23.90	-4.78%	N/A	N/A	N/A	N/A
K3	2450	HEAD	10/14/2024	23.0	23.5	0.10	882	7558	1364	5.51	53.00	55.10	3.96%	2.38	24.90	25.90	4.00%	N/A	N/A	N/A	N/A
AM8	2600	HEAD	09/02/2024	22.1	23.8	0.10	1042	7427	467	5.54	55.80	55.40	-0.72%	2.45	24.90	24.20	-2.81%	N/A	N/A	N/A	N/A
K2	2600	HEAD	09/02/2024	21.4	21.1	0.10	1009	7637	1652	5.17	54.60	57.70	5.68%	2.40	25.50	26.00	1.96%	N/A	N/A	N/A	N/A
AM13	2600	HEAD	09/04/2024	21.0	23.0	0.10	1069	7682	1683	5.63	56.20	56.30	0.18%	2.45	25.50	24.50	-3.92%	N/A	N/A	N/A	N/A
AM13	2600	HEAD	09/13/2024	23.0	24.0	0.10	1042	7682	1683	5.41	55.80	54.10	-3.05%	2.37	24.90	23.70	-4.82%	N/A	N/A	N/A	N/A
AM8	2600	HEAD	09/18/2024	20.0	21.8	0.10	1042	7427	467	5.29	55.80	52.90	-5.20%	2.38	24.90	21.80	-11.24%	N/A	N/A	N/A	N/A
K2	2600	HEAD	09/18/2024	20.5	20.7	0.10	1009	7637	1652	5.30	54.60	53.00	-3.30%	2.38	25.50	23.80	-6.67%	N/A	N/A	N/A	N/A
AM16	2600	HEAD	10/02/2024	21.0	23.0	0.10	1042	7552	1676	5.59	55.80	55.90	0.18%	2.43	24.90	24.30	-2.41%	N/A	N/A	N/A	N/A
K2	2600	HEAD	10/02/2024	20.9	20.9	0.10	1009	7640	1645	5.62	56.60	56.20	-0.71%	2.53	25.50	25.30	-0.78%	N/A	N/A	N/A	N/A
K4	3500	HEAD	09/02/2024	20.4	20.1	0.20	1058	7565	1466	6.37	65.30	65.70	0.61%	2.62	26.70	26.20	-1.87%	N/A	N/A	N/A	N/A
H	3500	HEAD	09/03/2024	23.1	21.7	0.10	1058	7488	1415	6.30	64.90	63.90	-1.54%	2.47	24.70	24.70	0.00%	N/A	N/A	N/A	N/A
H	3500	HEAD	09/09/2024	22.1	20.5	0.10	1097	7488	1415	6.43	65.40	64.30	-1.68%	2.47	24.70	24.70	0.00%	N/A	N/A	N/A	N/A
L	3500	HEAD	10/09/2024	21.1	20.0	0.10	1007	7460	1678	6.38	65.40	60.90	-7.22%	2.45	24.70	24.50	-0.81%	N/A	N/A	N/A	N/A
K4	3700	HEAD	09/02/2024	20.4	20.1	0.10	1029	7565	1466	6.59	67.30	65.90	-2.08%	2.43	24.50	24.30	-0.82%	N/A	N/A	N/A	N/A
H	3700	HEAD	09/03/2024	23.5	21.7	0.10	1018	7488	1415	6.59	65.10	65.90	1.23%	2.46	23.90	24.60	2.93%	N/A	N/A	N/A	N/A
H	3700	HEAD	09/09/2024	22.1	20.6	0.10	1067	7488	1415	6.47	66.90	66.70	-0.30%	2.48	24.80	24.80	0.00%	N/A	N/A	N/A	N/A
L	3700	HEAD	10/09/2024	21.1	20.0	0.10	1018	7460	1678	6.52	65.10	65.20	0.15%	2.43	23.90	24.80	3.75%	N/A	N/A	N/A	N/A
H	3900	HEAD	09/03/2024	23.5	21.7	0.10	1056	7488	1415	6.88	68.20	68.80	0.88%	2.44	23.80	24.40	2.52%	N/A	N/A	N/A	N/A
H	3900	HEAD	09/09/2024	22.1</																	

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.

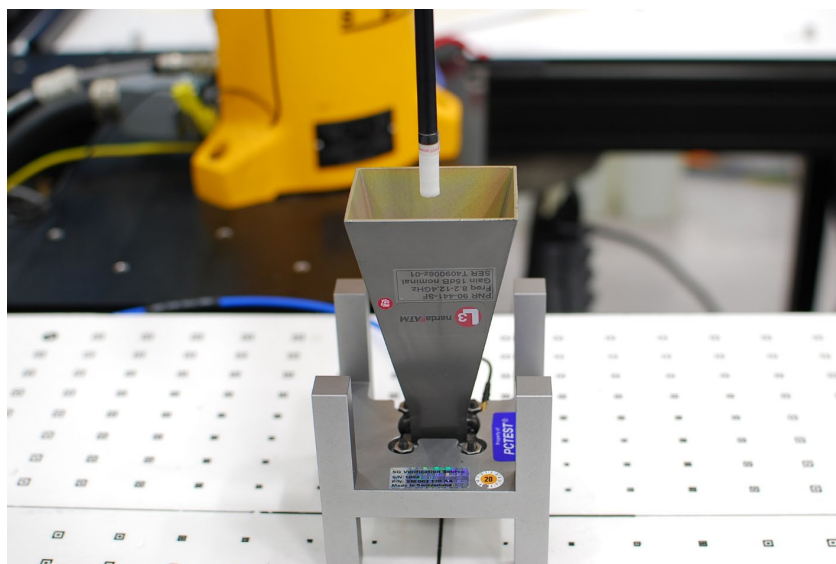


Figure 11-3
System Verification Setup Photo

Table 11-8
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	
Q	10	09/15/2024	1002	9622	93.3	59.90	54.60	0.40	60.30	54.90	0.41
R	10	10/14/2024	1002	9421	93.3	47.20	54.60	-0.63	47.40	54.90	-0.64

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	GSM 850	GSM	A	1267M	1-8.3	0.01	836.60	190	33.5	32.90	Right Cheek	0	0.107	1.148	0.123	0.478	0.299		33.4	33.4	30.2
Head	GSM 850	GSM	A	1267M	1-8.3	0.01	836.60	190	33.5	32.90	Right Tilt	0	0.052	1.148	0.060	0.232	0.145		36.5		
Head	GSM 850	GSM	A	1267M	1-8.3	-0.05	836.60	190	33.5	32.90	Left Cheek	0	0.099	1.148	0.114	0.442	0.276		33.7		
Head	GSM 850	GSM	A	1267M	1-8.3	0.00	836.60	190	33.5	32.90	Left Tilt	0	0.060	1.148	0.069	0.268	0.168		35.9		
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 12-2

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	GSM 850	GSM	E	1261M	1-8.3	0.00	848.80	251	31.0	29.90	Right Cheek	0	0.360	1.288	0.464	0.464	0.290		25.1		
Head	GSM 850	GSM	E	1261M	1-8.3	0.09	848.80	251	31.0	29.90	Right Tilt	0	0.332	1.288	0.428	0.428	0.268		25.4	24.3	20.8
Head	GSM 850	GSM	E	1261M	1-8.3	0.00	848.80	251	31.0	29.90	Left Cheek	0	0.431	1.288	0.555	0.555	0.347	A1	24.3		
Head	GSM 850	GSM	E	1261M	1-8.3	0.00	848.80	251	31.0	29.90	Left Tilt	0	0.406	1.288	0.523	0.523	0.327		24.6		
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 12-3

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	A	1267M	1-2.76	-0.04	848.80	251	30.5	29.38	Back	10	0.241	1.294	0.312	0.802	0.501		31.1		
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	1267M	1-2.76	-0.06	848.80	251	30.5	29.38	Front	10	0.141	1.294	0.182	0.469	0.293		33.4		
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	1267M	1-2.76	0.03	848.80	251	30.5	29.38	Bottom	10	0.058	1.294	0.075	0.193	0.121		37.3		31.1
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	1267M	1-2.76	0.03	848.80	251	30.5	29.38	Right	10	0.136	1.294	0.176	0.452	0.283		33.6		
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	1267M	1-2.76	-0.04	848.80	251	30.5	29.38	Left	10	0.080	1.294	0.104	0.266	0.166		35.9		30.2
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak											Body										
Uncontrolled Exposure/General Population											1.6 W/kg (mW/g) averaged over 1 gram										

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	E	1261M	1-2.76	-0.06	848.80	251	30.5	28.92	Back	10	0.374	1.439	0.538	0.914	0.571	A2	28.7	28.4	28.4
Hotspot	GPRS 850	GPRS 3 Tx Slots	E	1261M	1-2.76	-0.19	848.80	251	30.5	28.92	Front	10	0.361	1.439	0.519	0.882	0.551		28.9		
Hotspot	GPRS 850	GPRS 3 Tx Slots	E	1261M	1-2.76	-0.01	848.80	251	30.5	28.92	Top	10	0.402	1.439	0.578	0.982	0.614	A3	28.4		
Hotspot	GPRS 850	GPRS 3 Tx Slots	E	1261M	1-2.76	-0.08	848.80	251	30.5	28.92	Right	10	0.241	1.439	0.347	0.589	0.368		30.6		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body								
Spatial Peak													1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population													averaged over 1 gram								

12.2 GSM 1900 Standalone SAR

Table 12-5

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	GSM 1900	GSM	A	1298M	1-8.3	-0.05	1880.00	661	31.0	29.90	Right Cheek	0	0.052	1.288	0.067	0.279	0.174		33.5	31.5	28.0
Head	GSM 1900	GSM	A	1298M	1-8.3	0.04	1880.00	661	31.0	29.90	Right Tilt	0	0.030	1.288	0.039	0.161	0.101		35.9		
Head	GSM 1900	GSM	A	1298M	1-8.3	0.02	1880.00	661	31.0	29.90	Left Cheek	0	0.083	1.288	0.107	0.446	0.279	A4	31.5		
Head	GSM 1900	GSM	A	1298M	1-8.3	-0.09	1880.00	661	31.0	29.90	Left Tilt	0	0.045	1.288	0.058	0.242	0.151		34.1		
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 12-6

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	1298M	1-2.076	0.08	1880.00	661	22.0	20.79	Back	10	0.230	1.321	0.304	0.304	0.190	A5	23.9	23.9	17.8
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	1298M	1-2.076	-0.04	1880.00	661	22.0	20.79	Front	10	0.215	1.321	0.284	0.284	0.178		24.2	24.2	17.8
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	1298M	1-2.076	0.00	1880.00	661	22.0	20.79	Bottom	10	0.430	1.321	0.568	0.568	0.355	A6	21.2	21.2	17.8
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	1298M	1-2.076	-0.05	1880.00	661	22.0	20.79	Right	10	0.034	1.321	0.045	0.045	0.028		32.2	32.2	17.8
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	1298M	1-2.076	0.06	1880.00	661	22.0	20.79	Left	10	0.042	1.321	0.055	0.055	0.034		31.3	31.3	17.8
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

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12.3 UMTS 850 Standalone SAR

Table 12-7

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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Head	UMTS 850	RMC	A	1267M	1:1	0.01	846.60	4233	25.0	24.94	Right Cheek	0	0	0.172	1.014	0.174	0.527	0.329		32.5	32.5	29.8	
Head	UMTS 850	RMC	A	1267M	1:1	0.02	846.60	4233	25.0	24.94	Right Tilt	0	0	0.092	1.014	0.093	0.251	0.157		35.8			
Head	UMTS 850	RMC	A	1267M	1:1	-0.02	846.60	4233	25.0	24.94	Left Cheek	0	1	0.138	1.014	0.140	0.423	0.264		33.5			
Head	UMTS 850	RMC	A	1267M	1:1	0.04	846.60	4233	25.0	24.94	Left Tilt	0	0	0.052	1.014	0.053	0.159	0.099		37.7			
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 12-8

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit (dBm)	Overall Plimit (dBm)	EPS Plimit (dBm)
Head	UMTS 850	RMC	E	1298M	1:1	0.02	846.60	4233	22.0	21.16	Right Cheek	0	0.539	1.213	0.654	0.654	0.409		23.8		
Head	UMTS 850	RMC	E	1298M	1:1	0.01	846.60	4233	22.0	21.16	Right Tilt	0	0.481	1.213	0.583	0.583	0.364		24.3	22.9	21.0
Head	UMTS 850	RMC	E	1298M	1:1	0.01	846.60	4233	22.0	21.16	Left Cheek	0	0.609	1.213	0.799	0.799	0.499	A7	22.9		
Head	UMTS 850	RMC	E	1298M	1:1	-0.01	846.60	4233	22.0	21.16	Left Tilt	0	0.630	1.213	0.764	0.764	0.478		23.1		
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 12-9

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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Body-worn/Hotspot	UMTS 850	RMC	A	1267M	1:1	0.01	846.60	4233	25.0	24.94	Back	10	0	0.325	1.014	0.330	0.657	0.411	A8	29.8	29.8	28.0	
	Hotspot	UMTS 850	RMC	A	1267M	1:1	-0.03	846.60	4233	25.0	24.94	Front	10	0	0.176	1.014	0.178	0.356	0.223				32.4
	Hotspot	UMTS 850	RMC	A	1267M	1:1	0.00	846.60	4233	25.0	24.94	Bottom	10	0	0.090	1.014	0.081	0.162	0.101				35.9
	Hotspot	UMTS 850	RMC	A	1267M	1:1	-0.02	846.60	4233	25.0	24.94	Right	10	0	0.176	1.014	0.178	0.356	0.223				32.4
	Hotspot	UMTS 850	RMC	A	1267M	1:1	0.06	846.60	4233	25.0	24.94	Left	10	0	0.312	1.014	0.314	0.227	0.142				34.4
	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 12-10

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	UMTS 850	RMC	E	1267M	1:1	-0.12	846.60	4233	25.0	24.23	Back	10	0.312	1.194	0.373	0.564	0.353		29.2	28.7	26.8
Hotspot	UMTS 850	RMC	E	1267M	1:1	-0.04	846.60	4233	25.0	24.23	Front	10	0.339	1.194	0.398	0.602	0.376		29.0		
Hotspot	UMTS 850	RMC	E	1267M	1:1	0.02	846.60	4233	25.0	24.23	Top	10	0.352	1.194	0.420	0.636	0.398	A9	28.7		
Hotspot	UMTS 850	RMC	E	1267M	1:1	-0.01	846.60	4233	25.0	24.23	Right	10	0.206	1.194	0.246	0.372	0.233		31.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

12.4 UMTS 1750 Standalone SAR

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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	UMTS 1750	RMC	A	1298M	1:1	0.13	1712.40	1312	23.5	23.45	Right Cheek	0	33	0.089	1.012	0.089	0.229	0.143		34.0		
Head	UMTS 1750	RMC	A	1298M	1:1	-0.09	1712.40	1312	23.5	23.45	Right Tilt	0	33	0.079	1.012	0.074	0.190	0.119		34.8		
Head	UMTS 1750	RMC	A	1298M	1:1	0.02	1712.40	1312	23.5	23.45	Left Cheek	0	11	0.172	1.012	0.174	0.447	0.279	A10	31.0	31.0	27.6
Head	UMTS 1750	RMC	A	1298M	1:1	-0.01	1712.40	1312	23.5	23.45	Left Tilt	0	11	0.074	1.012	0.075	0.152	0.120		34.7		
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 12-12

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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	UMTS 1750	RMC	A	1298M	1:1	0.01	1712.40	1312	19.0	18.85	Back	10	11	0.519	1.035	0.537	0.537	0.236	A11	21.6	18.7	18.0
Hotspot	UMTS 1750	RMC	A	1298M	1:1	0.01	1712.40	1312	19.0	18.85	Front	10	11	0.379	1.035	0.392	0.392	0.245		23.0		
Hotspot	UMTS 1750	RMC	A	1298M	1:1	0.02	1712.40	1312	19.0	18.85	Bottom	10	11	0.809	1.035	0.837	0.837	0.523		19.7		
Hotspot	UMTS 1750	RMC	A	1298M	1:1	0.00	1732.40	1412	19.0	18.23	Bottom	10	11	0.843	1.194	1.007	1.007	0.629		18.9		
Hotspot	UMTS 1750	RMC	A	1298M	1:1	0.01	1752.60	1513	19.0	18.28	Bottom	10	11	0.896	1.180	1.057	1.057	0.661	A12	18.7		
Hotspot	UMTS 1750	RMC	A	1298M	1:1	-0.01	1752.60	1513	19.0	18.28	Bottom	10	11	0.963	1.180	1.017	1.017	0.636		18.9		
Hotspot	UMTS 1750	RMC	A	1298M	1:1	0.01	1712.40	1312	19.0	18.85	Right	10	33	0.088	1.035	0.091	0.091	0.057		29.4		
Hotspot	UMTS 1750	RMC	A	1298M	1:1	-0.01	1712.40	1312	19.0	18.85	Left	10	33	0.071	1.035	0.073	0.073	0.046		30.3		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

Note: Blue entry represents variability measurement

FCC ID: A3LSMS936U	RF Exposure Part 1 Test Report															Approved by: Technical Manager					
Document S/N: 1M2408260064-23.A3L (Rev 1)	DUT Type: Portable Handset															Page 114 of 157					

REV 22.0
03/30/2022

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12.5 UMTS 1900 Standalone SAR

Table 12-13

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dblt [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (lg SAR)	Pilot #	Pilot [dBm]	Overall Piltm [dBm]	EPS Piltm [dBm]
Head	UMTS 1900	RMG	A	1298M	1:1	-0.04	1880.00	9400	24.5	23.98	Right Cheek	0	1	0.110	1.127	0.124	0.265	0.166		33.5		
Head	UMTS 1900	RMG	A	1298M	1:1	-0.01	1880.00	9400	24.5	23.98	Right Thigh	0	1	0.051	1.127	0.057	0.123	0.077		36.9	31.2	27.8
Head	UMTS 1900	RMG	A	1298M	1:1	0.07	1880.00	9400	24.5	24.98	Left Cheek	0	1	0.188	1.127	0.212	0.424	0.293	A13	31.2		
Head	UMTS 1900	RMG	A	1298M	1:1	-0.03	1880.00	9400	24.5	23.98	Left Thigh	0	1	0.065	1.127	0.073	0.157	0.098		35.8		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure/General Population																						
												Head										
												1.5 W/kg (mW/g)										
												averaged over 1 gram										

Table 12-14

[illegible]

12.6 LTE Band 71 Standalone SAR

Table 12-15

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DEn [dB]	Frequency [MHz]	Channel #	MFR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RF Size	RF Offset	Test Position	Spacing [mm]	Tune state	Measured Ig SAR [W/kg]	Power Scaling Factor	Reported Ig SAR [W/kg]	Adjusted Ig SAR [W/kg]	Exposure Ratio [Ig SAR]	Pict #	FIMT [dBm]	Overall PIMT [dBm]	RFs PIMT [dBm]
Head	LTE Band 71	20	QPSK	A	137891	1:1	0.00	480.50	133297	0.0	20.0	24.46	1	50	Right Chin	0	0	0.148	1.132	0.152	0.0381	0.007			33.1	
	LTE Band 71	20	QPSK	A	136901	1:1	0.06	480.50	133297	0.0	24.0	24.46	1	50	Right Chin	0	0	0.154	1.164	0.208	0.048	0.01			34.0	
	LTE Band 71	20	QPSK	A	137891	1:1	0.01	480.50	133297	0.0	25.0	24.46	1	50	Right Chin	0	13	0.006	1.132	0.070	0.0281	0.009			33.3	
	LTE Band 71	20	QPSK	A	136901	1:1	0.06	480.50	133297	0.0	25.0	24.46	1	50	Right Chin	0	13	0.006	1.164	0.070	0.0481	0.01			34.0	
	LTE Band 71	20	QPSK	A	137891	1:1	0.01	480.50	133297	0.0	25.0	24.46	1	50	Left Chin	0	13	0.007	1.132	0.171	0.0381	0.003			33.1	
	LTE Band 71	20	QPSK	A	136901	1:1	0.06	480.50	133297	0.0	25.0	24.46	1	50	Left Chin	0	13	0.007	1.164	0.171	0.0481	0.003			34.0	
	LTE Band 71	20	QPSK	A	137891	1:1	0.09	480.50	133297	0.0	24.0	23.34	50	50	Left Chin	0	11	0.082	1.132	0.095	0.380	0.043			34.2	
	LTE Band 71	20	QPSK	A	136901	1:1	0.09	480.50	133297	0.0	24.0	23.34	50	50	Left Chin	0	11	0.082	1.164	0.095	0.380	0.043			34.2	
	LTE Band 71	20	QPSK	A	137891	1:1	0.01	480.50	133297	0.0	24.0	23.34	50	50	Left Chin	0	11	0.007	1.132	0.070	0.0281	0.01			33.3	
	LTE Band 71	20	QPSK	A	136901	1:1	0.06	480.50	133297	0.0	24.0	23.34	50	50	Left Chin	0	11	0.006	1.164	0.058	0.0381	0.01			33.3	
ANALYZER CH 1 LINE - LEFT EYE																		Head								
Spatial Peak																		1.6 W/kg (mW/g)								
Unaveraged Exposure (Measured Foundation)																		0.0007 mW/g (0.0007 mW/g)								

Table 12-16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power [mW] (dBm)	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RIS Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pilot #	Pilot [dBm]	Overall Pilot [dBm]	EPS Pilot [dBm]
Head	LTE Band 75	20	QPSK	E	1288M	1:1	0.03	680.50	13297	0.0	19.0	17.46	1	50	Right Cheek	0	0.203	1.426	0.289	0.289	0.181		24.3		
Head	LTE Band 75	20	QPSK	E	1288M	1:1	0.03	680.50	13297	0.0	19.0	17.44	50	50	Right Cheek	0	0.137	1.432	0.288	0.288	0.183		24.6		
Head	LTE Band 75	20	QPSK	E	1288M	1:1	0.05	680.50	13297	0.0	19.0	17.46	1	50	Right Thigh	0	0.175	1.426	0.250	0.250	0.156		25.0		
Head	LTE Band 75	20	QPSK	E	1288M	1:1	0.04	680.50	13297	0.0	19.0	17.44	50	50	Right Thigh	0	0.204	1.432	0.292	0.292	0.183	28.3			
Head	LTE Band 75	20	QPSK	E	1302M	1:1	0.03	680.50	13297	0.0	19.0	17.46	1	50	Left Cheek	0	0.252	1.426	0.416	0.360	0.216	A16	22.8		
Head	LTE Band 75	20	QPSK	E	1302M	1:1	0.19	680.50	13297	0.0	19.0	17.44	50	50	Left Cheek	0	0.269	1.432	0.385	0.385	0.241	23.1			
Head	LTE Band 75	20	QPSK	E	1302M	1:1	0.13	680.50	13297	0.0	19.0	17.46	1	50	Left Thigh	0	0.256	1.426	0.365	0.365	0.228	23.3			
Head	LTE Band 75	20	QPSK	E	1302M	1:1	0.21	680.50	13297	0.0	19.0	17.44	50	50	Left Thigh	0	0.288	1.432	0.341	0.341	0.213	23.6			
ANSI/IEEE C95.1-2002 - SAFETY LIMIT																		Head							
Special Peak																		1.6 W/kg (mW/g)							
Uncontrolled Exposure (General Population)																		measured over 30 min							

Table 12-17

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]	Tune state	Measured Ig SAR [W/kg]	Power Scaling Factor	Reported Ig SAR [W/kg]	Adjusted Ig SAR [W/kg]	Exposure Ratio (Ig SAR)	Pilot #	Pilot [dBm]	Overall Pilot [dBm]	RFS Pilot [dBm]
Body-worn/Hotspot	LTE Band 71	20	QPSK	A	1295M	1:1	-0.14	690.50	132297	0.0	25.0	24.46	1	50	Back	30	0	6.974	1.132	0.423	0.993	0.621	A17	28.7		
Body-worn/Hotspot	LTE Band 71	20	QPSK	A	1295M	1:1	0.03	680.50	132297	1.0	24.0	23.34	50	50	Back	30	0	2.359	1.164	0.313	0.924	0.578		29.0		
Hotspot	LTE Band 71	20	QPSK	A	1295M	1:1	-0.15	690.50	132297	0.0	25.0	24.46	1	50	Front	30	0	0.359	1.132	0.217	0.510	0.318		31.6		
Hotspot	LTE Band 71	20	QPSK	A	1302M	1:1	-0.01	680.50	132297	1.0	24.0	23.34	50	50	Front	30	0	0.261	1.164	0.176	0.547	0.324		31.5		
Hotspot	LTE Band 71	20	QPSK	A	1302M	1:1	0.09	680.50	132297	0.0	25.0	24.46	1	50	Bottom	30	0	0.190	1.132	0.147	0.345	0.216		33.3		
Hotspot	LTE Band 71	20	QPSK	A	1302M	1:1	0.09	680.50	132297	0.0	24.0	23.34	50	50	Bottom	30	0	0.242	1.164	0.226	0.345	0.216		33.2	28.7	28.7
Hotspot	LTE Band 71	20	QPSK	A	1302M	1:1	-0.13	680.50	132297	0.0	25.0	24.46	1	50	Right	30	0	0.130	1.132	0.215	0.504	0.315		31.6		
Hotspot	LTE Band 71	20	QPSK	A	1295M	1:1	-0.16	680.50	132297	1.0	24.0	23.34	50	50	Right	30	0	0.114	1.164	0.156	0.400	0.288		32.0		
Hotspot	LTE Band 71	20	QPSK	A	1302M	1:1	-0.13	680.50	132297	0.0	25.0	24.46	1	50	Left	30	0	0.173	1.132	0.194	0.454	0.284		32.1		
Hotspot	LTE Band 71	20	QPSK	A	1302M	1:1	1.06	680.50	132297	1.0	24.0	23.34	50	50	Left	30	0	0.144	1.164	0.313	0.392	0.245		32.7		
AND/IEC C96.1 EXP-2 - SAFETY LIMIT																			Body							
Spatial Peak																			1.4 W/kg (mm/kg)							
Uncontrolled Exposure - General Population																			0.08 W/kg (mm/kg)							

Table 12-18

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [Edm]	Conducted Power [Edm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured SAR [W/kg]	Power Scaling Factor	SAR Reported [W/kg]	Adjusted SAR [W/kg]	Exposure Ratio (Eq SAR)	Pict #	Film# [dmm]	Overall Pict [dmm]	LFS Film# [dmm]
Body worn/Hotspot	LTE Band 73	20	GPSK	E	12968A	1-1	-0.01	680.50	1313297	0.0	25.0	23.92	1	50	Back	10	0.320	1.282	0.410	0.898	0.561	28.8			
Body worn/Hotspot	LTE Band 73	20	GPSK	E	12968A	1-1	-0.01	680.50	1313297	1.0	24.0	23.78	50	50	Right	10	0.371	1.324	0.381	0.908	0.618	28.4			
Hotspot	LTE Band 73	20	GPSK	E	13027A	1-1	-0.03	680.50	1313297	0.0	25.0	23.82	1	50	Front	10	0.318	1.282	0.408	0.892	0.558	28.8			
Hotspot	LTE Band 73	20	GPSK	E	13027A	1-1	-0.03	680.50	1313297	1.0	24.0	22.78	50	50	Front	10	0.237	1.324	0.314	0.805	0.541	29.0			
Hotspot	LTE Band 73	20	GPSK	E	12968A	1-1	-0.00	680.50	1313297	0.0	25.0	23.82	1	50	Top	10	0.306	1.282	0.386	0.844	0.538	29.1	28.4	28.4	
Hotspot	LTE Band 73	20	GPSK	E	12968A	1-1	-0.11	680.50	1313297	1.0	24.0	23.78	50	50	Top	10	0.260	1.324	0.278	0.766	0.479	29.5			
Hotspot	LTE Band 73	20	GPSK	E	12968A	1-1	-0.02	680.50	1313297	0.0	25.0	23.92	1	50	Right	10	0.282	1.282	0.362	0.791	0.494	29.4			
Hotspot	LTE Band 73	20	GPSK	E	12968A	1-1	-0.01	680.50	1313297	1.0	24.0	23.78	50	50	Right	10	0.313	1.324	0.281	0.773	0.483	29.3			
UNCONTROLLED CWL 1 1992 - SAFETY LIMIT																									
Spatial Peak																	Body								
Averaged Power (General Population)																	1.6 W/kg (mW/g)								
																	averaged over 1 cm ²								

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12.7 LTE Band 12 Standalone SAR

Table 12-19

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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EFS Limit [dBm]
Head	LTE Band 12	10	QPSK	A	1288M	1:1	0.05	707.50	23095	0.0	25.3	24.83	1	0	Right Cheek	0	1	0.239	1.114	0.155	0.490	0.626		33.3		30.3
Head	LTE Band 12	10	QPSK	A	1286M	1:1	0.05	707.50	23095	1.0	24.3	23.85	25	25	Right Cheek	0	1	0.257	1.102	0.109	0.424	0.628		32.5		
Head	LTE Band 12	10	QPSK	A	1286M	1:1	0.04	707.50	23095	0.0	25.3	24.83	1	0	Right TIR	0	22	0.254	1.114	0.092	0.130	0.110		37.5		
Head	LTE Band 12	10	QPSK	A	1286M	1:1	0.03	707.50	23095	1.0	24.3	23.85	25	25	Right TIR	0	22	0.247	1.102	0.052	0.106	0.129		37.1		
Head	LTE Band 12	10	QPSK	A	1302M	1:1	0.05	707.50	23095	0.0	25.3	24.83	1	0	Left Cheek	0	1	0.121	1.114	0.114	0.325	0.264		34.9		
Head	LTE Band 12	10	QPSK	A	1286M	1:1	0.07	707.50	23095	1.0	24.3	23.85	25	25	Left Cheek	0	1	0.080	1.102	0.088	0.331	0.219		34.8		
Head	LTE Band 12	10	QPSK	A	1302M	1:1	0.02	707.50	23095	0.0	25.3	24.83	1	0	Left TIR	0	1	0.077	1.114	0.086	0.271	0.189		35.0		
Head	LTE Band 12	10	QPSK	A	1302M	1:1	0.09	707.50	23095	1.0	24.3	23.85	25	25	Left TIR	0	1	0.061	1.102	0.067	0.267	0.167		36.0		
ANSI/IEEE C63.1982 - SAFETY LIMIT																		Head								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EFS Limit [dBm]
Head	LTE Band 12	10	QPSK	E	1288M	1:1	0.07	707.50	23095	0.0	22.0	20.60	1	0	Right Cheek	0	0	0.482	1.180	0.665	0.665	0.415		23.7		21.0
Head	LTE Band 12	10	QPSK	E	1288M	1:1	0.02	707.50	23095	0.0	22.0	20.62	25	0	Right Cheek	0	0	0.455	1.174	0.625	0.625	0.391		24.0		
Head	LTE Band 12	10	QPSK	E	1288M	1:1	0.06	707.50	23095	0.0	22.0	20.60	1	0	Right TIR	0	0	0.176	1.180	0.519	0.519	0.324		24.8		
Head	LTE Band 12	10	QPSK	E	1286M	1:1	0.03	707.50	23095	0.0	22.0	20.62	25	0	Right TIR	0	0	0.174	1.174	0.514	0.514	0.321		24.8		
Head	LTE Band 12	10	QPSK	E	1302M	1:1	0.02	707.50	23095	0.0	22.0	20.60	1	0	Left Cheek	0	0	0.425	1.180	0.863	0.863	0.539	A18	22.6		
Head	LTE Band 12	10	QPSK	E	1302M	1:1	0.06	707.50	23095	0.0	22.0	20.62	25	0	Left Cheek	0	0	0.349	1.174	0.809	0.809	0.506		22.9		
Head	LTE Band 12	10	QPSK	E	1302M	1:1	0.06	707.50	23095	0.0	22.0	20.58	50	0	Left Cheek	0	0	0.467	1.187	0.796	0.796	0.491		23.0		
Head	LTE Band 12	10	QPSK	E	1302M	1:1	0.11	707.50	23095	0.0	22.0	20.60	1	0	Left TIR	0	0	0.133	1.180	0.736	0.736	0.405		23.3		
Head	LTE Band 12	10	QPSK	E	1302M	1:1	0.16	707.50	23095	0.0	22.0	20.62	1	0	Left TIR	0	0	0.144	1.174	0.747	0.747	0.467		23.2		
ANSI/IEEE C63.1982 - SAFETY LIMIT																		Head								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 12-21

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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EFS Limit [dBm]
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	1288M	1:1	0.09	707.50	23095	0.0	25.3	24.83	1	0	Back	10	1	0.237	1.114	0.375	0.388	0.618		28.5		29.5
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	1286M	1:1	0.05	707.50	23095	1.0	24.3	23.85	1	0	Back	10	1	0.257	1.102	0.244	0.374	0.628		29.6		
Hotspot	LTE Band 12	10	QPSK	A	1302M	1:1	0.03	707.50	23095	0.0	25.3	24.83	1	0	Front	10	1	0.260	1.114	0.225	0.580	0.370		31.7		
Hotspot	LTE Band 12	10	QPSK	A	1302M	1:1	0.09	707.50	23095	0.0	25.3	24.83	1	0	Front	10	1	0.254	1.102	0.172	0.529	0.366		32.8		
Hotspot	LTE Band 12	10	QPSK	A	1302M	1:1	0.02	707.50	23095	0.0	25.3	24.83	1	0	Bottom	10	1	0.156	1.114	0.174	0.457	0.286		32.8		
Hotspot	LTE Band 12	10	QPSK	A	1302M	1:1	0.16	707.50	23095	1.0	24.3	23.85	25	25	Bottom	10	1	0.118	1.102	0.130	0.430	0.289		33.1		
Hotspot	LTE Band 12	10	QPSK	A	1286M	1:1	0.05	707.50	23095	0.0	25.3	24.83	1	0	Top	10	1	0.156	1.114	0.156	0.435	0.286		32.9		
Hotspot	LTE Band 12	10	QPSK	A	1286M	1:1	0.02	707.50	23095	1.0	24.3	23.85	25	25	Right	10	1	0.107	1.102	0.110	0.390	0.244		33.5		
Hotspot	LTE Band 12	10	QPSK	A	1302M	1:1	0.01	707.50	23095	0.0	25.3	24.83	1	0	Left	10	1	0.102	1.114	0.180	0.475	0.297		32.7		
Hotspot	LTE Band 12	10	QPSK	A	1302M	1:1	0.05	707.50	23095	1.0	24.3	23.85	25	25	Left	10	1	0.102	1.114	0.143	0.474	0.296		32.7		
ANSI/IEEE C63.1982 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 12-22

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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EFS Limit [dBm]
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	1286M	1:1	0.07	707.50	23095	0.0	25.3	24.39	1	0	Back	10	0	0.421	1.231	0.519	0.945	0.591	A19	28.1		27.9
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	1286M	1:1	0.10	707.50	23095	1.0	24.3	23.25	25	25	Back	10	0	0.339	1.274	0.432	0.989	0.618		27.9		
Hotspot	LTE Band 12	10	QPSK	E	1302M	1:1	0.09	707.50	23095	0.0	25.3	24.39	1	0	Front	10	0	0.419	1.231	0.456	0.707	0.442		28.2		
Hotspot	LTE Band 12	10	QPSK	E	1302M	1:1	0.04	707.50	23095	0.0	24.3	23.25	25	25	Front	10	0	0.312	1.274	0.397	0.910	0.569		28.3		
Hotspot	LTE Band 12	10	QPSK	E	1286M	1:1	0.02	707.50	23095	0.0	25.3	24.39	1	0	Top	10	0	0.400	1.233	0.493	0.898	0.561		28.3		
Hotspot	LTE Band 12	10	QPSK	E	1286M	1:1	0.05	707.50	23095	1.0	24.3	23.25	25	25	Top	10	0	0.400	1.233	0.493	0.898	0.561		28.3		
Hotspot	LTE Band 12	10	QPSK	E	1286M	1:1	0.05	707.50	23095	0.0	25.3	24.39	1	0	Right	10	0	0.337	1.233	0.416	0.755	0.473		29.1		
Hotspot	LTE Band 12	10	QPSK	E	1286M	1:1	0.04	707.50	23095	1.0	24.3	23.25	25	25	Right	10	0	0.271	1.274	0.345	0.791	0.484		28.9		
ANSI/IEEE C63.1982 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

12.8 LTE Band 13 Standalone SAR

Table 12-23

Exposure

Table 12-25

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body worn/Hotspot	LTE Band 13	10	QPSK	A	1296M	1:1	-0.31	782.00	23230	0.0	25.0	24.09	1	49	Back	10	0	0.360	1.233	0.444	0.994	0.621		28.5		
Body worn/Hotspot	LTE Band 13	10	QPSK	A	1296M	1:1	-0.10	782.00	23230	1.0	24.0	23.17	25	12	Back	10	0	0.263	1.231	0.316	0.895	0.537		29.0		
Hotspot	LTE Band 13	10	QPSK	A	1302M	1:1	-0.15	782.00	23230	0.0	25.0	24.09	1	49	Front	10	0	0.238	1.233	0.281	0.420	0.384		32.5		
Hotspot	LTE Band 13	10	QPSK	A	1302M	1:1	-0.40	782.00	23230	1.0	24.0	23.17	25	12	Front	10	0	0.136	1.231	0.206	0.580	0.363		30.8		
Hotspot	LTE Band 13	10	QPSK	A	1302M	1:1	0.02	782.00	23230	0.0	25.0	24.49	1	49	Bottom	10	0	0.082	1.233	0.101	0.226	0.141		34.9		
Hotspot	LTE Band 13	10	QPSK	A	1302M	1:1	-0.03	782.00	23230	1.0	24.0	23.17	25	12	Bottom	10	0	0.059	1.231	0.073	0.205	0.125		35.4	28.5	28.5
Hotspot	LTE Band 13	10	QPSK	A	1296M	1:1	-0.14	782.00	23230	0.0	25.0	24.09	1	49	Right	10	1	0.177	1.233	0.218	0.489	0.306		31.6		
Hotspot	LTE Band 13	10	QPSK	A	1296M	1:1	-0.06	782.00	23230	1.0	24.0	23.17	25	12	Right	10	11	0.159	1.231	0.156	0.450	0.275		32.0		
Hotspot	LTE Band 13	10	QPSK	A	1302M	1:1	-0.08	782.00	23230	0.0	25.0	24.09	1	49	Left	10	0	0.159	1.233	0.196	0.489	0.274		32.0		
Hotspot	LTE Band 13	10	QPSK	A	1302M	1:1	-0.04	782.00	23230	1.0	24.0	23.17	25	12	Left	10	0	0.127	1.231	0.154	0.433	0.271		32.1		
ANSI/IEEE C63.1 UN2 - SAFETY LIMIT																										
Spatial Peak																										
Uncontrolled Exposure/General Population																										
Body																										
1.6 W/kg (mW/g)																										
averaged over 1 gram																										

Table 12-26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body worn/Hotspot	LTE Band 13	10	QPSK	E	1296M	1:1	-0.05	782.00	23230	0.0	25.0	23.43	1	25	Back	10	0.473	1.435	0.679	0.895	0.559	A21	26.6	26.2	26.2
Body worn/Hotspot	LTE Band 13	10	QPSK	E	1296M	1:1	-0.03	782.00	23230	1.0	24.0	22.53	25	12	Back	10	0.347	1.403	0.487	0.808	0.505		27.1		
Hotspot	LTE Band 13	10	QPSK	E	1302M	1:1	-0.07	782.00	23230	0.0	25.0	23.43	1	25	Front	10	0.481	1.435	0.690	0.910	0.589		26.6		
Hotspot	LTE Band 13	10	QPSK	E	1302M	1:1	0.02	782.00	23230	1.0	24.0	22.53	25	12	Front	10	0.170	1.403	0.519	0.861	0.538		26.8		
Hotspot	LTE Band 13	10	QPSK	E	1296M	1:1	-0.03	782.00	23230	0.0	25.0	23.43	1	25	Top	10	0.156	1.435	0.755	0.995	0.621	A22	26.2		
Hotspot	LTE Band 13	10	QPSK	E	1296M	1:1	-0.07	782.00	23230	1.0	24.0	22.53	25	12	Top	10	0.422	1.403	0.592	0.982	0.634		26.2		
Hotspot	LTE Band 13	10	QPSK	E	1296M	1:1	-0.03	782.00	23230	0.0	25.0	23.43	1	25	Right	10	0.403	1.435	0.578	0.762	0.474		27.3		
Hotspot	LTE Band 13	10	QPSK	E	1296M	1:1	-0.03	782.00	23230	1.0	24.0	22.53	25	12	Right	10	0.123	1.403	0.452	0.750	0.489		27.4		
ANSI/IEEE C63.1 UN2 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
Body																									
1.6 W/kg (mW/g)																									
averaged over 1 gram																									

12.9 LTE Band 14 Standalone SAR

Table 12-27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 14	10	QPSK	A	1278M	1:1	-0.01	793.00	23330	0.0	25.3	24.85	1	49	Right Cheek	0	0	0.164	1.109	0.182	0.525	0.328		32.7		
Head	LTE Band 14	10	QPSK	A	1296M	1:1	0.01	793.00	23330	1.0	24.3	23.85	25	12	Right Cheek	0	0	0.117	1.161	0.136	0.493	0.308		32.8		
Head	LTE Band 14	10	QPSK	A	1302M	1:1	-0.02	793.00	23330	0.0	25.3	24.85	1	49	Right Tit	0	0	0.076	1.109	0.084	0.243	0.152		35.0		
Head	LTE Band 14	10	QPSK	A	1296M	1:1	0.04	793.00	23330	1.0	24.3	23.85	25	12	Right Tit	0	0	0.061	1.161	0.071	0.257	0.161		35.7		
Head	LTE Band 14	10	QPSK	A	1302M	1:1	0.04	793.00	23330	0.0	25.3	24.85	1	49	Left Cheek	0	0	0.107	1.109	0.119	0.342	0.214		34.1		
Head	LTE Band 14	10	QPSK	A	1302M	1:1	-0.03	793.00	23330	1.0	24.3	23.85	25	12	Left Cheek	0	0	0.090	1.161	0.104	0.380	0.238		34.1		
Head	LTE Band 14	10	QPSK	A	1302M	1:1	-0.16	793.00	23330	0.0	25.3	24.85	1	49	Left Tit	0	0	0.067	1.109	0.074	0.214	0.134		36.5		
Head	LTE Band 14	10	QPSK	A	1302M	1:1	-0.03	793.00	23330	1.0	24.3	23.85	25	12	Left Tit	0	0	0.057	1.161	0.066	0.240	0.150		36.0		
ANSI/IEEE C63.1 UN2 - SAFETY LIMIT																										
Spatial Peak																										
Uncontrolled Exposure/General Population																										
Body																										
1.6 W/kg (mW/g)																										
averaged over 1 gram																										

Table 12-28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]		
Head	LTE Band 14	10	QPSK	E	1302M	1:1	0.05	793.00	23330	0.0	22.0	20.45	1	49	Right Cheek	0	0.595	1.429	0.850	0.850	0.531		22.7				
Head	LTE Band 14	10	QPSK	E	1302M	1:1	-0.04	793.00	23330	0.0	22.0	20.46	25	25	Right Cheek	0	0.405	1.426	0.857	0.817	0.536		22.6				
Head	LTE Band 14	10	QPSK	E	1302M	1:1	-0.03	793.00	23330	0.0	22.0	20.43	50	0	Right Cheek	0	0.595	1.435	0.854	0.854	0.534		22.6				
Head	LTE Band 14	10	QPSK	E	1302M	1:1	-0.01	793.00	23330	0.0	22.0	20.45	1	49	Right Tilt	0	0.553	1.429	0.790	0.790	0.494		23.0				
Head	LTE Band 14	10	QPSK	E	1302M	1:1	0.02	793.00	23330	0.0	22.0	20.46	25	25	Right Tilt	0	0.509	1.426	0.797	0.797	0.498		22.9				
Head	LTE Band 14	10	QPSK	E	1302M	1:1	-0.01	793.00	23330	0.0	22.0	20.45	1	49	Left Cheek	0	0.595	1.429	0.850	0.850	0.531		22.7				
Head	LTE Band 14	10	QPSK	E	1302M	1:1	0.06	793.00	23330	0.0	22.0	20.46	25	25	Left Cheek	0	0.787	1.426	1.122	1.122	0.701		21.5		21.0		
Head	LTE Band 14	10	QPSK	E	1302M	1:1	0.05	793.00	23330	0.0	22.0	20.43	50	0	Left Cheek	0	0.797	1.435	1.144	1.144	0.725		21.4				
Head	LTE Band 14	10	QPSK	E	1302M	1:1	-0.14	793.00	23330	0.0	22.0	20.45	1	49	Left Tilt	0	0.429	1.426	0.798	0.798	0.495		22.9				
Head	LTE Band 14	10	QPSK	E	1302M	1:1	0.15	793.00	23330	0.0	22.0	20.46	25	25	Left Tilt	0	0.761	1.426	1.085	1.085	0.678		21.6				
Head	LTE Band 14	10	QPSK	E	1302M	1:1	0.04	793.00	23330	0.0	22.0	20.43	50	0	Left Tilt	0	0.806	1.436	1.057	1.057	0.723		22.3				
Head	LTE Band 14	10	QPSK	E	1302M	1:1	0.17	793.00	23330	0.0	22.0	20.45	50	0	Left Tilt	0	0.777	1.435	1.049	1.049	0.656		21.7				
Spatial Peak																1.6 W/kg (mW/kg)											
Uncontrolled Exposure/General Population																averaged over 1 gram											
Note: Blue entries represent variability/no measurement																											

12.10 LTE Band 26 (Cell) Standalone SAR

Table 12-31

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DFB [dB]	Frequency [MHz]	Channel #	MFR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RIS Offset	Test Position	Spacing [mm]	Time state	Measured LG SAR [W/kg]	Power Scaling Factor	Reported LG SAR [W/kg]	Adjusted LG SAR [W/kg]	Exposure Rate [μSAR]	Plot #	Print [dBm]	Overall Power [dBm]	FSB [dBm]	FSB [dBm]
Head	LTE Band 20	15	GPRK	A	1290M	1:1	0.02	831.50	24865	0.0	25.0	24.46	1	36	Right Cheek	0	0	0.0009	1.132	0.136	0.478	0.289	22.9				
Head	LTE Band 20	15	QPRK	A	1290M	1:1	0.08	831.50	24865	1.0	24.0	23.17	36	18	Right Cheek	0	11	0.0095	1.211	0.136	0.516	0.323	23.6				
Head	LTE Band 20	15	QPRK	A	1290M	1:1	0.02	831.50	24865	0.0	25.0	24.46	1	36	Right TIR	0	0	0.0009	1.132	0.076	0.236	0.149	22.0				
Head	LTE Band 20	15	QPRK	A	1290M	1:1	0.08	831.50	24865	1.0	24.0	23.17	27	36	Right TIR	0	11	0.0095	1.211	0.076	0.236	0.149	22.0				
Head	LTE Band 20	15	QPRK	A	1270M	1:1	0.02	831.50	24865	0.0	25.0	24.46	1	36	Left Cheek	0	11	0.0095	1.212	0.148	0.488	0.289	22.7			20.8	
Head	LTE Band 20	15	QPRK	A	1270M	1:1	0.08	831.50	24865	1.0	24.0	23.17	36	18	Left Cheek	0	11	0.0095	1.211	0.109	0.414	0.250	23.3				
Head	LTE Band 20	15	QPRK	A	1270M	1:1	0.02	831.50	24865	0.0	25.0	24.46	1	36	Left TIR	0	11	0.0095	1.132	0.068	0.218	0.145	22.0				
Head	LTE Band 20	15	QPRK	A	1270M	1:1	0.08	831.50	24865	1.0	24.0	23.17	36	18	Left TIR	0	11	0.0095	1.211	0.068	0.218	0.145	22.0				
Antenna Cable Loss, Safety Factor																											
Antenna Cable Loss, Safety Factor																		Head									
Uncorrelated Excess/Deficient Power/Modulation																		Reported Power 1.0mm									
Spatial Sum																		1.0 W/kg [mW/g]									

Table 12-32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power [dBm]	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]	Adjusted 1g SAR [W/kg]	Exposure Rate (μg SAR)	Plot #	Pilot [dBm]	Overall Pilot [dBm]	EPS Pilot [dBm]
Head	LTE Band26	15	QPSK	E	1288M	1:1	0.08	831.50	26805	0.0	22.0	20.26	1	36	Right Cheek	0	0.932	1.493	0.884	0.884	0.553		22.5		
Head	LTE Band26	15	QPSK	E	1288M	1:1	0.08	831.50	26805	0.0	22.0	20.26	36	18	Right Cheek	0	0.868	1.462	0.881	0.881	0.513		22.5		
Head	LTE Band26	15	QPSK	E	1288M	1:1	0.07	831.50	26805	0.0	22.0	20.20	75	0	Right Cheek	0	0.908	1.514	0.905	0.905	0.566		22.4		
Head	LTE Band26	15	QPSK	E	1288M	1:1	0.06	831.50	26805	0.0	22.0	20.20	1	36	Right Tib	0	0.487	1.493	0.927	0.727	0.727		25.4	23.3	
Head	LTE Band26	15	QPSK	E	1288M	1:1	0.21	831.50	26805	0.0	22.0	20.26	36	18	Right Tib	0	0.652	1.462	0.675	0.675	0.421		21.9	21.0	
Head	LTE Band26	15	QPSK	E	1302M	1:1	0.11	831.50	26805	0.0	22.0	20.30	1	36	Left Cheek	0	0.614	1.493	1.006	1.006	0.629	A26	21.6		
Head	LTE Band26	15	QPSK	E	1302M	1:1	0.05	831.50	26805	0.0	22.0	20.30	36	18	Left Cheek	0	0.647	1.462	0.946	0.946	0.593		22.2		
Head	LTE Band26	15	QPSK	E	1302M	1:1	0.06	831.50	26805	0.0	22.0	20.26	75	0	Left Tib	0	0.614	1.514	0.905	0.905	0.566		22.0		
Head	LTE Band26	15	QPSK	E	1302M	1:1	0.02	831.50	26805	0.0	22.0	20.30	1	36	Left Tib	0	0.638	1.483	0.953	0.953	0.596		22.2		
Head	LTE Band26	15	QPSK	E	1302M	1:1	0.06	831.50	26805	0.0	22.0	20.30	36	18	Left Tib	0	0.621	1.462	0.909	0.909	0.588		22.1		
Head	LTE Band26	15	QPSK	E	1302M	1:1	0.07	831.50	26805	0.0	22.0	20.26	75	0	Left Tib	0	0.632	1.514	0.937	0.937	0.588		22.1		
ANALYZER CRL-1 1992 - SAFETY LIMIT																	Head								
Spatial Peak																	1.6 W/kg (mW/g)								
Unmodulated CW (Spatial Peak)																									

Table 12-33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power (dB) [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RIS Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [4g SAR]	Plot #	Limit [dBm]	Overall Power [dBm]	FS [dBm]	FS [dBm]
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	128048	1:1	-0.12	831.50	26865	0.0	25.0	24.46	1	36	Back	10	0	0.293	1.132	0.332	0.796	0.458	29.6				
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	128048	1:1	-0.17	831.50	26865	1.0	24.0	23.17	36	18	Back	10	0	0.227	1.211	0.275	0.830	0.469	29.7				
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	128048	1:1	-0.21	831.50	26865	1.0	23.0	22.46	36	18	Back	10	0	0.236	1.132	0.152	0.830	0.469	29.7				
Hotspot	LTE Band 26	15	QPSK	A	128048	1:1	0.02	831.50	26865	1.0	24.0	23.17	36	18	Front	10	0	0.144	1.211	0.338	0.417	0.261	32.6				
Hotspot	LTE Band 26	15	QPSK	A	128048	1:1	0.00	831.50	26865	0.0	25.0	24.46	1	36	Bottom	10	0	0.009	1.132	0.067	0.160	0.100	36.7				
Hotspot	LTE Band 26	15	QPSK	A	128048	1:1	0.00	831.50	26865	1.0	24.0	23.17	36	18	Bottom	10	0	0.144	1.211	0.094	0.160	0.100	36.7				
Hotspot	LTE Band 26	15	QPSK	A	128048	1:1	-0.15	831.50	26865	0.0	25.0	24.46	1	36	Right	10	0	0.325	1.132	0.142	0.340	0.213	33.4				
Hotspot	LTE Band 26	15	QPSK	A	128048	1:1	-0.05	831.50	26865	0.0	25.0	24.46	1	36	Right	10	0	0.231	1.132	0.211	0.269	0.169	33.9				
Hotspot	LTE Band 26	15	QPSK	A	128048	1:1	-0.03	831.50	26865	0.0	25.0	24.46	1	36	Left	10	0	0.306	1.132	0.120	0.268	0.140	34.2				
Hotspot	LTE Band 26	15	QPSK	A	128048	1:1	-0.03	831.50	26865	1.0	24.0	23.17	36	18	Left	10	0	0.089	1.211	0.108	0.324	0.203	33.1				
Avg/Max Core 1 (Max. Safety Limit)																		Body									
Spatial Peak																		0.20 W/kg (mW/kg)									
Maximum of 10g (Maximum of 100g)																		0.20 W/kg (mW/kg)									

Table 12-34

Exposure	Band / Mode	Bandwidth (kHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dBm)	Frequency (MHz)	Channel #	MPR (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RF Size	RF Offset	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR (W/kg)	Adjusted 1g SAR (W/kg)	Exposure Rate (μ g SAR)	Plot #	Plot Limit (dBm)	Overall Plot (dBm)	FFS Plot (dBm)
Body worn/hotspot	LTE Band 26	15	QPSK	E	1296M	1:1	-0.11	813.50	26865	0.0	25.0	23.67	1	36	Back	10	0.549	1.138	0.545	0.978	0.611	A27	-26.2		
Body worn/hotspot	LTE Band 26	15	QPSK	E	1296M	1:1	0.00	813.50	26865	1.0	24.0	22.98	36	18	Back	10	0.463	1.184	0.463	0.978	0.584		-26.2		
Hotspot	LTE Band 26	15	QPSK	E	1296M	1:1	-0.01	813.50	26865	0.0	25.0	23.67	1	36	Front	10	0.504	1.108	0.684	0.903	0.564		-26.6		
Hotspot	LTE Band 26	15	QPSK	E	1296M	1:1	0.46	813.50	26865	1.0	24.0	22.99	36	18	Front	10	0.383	1.184	0.527	0.875	0.547		-26.6		
Hotspot	LTE Band 26	15	QPSK	E	1296M	1:1	0.04	813.50	26865	0.0	25.0	23.67	1	36	Top	10	0.577	1.184	0.716	0.944	0.592		-26.4	26.2	
Hotspot	LTE Band 26	15	QPSK	E	1296M	1:1	-0.01	813.50	26865	1.0	24.0	22.99	36	18	Top	10	0.411	1.184	0.569	0.944	0.590		-26.4		
Hotspot	LTE Band 26	15	QPSK	E	1296M	1:1	0.01	813.50	26865	0.0	25.0	23.67	1	36	Right	10	0.478	1.138	0.646	0.853	0.533		-26.8		
Hotspot	LTE Band 26	15	QPSK	E	1296M	1:1	0.08	813.50	26865	1.0	24.0	22.98	36	18	Right	10	0.385	1.184	0.500	0.829	0.518		-27.0		
ANCC/IEEE CRS-1 1992 - SAFETY LIMIT																		Body							
Spatial Peak																		1.6 W/kg (mW/g)							
Uncontrolled Exposure (General Population)																		0.08 W/kg (mW/g)							

12.11 LTE Band 66 (AWS) Standalone SAR

Table 12-35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drft [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tone state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio	Plot #	PLimit [dBm]	Overall PLimit [dBm]	ERP PLimit [dBm]
Head	LTE Band 66	20	QPSK	A	1268M	1:1	0.11	1720.00	120272	0.0	24.5	23.80	1	50	Right Cheek	0	56	0.115	1.175	0.135	0.257	0.161		13.1		
Head	LTE Band 66	20	QPSK	A	1268M	1:1	0.10	1720.00	120272	1.0	23.5	22.80	50	0	Right Cheek	0	56	0.115	1.175	0.099	0.237	0.148		13.5		
Head	LTE Band 66	20	QPSK	A	1268M	1:1	0.09	1720.00	120272	0.0	23.5	22.80	1	50	Right Tilt	0	56	0.196	1.175	0.113	0.215	0.134		14.0		
Head	LTE Band 66	20	QPSK	A	1268M	1:1	0.02	1720.00	120272	1.0	23.5	22.80	50	0	Right Tilt	0	56	0.075	1.175	0.008	0.211	0.112		14.5		
Head	LTE Band 66	20	QPSK	A	1213M	1:1	0.08	1720.00	120012	0.0	24.0	23.80	50	0	Left Cheek	0	56	0.135	1.175	0.148	0.235	0.160		13.7	30.7	27.7
Head	LTE Band 66	20	QPSK	A	1213M	1:1	0.02	1720.00	120272	1.0	23.5	22.80	50	0	Left Cheek	0	56	0.143	1.175	0.168	0.403	0.252		11.2		
Head	LTE Band 66	20	QPSK	A	1213M	1:1	0.12	1720.00	120272	0.0	24.5	23.80	1	50	Left Tilt	0	56	0.079	1.175	0.093	0.177	0.111		14.8		
Head	LTE Band 66	20	QPSK	A	1213M	1:1	0.06	1720.00	120272	1.0	23.5	22.80	50	0	Left Tilt	0	56	0.099	1.175	0.069	0.166	0.104		15.0		
ANAL/REC CHS 1-1962 - SAFETY LIMIT																		Head								
Spatial Peak																		1.6 W/kg (mW/g)								

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Table 12-36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Head	LTE Band 66	20	QPSK	F	1263M	1:1	-0.02	1720.00	120272	0.0	17.0	15.88	1	0	Right Cheek	0	0.673	1.294	0.871	0.871	0.544		17.5		
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.08	1745.00	123232	0.0	17.0	15.66	1	50	Right Cheek	0	0.543	1.361	0.738	0.738	0.461		18.3		
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.11	1770.00	125252	0.0	17.0	15.42	1	0	Right Cheek	0	0.339	1.312	0.707	0.707	0.442		18.5		
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.01	1720.00	120272	0.0	17.0	15.50	50	0	Right Cheek	0	0.688	1.288	0.876	0.876	0.548		17.5		
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.06	1745.00	123232	0.0	17.0	15.60	50	0	Right Cheek	0	0.557	1.380	0.769	0.769	0.491		18.1		
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.03	1770.00	125252	0.0	17.0	15.67	50	0	Right Cheek	0	0.545	1.358	0.740	0.740	0.463		18.3		
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.08	1720.00	120272	0.0	17.0	15.83	100	0	Right Cheek	0	0.585	1.359	0.766	0.766	0.479		18.1		
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.03	1745.00	123232	0.0	17.0	15.86	1	0	Right Tilt	0	0.680	1.295	0.858	0.858	0.599		17.1		
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.04	1745.00	123232	0.0	17.0	15.66	1	50	Right Tilt	0	0.605	1.361	0.846	0.846	0.591		17.2		
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.05	1770.00	125252	0.0	17.0	15.82	1	0	Right Tilt	0	0.647	1.312	0.849	0.849	0.531		17.7		
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.00	1720.00	120272	0.0	17.0	15.50	50	0	Right Tilt	0	0.648	1.288	0.863	0.863	0.603	A28	17.1	17.0	16.0
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.03	1745.00	123232	0.0	17.0	15.60	50	0	Right Tilt	0	0.688	1.380	0.863	0.863	0.602		17.1		
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.04	1770.00	125252	0.0	17.0	15.67	50	0	Right Tilt	0	0.669	1.358	0.909	0.909	0.568		17.4		
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.05	1720.00	120272	0.0	17.0	15.83	100	0	Right Tilt	0	0.547	1.309	0.878	0.878	0.611		17.0		
Head	LTE Band 66	20	QPSK	F	1262M	1:1	0.00	1720.00	120072	0.0	17.0	15.88	1	0	Left Cheek	0	0.488	1.294	0.606	0.606	0.379		18.1		
Head	LTE Band 66	20	QPSK	F	1262M	1:1	-0.01	1720.00	120072	0.0	17.0	15.90	50	0	Left Cheek	0	0.482	1.288	0.621	0.621	0.388		18.0		
Head	LTE Band 66	20	QPSK	F	1262M	1:1	0.01	1720.00	120072	0.0	17.0	15.88	1	0	Left Tilt	0	0.558	1.294	0.719	0.719	0.449		18.4		
Head	LTE Band 66	20	QPSK	F	1262M	1:1	-0.01	1720.00	120072	0.0	17.0	15.90	50	0	Left Tilt	0	0.545	1.288	0.697	0.697	0.435		18.5		
ANSI/IEEE CS1.1 1982 - SAFETY LIMIT																	Head								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	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 #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	0.08	1720.00	120272	0.0	19.5	18.92	1	0	Back	10	SS	0.528	1.143	0.604	0.604	0.378	A29	21.6		
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	-0.01	1720.00	120272	0.0	19.5	18.82	50	0	Back	10	SS	0.517	1.169	0.604	0.604	0.378		21.6		
Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	-0.19	1720.00	120272	0.0	19.5	18.92	1	0	Front	10	SS	0.400	1.143	0.457	0.457	0.286		22.8		
Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	0.18	1720.00	120272	0.0	19.5	18.82	50	0	Front	10	SS	0.391	1.169	0.457	0.457	0.286		22.8		
Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	-0.03	1720.00	120272	0.0	19.5	18.82	50	0	Bottom	10	SS	0.575	1.143	0.840	0.840	0.525		20.2		
Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	0.00	1745.00	123232	0.0	19.5	18.43	1	0	Bottom	10	SS	0.737	1.279	0.943	0.943	0.589		19.7		
Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	0.02	1770.00	125252	0.0	19.5	18.57	1	0	Bottom	10	SS	0.783	1.239	0.970	0.970	0.606	A30	19.6		
Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	-0.01	1720.00	120272	0.0	19.5	18.82	50	0	Bottom	10	SS	0.485	1.169	0.607	0.607	0.386		20.1		18.5
Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	-0.03	1745.00	123232	0.0	19.5	18.55	50	0	Bottom	10	SS	0.775	1.245	0.965	0.965	0.603		19.5		
Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	0.01	1770.00	125252	0.0	19.5	18.53	50	0	Bottom	10	SS	0.738	1.250	0.923	0.923	0.577		19.8		
Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	0.01	1720.00	120272	0.0	19.5	18.77	100	0	Bottom	10	SS	0.574	1.183	0.686	0.686	0.436		20.0		
Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	0.06	1720.00	120272	0.0	19.5	18.92	1	0	Right	10	SS	0.680	1.143	0.103	0.103	0.064		29.3		
Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	0.03	1770.00	125252	0.0	19.5	18.82	50	0	Right	10	SS	0.685	1.169	0.099	0.099	0.062		29.5		
Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	0.10	1720.00	120272	0.0	19.5	18.92	1	0	Left	10	SS	0.148	1.143	0.122	0.122	0.078		28.6		
Hotspot	LTE Band 66	20	QPSK	A	1262M	1:1	0.01	1720.00	120272	0.0	19.5	18.82	50	0	Left	10	SS	0.507	1.169	0.125	0.125	0.078		28.5		
ANSI/IEEE CS1.1 1982 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 12-38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body-worn/hotspot	LTE Band 66	20	QPSK	F	1263M	1:1	-0.08	1720.00	120272	0.0	21.0	20.20	1	50	Back	10	0.307	1.202	0.369	0.369	0.231		25.1		
Body-worn/hotspot	LTE Band 66	20	QPSK	F	1263M	1:1	-0.04	1720.00	120272	0.0	21.0	20.20	50	0	Back	10	0.327	1.194	0.390	0.390	0.244		25.0		
Hotspot	LTE Band 66	20	QPSK	F	1263M	1:1	0.10	1720.00	120272	0.0	21.0	20.20	1	50	Front	10	0.224	1.202	0.299	0.299	0.188		26.6		
Hotspot	LTE Band 66	20	QPSK	F	1263M	1:1	0.14	1720.00	120272	0.0	21.0	20.23	50	0	Front	10	0.238	1.194	0.272	0.272	0.170		26.6		
Hotspot	LTE Band 66	20	QPSK	F	1263M	1:1	0.02	1720.00	120272	0.0	21.0	20.20	1	50	Top	10	0.522	1.202	0.664	0.664	0.425		22.7		20.0
Hotspot	LTE Band 66	20	QPSK	F	1263M	1:1	0.03	1720.00	120272	0.0	21.0	20.25	50	0	Top	10	0.540	1.194	0.645	0.645	0.405		22.9		
Hotspot	LTE Band 66	20	QPSK	F	1263M	1:1	-0.06	1720.00	120272	0.0	21.0	20.20	1	50	Left	10	0.172	1.202	0.207	0.207	0.129		27.8		
Hotspot	LTE Band 66	20	QPSK	F	1263M	1:1	-0.03	1720.00	120272	0.0	21.0	20.20	50	0	Left	10	0.176	1.194	0.204	0.204	0.131		27.7		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT																	Body								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

12.12 LTE Band 25 (PCS) Standalone SAR

Table 12-39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial
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Table 12-41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1252M	1:1	-0.04	1860.00	26140	0.0	19.0	18.44	1	0	Back	30	0	0.363	1.138	0.402	0.402	0.251	A32	22.9		
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1252M	1:1	-0.02	1860.00	26140	0.0	19.0	18.38	50	25	Back	30	0	0.343	1.153	0.395	0.395	0.247		23.0		
Hotspot	LTE Band 25	20	QPSK	A	1252M	1:1	-0.02	1860.00	26140	0.0	19.0	18.44	1	0	Front	30	1	0.332	1.138	0.376	0.376	0.236		23.2		
Hotspot	LTE Band 25	20	QPSK	A	1252M	1:1	-0.18	1860.00	26140	0.0	19.0	18.38	50	25	Front	30	1	0.351	1.153	0.370	0.370	0.231		23.3		
Hotspot	LTE Band 25	20	QPSK	A	1252M	1:1	0.05	1860.00	26140	0.0	19.0	18.44	1	0	Bottom	30	0	0.623	1.138	0.709	0.709	0.443		20.4		
Hotspot	LTE Band 25	20	QPSK	A	1252M	1:1	-0.01	1860.00	26140	0.0	19.0	18.38	50	25	Bottom	30	0	0.611	1.153	0.704	0.704	0.440		20.5		
Hotspot	LTE Band 25	20	QPSK	A	1252M	1:1	0.09	1860.00	26140	0.0	19.0	18.44	1	0	Right	30	0	0.653	1.138	0.772	0.772	0.465		20.4		
Hotspot	LTE Band 25	20	QPSK	A	1252M	1:1	0.18	1860.00	26140	0.0	19.0	18.38	50	25	Right	30	0	0.606	1.153	0.665	0.665	0.401		20.8		
Hotspot	LTE Band 25	20	QPSK	A	1252M	1:1	-0.19	1860.00	26140	0.0	19.0	18.44	1	0	Left	30	0	0.662	1.138	0.771	0.771	0.464		20.5		
Hotspot	LTE Band 25	20	QPSK	A	1252M	1:1	0.07	1860.00	26140	0.0	19.0	18.38	50	25	Left	30	0	0.654	1.153	0.682	0.682	0.439		21.0		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak																										
Uncontrolled Exposure/General Population																										

Table 12-42

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body-worn/Hotspot	LTE Band 25	20	QPSK	F	1261M	1:1	-0.05	1862.50	26365	0.0	21.0	20.23	1	0	Back	30	0	0.321	1.194	0.383	0.383	0.249		25.1		
Body-worn/Hotspot	LTE Band 25	20	QPSK	F	1261M	1:1	-0.03	1862.50	26365	0.0	21.0	20.17	50	25	Back	30	0	0.320	1.211	0.388	0.388	0.243		25.1		
Hotspot	LTE Band 25	20	QPSK	F	1261M	1:1	-0.06	1862.50	26365	0.0	21.0	20.23	1	0	Front	30	0	0.227	1.194	0.271	0.271	0.169		26.6		
Hotspot	LTE Band 25	20	QPSK	F	1261M	1:1	-0.13	1862.50	26365	0.0	21.0	20.17	50	25	Front	30	0	0.222	1.211	0.269	0.269	0.168		26.7		
Hotspot	LTE Band 25	20	QPSK	F	1261M	1:1	-0.01	1862.50	26140	0.0	21.0	20.26	1	0	Top	30	0	0.431	1.202	0.758	0.758	0.474		21.1		
Hotspot	LTE Band 25	20	QPSK	F	1261M	1:1	0.00	1862.50	26365	0.0	21.0	20.23	1	0	Top	30	0	0.682	1.194	0.814	0.814	0.509	A31	21.8		
Hotspot	LTE Band 25	20	QPSK	F	1261M	1:1	-0.01	1860.00	26140	0.0	21.0	20.19	1	0	Top	30	0	0.469	1.271	0.749	0.749	0.468		22.7		
Hotspot	LTE Band 25	20	QPSK	F	1261M	1:1	-0.02	1862.50	26365	0.0	21.0	20.17	50	25	Top	30	0	0.448	1.211	0.785	0.785	0.491		22.0		
Hotspot	LTE Band 25	20	QPSK	F	1261M	1:1	-0.01	1860.00	26140	0.0	21.0	20.15	100	0	Top	30	0	0.641	1.216	0.779	0.779	0.487		22.0		
Hotspot	LTE Band 25	20	QPSK	F	1261M	1:1	-0.08	1862.50	26365	0.0	21.0	20.19	1	0	Left	30	0	0.468	1.206	0.762	0.762	0.462		22.0		
Hotspot	LTE Band 25	20	QPSK	F	1261M	1:1	-0.03	1862.50	26365	0.0	21.0	20.17	50	25	Left	30	0	0.598	1.211	0.191	0.191	0.119		28.1		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak																										
Uncontrolled Exposure/General Population																										

12.13 LTE Band 30 Standalone SAR

Table 12-43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	LTE Band 30	10	QPSK	A	1278M	1:1	0.01	2310.00	27710	0.0	21.5	23.21	1	25	Right Cheek	0	0	0.007	1.009	0.007	0.101	0.063		44.7		
Head	LTE Band 30	10	QPSK	A	1278M	1:1	-0.20	2310.00	27710	1.0	21.5	22.07	25	0	Right Cheek	0	0	0.009	1.104	0.010	0.169	0.106		42.5		
Head	LTE Band 30	10	QPSK	A	1278M	1:1	-0.08	2310.00	27710	0.0	21.5	23.21	1	25	Right Tib	0	0	0.012	1.009	0.011	0.171	0.109		42.4		
Head	LTE Band 30	10	QPSK	A	1278M	1:1	0.02	2310.00	27710	1.0	21.5	22.07	25	0	Right Tib	0	0	0.012	1.104	0.013	0.225	0.141		41.2		
Head	LTE Band 30	10	QPSK	A	1278M	1:1	-0.02	2310.00	27710	0.0	21.5	23.21	1	25	Left Cheek	0	0	0.008	1.009	0.007	0.131	0.084		41.2		
Head	LTE Band 30	10	QPSK	A	1278M	1:1	-0.01	2310.00	27710	1.0	21.5	22.07	25	0	Left Cheek	0	0	0.012	1.104	0.013	0.225	0.141		41.2		
Head	LTE Band 30	10	QPSK	A	1278M	1:1	0.03	2310.00	27710	1.0	21.5	23.21	1	25	Left Tib	0	0	0.080	1.009	0.032	0.433	0.271		38.4		
Head	LTE Band 30	10	QPSK	A	1278M	1:1	0.05	2310.00	27710	1.0	21.5	22.07	25	0	Left Tib	0	0	0.023	1.206	0.025	0.431	0.269		38.4		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak																										
Uncontrolled Exposure/General Population																										

Table 12-44																										
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]	
Head	LTE Band 30	10	QPSK	F	1278M	1:1	0.20	2310.00	27710	0.0	17.5	16.56	1	49	Right Cheek	0	0.827	1.242	1.027	1.027	0.642		17.3			
Head	LTE Band 30	10	QPSK	F	1278M	1:1	-0.01	2310.00	27710	0.0	17.5	16.60	25	0	Right Cheek	0	0.828	1.220	1.018	1.018	0.626		17.4			
Head	LTE Band 30	10	QPSK	F	1278M	1:1	0.04	2310.00	27710	0.0	17.5	16.55	50	0	Right Cheek	0	0.855	1.245	1.064	1.064	0.655	A34	17.2			
Head	LTE Band 30	10	QPSK	F	1278M	1:1	0.06	2310.00	27710	0.0	17.5	16.56	50	0	Right Cheek	0	0.901	1.246	1.035	1.035	0.647	17.3				
Head	LTE Band 30	10	QPSK	F	1278M	1:1	0.18	2310.00	27710	0.0	17.5	16.56	1	49	Right Tib	0	0.803	1.242	0.995	0.995	0.622		17.5			
Head	LTE Band 30	10	QPSK	F	1278M	1:1	0.01	2310.00	27710	0.0	17.5	16.60	25	0	Right Tib	0	0.816	1.230	0.921	0.921	0.576		17.8			
Head	LTE Band 30	10	QPSK	F	1278M	1:1	0.00	2310.00	27710	0.0	17.5	16.55	50	0	Right Tib	0	0.788	1.245	0.944	0.944	0.590		17.2	17.2	16.5	
Head	LTE Band 30	10	QPSK	F	1278M	1:1	0.01	2310.00	27710	0.0	17.5	16.56	1	49	Left Cheek	0	0.529	1.242	0.657	0.657	0.411		19.3			
Head	LTE Band 30	10	QPSK	F	1278M	1:1	0.01	2310.00	27710	0.0	17.5	16.60	25	0	Left Cheek	0	0.532	1.220	0.654	0.654	0.409		19.3			
Head	LTE Band 30	10	QPSK	F	1278M	1:1	0.02	2310.00	27710	0.0	17.5	16.56	1	49	Left Tib	0	0.829	1.242	1.030	1.030	0.644		17.3			
Head	LTE Band 30	10	QPSK	F	1278M	1:1	0.01	2310.00	27710	0.0	17.5	16.60	25	0	Left Tib	0	0.823	1.230	1.012	1.012	0.633	17.4				
Head	LTE Band 30	10	QPSK	F	1278M	1:1	0.02	2310.00	27710	0.0	17.5	16.55	50	0	Left Tib	0	0.772	1.245	0.961	0.961	0.601		17.6			
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																	Head									
Serial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 12-46

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	RFSP PLimit [dBm]
Body-worn/Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	-0.12	2310.00	27720	0.0	19.0	18.19	1	25	Back	10	0.245	1.205	0.295	0.295	0.184	A36	24.2		
Body-worn/Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	-0.14	2310.00	27720	0.0	19.0	18.17	25	12	Back	10	0.245	1.211	0.297	0.297	0.180		24.2		
Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	0.05	2310.00	27720	0.0	19.0	18.19	1	25	Front	10	0.189	1.205	0.228	0.228	0.143		24.4		
Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	-0.10	2310.00	27720	0.0	19.0	18.17	25	12	Front	10	0.197	1.211	0.226	0.226	0.141		25.4		
Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	0.09	2310.00	27720	0.0	19.0	18.19	1	25	Top	10	0.198	1.205	0.455	0.455	0.284		22.4		
Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	-0.01	2310.00	27720	0.0	19.0	18.17	25	12	Top	10	0.199	1.211	0.459	0.459	0.287		22.3		
Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	-0.10	2310.00	27720	0.0	19.0	18.19	1	25	Left	10	0.098	1.205	0.043	0.043	0.027		22.6		
Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	0.09	2310.00	27720	0.0	19.0	18.17	25	12	Left	10	0.099	1.211	0.042	0.042	0.026		22.7		
ANSI/IEEE C63.1 UN2 - SAFETY LIMIT																	Body								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

12.14 LTE Band 7 Standalone SAR

Table 12-47

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	RFSP PLimit [dBm]
Head	LTE Band 7	20	QPSK	B	1278M	1:1	0.05	2510.00	20950	0.0	24.0	23.68	1	50	Right Cheek	0	0.026	1.076	0.018	0.147	0.052		39.5		
Head	LTE Band 7	20	QPSK	B	1278M	1:1	-0.15	2510.00	20950	1.0	23.0	22.93	50	0	Right Cheek	0	0.023	1.076	0.023	0.154	0.096		39.3		
Head	LTE Band 7	20	QPSK	B	1278M	1:1	-0.06	2510.00	20950	0.0	24.0	23.68	1	50	Right TIR	0	0.018	1.076	0.011	0.056	0.025		43.6		
Head	LTE Band 7	20	QPSK	B	1278M	1:1	-0.03	2510.00	20950	1.0	23.0	22.93	50	0	Right TIR	0	0.009	1.076	0.009	0.060	0.028		43.3		
Head	LTE Band 7	20	QPSK	B	1278M	1:1	0.02	2510.00	20950	0.0	24.0	23.68	1	50	Left Cheek	0	0.027	1.076	0.077	0.407	0.354		39.1		
Head	LTE Band 7	20	QPSK	B	1278M	1:1	0.08	2510.00	20950	1.0	23.0	22.93	50	0	Left Cheek	0	0.087	1.016	0.008	0.450	0.281		34.6		
Head	LTE Band 7	20	QPSK	B	1278M	1:1	-0.07	2510.00	20950	0.0	24.0	23.68	1	50	Left TIR	0	0.027	1.076	0.019	0.153	0.096		39.3		
Head	LTE Band 7	20	QPSK	B	1278M	1:1	0.15	2510.00	20950	1.0	23.0	22.93	50	0	Left TIR	0	0.018	1.016	0.019	0.128	0.080		40.1		
ANSI/IEEE C63.1 UN2 - SAFETY LIMIT																	Head								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	RFSP PLimit [dBm]
Head	LTE Band 7	20	QPSK	F	1278M	1:1	-0.02	2510.00	20950	0.0	16.5	16.18	1	0	Right Cheek	0	0.136	1.076	0.613	0.613	0.389		38.6		
Head	LTE Band 7	20	QPSK	F	1278M	1:1	0.00	2510.00	20950	0.0	16.5	16.19	50	0	Right Cheek	0	0.149	1.074	0.611	0.611	0.382		38.6		
Head	LTE Band 7	20	QPSK	B	1284M	1:1	-0.06	2510.00	20950	0.0	16.5	16.19	1	0	Right Cheek	0	0.136	1.076	0.609	0.609	0.385	A27	38.6		
Head	LTE Band 7	20	QPSK	F	1278M	1:1	-0.03	2510.00	20950	0.0	16.5	16.19	50	0	Right TIR	0	0.028	1.074	0.677	0.677	0.423		38.1		
Head	LTE Band 7	20	QPSK	F	1284M	1:1	0.01	2510.00	20950	0.0	16.5	16.18	1	0	Left Cheek	0	0.261	1.076	0.281	0.281	0.176		22.0		
Head	LTE Band 7	20	QPSK	B	1284M	1:1	-0.07	2510.00	20950	0.0	16.5	16.19	50	0	Left Cheek	0	0.164	1.074	0.284	0.284	0.178		21.9		
Head	LTE Band 7	20	QPSK	F	1284M	1:1	0.08	2510.00	20950	0.0	16.5	16.18	1	0	Left TIR	0	0.410	1.076	0.441	0.441	0.276		20.0		
Head	LTE Band 7	20	QPSK	F	1284M	1:1	-0.04	2510.00	20950	0.0	16.5	16.19	50	0	Left TIR	0	0.409	1.074	0.439	0.439	0.274		20.0		
ANSI/IEEE C63.1 UN2 - SAFETY LIMIT																	Head								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

Table 12-49

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	RFSP PLimit [dBm]
Body-worn/Hotspot	LTE Band 7	20	QPSK	B	1302M	1:1	-0.10	2510.00	20950	0.0	20.0	19.69	1	50	Back	10	0.221	1.074	0.237	0.237	0.148		26.2		
Body-worn/Hotspot	LTE Band 7	20	QPSK	B	1302M	1:1	0.09	2510.00	20950	0.0	20.0	19.71	50	0	Back	10	0.175	1.064	0.229	0.229	0.143		26.4		
Hotspot	LTE Band 7	20	QPSK	B	1302M	1:1	-0.04	2510.00	20950	0.0	20.0	19.69	1	50	Front	10	0.188	1.074	0.148	0.148	0.093		28.2		
Hotspot	LTE Band 7	20	QPSK	B	1302M	1:1	0.09	2510.00	20950	0.0	20.0	19.73	50	0	Front	10	0.134	1.064	0.143	0.143	0.089		28.4		
Hotspot	LTE Band 7	20	QPSK	B	1284M	1:1	-0.05	2510.00	20950	0.0	20.0	19.69	1	50	Bottom	10	0.183	1.074	0.197	0.197	0.121		27.1		
Hotspot	LTE Band 7	20	QPSK	B	1284M	1:1	0.03	2510.00	20950	0.0	20.0	19.73	50	0	Bottom	10	0.181	1.064	0.193	0.193	0.121		27.1		
Hotspot	LTE Band 7	20	QPSK	B	1284M	1:1	-0.04	2510.00	20950	0.0	20.0	19.69	1	50	Left	10	0.248	1.074	0.262	0.262	0.164		25.8		
Hotspot	LTE Band 7	20	QPSK	B	1284M	1:1	-0.04	2510.00	20950	0.0	20.0	19.73	50	0	Left	10	0.179	1.064	0.214	0.214	0.139		25.9		
ANSI/IEEE C63.1 UN2 - SAFETY LIMIT																	Body								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

Table 12-50

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	RFSP PLimit [dBm]
Body worn/hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	-0.06	2530.00	21100	0.0	18.0	16.95	1	50	Back	10	0.275	1.274	0.350	0.350	0.219		22.5		
Body worn/hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	0.07	2530.00	21100	0.0	18.0	16.95	50	0	Back	10	0.178	1.274	0.354	0.354	0.221	A38	22.5		
Hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	0.14	2530.00	21100	0.0	18.0	16.95	1	50	Front	10	0.184	1.274	0.234	0.234	0.146		24.3		
Hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	0.17	2530.00	21100	0.0	18.0	16.95	50	0	Front	10	0.182	1.274	0.232	0.232	0.145		24.3		
Hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	0.05	2530.00	21100	0.0	18.0	16.95	1	50	Top	10	0.309	1.274	0.470	0.470	0.294	A39	21.2	21.2	17.0
Hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	0.05	2530.00	21100	0.0	18.0	16.95	50	0	Top	10	0.304	1.274	0.451	0.451	0.282		21.4		
Hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	-0.03	2530.00	21100	0.0	18.0	16.95	1	50	Left	10	0.041	1.274	0.052	0.052	0.033		30.8		
Hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	0.01	2530.00	21100	0.0	18.0	16.95	50	0	Left	10	0.048	1.274	0.052	0.052	0.033		30.8		
UNANALYZED CH# 1 SP#2 - SAFETY LIMIT																									
Maximum Permitted Power Peak																									
Unmodulated Frequency General Population																	1.6 W/kg (mW/g)								
																	Exceeded over 14 min								

Table 12-52

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	-0.06	2506.00	39750	0.0	17.5	16.82	1	99	Right Cheek	0	0.372	1.169	0.435	0.435	0.272	A40	19.1	19.1	14.5
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	-0.02	2506.00	39750	0.0	17.5	16.80	50	50	Right Cheek	0	0.364	1.175	0.428	0.428	0.268		19.2		
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.00	2506.00	39750	0.0	17.5	16.82	1	99	Right Tilt	0	0.371	1.169	0.434	0.434	0.271		19.1		
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.00	2506.00	39750	0.0	17.5	16.80	50	50	Right Tilt	0	0.365	1.175	0.429	0.429	0.268		19.1		
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	-0.04	2506.00	39750	0.0	17.5	16.82	1	99	Left Cheek	0	0.329	1.169	0.331	0.331	0.094		23.7		
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.08	2506.00	39750	0.0	17.5	16.80	50	50	Left Cheek	0	0.327	1.175	0.340	0.340	0.091		23.7		
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.05	2506.00	39750	0.0	17.5	16.82	1	99	Left Tilt	0	0.397	1.169	0.230	0.230	0.144		21.8		
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.02	2506.00	39750	0.0	17.5	16.80	50	50	Left Tilt	0	0.383	1.175	0.226	0.226	0.141		21.9		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-53

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	US PLimit [dBm]	
Body worn/Hotspot	LTE Band 41	20	QPSK	B	1294M	1:1.58	-0.03	2636.50	41055	0.0	22.0	21.84	1	0	Back	10	0.193	1.038	0.200	0.200	0.125	A41	27.0			
Body worn/Hotspot	LTE Band 41	20	QPSK	B	1294M	1:1.58	-0.02	2636.50	41055	0.0	22.0	21.90	50	0	Back	10	0.192	1.023	0.196	0.196	0.123		27.0			
Hotspot	LTE Band 41	20	QPSK	B	1294M	1:1.58	0.07	2636.50	41055	0.0	22.0	21.84	1	0	Front	10	0.190	1.038	0.194	0.194	0.065		29.8			
Hotspot	LTE Band 41	20	QPSK	B	1294M	1:1.58	0.02	2636.50	41055	0.0	22.0	21.90	50	0	Front	10	0.190	1.023	0.192	0.192	0.064		29.9			
Hotspot	LTE Band 41	20	QPSK	B	1294M	1:1.58	0.00	2636.50	41055	0.0	22.0	21.84	1	0	Bottom	10	0.129	1.038	0.176	0.176	0.110		27.5		26.1	
Hotspot	LTE Band 41	20	QPSK	B	1294M	1:1.58	-0.00	2636.50	41055	0.0	22.0	21.90	50	0	Bottom	10	0.129	1.023	0.177	0.177	0.111		27.5			
Hotspot	LTE Band 41	20	QPSK	B	1294M	1:1.58	0.02	2636.50	41055	0.0	22.0	21.84	1	0	Left	10	0.287	1.038	0.246	0.246	0.154	A42	26.1		19.0	
Hotspot	LTE Band 41	20	QPSK	B	1294M	1:1.58	0.06	2636.50	41055	0.0	22.0	21.90	50	0	Left	10	0.284	1.023	0.239	0.239	0.149		26.2			
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-54

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body worn/Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	-0.08	2506.00	39750	0.0	19.0	18.33	1	99	Back	10	0.112	1.167	0.131	0.131	0.082		25.8		
Body worn/Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.00	2506.00	39750	0.0	19.0	18.32	50	50	Back	10	0.119	1.169	0.139	0.139	0.087		25.5		
Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.18	2506.00	39750	0.0	19.0	18.33	1	99	Front	10	0.080	1.167	0.093	0.093	0.058		27.3		
Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	-0.06	2506.00	39750	0.0	19.0	18.32	50	50	Front	10	0.099	1.169	0.099	0.099	0.061		27.0		
Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.05	2506.00	39750	0.0	19.0	18.33	1	99	Top	10	0.101	1.167	0.118	0.118	0.074		26.3		
Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.05	2506.00	39750	0.0	19.0	18.32	50	50	Top	10	0.112	1.169	0.131	0.131	0.082		25.8		
Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	-0.00	2506.00	39750	0.0	19.0	18.33	1	99	Left	10	0.080	1.167	0.088	0.088	0.051		27.1		
Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.08	2506.00	39750	0.0	19.0	18.32	50	50	Left	10	0.085	1.169	0.088	0.088	0.051		26.5		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram								

12.16 LTE Band 48 Standalone SAR

Table 12-55

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Head	LTE Band 48	20	QPSK	F	1252M	1:1.58	0.06	3690.00	56640	0.0	15.5	15.31	1	50	Right Cheek	0	N/A	0.422	1.045	0.441	0.441	0.276		17.0		
Head	LTE Band 48	20	QPSK	F	1252M	1:1.58	0.11	3690.00	56640	0.0	15.5	15.34	50	25	Right Cheek	0	N/A	0.431	1.038	0.447	0.447	0.279		17.0		
Head	LTE Band 48	20	QPSK	F	1252M	1:1.58	0.06	3690.00	56640	0.0	15.5	15.31	1	50	Right Tilt	0	N/A	0.496	1.045	0.518	0.518	0.324		16.1		
Head	LTE Band 48	20	QPSK	F	1252M	1:1.58	-0.06	3690.00	56640	0.0	15.5	15.34	50	25	Right Tilt	0	N/A	0.506	1.038	0.525	0.525	0.328		16.3		
Head	LTE Band 48	20	QPSK	F	1252M	1:1.58	-0.02	3690.00	56640	0.0	15.5	15.31	50	0	Right Tilt	0	N/A	0.509	1.001	0.540	0.540	0.338		16.3		
Head	LTE Band 48	20	QPSK	F	1261M	1:1.58	0.04	3690.00	56640	0.0	15.5	15.31	1	50	Left Cheek	0	N/A	0.544	1.045	0.575	0.575	0.359		15.4		
Head	LTE Band 48	20	QPSK	F	1261M	1:1.58	-0.04	3690.00	56640	0.0	15.5	15.34	50	25	Left Cheek	0	N/A	0.511	1.038	0.261	0.261	0.163		19.3	16.0	12.5
Head	LTE Band 48	20	QPSK	F	1261M	1:1.58	0.04	3690.00	56640	0.0	15.5	15.31	1	50	Left Tilt	0	N/A	0.526	1.045	0.341	0.341	0.213		18.1		
Head	LTE Band 48	20	QPSK	F	1261M	1:1.58	0.00	3690.00	56640	0.0	15.5	15.34	50	25	Left Tilt	0	N/A	0.537	1.038	0.360	0.360	0.218		18.0		
Head	LTE Band 48	20	QPSK	F	1252M	1:1.58	-0.02	3690.00	56642	0.0	15.5	15.42	50	50	Right Tilt	0	ULCA 48C	0.545	1.019	0.555	0.555	0.347	A41	16.0		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) 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 #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body worn/Hotspot	LTE Band 48	20	QPSK	F	1252M	1:1.58	-0.05	3646.70	56207	0.0	19.5	19.45	1	99	Back	10	N/A	0.225	1.012	0.228	0.228	0.143		23.0		
Body worn/Hotspot	LTE Band 48	20	QPSK	F	1252M	1:1.58	-0.01	3646.70	56207	0.0	19.5	19.50	50	25	Back	10	N/A	0.245	1.000	0.245	0.245	0.147	A44	23.8		
Hotspot	LTE Band 48	20	QPSK	F	1263M	1:1.58	-0.01	3646.70	56207	0.0	19.5	19.45	1	99	Front	10	N/A	0.382	1.012	0.384	0.384	0.215		24.7		
Hotspot	LTE Band 48	20	QPSK	F	1263M	1:1.58	-0.01	3646.70	56207	0.0	19.5	19.50	50	25	Front	10	N/A	0.387	1.000	0.387	0.387	0.217		24.7		
Hotspot	LTE Band 48	20	QPSK	F	1263M	1:1.58	0.01	3646.70	56207	0.0	19.5	19.45	1	99	Top	10	N/A	0.365	1.012	0.365	0.365	0.205		24.6		
Hotspot	LTE Band 48	20	QPSK	F	1252M	1:1.58	-0.03	3646.70	56207	0.0	19.5	19.50	50	25	Top	10	N/A	0.335	1.000	0.315	0.315	0.197	A45	22.5		
Hotspot	LTE Band 48	20	QPSK	F	1252M	1:1.58	0.00	3646.70	56207	0.0	19.5	19.42	50	0	Top	10	N/A	0.310	1.019	0.316	0.316	0.198		22.5		
Hotspot	LTE Band 48	20	QPSK	F	1263M	1:1.58	-0.10	3646.70	56207	0.0	19.5	19.45	1	99	Left	10	N/A	0.405	1.012	0.405	0.405	0.251		20.0		
Hotspot	LTE Band 48	20	QPSK	F	1263M	1:1.58	-0.12	3646.70	56207	0.0	19.5	19.50	50	25	Left	10	N/A	0.408	1.000	0.408	0.408	0.243		20.1		
Hotspot	LTE Band 48	20	QPSK	F	1252M	1:1.58	0.02	3626.90	56009	0.0	19.5	19.45	50	0	Left	10	ULCA 48C	0.313	1.012	0.317	0.317	0.198		22.5		
ANSI/IEEE C63.1.1-2002 - SAFETY LIMIT																		Body 1.6 W/kg [mW/g] averaged over 1 gram								
Uncontrolled Exposure/General Population																										



Table 12-58

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dn [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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pinnt [dBm]	Overall Pinnt [dBm]	EFS Pinnt [dBm]
Head	NR Band n71	35	QPSK	E	1255M	1:1	-0.03	680.50	136200	DFT-s-OFDM	0.0	19.0	17.63	1	186	Right Cheek	0	0.164	1.371	0.211	0.211	0.132		25.7		
Head	NR Band n71	35	QPSK	E	1255M	1:1	-0.03	680.50	136200	DFT-s-OFDM	0.0	19.0	17.59	90	49	Right Cheek	0	0.202	1.384	0.280	0.280	0.175		24.5		
Head	NR Band n71	35	QPSK	E	1255M	1:1	-0.02	680.50	136200	DFT-s-OFDM	0.0	19.0	17.63	1	186	Right TH	0	0.163	1.373	0.182	0.182	0.114		26.1		
Head	NR Band n71	35	QPSK	E	1255M	1:1	-0.03	680.50	136200	DFT-s-OFDM	0.0	19.0	17.59	90	49	Right TH	0	0.161	1.384	0.223	0.223	0.139		25.5		
Head	NR Band n71	35	QPSK	E	1255M	1:1	-0.05	680.50	136200	DFT-s-OFDM	0.0	19.0	17.65	1	186	Left Cheek	0	0.169	1.371	0.265	0.265	0.166		24.7		
Head	NR Band n71	35	QPSK	E	1255M	1:1	-0.02	680.50	136200	DFT-s-OFDM	0.0	19.0	17.59	90	49	Left Cheek	0	0.168	1.384	0.358	0.358	0.224	A46	23.4		
Head	NR Band n71	35	QPSK	E	1255M	1:1	-0.15	680.50	136200	CP-OFDM	0.0	19.0	17.35	1	1	Left Cheek	0	0.149	1.462	0.364	0.364	0.228		23.3		
Head	NR Band n71	35	QPSK	E	1255M	1:1	-0.02	680.50	136200	DFT-s-OFDM	0.0	19.0	17.59	90	49	Left TH	0	0.169	1.372	0.244	0.244	0.153		25.1		
Head	NR Band n71	35	QPSK	E	1255M	1:1	-0.02	680.50	136200	DFT-s-OFDM	0.0	19.0	17.59	90	49	Left TH	0	0.165	1.384	0.298	0.298	0.186		24.2		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																		Head								
Spatial Peak																		Body								
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g)		averaged over 1 gram						

Table 12-59

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dn [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pinnt [dBm]	Overall Pinnt [dBm]	EFS Pinnt [dBm]
Body-worn/Hotspot	NR Band n71	35	QPSK	A	1255M	1:1	-0.03	680.50	136200	DFT-s-OFDM	0.0	25.0	24.49	1	94	Back	10	0	0.131	1.148	0.180	0.181	0.119		29.2		
Body-worn/Hotspot	NR Band n71	35	QPSK	A	1255M	1:1	-0.04	680.50	136200	CP-OFDM	0.0	25.0	24.49	90	49	Back	10	0	0.168	1.178	0.161	0.161	0.103		29.9		
Body-worn/Hotspot	NR Band n71	35	QPSK	A	1255M	1:1	-0.18	680.50	136200	CP-OFDM	1.5	23.5	22.26	1	1	Back	10	11	0.109	1.202	0.180	0.180	0.125		29.0		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	-0.04	680.50	136200	DFT-s-OFDM	0.0	25.0	24.49	1	94	Front	10	0	0.166	1.148	0.078	0.171	0.107		16.0		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	-0.15	680.50	136200	DFT-s-OFDM	0.0	25.0	24.39	90	49	Front	10	0	0.169	1.178	0.081	0.178	0.113		15.3		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	0.05	680.50	136200	DFT-s-OFDM	0.0	25.0	24.49	1	94	Bottom	10	0	0.161	1.148	0.047	0.103	0.064		16.9		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	-0.05	680.50	136200	DFT-s-OFDM	0.0	25.0	24.49	90	49	Bottom	10	0	0.169	1.178	0.049	0.109	0.069		16.0		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	-0.07	680.50	136200	DFT-s-OFDM	0.0	25.0	24.49	1	94	Right	10	0	0.169	1.148	0.057	0.126	0.079		17.4		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	-0.03	680.50	136200	DFT-s-OFDM	0.0	25.0	24.39	90	49	Right	10	0	0.169	1.178	0.058	0.126	0.079		17.1		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	-0.03	680.50	136200	DFT-s-OFDM	0.0	25.0	24.49	1	94	Left	10	0	0.169	1.148	0.064	0.141	0.088		16.9		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	-0.03	680.50	136200	DFT-s-OFDM	0.0	25.0	24.39	90	49	Left	10	0	0.161	1.178	0.077	0.167	0.104		16.1		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)		averaged over 1 gram							
Uncontrolled Exposure/General Population																											

Table 12-60

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dn [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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pinnt [dBm]	Overall Pinnt [dBm]	EFS Pinnt [dBm]
Body-worn/Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.12	680.50	136200	DFT-s-OFDM	0.0	25.0	24.07	1	186	Back	10	0.453	1.239	0.514	0.914	0.571		27.6		
Body-worn/Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.12	680.50	136200	DFT-s-OFDM	0.0	25.0	23.84	90	49	Back	10	0.468	1.276	0.559	0.904	0.621	A47	27.5		
Body-worn/Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.03	680.50	136200	CP-OFDM	1.5	23.5	22.26	1	1	Back	10	0.368	1.349	0.362	0.808	0.588		27.0		
Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.03	680.50	136200	DFT-s-OFDM	0.0	25.0	24.39	90	49	Front	10	0.169	1.178	0.079	0.129	0.080		16.9		
Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.11	680.50	136200	DFT-s-OFDM	0.0	25.0	24.39	90	49	Front	10	0.169	1.276	0.365	0.806	0.629	26.1	27.5	27.5	
Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.07	680.50	136200	DFT-s-OFDM	0.0	25.0	24.07	1	186	Top	10	0.169	1.239	0.384	0.383	0.427		28.2		
Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.07	680.50	136200	DFT-s-OFDM	0.0	25.0	24.07	1	186	Right	10	0.169	1.276	0.427	0.427	0.467		28.2		
Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.06	680.50	136200	DFT-s-OFDM	0.4	25.4	24.47	1	186	Right	10	0.138	1.239	0.394	0.701	0.438		28.0		
Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.03	680.50	136200	DFT-s-OFDM	0.0	25.0	23.94	90	49	Right	10	0.163	1.276	0.425	0.756	0.473		28.7		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)		averaged over 1 gram						
Uncontrolled Exposure/General Population																										

12.18 NR Band n12 Standalone SAR

Table 12-61

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dn [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Time state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pinnt [dBm]	Overall Pinnt [dBm]	EFS Pinnt [dBm]
Head	NR Band n12	15	QPSK	A	1252M	1:1	-0.09	707.50	141500	DFT-s-OFDM	0.0	25.3	24.71	1	1	Right Cheek	0	1	0.158	1.146	0.124	0.161	0.101		34.3		
Head	NR Band n12	15	QPSK	A	1252M	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.3	24.48	36	22	Right Cheek	0	1	0.156	1.208	0.118	0.128	0.108		34.1		
Head	NR Band n12	15	QPSK	A	1252M	1:1	-0.03	707.50	141500	CP-OFDM	0.0	25.3	24.71	1	1	Right Cheek	0	1	0.161	1.064	0.091	0.146	0.110		34.1		
Head	NR Band n12	15	QPSK	A	1288M	1:1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.3	24.71	1	1	Right TH	0	1	0.169	1.146	0.014	0.134	0.084		30.9		
Head	NR Band n12	15	QPSK	A	1288M	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	25.3	24.48	36	22	Right TH	0	0	0.163	1.208	0.018	0.108	0.058		40.8		
Head	NR Band n12	15	QPSK	A	1252M	1:1	-0.09	707.50	141500	DFT-s-OFDM	0.0	25.3	24.71	1	1	Left Cheek	0	0	0.166	1.146	0.047	0.183	0.114		36.1		
Head	NR Band n12	15	QPSK	A	1288M	1:1	-0.12	707.50	141500	DFT-s-OFDM	0.0	25.3	24.48	36	22	Left Cheek	0	0	0.162	1.208	0.011	0.197	0.123		18.2		
Head	NR Band n12	15	QPSK	A	1252M	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.3	24.71	1	1	Left TH	0	0	0.169	1.064	0.064	0.164	0.102		41.2		
Head	NR Band n12	15	QPSK	A	1288M	1:1	0.16	707.50	141500	DFT-s-OFDM	0.0	25.3	24.46	36	22	Left TH	0	0	0.163	1.208	0.028	0.108	0.068		40.8		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																		Head									
Spatial Peak																		1.6 W/kg (mW/g)									
Unlicensed Exposure: General Population																		averaged over 1 g/m									



Table 12-64

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pin# [dBm]	Overall Pin# [dBm]	EPS Pin# [dBm]
Body-worn/Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.11	707.50	141500	DFT-s-OFDM	0.0	25.3	24.37	1	40	Back	10	0.347	1.239	0.430	0.888	0.524		28.9		
Body-worn/Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.09	707.50	141500	DFT-s-OFDM	0.0	25.3	24.38	36	22	Back	10	0.357	1.294	0.462	0.901	0.563		28.6		
Body-worn/Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.01	707.50	141500	CP-OFDM	1.5	25.8	22.65	1	1	Back	10	0.256	1.315	0.377	0.907	0.579		28.5		
Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	25.3	24.37	1	40	Front	10	0.300	1.239	0.372	0.725	0.453		29.1		
Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.04	707.50	141500	DFT-s-OFDM	0.0	25.3	24.38	36	22	Front	10	0.295	1.294	0.382	0.784	0.465		29.4		
Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.02	707.50	141500	SB-T-OFDM	0.0	25.3	24.37	1	40	Top	10	0.246	1.239	0.345	0.594	0.371		30.4	28.5	28.2
Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	25.3	24.38	36	22	Top	10	0.288	1.294	0.295	0.595	0.393		30.6		
Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.36	707.50	141500	DFT-s-OFDM	0.0	25.3	24.37	1	40	Right	10	0.265	1.239	0.366	0.712	0.445		29.6		
Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	25.3	24.38	36	22	Right	10	0.287	1.294	0.384	0.789	0.468		29.4		
ANSI/IEEE C63.19-2 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g) averaged over 1 gram						
Spatial Peak																		Head		1.6 W/kg (mW/g) averaged over 1 gram						
Uncontrolled Exposure/General Population																										

12.19 NR Band n14 Standalone SAR

Table 12-65

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pin# [dBm]	Overall Pin# [dBm]	EPS Pin# [dBm]
Head	NR Band n14	10	QPSK	A	1288M	1:1	-0.00	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	1	26	Right Cheek	0	0	0.551	1.169	0.062	0.516	0.323		37.0		
Head	NR Band n14	10	QPSK	A	1288M	1:1	-0.03	793.00	158000	DFT-s-OFDM	0.0	25.0	24.31	25	14	Right Cheek	0	0	0.551	1.194	0.063	0.526	0.329		36.9		
Head	NR Band n14	10	QPSK	A	1288M	1:1	-0.15	793.00	158000	CP-OFDM	1.5	25.5	22.76	1	1	Right Cheek	0	0	0.551	1.186	0.039	0.460	0.288		37.5		
Head	NR Band n14	10	QPSK	A	1288M	1:1	-0.09	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	1	26	Right Tilt	0	0	0.550	1.169	0.023	0.195	0.122		41.3		
Head	NR Band n14	10	QPSK	A	1288M	1:1	-0.04	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	25	14	Right Tilt	0	0	0.550	1.194	0.023	0.189	0.118		41.4		
Head	NR Band n14	10	QPSK	A	1288M	1:1	-0.02	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	1	26	Left Cheek	0	0	0.550	1.169	0.030	0.263	0.158		40.1		
Head	NR Band n14	10	QPSK	A	1288M	1:1	-0.02	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	25	14	Left Cheek	0	0	0.550	1.194	0.031	0.264	0.160		40.0		
Head	NR Band n14	10	QPSK	A	1288M	1:1	-0.12	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	1	26	Left Tilt	0	0	0.550	1.169	0.019	0.125	0.088		42.7		
Head	NR Band n14	10	QPSK	A	1288M	1:1	-0.12	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	25	14	Left Tilt	0	0	0.550	1.194	0.019	0.139	0.099		42.1		
ANSI/IEEE C63.19-2 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak																											
Uncontrolled Exposure/General Population																											

Table 12-66

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pin# [dBm]	Overall Pin# [dBm]	RF Pin# [dBm]
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.05	793.00	158000	DFT-s-OFDM	0.0	22.0	20.55	1	26	Right Cheek	0	0.571	1.396	0.797	0.797	0.498		22.5		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.02	793.00	158000	DFT-s-OFDM	0.0	22.0	20.44	25	0	Right Cheek	0	0.567	1.432	0.812	0.812	0.508		22.0		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.03	793.00	158000	DFT-s-OFDM	0.0	22.0	20.40	50	0	Right Cheek	0	0.567	1.445	0.819	0.819	0.512		22.8		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.08	793.00	158000	DFT-s-OFDM	0.0	22.0	20.55	1	26	Right Tilt	0	0.571	1.396	0.727	0.727	0.454		23.1		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.02	793.00	158000	DFT-s-OFDM	0.0	22.0	20.44	25	0	Right Tilt	0	0.568	1.432	0.699	0.699	0.437		23.5		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.02	793.00	158000	DFT-s-OFDM	0.0	22.0	20.55	1	26	Left Cheek	0	0.568	1.396	0.916	0.916	0.588		22.1		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.01	793.00	158000	DFT-s-OFDM	0.0	22.0	20.44	25	0	Left Cheek	0	0.568	1.432	1.011	1.011	0.637		23.4		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.05	793.00	158000	DFT-s-OFDM	0.0	22.0	20.40	50	0	Left Cheek	0	0.570	1.445	1.040	1.040	0.650		23.8		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.02	793.00	158000	DFT-s-OFDM	0.0	22.0	20.55	1	26	Left Tilt	0	0.568	1.396	0.912	0.912	0.570		23.4		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.08	793.00	158000	DFT-s-OFDM	0.0	22.0	20.44	25	0	Left Tilt	0	0.562	1.432	0.934	0.934	0.584		22.2		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.08	793.00	158000	DFT-s-OFDM	0.0	22.0	20.40	50	0	Left Tilt	0	0.727	1.445	1.051	1.051	0.657	ASD	21.7		21.0
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.02	793.00	158000	CP-OFDM	0.0	22.0	20.55	1	1	Left Tilt	0	0.566	1.409	0.995	0.995	0.622		22.6		
ANSI/IEEE C63.19-2 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g) averaged over 1 gram						
Spatial Peak																										
Uncontrolled Exposure/General Population																										

Table 12-67

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pin# [dBm]	Overall Pin# [dBm]	RFs Pin# [dBm]
Body-worn/Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.09	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	1	26	Back	10	33	0.590	1.169	0.057	0.134	0.084		37.4		
Body-worn/Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.04	793.00	158000	DFT-s-OFDM	0.0	25.0	24.33	25	14	Back	10	33	0.598	1.194	0.057	0.134	0.084		37.4		
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.08	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	1	26	Front	10	33	0.590	1.169	0.104	0.244	0.153		34.8		
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.02	793.00	158000	DFT-s-OFDM	0.0	25.0	24.31	25	14	Front	10	33	0.598	1.194	0.087	0.252	0.158		34.8		
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.07	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	1	26	Bottom	10	1	0.588	1.169	0.044	0.104	0.065		38.1		
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.08	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	1	26	Bottom	10	1	0.598	1.194	0.045	0.105	0.066		38.4		
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.17	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	1	26	Right	10	1	0.588	1.169	0.126	0.246	0.165		38.5		
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.03	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	25	14	Right	10	1	0.598	1.194	0.127	0.267	0.186		35.9		
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.14	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	1	26	Left	10	1	0.598	1.194	0.070	0.165	0.103		36.8		
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.00	793.00	158000	DFT-s-OFDM	0.0	25.0	24.32	25	14	Left	10	1	0.598	1.194	0.073	0.171	0.107		36.1		
Unintentional Exposure: General Population																											
Spatial Peak (Assumed CW, 100% duty cycle)																											
																				1.6 W/kg (mW/g) averaged over 10 cm							
Body																											

Table 12-70

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dens [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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n26	20	QPSK	E	1255M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	22.0	20.83	1	1	Right Cheek	0	0.600	1.489	0.883	0.883	0.533		22.0		
Head	NR Band n26	20	QPSK	E	1255M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	22.0	20.28	50	28	Right Cheek	0	0.586	1.486	0.871	0.871	0.544		22.0		
Head	NR Band n26	20	QPSK	E	1255M	1:1	-0.10	831.50	166300	DFT-s-OFDM	0.0	22.0	20.11	300	0	Right Cheek	0	0.574	1.530	0.867	0.867	0.543		22.0		
Head	NR Band n26	20	QPSK	E	1255M	1:1	0.13	831.50	166300	DFT-s-OFDM	0.0	22.0	20.33	1	1	Right Tilt	0	0.582	1.469	0.855	0.855	0.534		22.0		
Head	NR Band n26	20	QPSK	E	1255M	1:1	0.05	831.50	166300	DFT-s-OFDM	0.0	22.0	20.28	50	28	Right Tilt	0	0.567	1.486	0.845	0.845	0.527		22.0		
Head	NR Band n26	20	QPSK	E	1255M	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	22.0	20.21	300	0	Right Tilt	0	0.568	1.530	0.850	0.850	0.531		22.0		
Head	NR Band n26	20	QPSK	E	1255M	1:1	0.50	831.50	166300	DFT-s-OFDM	0.0	22.0	20.33	1	1	Left Cheek	0	0.740	1.469	1.052	1.052	0.558		21.7	21.0	
Head	NR Band n26	20	QPSK	E	1255M	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	22.0	20.28	50	28	Left Cheek	0	0.565	1.465	0.909	0.909	0.423		22.0		
Head	NR Band n26	20	QPSK	E	1255M	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	22.0	20.21	300	0	Left Cheek	0	0.572	1.530	0.850	0.850	0.531	A53	21.4		
Head	NR Band n26	20	QPSK	E	1255M	1:1	-0.06	831.50	166300	CP-OFDM	0.0	22.0	20.28	1	1	Left Cheek	0	0.740	1.486	1.100	1.100	0.688		21.5		
Head	NR Band n26	20	QPSK	E	1255M	1:1	-0.00	831.50	166300	DFT-s-OFDM	0.0	22.0	20.13	1	1	Left Tilt	0	0.645	1.469	0.948	0.948	0.593		22.0		
Head	NR Band n26	20	QPSK	E	1255M	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	22.0	20.28	50	28	Left Tilt	0	0.641	1.486	0.953	0.953	0.596		22.0		
Head	NR Band n26	20	QPSK	E	1255M	1:1	-0.14	831.50	166300	DFT-s-OFDM	0.0	22.0	20.21	300	0	Left Tilt	0	0.604	1.530	0.848	0.848	0.505		21.7		
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.	Serial Number	Duty Cycle	Power Dens [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body worn/Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.0	24.00	1	104	Back	10	0	0.295	1.259	0.371	0.676	0.423		29.3		
Body worn/Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	25.0	23.95	50	28	Back	10	0	0.286	1.274	0.364	0.663	0.416		29.3		
Body worn/Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.04	831.50	166300	CP-OFDM	0.0	25.0	23.95	1	1	Back	10	0	0.440	1.247	0.591	0.724	0.446		29.3		
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.08	831.50	166300	DFT-s-OFDM	0.0	25.0	24.00	1	104	Front	10	1	0.508	1.259	0.979	0.137	0.083		36.1		
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.17	831.50	166300	DFT-s-OFDM	0.0	25.0	23.95	50	28	Front	10	1	0.500	1.274	0.976	0.139	0.087		36.1		
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.18	831.50	166300	DFT-s-OFDM	0.0	25.0	24.00	1	104	Bottom	10	1	0.621	1.259	0.929	0.053	0.033		40.3		
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.12	831.50	166300	DFT-s-OFDM	0.0	25.0	23.95	50	28	Bottom	10	1	0.623	1.274	0.929	0.053	0.033		40.3		
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.06	831.50	166300	DFT-s-OFDM	0.0	25.0	24.00	1	104	Right	10	1	0.603	1.259	0.979	0.144	0.095		36.0		
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.10	831.50	166300	DFT-s-OFDM	0.0	25.0	23.95	50	28	Right	10	1	0.605	1.274	0.988	0.155	0.097		35.6		
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	24.00	1	104	Left	10	1	0.581	1.259	0.964	0.117	0.073		36.0		
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.06	831.50	166300	DFT-s-OFDM	0.0	25.0	23.95	50	28	Left	10	1	0.584	1.274	0.960	0.125	0.078		36.0		
ANSI C63.1 1992 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Table 12-72

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dens [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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	FRS Plimit [dBm]
Body worn/Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.0	23.56	1	104	Back	10	0.580	1.393	0.738	0.888	0.555		26.3		
Body worn/Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	23.53	50	28	Back	10	0.530	1.403	0.814	0.978	0.611	A53	25.8		
Body worn/Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	25.0	23.53	100	0	Back	10	0.640	1.390	0.801	0.966	0.578		26.3		
Body worn/Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	0.00	831.50	166300	CP-OFDM	1.5	28.5	27.07	1	1	Back	10	0.985	1.390	0.537	0.811	0.589		26.2		
Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	-0.11	831.50	166300	DFT-s-OFDM	0.0	25.0	23.56	1	104	Front	10	0.483	1.393	0.670	0.806	0.504		26.3		
Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	-0.09	831.50	166300	DFT-s-OFDM	0.0	25.0	23.53	50	28	Front	10	0.528	1.403	0.743	0.891	0.557		26.3		
Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	25.0	23.56	1	104	Top	10	0.538	1.393	0.645	0.549	0.343		28.4		
Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	25.0	23.56	50	28	Top	10	0.569	1.403	0.768	0.617	0.373		28.4		
Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	23.53	1	104	Right	10	0.577	1.393	0.525	0.631	0.384		27.7		
Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	25.0	23.53	50	28	Right	10	0.444	1.403	0.623	0.749	0.468		27.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body 1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak Uncontrolled Exposure/General Population																										

12.21 NR Band n70 Standalone SAR

Table 12-73

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dens [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]		
Head	NR Band n70	15	QPSK	A	1266M	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.46	1	77	Right Cheek	0	55	0.260	1.132	0.078	0.220	0.138		35.0				
Head	NR Band n70	15	QPSK	A	1266M	1:1	0.18	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.44	36	22	Right Cheek	0	55	0.905	1.132	0.072	0.204	0.128		35.4				
Head	NR Band n70	15	QPSK	A	1266M	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.46	1	77	Right Tilt	0	55	0.651	1.132	0.058	0.163	0.102		36.1				
Head	NR Band n70	15	QPSK	E	1266M	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.54	36	22	Right Tilt	0	55	0.925	1.112	0.027	0.160	0.100		36.4				
Head	NR Band n70	15	QPSK	A	1266M	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.46	1	77	Left Cheek	0	55	0.129	1.132	0.157	0.444	0.278		32.0				
Head	NR Band n70	15	QPSK	E	1266M	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.44	36	22	Left Cheek	0	55	0.143	1.112	0.148	0.417	0.261		32.3				
Head	NR Band n70	15	QPSK	E	1266M	1:1	-0.04	1702.50	340500	CP-OFDM	1.5	27.5	22.11	1	1	Left Cheek	0	55	0.985	1.094	0.100	0.396	0.248		32.6				
Head	NR Band n70	15	QPSK	A	1247M	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.46	1	77	Left Tilt	0	11	0.950	1.132	0.057	0.160	0.100		36.4				
Head	NR Band n70	15	QPSK	A	1247M	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.44	36	22	Left Tilt	0	11	0.952	1.112	0.058	0.163	0.102		36.3				
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																				Head									
Spatial Peak																				1.6 W/kg (mW/g)					averaged over 1 gram				
Uncontrolled Exposure/General Population																													

Table 12-75

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body worn/Hotspot	NR Band n70	15	QPSK	A	1269M	1:1	-0.13	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.35	1	77	Back	10	55	0.400	1.189	0.409	0.409	0.312	A55	23.0		
Body worn/Hotspot	NR Band n70	15	QPSK	A	1269M	1:1	-0.11	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.35	36	0	Back	10	55	0.400	1.175	0.470	0.470	0.298	A56	23.2		
Hotspot	NR Band n70	15	QPSK	A	1263M	1:1	-0.07	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.35	1	77	Front	10	55	0.250	1.188	0.273	0.273	0.173		25.6		
Hotspot	NR Band n70	15	QPSK	A	1263M	1:1	0.04	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.30	36	0	Front	10	55	0.250	1.175	0.247	0.247	0.154		26.0		
Hotspot	NR Band n70	15	QPSK	A	1269M	1:1	-0.05	1702.50	345000	CP-OFDM	0.0	20.0	19.35	1	77	Bottom	10	55	0.259	1.188	0.250	0.250	0.094	A56	20.2		
Hotspot	NR Band n70	15	QPSK	A	1269M	1:1	-0.05	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.30	36	0	Bottom	10	55	0.259	1.175	0.277	0.277	0.148		20.5		
Hotspot	NR Band n70	15	QPSK	A	1269M	1:1	0.01	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.25	75	0	Bottom	10	55	0.294	1.184	0.236	0.236	0.085		20.2		
Hotspot	NR Band n70	15	QPSK	A	1269M	1:1	-0.01	1702.50	345000	CP-OFDM	0.0	20.0	19.35	1	1	Bottom	10	55	0.298	1.161	0.857	0.857	0.136		20.6		
Hotspot	NR Band n70	15	QPSK	A	1263M	1:1	-0.01	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.35	1	77	Right	10	55	0.026	1.189	0.031	0.031	0.009		35.1		
Hotspot	NR Band n70	15	QPSK	A	1263M	1:1	0.15	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.30	36	0	Right	10	55	0.031	1.175	0.025	0.025	0.006		36.0		
Hotspot	NR Band n70	15	QPSK	A	1263M	1:1	-0.01	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.35	1	77	Left	10	55	0.068	1.189	0.081	0.081	0.051		30.9		
Hotspot	NR Band n70	15	QPSK	A	1263M	1:1	-0.01	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.30	36	0	Left	10	55	0.069	1.175	0.081	0.081	0.051		30.9		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																				Body		1.6 W/kg (mW/kg)		averaged over 1 gram			
Spatial Peak																				Body		1.6 W/kg (mW/kg)		averaged over 1 gram			
Uncontrolled Exposure/General Population																				Body		1.6 W/kg (mW/kg)		averaged over 1 gram			

Table 12-76

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body worn/Hotspot	NR Band n70	15	QPSK	F	1243M	1:1	0.00	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.39	1	40	Back	10	55	0.224	1.151	0.209	0.209	0.168		25.6		
Body worn/Hotspot	NR Band n70	15	QPSK	F	1243M	1:1	-0.02	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.29	36	22	Back	10	55	0.248	1.178	0.292	0.292	0.183		25.3		
Hotspot	NR Band n70	15	QPSK	F	1243M	1:1	0.00	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.39	1	40	Front	10	55	0.230	1.151	0.206	0.206	0.161		25.1		
Hotspot	NR Band n70	15	QPSK	F	1243M	1:1	-0.04	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.29	36	22	Front	10	55	0.272	1.178	0.320	0.320	0.200		24.6		
Hotspot	NR Band n70	15	QPSK	F	1243M	1:1	-0.01	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.39	1	40	Top	10	55	0.470	1.151	0.541	0.541	0.338		22.0		
Hotspot	NR Band n70	15	QPSK	F	1243M	1:1	-0.11	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.29	36	22	Top	10	55	0.476	1.178	0.561	0.561	0.351		23.5		
Hotspot	NR Band n70	15	QPSK	F	1263M	1:1	0.03	1702.50	345000	CP-OFDM	0.0	20.0	19.44	1	1	Top	10	55	0.464	1.138	0.528	0.528	0.330		22.2		
Hotspot	NR Band n70	15	QPSK	F	1243M	1:1	-0.01	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.39	1	40	Left	10	55	0.148	1.151	0.170	0.170	0.089		27.6		
Hotspot	NR Band n70	15	QPSK	F	1243M	1:1	0.02	1702.50	345000	DFT-s-OFDM	0.0	20.0	19.29	36	22	Left	10	55	0.155	1.178	0.178	0.178	0.115		27.5		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																				Body		1.6 W/kg (mW/kg)		averaged over 1 gram			
Spatial Peak																				Body		1.6 W/kg (mW/kg)		averaged over 1 gram			
Uncontrolled Exposure/General Population																				Body		1.6 W/kg (mW/kg)		averaged over 1 gram			

12.22 NR Band n66 Standalone SAR

Table 12-77

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n66	45	QPSK	A	1269M	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.62	1	1	Right Cheek	0	11	0.069	1.225	0.109	0.109	0.113		34.1		
Head	NR Band n66	45	QPSK	A	1269M	1:1	-0.11	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.39	120	61	Right Cheek	0	11	0.099	1.321	0.131	0.131	0.127		33.3		
Head	NR Band n66	45	QPSK	A	1269M	1:1	0.04	1745.00	349000	CP-OFDM	0.0	24.5	23.62	1	1	Right Tilt	0	11	0.090	1.225	0.086	0.086	0.082		35.1		
Head	NR Band n66	45	QPSK	A	1269M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.62	120	61	Right Tilt	0	11	0.094	1.225	0.086	0.086	0.082		35.1		
Head	NR Band n66	45	QPSK	A	1269M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.62	1	1	Left Cheek	0	11	0.094	1.225	0.075	0.075	0.074		30.1		
Head	NR Band n66	45	QPSK	A	1269M	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.39	120	61	Left Cheek	0	11	0.095	1.321	0.071	0.071	0.065		30.3		
Head	NR Band n66	45	QPSK	A	1269M	1:1	-0.01	1745.00	349000	CP-OFDM	0.0	24.5	23.39	120	61	Left Cheek	0	11	0.095	1.321	0.075	0.075	0.074		30.3		
Head	NR Band n66	45	QPSK	A	1269M	1:1	-0.10	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.62	1	1	Left Tilt	0	11	0.094	1.225	0.069	0.069	0.071		36.1		
Head	NR Band n70	45	QPSK	A	1243M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.39	120	61	Left Tilt	0	11	0.098	1.321	0.091	0.091	0.094		34.9		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																				Head		1.6 W/kg (mW/kg)		averaged over 1 gram			
Spatial Peak																				Head		1.6 W/kg (mW/kg)		averaged over 1 gram			
Uncontrolled Exposure/General Population																				Head		1.6 W/kg (mW/kg)		averaged over 1 gram			

Table 12-78

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n66	45	QPSK	F	1263M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.26	1	1	Right Cheek	0	0.644	1.178	0.759	0.759	0.474		18.2		
Head	NR Band n66	45	QPSK	F	1263M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.15	120	0	Right Cheek	0	0.637	1.216	0.775	0.775	0.484		18.1		
Head	NR Band n66	45	QPSK	F	1263M	1:1	-0.01	1745.00	349000	CP-OFDM	0.0	17.0	16.30	1	1	Right Cheek	0	0.640	1.175	0.776	0.776	0.485	A57	18.1		
Head	NR Band n66	45	QPSK	F	1263M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.26	1	1	Right Tilt	0	0.694	1.178	0.694	0.694	0.395		23.5		
Head	NR Band n66	45	QPSK	F	1263M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.15	120	0	Right Tilt	0	0.589	1.216	0.709	0.709	0.443		18.4		
Head	NR Band n66	45	QPSK	F	1243M	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.26	1	1	Left Cheek	0	0.548	1.178	0.410	0.410	0.256		20.4		
Head	NR Band n66	45																								
Head	NR Band n66	45	QPSK	F	1243M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.15	120	0	Left Cheek	0	0.539	1.216	0.412	0.412	0.258		20.8		
Head	NR Band n66	45	QPSK	F	1255M	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.26	1	1	Left Tilt	0	0.502	1.278	0.590	0.590	0.369		19.2		
Head	NR Band n66	45	QPSK	F	1255M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.15	120	0	Left Tilt	0	0.495	1.216	0.602	0.602	0.376		19.2		
ANX/IEEE C92.1.2021 - SAFETY LIMIT																				Head						
Special Peak																				2.6 W/kg (mW/g)						
Unlimited Exposure/General Population																				averaged over 1 gram						



12.23 NR Band n25 Standalone SAR

Table 12-81

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (to SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	FFS Pinch [dBm]
Head	NR Band n25	40	QPSK	A	1265M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.77	1	108	Right Cheek	0	0	0.097	1.183	0.115	0.257	0.151	33.9			
Head	NR Band n25	40	QPSK	A	1265M	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.85	108	54	Right Cheek	0	0	0.096	1.216	0.117	0.261	0.153	33.8			
Head	NR Band n25	40	QPSK	A	1265M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.77	1	108	Right TH	0	1	0.095	1.183	0.053	0.119	0.074	37.2			
Head	NR Band n25	40	QPSK	A	1265M	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.85	108	54	Right TH	0	1	0.096	1.216	0.058	0.131	0.086	36.8			
Head	NR Band n25	40	QPSK	A	1265M	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.77	1	108	Left Cheek	0	1	0.166	1.183	0.196	0.440	0.275	31.5	31.4	28.0	
Head	NR Band n25	40	QPSK	A	1265M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.65	108	54	Left Cheek	0	1	0.167	1.216	0.199	0.447	0.279	31.5			
Head	NR Band n25	40	QPSK	A	1265M	1:1	-0.01	1882.50	376500	CP-OFDM	1.5	23.0	22.38	1	1	Left Cheek	0	1	0.124	1.153	0.143	0.452	0.283	31.0			
Head	NR Band n25	40	QPSK	A	1265M	1:1	-0.16	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.77	1	108	Left TH	0	1	0.051	1.183	0.037	0.082	0.051	38.8			
Head	NR Band n25	40	QPSK	A	1265M	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.65	108	54	Left TH	0	1	0.093	1.216	0.040	0.090	0.056	38.4			
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																				Head							
Spatial Peak																				1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																				averaged over 1 gram							

Table 12-82

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EP5 Pinch [dBm]
Head	NR Band n25	40	QPSK	F	1265M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.28	1	108	Right Cheek	0	0.729	1.180	0.800	0.880	0.538		19.6		
Head	NR Band n25	40	QPSK	F	1265M	1:1	-0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.20	108	0	Right Cheek	0	0.729	1.202	0.936	0.936	0.581		19.7		
Head	NR Band n25	40	QPSK	F	1265M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.17	236	0	Right Cheek	0	0.765	1.211	0.926	0.926	0.579		19.3		
Head	NR Band n25	40	QPSK	F	1265M	1:1	-0.00	1882.50	376500	CP-OFDM	0.0	19.0	18.23	1	1	Right Cheek	0	0.821	1.109	0.984	0.984	0.615	A60	19.4		
Head	NR Band n25	40	QPSK	F	1265M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.28	1	108	Right TH	0	0.722	1.180	0.852	0.852	0.533		19.6		
Head	NR Band n25	40	QPSK	F	1265M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.20	108	0	Right TH	0	0.766	1.202	0.921	0.921	0.576		19.3	19.0	18.0
Head	NR Band n25	40	QPSK	F	1265M	1:1	-0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.17	236	0	Right TH	0	0.768	1.211	0.930	0.930	0.581		19.3		
Head	NR Band n25	40	QPSK	F	1265M	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.28	1	108	Left Cheek	0	0.688	1.202	0.552	0.552	0.345		21.5		
Head	NR Band n25	40	QPSK	F	1265M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.20	108	0	Left Cheek	0	0.688	1.202	0.587	0.587	0.367		21.3		
Head	NR Band n25	40	QPSK	F	1265M	1:1	-0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.17	236	0	Left Cheek	0	0.768	1.211	0.930	0.930	0.581		20.3		
Head	NR Band n25	40	QPSK	F	1265M	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.20	108	0	Left TH	0	0.683	1.202	0.761	0.761	0.476		20.1		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																			Head							
Spatial Peak																			1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																			averaged over 1 gram							

Table 12-83

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Pinch [dBm]	Overall Pinch [dBm]	FFS Pinch [dBm]
Body-worn/Hotspot	NR Band n25	40	QPSK	A	1265M	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.10	1	108	Back	10	0	0.305	1.230	0.375	0.375	0.236	23.2	19.4	18.0	
Body-worn/Hotspot	NR Band n25	40	QPSK	F	1265M	1:1	-0.12	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.09	108	54	Back	10	0	0.325	1.233	0.401	0.401	0.251	A61			22.9
Hotspot	NR Band n25	40	QPSK	A	1265M	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.10	1	108	Front	10	0	0.420	1.230	0.528	0.528	0.330	21.7			
Hotspot	NR Band n25	40	QPSK	F	1265M	1:1	-0.12	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.09	108	54	Front	10	0	0.454	1.233	0.560	0.560	0.350	21.5			
Hotspot	NR Band n25	40	QPSK	A	1265M	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.10	1	108	Bottom	10	0	0.391	1.230	0.490	0.490	0.310	19.7			
Hotspot	NR Band n25	40	QPSK	F	1265M	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.09	108	54	Bottom	10	0	0.426	1.233	0.507	0.507	0.307	19.7			
Hotspot	NR Band n25	40	QPSK	A	1265M	1:1	-0.10	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.01	236	0	Bottom	10	0	0.722	1.180	0.902	0.902	0.531	19.4			
Hotspot	NR Band n25	40	QPSK	A	1265M	1:1	-0.11	1882.50	376500	CP-OFDM	0.0	19.0	18.24	1	1	Bottom	10	0	0.696	1.191	0.829	0.829	0.518	19.8			
Hotspot	NR Band n25	40	QPSK	A	1265M	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.10	1	108	Right	10	0	0.404	1.230	0.504	0.504	0.304	21.6			
Hotspot	NR Band n25	40	QPSK	F	1265M	1:1	-0.08	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.09	108	54	Right	10	0	0.468	1.233	0.564	0.564	0.345	21.5			
Hotspot	NR Band n25	40	QPSK	A	1265M	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.10	1	108	Left	10	0	0.401	1.230	0.503	0.503	0.303	21.7			
Hotspot	NR Band n25	40	QPSK	A	1265M	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.09	108	54	Left	10	0	0.407	1.233	0.508	0.508	0.308	21.3			
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																				Body							
Spatial Peak																				1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																				averaged over 1 gram							

Table 12-84

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Pinch [dBm]	Overall Pinch [dBm]	FFS Pinch [dBm]
Body-worn/Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.31	1	108	Back	10	0.255	1.172	0.299	0.299	0.187		26.2		
Body-worn/Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.26	108	54	Back	10	0.261	1.189	0.310	0.310	0.194		26.0		
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.31	1	108	Front	10	0.246	1.172	0.277	0.277	0.171		26.3		
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.25	108	54	Front	10	0.246	1.189	0.292	0.292	0.183		26.1		
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.31	1	108	Top	10	0.259	1.172	0.280	0.280	0.156		21.5		
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	-0.00	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.28	108	54		10	0.259	1.189	0.305	0.305	0.154		21.2		
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.34	216	0	Top	10	0.143	1.193	0.677	0.677	0.024		21.1		
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	21.0	20.31	1	108	Left	10	0.153	1.189	0.367	0.367	0.016	A62	20.9		
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.31	1	108	Left	10	0.143	1.172	0.168	0.168	0.105		28.7		
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.26	108	54	Left	10	0.148	1.189	0.173	0.173	0.107		28.6		
ANDE/EN61319-1/2014 SAFETY LIMIT																										
Spot Power																										
Uncontrolled Exposure/General Population																										
1.6 W/kg (mW/g)																										
averaged over 1 gram																										



Table 12-86

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	P1mit [dBm]	Overall P1mit [dBm]	EPS P1mit [dBm]
Head	NR Band n30	50	QPSK	F	1278M	1:1	-0.19	2310.00	462000	DFT-s-OFDM	0.0	17.5	16.33	1	50	Right Cheek	0	0.679	1.250	0.849	0.849	0.531		18.7		
Head	NR Band n30	50	QPSK	F	1278M	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	17.5	16.41	25	14	Right Cheek	0	0.721	1.285	0.926	0.926	0.579		17.8		
Head	NR Band n30	50	QPSK	F	1278M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	17.5	16.32	50	0	Right Cheek	0	0.749	1.312	0.932	0.932	0.576		17.8		
Head	NR Band n30	50	QPSK	F	1278M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	17.5	16.33	1	50	Right Tilt	0	0.733	1.250	0.935	0.935	0.572	A63	17.6		
Head	NR Band n30	50	QPSK	F	1278M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	17.5	16.41	25	14	Right Tilt	0	0.713	1.285	0.926	0.926	0.575		17.8		
Head	NR Band n30	50	QPSK	F	1278M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	17.5	16.32	50	0	Right Tilt	0	0.711	1.312	0.933	0.933	0.583		17.8		
Head	NR Band n30	50	QPSK	F	1278M	1:1	-0.01	2310.00	462000	CP-OFDM	0.0	17.5	16.30	1	1	Right Tilt	0	0.686	1.338	0.927	0.927	0.573		17.6		
Head	NR Band n30	50	QPSK	F	1278M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	17.5	16.33	1	50	Left Cheek	0	0.400	1.250	0.500	0.500	0.313		20.5		
Head	NR Band n30	50	QPSK	F	1278M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	17.5	16.43	25	14	Left Cheek	0	0.397	1.285	0.510	0.520	0.319		20.4		
Head	NR Band n30	50	QPSK	F	1278M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	17.5	16.33	1	50	Left Tilt	0	0.511	1.250	0.609	0.609	0.389		19.4		
Head	NR Band n30	50	QPSK	F	1278M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	17.5	16.41	25	14	Left Tilt	0	0.513	1.285	0.609	0.609	0.412		19.3		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT														Head												
Spatial Peak														1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population														averaged over 1 gram												

Table 12-87

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	P1mit [dBm]	Overall P1mit [dBm]	EPS P1mit [dBm]
Body worn/Hotspot	NR Band n30	50	QPSK	A	1285M	1:1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.36	1	1	Back	10	0.230	1.186	0.249	0.249	0.156	A64	26.0		
Body worn/Hotspot	NR Band n30	50	QPSK	A	1285M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.22	25	0	Back	10	0.230	1.197	0.251	0.251	0.157		25.9		
Hotspot	NR Band n30	50	QPSK	A	1285M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.36	1	1	Front	10	0.145	1.186	0.219	0.219	0.117		26.1		
Hotspot	NR Band n30	50	QPSK	A	1285M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.22	25	0	Front	10	0.139	1.197	0.190	0.190	0.119		27.2		
Hotspot	NR Band n30	50	QPSK	A	1285M	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.26	1	1	Bottom	10	0.148	1.186	0.179	0.179	0.102	A65	22.8		
Hotspot	NR Band n30	50	QPSK	A	1285M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.23	25	0	Bottom	10	0.140	1.197	0.176	0.176	0.102		22.8		
Hotspot	NR Band n30	50	QPSK	A	1285M	1:1	-0.01	2310.00	462000	CP-OFDM	0.0	20.0	19.29	1	1	Bottom	10	0.140	1.178	0.168	0.168	0.105		22.4		
Hotspot	NR Band n30	50	QPSK	A	1285M	1:1	-0.10	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.26	1	1	Right	10	0.086	1.186	0.102	0.102	0.064		29.0		
Hotspot	NR Band n30	50	QPSK	A	1285M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.23	25	0	Right	10	0.085	1.197	0.102	0.102	0.064		29.0		
Hotspot	NR Band n30	50	QPSK	A	1285M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.26	1	1	Left	10	0.072	1.186	0.085	0.085	0.053		30.6		
Hotspot	NR Band n30	50	QPSK	A	1285M	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.22	25	0	Left	10	0.073	1.197	0.087	0.087	0.054		30.5		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT														Body												
Spatial Peak														1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population														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 #	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	P1mit [dBm]	Overall P1mit [dBm]	EPS P1mit [dBm]
Body worn/Hotspot	NR Band n30	50	QPSK	F	1285M	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.89	1	50	Back	10	0.205	1.233	0.253	0.253	0.158		24.9		
Body worn/Hotspot	NR Band n30	50	QPSK	F	1285M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.93	25	27	Back	10	0.206	1.279	0.267	0.267	0.162		24.7		
Hotspot	NR Band n30	50	QPSK	F	1285M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.99	1	50	Front	10	0.187	1.233	0.231	0.231	0.144		25.3		
Hotspot	NR Band n30	50	QPSK	F	1285M	1:1	-0.11	2310.00	462000	DFT-s-OFDM	0.0	19.0	17.93	25	27	Front	10	0.185	1.279	0.237	0.237	0.148		25.2		
Hotspot	NR Band n30	50	QPSK	F	1285M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.99	1	50	Top	10	0.146	1.233	0.195	0.195	0.125		26.5		
Hotspot	NR Band n30	50	QPSK	F	1285M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	19.0	17.83	25	27	Top	10	0.138	1.279	0.173	0.173	0.120		27.0		
Hotspot	NR Band n30	50	QPSK	F	1285M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	19.0	17.83	25	27	Top	10	0.138	1.279	0.173	0.173	0.120		27.0		
Hotspot	NR Band n30	50	QPSK	F	1285M	1:1	-0.01	2310.00	462000	CP-OFDM	0.0	19.0	17.86	1	50	Left	10	0.112	1.233	0.179	0.179	0.116		31.0		
Hotspot	NR Band n30	50	QPSK	F	1285M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	19.0	17.89	1	50	Left	10	0.090	1.233	0.137	0.137	0.093		33.1		
Hotspot	NR Band n30	50	QPSK	F	1285M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	19.0	17.83	25	27	Left	10	0.091	1.279	0.140	0.140	0.095		33.0		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT														Body												
Spatial Peak														1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population														averaged over 1 gram												

12.25 NR Band n7 Standalone SAR

Table 12-89

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	P1mit [dBm]	Overall P1mit [dBm]	EPS P1mit [dBm]
Head	NR Band n7	50	QPSK	B	1278M	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	24.0	23.35	1	268	Right Cheek	0	0.055	1.161	0.041	0.100	0.110		37.5		
Head	NR Band n7	50	QPSK	B	1278M	1:1	-0.13	2535.00	507000	DFT-s-OFDM	0.0	24.0	23.38	135	68	Right Cheek	0	0.041	1.180	0.048	0.226	0.141		37.1		
Head	NR Band n7	50	QPSK	B	1278M	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	24.0	23.35	1	268	Right Tilt	0	0.037	1.161	0.043	0.201	0.126		37.6		
Head	NR Band n7	50	QPSK	B	1278M	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	24.0	23.28	135	68	Right Tilt	0	0.049	1.180	0.055	0.209	0.132		36.5		
Head	NR Band n7	50	QPSK	B	1278M	1:1	0.20	2535.00	507000	DFT-s-OFDM	0.0	24.0	23.35	1	268	Left Cheek	0	0.064	1.161	0.074	0.348	0.218		35.2		
Head	NR Band n7	50	QPSK	B	1278M	1:1	-0.01	2535.00	507000	CP-OFDM	0.0	24.0	23.36	135	68	Left Cheek	0	0.079	1.200	0.079	0.308	0.146		35.0		
Head	NR Band n7	50	QPSK	B	1278M	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.5	25.5	24.85	1	1	Left Cheek	0							34.2		30.7
Head	NR Band n7	50	QPSK	B	1278M	1:1	-0.01	2535.00	507000	CP-OFDM	0.5	25.5	24.88	1	1	Left Cheek	0							34.2		30.7
Head	NR Band n7	50	QPSK	B	1278M	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	24.0	23.35	1	268	Left Tilt	0	0.021	1.161	0.024	0.141	0.071		40.1		
Head	NR Band n7	50	QPSK	B	1278M	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	24.0	23.28	135	68	Left Tilt	0	0.030	1.180	0.035	0.166	0.104		38.5		
ANNOUEE CEE 1992 - SAFETY LIMIT																										
Spot Power												1.6 W/kg (mW/g)														
Uncontrolled Frequency General Population												averaged over 1 gram														

Table 12-92

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n7	50	QPSK	F	1278M	1:1	-0.15	2535.00	507000	DFT+OFDM	0.0	18.0	17.21	1	1	Back	30	0.200	1.199	0.240	0.240	0.150	A67	24.1		
Body-worn/Hotspot	NR Band n7	50	QPSK	F	1278M	1:1	0.09	2535.00	507000	DFT+OFDM	0.0	18.0	17.24	135	135	Back	30	0.182	1.191	0.217	0.217	0.136		24.0		
Hotspot	NR Band n7	50	QPSK	F	1278M	1:1	-0.04	2535.00	507000	DFT+OFDM	0.0	18.0	17.21	1	1	Front	30	0.196	1.199	0.177	0.177	0.079		26.5		
Hotspot	NR Band n7	50	QPSK	F	1278M	1:1	-0.07	2535.00	507000	DFT+OFDM	0.0	18.0	17.28	135	135	Front	30	0.104	1.191	0.124	0.124	0.038		27.0		
Hotspot	NR Band n7	50	QPSK	F	1278M	1:1	-0.08	2535.00	507000	DFT+OFDM	0.0	18.0	17.21	1	1	Top	30	0.189	1.199	0.459	0.459	0.287	A69	21.3	21.3	17.0
Hotspot	NR Band n7	50	QPSK	F	1278M	1:1	-0.05	2535.00	507000	DFT+OFDM	0.0	18.0	17.24	135	135	Top	30	0.180	1.191	0.453	0.453	0.283		21.4		
Hotspot	NR Band n7	50	QPSK	F	1278M	1:1	-0.04	2535.00	507000	CP-OFDM	0.0	18.0	17.28	1	1	Top	30	0.180	1.175	0.447	0.447	0.275		21.5		
Hotspot	NR Band n7	50	QPSK	F	1278M	1:1	-0.12	2535.00	507000	DFT+OFDM	0.0	18.0	17.21	1	1	Left	30	0.045	1.199	0.054	0.054	0.034		30.0		
Hotspot	NR Band n7	50	QPSK	F	1278M	1:1	0.02	2535.00	507000	DFT+OFDM	0.0	18.0	17.24	135	135	Left	30	0.049	1.191	0.058	0.058	0.036		30.1		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body		1.5 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak																		Head		1.6 W/kg (mW/g)		averaged over 1 gram				
Uncontrolled Exposure/General Population																										

12.26 NR Band n41 Standalone SAR

Table 12-93

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n41	100	B	1	1294M	1:1	0.12	2592.99	518598	CW/SRS	18.5	18.19	Right Cheek	0	0.002	1.074	0.002	0.002	0.001		45.1		
Head	NR Band n41	100	B	1	1294M	1:1	-0.10	2592.99	518598	CW/SRS	18.5	18.19	Right Tilt	0	0.001	1.074	0.001	0.001	0.001		48.1		
Head	NR Band n41	100	B	1	1294M	1:1	-0.19	2592.99	518598	CW/SRS	18.5	18.19	Left Cheek	0	0.021	1.074	0.023	0.023	0.014		34.9		17.5
Head	NR Band n41	100	B	1	1294M	1:1	0.06	2592.99	518598	CW/SRS	18.5	18.19	Left Tilt	0	0.001	1.074	0.001	0.001	0.001		48.1		
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

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plim [dBm]	Overall Plim [dBm]	1g Plim [dBm]
Head	NR Band n41	100	QPSK	B	2	1298M	1:1	-0.11	2592.99	518598	DFT+OFDM	0.0	25.0	25.00	1	1	Right Cheek	0	0.051	1.000	0.051	0.051	0.032		37.9		
Head	NR Band n41	100	QPSK	B	2	1298M	1:1	0.01	2592.99	518598	DFT+OFDM	0.0	25.0	24.92	135	0	Right Cheek	0	0.057	1.019	0.038	0.038	0.024		39.3		
Head	NR Band n41	100	QPSK	B	2	1298M	1:1	-0.08	2592.99	518598	DFT+OFDM	0.0	25.0	24.90	1	1	Right Tilt	0	0.046	1.000	0.046	0.046	0.020		38.3		
Head	NR Band n41	100	QPSK	B	2	1298M	1:1	0.01	2592.99	518598	DFT+OFDM	0.0	25.0	24.92	135	0	Right Tilt	0	0.051	1.019	0.031	0.031	0.020		40.0		
Head	NR Band n41	100	QPSK	B	2	1298M	1:1	0.02	2592.99	518598	DFT+OFDM	0.0	25.0	24.90	1	1	Left Cheek	0	0.046	1.000	0.041	0.041	0.020		39.3		
Head	NR Band n41	100	QPSK	B	2	1298M	1:1	-0.05	2592.99	518598	DFT+OFDM	0.0	25.0	24.90	135	0	Left Cheek	0	0.051	1.019	0.073	0.073	0.046		36.3	35.5	
Head	NR Band n41	100	QPSK	B	2	1298M	1:1	0.12	2592.99	518598	CP-OFDM	0.0	25.0	24.94	1	1	Left Cheek	0	0.046	1.023	0.068	0.068	0.020		35.1		
Head	NR Band n41	100	QPSK	B	2	1298M	1:1	-0.09	2592.99	518598	DFT+OFDM	0.0	25.0	24.90	1	1	Left Tilt	0	0.050	1.000	0.035	0.035	0.022		39.5		
Head	NR Band n41	100	QPSK	B	2	1298M	1:1	-0.14	2592.99	518598	DFT+OFDM	0.0	25.0	24.90	135	0	Left Tilt	0	0.029	1.019	0.030	0.030	0.019		40.2		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g)		averaged over 1 gram					
Uncontrolled Exposure/General Population																											

Table 12-95

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n41	100	D	1	1294M	1:1	0.06	2592.99	518598	CW/SRS	15.0	14.54	Right Cheek	0	0.000	1.112	0.000	0.000	0.000		54.5		
Head	NR Band n41	100	D	1	1294M	1:1	0.08	2592.99	518598	CW/SRS	15.0	14.54	Right Tilt	0	0.000	1.112	0.000	0.000	0.000		54.5		
Head	NR Band n41	100	D	1	1294M	1:1	0.01	2592.99	518598	CW/SRS	15.0	14.54	Left Cheek	0	0.000	1.112	0.000	0.000	0.000		54.5	54.5	14.0
Head	NR Band n41	100	D	1	1294M	1:1	0.04	2592.99	518598	CW/SRS	15.0	14.54	Left Tilt	0	0.000	1.112	0.000	0.000	0.000		54.5		
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 12-96

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n41	100	E	1	1294M	1:1	0.03	2592.99	518598	CW/SRS	17.0	16.73	Right Cheek	0	0.304	1.064	0.323	0.323	0.202		21.9		
Head	NR Band n41	100	E	1	1294M	1:1	0.05	2592.99	518598	CW/SRS	17.0	16.73	Right Tilt	0	0.292	1.064	0.311	0.311	0.194		22.0		
Head	NR Band n41	100	E	1	1294M	1:1	-0.16	2592.99	518598	CW/SRS	17.0	16.73	Left Cheek	0	0.589	1.064	0.620	0.620	0.388	A69	19.0		16.0
Head	NR Band n41	100	E	1	1294M	1:1	0.05	2592.99	518598	CW/SRS	17.0	16.73	Left Tilt	0	0.513	1.064	0.567	0.567	0.354		19.4		
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 12-98

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	B	1	1294M	1:1	0.05	2592.99	518598	CW/SRS	20.0	19.72	Back	10	0.200	1.067	0.213	0.213	0.133		26.7		
Hotspot	NR Band n41	100	B	1	1294M	1:1	-0.20	2592.99	518598	CW/SRS	20.0	19.72	Front	10	0.156	1.067	0.166	0.166	0.104		27.7		
Hotspot	NR Band n41	100	B	1	1294M	1:1	-0.11	2592.99	518598	CW/SRS	20.0	19.72	Bottom	10	0.197	1.067	0.200	0.200	0.125		27.0	25.4	19.0
Hotspot	NR Band n41	100	B	1	1294M	1:1	-0.09	2592.99	518598	CW/SRS	20.0	19.72	Left	10	0.266	1.067	0.284	0.284	0.178	A70	25.4		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak Uncontrolled Exposure/General Population																							

Table 12-99

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	1298M	1:1	-0.07	2592.99	518598	QFT+QOFDM	0.0	21.0	10.86	1	1	Back	10	0.220	1.033	0.232	0.232	0.145	A71	27.3		
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	1298M	1:1	0.02	2592.99	518598	QFT+QOFDM	0.0	21.0	10.82	135	0	Back	10	0.250	1.042	0.220	0.220	0.135		27.7		
Hotspot	NR Band n41	100	QPSK	B	1	1298M	1:1	0.00	2592.99	518598	QFT+QOFDM	0.0	21.0	10.86	1	1	Front	10	0.252	1.033	0.157	0.157	0.098		26.9		
Hotspot	NR Band n41	100	QPSK	B	2	1298M	1:1	-0.03	2592.99	518598	QFT+QOFDM	0.0	21.0	10.82	135	0	Front	10	0.195	1.042	0.151	0.151	0.094		27.4		
Hotspot	NR Band n41	100	QPSK	B	2	1298M	1:1	0.05	2592.99	518598	QFT+QOFDM	0.0	21.0	10.86	1	1	Bottom	10	0.217	1.033	0.224	0.224	0.140		27.4		
Hotspot	NR Band n41	100	QPSK	B	2	1298M	1:1	0.03	2592.99	518598	QFT+QOFDM	0.0	21.0	10.82	135	0	Bottom	10	0.230	1.042	0.240	0.240	0.150		27.2		
Hotspot	NR Band n41	100	QPSK	B	2	1298M	1:1	0.00	2592.99	518598	QFT+QOFDM	0.0	21.0	10.86	1	1	Left	10	0.262	1.033	0.271	0.271	0.169		26.6		
Hotspot	NR Band n41	100	QPSK	B	2	1298M	1:1	0.00	2592.99	518598	QFT+QOFDM	0.0	21.0	10.82	135	0	Left	10	0.241	1.042	0.251	0.251	0.157		26.9		
Hotspot	NR Band n41	100	QPSK	B	2	1298M	1:1	0.04	2592.99	518598	QFT+QOFDM	0.0	21.0	10.77	1	1	Left	10	0.262	1.054	0.276	0.276	0.173		26.5		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body 1.6 W/kg (mW/g) averaged over 1 gram														
Spatial Peak Uncontrolled Exposure/General Population																											

Table 12-100

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	D	1	1294M	1:1	-0.08	2592.99	518598	CW/SRS	16.5	16.01	Back	10	0.082	1.119	0.092	0.092	0.058		26.8		
Hotspot	NR Band n41	100	D	1	1294M	1:1	0.05	2592.99	518598	CW/SRS	16.5	16.01	Front	10	0.098	1.119	0.009	0.009	0.006		36.9		
Hotspot	NR Band n41	100	D	1	1294M	1:1	-0.01	2592.99	518598	CW/SRS	16.5	16.01	Bottom	10	0.071	1.119	0.023	0.023	0.014		32.7	26.8	15.5
Hotspot	NR Band n41	100	D	1	1294M	1:1	0.01	2592.99	518598	CW/SRS	16.5	16.01	Right	10	0.000	1.119	0.000	0.000	0.000		56.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body Spatial Peak Uncontrolled Exposure/General Population										
													1.6 W/kg (mW/g) averaged over 1 gram										

Table 12-101

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	E	1	1294M	1:1	0.06	2592.99	518598	CW/SRS	18.5	18.24	Back	10	0.126	1.062	0.134	0.134	0.084		27.2		
Hotspot	NR Band n41	100	E	1	1294M	1:1	0.03	2592.99	518598	CW/SRS	18.5	18.24	Front	10	0.119	1.062	0.126	0.126	0.079		27.4		17.5
Hotspot	NR Band n41	100	E	1	1294M	1:1	-0.07	2592.99	518598	CW/SRS	18.5	18.24	Top	10	0.115	1.062	0.122	0.122	0.076		27.6		
Hotspot	NR Band n41	100	E	1	1294M	1:1	-0.05	2592.99	518598	CW/SRS	18.5	18.24	Right	10	0.104	1.062	0.110	0.110	0.069		28.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body Spatial Peak Uncontrolled Exposure/General Population 1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-102

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path #	Serial Number	Duty Cycle	Power [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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	0.03	2592.99	518598	QFT+QOFDM	0.0	17.5	17.42	1	1	Back	10	0.139	1.019	0.142	0.142	0.089		25.9		
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	0.02	2592.99	518598	QFT+QOFDM	0.0	17.5	17.32	135	69	Back	10	0.121	1.042	0.127	0.127	0.079		26.4		
Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	-0.06	2592.99	518598	QFT+QOFDM	0.0	17.5	17.32	135	69	Front	10	0.095	1.019	0.107	0.107	0.067		27.2		
Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	0.08	2592.99	518598	QFT+QOFDM	0.0	17.5	17.32	135	69	Front	10	0.095	1.042	0.099	0.099	0.062		27.5		
Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	0.03	2592.99	518598	QFT+QOFDM	0.0	17.5	17.42	1	1	Top	10	0.249	1.019	0.254	0.254	0.159		23.4	23.1	16.5
Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	-0.06	2592.99	518598	QFT+QOFDM	0.0	17.5	17.32	135	69	Top	10	0.249	1.042	0.153	0.153	0.108		23.4		
Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	0.01	2592.99	518598	CP+QOFDM	0.0	17.5	17.24	1	1	Top	10	0.208	1.062	0.274	0.274	0.171		23.1		
Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	-0.02	2592.99	518598	QFT+QOFDM	0.0	17.5	17.42	1	1	Left	10	0.009	1.019	0.089	0.089	0.019		32.7		
Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	0.00	2592.99	518598	QFT+QOFDM	0.0	17.5	17.32	135	69	Left	10	0.004	1.062	0.011	0.011	0.009		35.4		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body 1.6 W/kg (mW/g) averaged over 1 gram														
Spatial Peak Uncontrolled Exposure/General Population																											

12.27 NR Band n48 Standalone SAR

Table 12-103

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n48	40	C	1298M	1:1	0.05	3679.98	645332	CW/SRS	10.0	9.51	Right Cheek	0	0.000	1.119	0.000	0.000	0.000		49.5		
Head	NR Band n48	40	C	1298M	1:1	0.01	3679.98	645332	CW/SRS	10.0	9.51	Right TIR	0	0.002	1.119	0.002	0.002	0.001		36.4		9.0
Head	NR Band n48	40	C	1298M	1:1	0.08	3679.98	645332	CW/SRS	10.0	9.51	Left Cheek	0	0.009	1.119	0.010	0.010	0.006		29.9		
Head	NR Band n48	40	C	1298M	1:1	0.09	3679.98	645332	CW/SRS	10.0	9.51	Left TIR	0	0.001	1.119	0.001	0.001	0.001		39.5		
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 12-104

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n48	40	D	1298M	1:1	0.03	3624.99	641666	CW/SRS	8.5	8.29	Right Cheek	0	0.000	1.050	0.000	0.000	0.000		48.2		
Head	NR Band n48	40	D	1298M	1:1	0.02	3624.99	641666	CW/SRS	8.5	8.29	Right Tit	0	0.000	1.050	0.000	0.000	0.000		48.2		
Head	NR Band n48	40	D	1298M	1:1	0.06	3624.99	641666	CW/SRS	8.5	8.29	Left Cheek	0	0.000	1.050	0.000	0.000	0.000		48.2	48.2	7.5
Head	NR Band n48	40	D	1298M	1:1	0.15	3624.99	641666	CW/SRS	8.5	8.29	Left Tit	0	0.000	1.050	0.000	0.000	0.000		48.2		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure / General Population																						
																Head						
																1.6 W/kg (mW/g)						
																measured over 10 minutes						

Table 12-105

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.23	1	104	Right Cheek	0	0.182	1.194	0.695	0.695	0.434		16.5		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.08	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.51	1	1	Right Cheek	0	0.170	1.119	0.638	0.638	0.399		16.5		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.45	1	104	Right Cheek	0	0.183	1.135	0.692	0.692	0.433		16.5		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.18	50	28	Right Cheek	0	0.181	1.208	0.714	0.714	0.446		16.4		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.34	50	28	Right Cheek	0	0.182	1.117	0.675	0.675	0.391		17.0		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.46	50	36	Right Cheek	0	0.177	1.133	0.688	0.688	0.436	A73	16.5		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.47	100	0	Right Cheek	0	0.184	1.130	0.626	0.626	0.391		17.0		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	CP-OFDM	0.0	15.0	14.49	1	1	Right Cheek	0	0.186	1.125	0.629	0.629	0.390		16.5		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.23	1	104	Right TIR	0	0.182	1.194	0.671	0.671	0.419		16.7		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.51	1	1	Right TIR	0	0.184	1.119	0.631	0.631	0.394		16.5		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.45	1	104	Right TIR	0	0.183	1.135	0.681	0.681	0.426		16.6		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.18	50	28	Right TIR	0	0.187	1.208	0.721	0.721	0.451		16.4		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.02	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.54	50	28	Right TIR	0	0.182	1.112	0.614	0.614	0.384		17.1		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.46	50	36	Right TIR	0	0.186	1.132	0.686	0.686	0.429		16.6		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.47	100	0	Right TIR	0	0.183	1.130	0.625	0.625	0.391		17.0		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.05	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.51	1	1	Left Cheek	0	0.177	1.119	0.196	0.196	0.124		22.0		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.54	50	28	Left Cheek	0	0.182	1.132	0.186	0.186	0.116		23.1		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.51	1	1	Left TIR	0	0.189	1.119	0.323	0.323	0.202		19.9		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.54	50	28	Left TIR	0	0.185	1.112	0.317	0.317	0.198		19.9		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-106

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	NR Band n48	40	I	1298M	1:1	-0.03	3624.99	641666	CW/SRS	13.0	12.49	Right Cheek	0	0.390	1.125	0.439	0.439	0.274		16.5		
Head	NR Band n48	40	I	1298M	1:1	0.05	3624.99	641666	CW/SRS	13.0	12.49	Right TIR	0	0.026	1.125	0.029	0.029	0.018		28.3		
Head	NR Band n48	40	I	1298M	1:1	-0.03	3624.99	641666	CW/SRS	13.0	12.49	Left Cheek	0	0.328	1.125	0.369	0.369	0.221		17.3		
Head	NR Band n48	40	I	1298M	1:1	0.00	3624.99	641666	CW/SRS	13.0	12.49	Left TIR	0	0.026	1.125	0.029	0.029	0.018		28.3		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-107

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]	
Body-worn/Hotspot	NR Band n48	40	C	1298M	1:1	0.03	3624.99	641666	CW/SRS	14.0	13.27	Back	10	0.062	1.183	0.073	0.073	0.046		25.3			
Hotspot	NR Band n48	40	C	1298M	1:1	0.21	3624.99	641666	CW/SRS	14.0	13.27	Front	10	0.095	1.183	0.044	0.044	0.026		27.8			
Hotspot	NR Band n48	40	C	1298M	1:1	0.01	3624.99	641666	CW/SRS	14.0	13.27	Bottom	10	0.039	1.183	0.038	0.038	0.024		28.2		23.0	
Hotspot	NR Band n48	40	C	1298M	1:1	-0.01	3624.99	641666	CW/SRS	14.0	13.27	Left	10	0.106	1.183	0.125	0.125	0.078		23.0		13.0	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		Body					
Spatial Peak																		1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 1 gram					

Table 12-108

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]				
Body-worn/Hotspot	NR Band n48	40	D	1298M	1:1	-0.10	3624.99	641666	CW/SRS	12.5	12.05	Back	10	0.143	1.109	0.159	0.159	0.099		20.4						
Hotspot	NR Band n48	40	D	1298M	1:1	0.02	3624.99	641666	CW/SRS	12.5	12.05	Front	10	0.010	1.109	0.011	0.011	0.007		32.0						
Hotspot	NR Band n48	40	D	1298M	1:1	0.07	3624.99	641666	CW/SRS	12.5	12.05	Bottom	10	0.025	1.109	0.028	0.028	0.018		28.0						
Hotspot	NR Band n48	40	D	1298M	1:1	0.09	3624.99	641666	CW/SRS	12.5	12.05	Right	10	0.007	1.109	0.008	0.008	0.005		33.5						
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-109

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body-worn/Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.11	3624.99	641666	DFT-s-OFDM	0.0	19.0	18.26	1	1	Back	10	0.263	1.189	0.311	0.311	0.196	A73	24.0		
Body-worn/Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	19.0	18.28	50	28	Back	10	0.263	1.180	0.110	0.110	0.180		24.0		
Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	19.0	18.25	1	1	Front	10	0.213	1.189	0.233	0.233	0.158		24.0		
Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	19.0	18.28	50	28	Front	10	0.211	1.180	0.249	0.249	0.156		23.0		
Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	19.0	18.28	1	1	Top	10	0.446	1.189	0.449	0.449	0.360	A74	22.1		
Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	19.0	18.28	50	28	Top	10	0.295	1.180	0.451	0.451	0.288		22.1		
Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	CP-OFDM	0.0	19.0	18.23	1	1	Top	10	0.402	1.194	0.489	0.489	0.300		22.2		
Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	19.0	18.25	1	1	Left	10	0.068	1.189	0.061	0.061	0.051		28.5		
Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	19.0	18.26	50	28	Left	10	0.068	1.180	0.080	0.080	0.050		28.0		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-110

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body-worn/Hotspot	NR Band n48	40	I	1298M	1:1	-0.02	3624.99	641666	CW/SRS	17.0	16.26	Back	10	0.133	1.186	0.158	0.158	0.099		25.0		
Hotspot	NR Band n48	40	I	1298M	1:1	0.01	3624.99	641666	CW/SRS	17.0	16.26	Front	10	0.134	1.186	0.159	0.159	0.099		24.9		16.0
Hotspot	NR Band n48	40	I	1298M	1:1	-0.10	3624.99	641666	CW/SRS	17.0	16.26	Top	10	0.034	1.186	0.037	0.037	0.011		24.7		
Hotspot	NR Band n48	40	I	1298M	1:1	0.07	3624.99	641666	CW/SRS	17.0	16.26	Left	10	0.061	1.186	0.072	0.072	0.045		28.4		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body								
Spatial Peak														1.6 W/kg [W/kg]								
Uncontrolled Exposure/General Population														averaged over 1 gram								

12.28 NR Band n77 Standalone SAR

Table 12-111

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	P10t #	P10limt [dBm]	Overall P10limt [dBm]	EPS P10limt [dBm]
Head	NR Band n77	100	C	1313M	1:1	0.01	3750.00	650000	CW/SRS	11.0	10.87	Right Cheek	0	0.000	1.030	0.000	0.000	0.000		50.8		
Head	NR Band n77	100	C	1313M	1:1	0.03	3750.00	650000	CW/SRS	11.0	10.87	Right Tilt	0	0.005	1.030	0.005	0.005	0.003		33.8		
Head	NR Band n77 DoD	100	C	1313M	1:1	0.02	3500.01	633334	CW/SRS	11.0	10.57	Left Cheek	0	0.000	1.104	0.000	0.000	0.000		50.5		10.0
Head	NR Band n77	100	C	1313M	1:1	0.05	3750.00	650000	CW/SRS	11.0	10.87	Left Cheek	0	0.009	1.030	0.009	0.009	0.006		31.3		
Head	NR Band n77	100	C	1313M	1:1	0.05	3750.00	650000	CW/SRS	11.0	10.87	Left Tilt	0	0.000	1.030	0.000	0.000	0.000		50.8		
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 12-112

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	P10t [dBm]	Overall P10t [dBm]	EPS P10t [dBm]	
Head	NR Band n77	100	D	1313M	1:1	0.07	3750.00	650000	CW/SRS	10.0	9.86	Right Cheek	0	0.000	1.033	0.000	0.000	0.000		49.8	49.4	9.0
Head	NR Band n77	100	D	1313M	1:1	0.04	3750.00	650000	CW/SRS	10.0	9.86	Right Tilt	0	0.000	1.033	0.000	0.000	0.000		49.8		
Head	NR Band n77 DoD	100	D	1313M	1:1	0.08	3500.01	633334	CW/SRS	10.0	9.48	Left Cheek	0	0.000	1.127	0.000	0.000	0.000		49.4		
Head	NR Band n77	100	D	1313M	1:1	0.08	3750.00	650000	CW/SRS	10.0	9.86	Left Cheek	0	0.000	1.033	0.000	0.000	0.000		49.8		
Head	NR Band n77	100	D	1313M	1:1	0.05	3750.00	650000	CW/SRS	10.0	9.86	Left Tilt	0	0.000	1.033	0.000	0.000	0.000		49.8		
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 12-113

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	P10t #	P10limt [dBm]	Overall P10limt [dBm]	EPS P10limt [dBm]
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.70	1	1	Right Cheek	0	0.608	1.072	0.652	0.652	0.408		17.8		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.06	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.36	1	272	Right Cheek	0	0.757	1.159	0.877	0.877	0.548		16.5		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.47	135	0	Right Cheek	0	0.646	1.130	0.720	0.720	0.458		17.1		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.29	135	135	Right Cheek	0	0.744	1.178	0.876	0.876	0.548		16.5		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.38	270	0	Right Cheek	0	0.647	1.153	0.746	0.746	0.466		17.2		
Head	NR Band n77 DoD	100	QPSK	F	1313M	1:1	-0.05	3500.01	633334	DFT-s-OFDM	0.0	16.0	15.32	1	1	Right Tilt	0	0.738	1.169	0.884	0.884	0.540		16.5		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.07	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.70	1	1	Right Tilt	0	0.834	1.072	0.894	0.894	0.539		18.4		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.07	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.36	1	272	Right Tilt	0	0.955	1.159	1.001	1.001	0.488	475	15.1		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.36	1	272	Right Tilt	0	0.955	1.159	1.001	1.001	0.478		15.6		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.47	135	0	Right Tilt	0	0.803	1.130	0.977	0.977	0.611		18.0		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.78	135	135	Right Tilt	0	1.112	1.043	1.178	1.112	1.112	0.005			15.5
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.38	270	0	Right Tilt	0	0.968	1.131	1.047	1.047	0.604		16.7		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.78	270	0	Right Tilt	0	0.968	1.131	1.047	1.047	0.604		16.7		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.01	3750.00	650000	CP-OFDM	0.0	16.0	15.78	1	1	Right Tilt	0	0.895	1.052	0.889	0.889	0.556		16.5		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.70	1	1	Left Cheek	0	0.817	1.072	0.840	0.840	0.513		20.6		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.47	135	0	Left Cheek	0	0.538	1.130	0.808	0.808	0.520		20.3		
Head	NR Band n77	100	QPSK	F	1313M	1:1	-0.15	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.70	1	1	Left Tilt	0	0.988	1.072	0.916	0.916	0.500		19.8		
Head	NR Band n77	100	QPSK	F	1313M	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.36	1	272	Left Tilt	0	0.403	1.159	0.465	0.465	0.291		19.3		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.47	135	0	Left Tilt	0	0.848	1.130	0.440	0.440	0.275		19.3		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.29	135	135	Left Tilt	0	0.818	1.178	0.488	0.488	0.305		19.3		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.38	270	0	Left Tilt	0	0.587	1.153	0.466	0.466	0.279		19.5		
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: Blue entry represents variability measurement

Table 12-114

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	P10t #	P10limt [dBm]	Overall P10limt [dBm]	EPS P10limt [dBm]
Head	NR Band n77 DoD	100	I	1313M	1:1	-0.04	3500.01	633334	CW/SRS	15.0	14.42	Right Cheek	0	0.248	1.143	0.283	0.283	0.177		20.4		
Head	NR Band n77	100	I	1313M	1:1	-0.04	3750.00	650000	CW/SRS	15.0	14.49	Right Cheek	0	0.389	1.125	0.438	0.438	0.274		18.5		
Head	NR Band n77	100	I	1313M	1:1	-0.02	3930.00	660000	CW/SRS	15.0	14.16	Right Cheek	0	0.292	1.213	0.354	0.354	0.221		19.5		
Head	NR Band n77	100	I	1313M	1:1	-0.06	3750.00	650000	CW/SRS	15.0	14.49	Right Tilt	0	0.035	1.125	0.039	0.039	0.024		29.0	18.5	14.0
Head	NR Band n77	100	I	1313M	1:1	0.03	3750.00	650000	CW/SRS	15.0	14.49	Left Cheek	0	0.360	1.125	0.405	0.405	0.253		18.9		
Head	NR Band n77	100	I	1313M	1:1	0.07	3750.00	650000	CW/SRS	15.0	14.49	Left Tilt	0	0.039	1.125	0.044	0.044	0.028		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 12-115

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	P10t #	P10limt [dBm]	Overall P10limt [dBm]	EPS P10limt [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	C	1190M	1:1	0.07	3500.01	633334	CW/SRS	12.0	11.63	Back	10	0.074	1.094	0.081	0.081	0.051		22.9		
Body-worn/Hotspot	NR Band n77	100	C	1190M	1:1	-0.16	3750.00	650000	CW/SRS	12.0	11.83	Back	10	0.095	1.045	0.057	0.057	0.036		24.4		
Hotspot	NR Band n77	100	C	1190M	1:1	-0.15	3750.00	650000	CW/SRS	12.0	11.83	Front	10	0.022	1.045	0.023	0.023	0.014		28.3		
Hotspot	NR Band n77	100	C	1190M	1:1	0.03	3750.00	650000	CW/SRS	12.0	11.83	Bottom	10	0.027	1.045	0.029	0.029	0.018		27.3	22.7	11.0
Hotspot	NR Band n77 DoD	100	C	1190M	1:1	-0.02	3500.01	633334	CW/SRS	12.0	11.63	Left	10	0.057	1.094	0.062	0.062	0.039		24.0		
Hotspot	NR Band n77	100	C	1190M	1:1	-0.17	3750.00	650000	CW/SRS	12.0	11.83	Left	10	0.080	1.045	0.084	0.084	0.053		22.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak															Body							
Uncontrolled Exposure/General Population															1.6 W/kg (1W/kg) averaged over 1 gram							



Table 12-117

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body-worn/Hotspot	NR Band n77 DssD	100	QPSK	F	1190M	1:1	-0.09	3500.01	633334	DFT-s-OFDM	0.0	18.0	17.46	1	1	Back	10	0.081	1.132	0.216	0.216	0.135		24.6		
Body-worn/Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.46	1	1	Back	10	0.296	1.081	0.277	0.277	A76		23.5		
Body-worn/Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.49	135	0	Back	10	0.266	1.099	0.281	0.281	0.176		23.5		
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.66	1	1	Front	10	0.041	1.081	0.261	0.261	0.163		23.8		
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.39	135	0	Front	10	0.043	1.099	0.265	0.265	0.166		23.7		
Hotspot	NR Band n77 DssD	100	QPSK	F	1190M	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	18.0	17.46	1	1	Top	10	0.305	1.132	0.405	0.405	0.251		23.5		
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.65	1	1	Top	10	0.460	1.081	0.433	0.433	0.271		21.6		
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	18.0	17.63	1	1	Top	10	0.341	1.114	0.370	0.370	0.241		23.2		
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.58	135	0	Top	10	0.509	1.099	0.432	0.432	0.270		21.6		
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	18.0	17.57	135	138	Top	10	0.132	1.104	0.367	0.367	0.229		22.3		
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.89	720	0	Top	10	0.340	1.151	0.449	0.449	0.281		21.4		
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	0.00	3750.00	650000	CP-OFDM	0.0	18.0	17.57	1	1	Top	10	0.448	1.104	0.503	0.503	0.14	A77	20.9		
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.66	1	1	Left	10	0.058	1.081	0.061	0.061	0.038		30.1		
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	-0.00	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.49	135	0	Left	10	0.264	1.099	0.259	0.259	0.167		30.7		
ANSI/IEEE C63.1 1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-118

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]				
Body-worn/Hotspot	NR Band n77 DssD	100	I	1190M	1:1	-0.19	3500.01	633334	CW/SRS	16.0	15.40	Back	10	0.101	1.148	0.116	0.116	0.073		25.3						
Body-worn/Hotspot	NR Band n77	100	I	1190M	1:1	0.03	3750.00	650000	CW/SRS	16.0	15.47	Back	10	0.306	1.130	0.120	0.120	0.075		25.2						
Hotspot	NR Band n77	100	I	1190M	1:1	0.09	3750.00	650000	CW/SRS	16.0	15.47	Front	10	0.072	1.130	0.081	0.081	0.051		26.8	25.2	15.0				
Hotspot	NR Band n77	100	I	1190M	1:1	-0.08	3750.00	650000	CW/SRS	16.0	15.47	Left	10	0.077	1.130	0.087	0.087	0.054		26.6						
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

12.29 2.4 GHz WIFI Standalone SAR

Table 12-119

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]		
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	H	1262M	98.90	-0.06	2437.00	6	1	14.0	13.80	Right Cheek	0	0.381	1.319	1.011	0.508	0.508	0.318	A78	16.9				
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	H	1262M	98.90	0.00	2437.00	6	1	14.0	13.80	Right Tib	0	0.160	1.319	1.011	0.221	0.221	0.138		20.5				
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	H	1262M	98.90	0.04	2437.00	6	1	14.0	13.80	Left Tib	0	0.064	1.319	1.011	0.112	0.112	0.070		21.5		13.0		
Hotspot	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	H	1262M	98.90	-0.04	2437.00	6	1	14.0	13.80	Left Tib	0	0.058	1.319	1.011	0.077	0.077	0.048		26.1				
ANSI/IEEE C63.1 1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																					Head 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-120

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Head	2.4 GHz WiFi/ IEEE 802.11b	20	DSSS	J	1262M	98.99	0.01	2437.00	6	1	14.0	13.30	Right Cheek	0	0.190	1.176	1.030	0.226	0.226	0.141		20.4		
Head	2.4 GHz WiFi/ IEEE 802.11b	20	DSSS	J	1262M	98.99	0.05	2437.00	6	1	14.0	13.30	Right Tibi	0	0.025	1.176	1.030	0.030	0.030	0.019		28.2		
Head	2.4 GHz WiFi/ IEEE 802.11b	20	DSSS	J	1262M	98.99	-0.01	2437.00	6	1	14.0	13.30	Left Cheek	0	0.289	1.176	1.030	0.843	0.843	0.234		18.6		
Head	2.4 GHz WiFi/ IEEE 802.11b	20	DSSS	J	1262M	98.99	0.10	2437.00	6	1	14.0	13.30	Left Tibi	0	0.080	1.176	1.030	0.048	0.048	0.030		27.2		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Head									
Spatial Peak															1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population															averaged over 1 gram									

Table 12-121

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 and 3rd) [dBm]	Conducted Power (2nd and 3rd) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	MIMO	1262M	98.02	-0.09	2437.00	6	1	14.0	12.49	14.0	13.24	Right Cheek	0	0.486	1.352	1.032	0.473	0.473	0.296	17.2			
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	MIMO	1262M	98.02	0.00	2437.00	6	1	14.0	12.49	14.0	13.24	Right Tib	0	0.113	1.352	1.032	0.352	0.352	0.099	22.1			
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	MIMO	1262M	98.02	0.02	2437.00	6	1	14.0	12.49	14.0	13.24	Left Cheek	0	0.358	1.352	1.032	0.353	0.353	0.221	18.9			
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	MIMO	1262M	98.02	-0.12	2437.00	6	1	14.0	12.49	14.0	13.24	Left Tib	0	0.040	1.352	1.032	0.062	0.062	0.039	26.1			
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																		Head								
Uncontrolled Exposure/General Population																		Spatial Peak								
																		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 12-122

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body-worn/Hotspot	2.4 GHz WiFi/ IEEE 802.11b	20	DSSS	H	1262M	98.90	-0.04	2437.00	6	1	20.0	19.47	Back	10	0.275	1.130	1.011	0.314	0.321	0.201		25.0		
Hotspot	2.4 GHz WiFi/ IEEE 802.11b	20	DSSS	H	1262M	98.90	0.04	2437.00	6	1	20.0	19.47	Front	10	0.223	1.130	1.011	0.255	0.261	0.165		25.9		
Hotspot	2.4 GHz WiFi/ IEEE 802.11b	20	DSSS	H	1262M	98.90	0.01	2437.00	6	1	20.0	19.47	Top	10	0.201	1.130	1.011	0.230	0.235	0.147		26.3	22.8	
Hotspot	2.4 GHz WiFi/ IEEE 802.11b	20	DSSS	H	1262M	98.90	-0.02	2437.00	6	1	20.0	19.47	Left	10	0.452	1.130	1.011	0.516	0.528	0.330	A79	22.8		20.1
ANSI/IEEE C63.1 1992 - SAFETY LIMIT															Body									
Spatial Peak															Spatial Peak									
Uncontrolled Exposure/General Population															1.6 W/kg (mW/g) averaged over 1 gram									

FCC ID: A3LSMS936U	RF Exposure Part 1 Test Report										Approved by: Technical Manager									
Document S/N: 1M2408260064-23.A3L (Rev 1)	DUT Type: Portable Handset										Page 133 of 157									

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Table 12-123

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pilot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Body-worn/Hotspot	2.4 GHz WFIW / IEEE 802.11b	20	DSSS	J	1262M	98.99	0.00	2437.00	6	1	20.0	19.48	Back	10	0.132	1.127	1.010	0.127	0.413	0.258		28.9		
Hotspot	2.4 GHz WFIW / IEEE 802.11b	20	DSSS	J	1262M	98.99	0.04	2437.00	6	1	20.0	19.48	Front	10	0.173	1.127	1.010	0.197	0.637	0.398		27.0	27.0	25.1
Hotspot	2.4 GHz WFIW / IEEE 802.11b	20	DSSS	J	1262M	98.99	0.01	2437.00	6	1	20.0	19.48	Top	10	0.005	1.127	1.010	0.006	0.018	0.011		42.4		
Hotspot	2.4 GHz WFIW / IEEE 802.11b	20	DSSS	J	1262M	98.99	0.01	2437.00	6	1	20.0	19.48	Right	10	0.054	1.127	1.010	0.061	0.199	0.124		32.1		
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 12-124

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pilot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Body-worn/Hotspot	2.4 GHz WFIW / IEEE 802.11b	20	DSSS	MIMO	1262M	98.92	-0.03	2437.00	6	1	20.0	19.20	Back	10	0.306	1.202	1.032	0.372	0.372	0.233	A80	24.2		
Hotspot	2.4 GHz WFIW / IEEE 802.11b	20	DSSS	MIMO	1262M	98.82	0.01	2437.00	6	1	20.0	19.20	Front	10	0.337	1.202	1.032	0.430	0.430	0.256		23.8	22.6	19.6
Hotspot	2.4 GHz WFIW / IEEE 802.11b	20	DSSS	MIMO	1262M	98.82	0.03	2437.00	6	1	20.0	19.20	Top	10	0.189	1.202	1.032	0.206	0.206	0.129		26.8		
Hotspot	2.4 GHz WFIW / IEEE 802.11b	20	DSSS	MIMO	1262M	98.82	0.02	2437.00	6	1	20.0	19.20	Right	10	0.085	1.202	1.032	0.116	0.116	0.073		29.3		
Hotspot	2.4 GHz WFIW / IEEE 802.11b	20	DSSS	MIMO	1262M	98.82	0.01	2437.00	6	1	20.0	19.20	Left	10	0.447	1.202	1.032	0.544	0.544	0.340		22.6		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																								
Spatial Peak												Body												
Uncontrolled Exposure/General Population												1.6 W/kg (mW/g)												
												averaged over 1 gram												

Note: To achieve the 23 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 23 dBm.

12.30 5 GHz WIFI SISO Standalone SAR

Table 12-125

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power (mW)	Frequency [MHz]	Channel #	U-NI 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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pilot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Head	5 GHz WFIW / IEEE 802.11a	40	OFDM	H	1159M	92.65	0.00	5270.00	54	U-NI-2A	13.5	14.0	13.13	Right Cheek	0	0.435	1.222	1.079	0.600	0.600	0.175	A81	16.2		
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	H	1159M	96.60	0.15	5690.00	138	U-NI-2C	29.3	14.0	12.27	Right Cheek	0	0.403	1.489	1.035	0.621	0.621	0.388		16.0		
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	H	1159M	96.60	-0.10	5775.00	155	U-NI-3	29.3	14.0	12.61	Right Cheek	0	0.409	1.376	1.035	0.582	0.582	0.364		16.3		
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	H	1159M	96.60	-0.06	5855.00	171	U-NI-4	29.3	14.0	13.11	Right Cheek	0	0.394	1.227	1.035	0.500	0.500	0.313		17.0		
Head	5 GHz WFIW / IEEE 802.11a	40	OFDM	H	1159M	92.65	0.00	5270.00	54	U-NI-2A	13.5	14.0	13.13	Right Tilt	0	0.148	1.222	1.035	0.195	0.195	0.127		21.0		
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	H	1159M	96.60	0.09	5690.00	138	U-NI-2C	29.3	14.0	12.27	Right Tilt	0	0.130	1.489	1.035	0.200	0.200	0.125		20.9		
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	H	1159M	96.60	0.03	5775.00	155	U-NI-3	29.3	14.0	12.61	Right Tilt	0	0.134	1.376	1.035	0.191	0.191	0.119		21.1		
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	H	1159M	96.60	0.01	5855.00	171	U-NI-4	29.3	14.0	13.11	Right Tilt	0	0.121	1.227	1.035	0.166	0.166	0.104		21.7		
Head	5 GHz WFIW / IEEE 802.11a	40	OFDM	H	1159M	92.65	0.02	5270.00	54	U-NI-2A	13.5	14.0	13.13	Left Cheek	0	0.050	1.222	1.079	0.066	0.066	0.041		25.8	16.0	13.0
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	H	1159M	96.60	0.07	5690.00	138	U-NI-2C	29.3	14.0	12.27	Left Cheek	0	0.051	1.489	1.035	0.079	0.079	0.049		25.0		
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	H	1159M	96.60	0.05	5775.00	155	U-NI-3	29.3	14.0	12.61	Left Cheek	0	0.052	1.376	1.035	0.086	0.086	0.059		27.4		
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	H	1159M	96.60	0.07	5855.00	171	U-NI-4	29.3	14.0	13.11	Left Cheek	0	0.058	1.227	1.035	0.086	0.086	0.053		26.4		
Head	5 GHz WFIW / IEEE 802.11a	40	OFDM	H	1159M	92.65	0.00	5270.00	54	U-NI-2A	13.5	14.0	13.13	Left Tilt	0	0.049	1.222	1.079	0.065	0.065	0.041		25.8		
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	H	1159M	96.60	0.03	5690.00	138	U-NI-2C	29.3	14.0	12.27	Left Tilt	0	0.055	1.489	1.035	0.085	0.085	0.053		24.7		
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	H	1159M	96.60	0.03	5775.00	155	U-NI-3	29.3	14.0	12.61	Left Tilt	0	0.060	1.376	1.035	0.092	0.092	0.056		26.4		
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	H	1159M	96.60	0.07	5855.00	171	U-NI-4	29.3	14.0	13.11	Left Tilt	0	0.032	1.227	1.035	0.041	0.041	0.026		27.8		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																									
Spatial Peak												Head													
Uncontrolled Exposure/General Population												1.6 W/kg (mW/g)													
												averaged over 1 gram													

Table 12-126

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]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pilot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]		
Head	5 GHz WFIW / IEEE 802.11a	40	OFDM	E	1159M	92.61	-0.01	5310.00	62	U-NI-2A	13.5	14.0	13.23	Right Cheek	0	0.062	1.194	1.080	0.080	0.080	0.050		24.9				
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	E	1159M	96.62	0.04	5690.00	138	U-NI-2C	29.3	14.0	12.35	Right Cheek	0	0.077	1.285	1.035	0.102	0.102	0.064		23.8				
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	E	1159M	96.62	0.03	5775.00	155	U-NI-3	29.3	14.0	12.86	Right Cheek	0	0.078	1.300	1.035	0.105	0.105	0.066		23.7				
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	E	1159M	96.62	0.09	5855.00	171	U-NI-4	29.3	14.0	13.42	Right Cheek	0	0.092	1.219	1.035	0.116	0.116	0.073		23.3				
Head	5 GHz WFIW / IEEE 802.11a	40	OFDM	E	1159M	92.61	0.00	5310.00	62	U-NI-2A	13.5	14.0	13.23	Right Tilt	0	0.060	1.194	1.080	0.077	0.077	0.048		25.1				
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	E	1159M	96.62	0.04	5690.00	138	U-NI-2C	29.3	14.0	12.35	Right Tilt	0	0.061	1.285	1.035	0.081	0.081	0.051		24.9				
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	E	1159M	96.62	0.05	5775.00	155	U-NI-3	29.3	14.0	12.86	Right Tilt	0	0.062	1.300	1.035	0.081	0.081	0.051		24.9				
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	E	1159M	96.62	0.03	5855.00	171	U-NI-4	29.3	14.0	13.42	Right Tilt	0	0.074	1.219	1.035	0.093	0.093	0.058		24.2				
Head	5 GHz WFIW / IEEE 802.11a	40	OFDM	E	1159M	92.61	-0.09	5310.00	62	U-NI-2A	13.5	14.0	13.23	Left Cheek	0	0.081	1.194	1.080	0.104	0.104	0.065		23.8				
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	E	1159M	96.62	0.05	5690.00	138	U-NI-2C	29.3	14.0	12.35	Left Cheek	0	0.075	1.285	1.035	0.100	0.100	0.063		24.0				
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	E	1159M	96.62	0.	5775.00	155	U-NI-3	29.3	14.0	12.86	Left Cheek	0	0.074	1.300	1.035	0.111	0.111	0.071		23.4				
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	E	1159M	96.62	0.09	5855.00	171	U-NI-4	29.3	14.0	13.42	Left Cheek	0	0.079	1.219	1.035	0.120	0.120	0.063		24.0				
Head	5 GHz WFIW / IEEE 802.11a	40	OFDM	E	1159M	92.61	0.01	5310.00	62	U-NI-2A	13.5	14.0	13.23	Left Tilt	0	0.049	1.194	1.080	0.063	0.063	0.039		25.9				
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	E	1159M	96.62	0.09	5690.00	138	U-NI-2C	29.3	14.0	12.35	Left Tilt	0	0.061	1.285	1.035	0.109	0.109	0.068		23.6				
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	E	1159M	96.62	0.03	5855.00	171	U-NI-4	29.3	14.0	13.42	Left Tilt	0	0.076	1.219	1.035	0.108	0.108	0.068		23.4				
Head	5 GHz WFIW / IEEE 802.11a	80	OFDM	E	1159M	96.62	0.02	5855.00	171	U-NI-4	29.3	14.0	13.42	Left Tilt	0	0.074	1.219	1.035	0.099	0.099	0.058		24.2				
ANSI/IEEE C63.19-2 SAFETY LIMIT																Head											
Uncontrolled/General Population																Spatial Peak		1.4 W/kg (mW/g)									
																averaged over 1 gram											

Table 12-129

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]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	P1mit [dBm]	Overall P1mit [dBm]	EPS P1mit [dBm]
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.11	5280.00	56	U-NI-2A	6	17.0	16.69	Back	0	0.636	1.074	1.035	0.707	0.707	0.177		22.4		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.16	5720.00	144	U-NI-2C	6	17.0	16.69	Back	0	0.829	1.074	1.035	0.922	0.922	0.231		21.3		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.00	5845.00	169	U-NI-4	6	17.0	16.69	Back	0	0.810	1.026	1.035	0.860	0.860	0.215		21.6		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.03	5280.00	56	U-NI-2A	6	17.0	16.69	Front	0	0.806	1.074	1.035	0.886	0.886	0.234		21.4		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.01	5720.00	144	U-NI-2C	6	17.0	16.69	Front	0	0.813	1.074	1.035	0.904	0.904	0.226		21.4		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.03	5845.00	169	U-NI-4	6	17.0	16.69	Front	0	0.798	1.026	1.035	0.847	0.847	0.212		21.6		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.05	5280.00	56	U-NI-2A	6	17.0	16.69	Top	0	0.951	1.074	1.035	0.979	0.979	0.251		20.5		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.02	5720.00	144	U-NI-2C	6	17.0	16.69	Top	0	0.788	1.074	1.035	0.920	0.920	0.200		25.9		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.11	5845.00	169	U-NI-4	6	17.0	16.69	Top	0	0.765	1.026	1.035	0.822	0.822	0.071		26.4	17.1	16.0
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.03	5280.00	56	U-NI-2A	6	17.0	16.69	Left	0	1.290	1.074	1.035	1.245	1.245	0.388		19.0		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.03	5500.00	100	U-NI-2C	6	17.0	16.51	Left	0	1.180	1.130	1.035	1.000	1.000	0.400		18.9		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.06	5620.00	124	U-NI-2C	6	17.0	16.91	Left	0	1.690	1.171	1.035	2.048	2.048	0.512		17.8		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.06	5720.00	144	U-NI-2C	6	17.0	16.69	Left	0	2.080	1.074	1.035	2.112	2.112	0.578		17.1		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.05	5720.00	144	U-NI-2C	6	17.0	16.69	Left	0	2.080	1.074	1.035	2.098	2.098	0.563		17.4		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.01	5845.00	169	U-NI-4	6	17.0	16.89	Left	0	2.240	1.026	1.035	2.379	2.379	0.595		17.2		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.03	5805.00	173	U-NI-4	6	17.0	16.88	Left	0	2.280	1.028	1.035	2.426	2.426	0.607		17.1		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	H	1159MA	96.60	-0.04	5885.00	177	U-NI-4	6	17.0	16.89	Left	0	2.290	1.026	1.035	2.326	2.326	0.582		17.3		
AND/IEEE C96.1 D12 - SAFETY LIMIT																								Phablet	
Spatial Peak																								4.0 W/kg (mW/g)	
Uncontrolled Exposure/General Population																								averaged over 10 grams	

Note: Blue entry represents variability measurement

Table 12-130

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]	Test Position	Spacing [mm]	Measured 2g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 2g SAR [W/kg]	Exposure Ratio (2g SAR)	Plot #	P1mit [dBm]	Overall P1mit [dBm]	EPS P1mit [dBm]
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	E	1159MA	96.62	0.00	5300.00	60	U-NI-2A	6	17.0	16.94	Back	0	0.934	1.035	1.035	0.981	0.981	0.245		21.0		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	E	1159MA	96.62	-0.01	5720.00	144	U-NI-2C	6	17.0	16.98	Back	0	0.903	1.005	1.035	0.939	0.939	0.235		21.2		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	E	1159MA	96.62	-0.03	5885.00	177	U-NI-4	6	17.0	16.72	Back	0	0.915	1.067	1.035	1.010	1.010	0.253		20.9		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	E	1159MA	96.62	-0.01	5300.00	60	U-NI-2A	6	17.0	16.94	Front	0	0.759	1.035	1.035	0.772	0.772	0.068		26.6		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	E	1159MA	96.62	-0.17	5720.00	144	U-NI-2C	6	17.0	16.98	Front	0	0.714	1.005	1.035	0.723	0.723	0.056		27.5		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	E	1159MA	96.62	-0.03	5885.00	177	U-NI-4	6	17.0	16.72	Front	0	0.733	1.067	1.035	0.777	0.777	0.089		26.3		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	E	1159MA	96.62	-0.03	5300.00	60	U-NI-2A	6	17.0	16.94	Top	0	0.911	1.035	1.035	0.927	0.927	0.082		25.8		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	E	1159MA	96.62	-0.12	5720.00	144	U-NI-2C	6	17.0	16.98	Top	0	0.940	1.005	1.035	0.954	0.954	0.089		25.4		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	E	1159MA	96.62	-0.04	5885.00	177	U-NI-4	6	17.0	16.72	Top	0	0.942	1.067	1.035	0.957	0.957	0.114		24.4		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	E	1159MA	96.62	-0.05	5300.00	60	U-NI-2A	6	17.0	16.94	Right	0	0.040	1.035	1.035	0.042	0.042	0.011		34.7		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	E	1159MA	96.62	-0.12	5720.00	144	U-NI-2C	6	17.0	16.98	Right	0	0.109	1.005	1.035	0.113	0.113	0.028		30.4		
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	E	1159MA	96.62	-0.03	5885.00	177	U-NI-4	6	17.0	16.72	Right	0	0.077	1.067	1.035	0.085	0.085	0.021		31.6		
AND/IEEE C96.1 D12 - SAFETY LIMIT																Phablet									
Spatial Peak																4.0 W/kg (mW/g)									
Uncontrolled Exposure/General Population																averaged over 10 grams									

Table 12-131

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1mit [dBm]	Overall P1mit [dBm]	EPS P1mit [dBm]						
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	92.79	-0.03	5270.00	54	U-NI-2A	27	14.0	13.22	14.0	13.36	Right Cheek	0	0.286	1.242	1.078	0.381	0.381	0.739		18.1								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	96.68	-0.03	5690.00	138	U-NI-2C	58.5	14.0	13.22	14.0	13.38	Right Cheek	0	0.356	1.107	1.034	0.555	0.555	0.347		16.5								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	96.68	-0.09	5770.00	155	U-NI-3	58.5	14.0	13.31	14.0	13.40	Right Cheek	0	0.419	1.476	1.034	0.431	0.431	0.775		17.6								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	96.68	-0.07	5850.00	171	U-NI-4	58.5	14.0	13.29	14.0	13.27	Right Cheek	0	0.288	1.103	1.034	0.393	0.393	0.246		18.0								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	92.79	-0.11	5270.00	54	U-NI-2A	27	14.0	13.22	14.0	13.36	Right Tib	0	0.119	1.242	1.078	0.168	0.168	0.125		21.8								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	96.68	-0.02	5690.00	138	U-NI-2C	58.5	14.0	13.22	14.0	13.38	Right Tib	0	0.108	1.107	1.034	0.170	0.170	0.108		21.6								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	96.68	-0.04	5770.00	155	U-NI-3	58.5	14.0	13.31	14.0	13.40	Right Tib	0	0.139	1.476	1.034	0.211	0.211	0.112		20.7								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	96.68	-0.06	5850.00	171	U-NI-4	58.5	14.0	13.29	14.0	13.27	Right Tib	0	0.173	1.103	1.034	0.233	0.233	0.146		20.1								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	92.79	-0.05	5270.00	54	U-NI-2A	27	14.0	13.22	14.0	13.36	Left Cheek	0	0.077	1.242	1.078	0.103	0.103	0.064		23.5								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	96.68	-0.02	5690.00	138	U-NI-2C	58.5	14.0	13.22	14.0	13.38	Left Cheek	0	0.111	1.107	1.034	0.168	0.168	0.105		21.7								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	96.68	-0.07	5770.00	155	U-NI-3	58.5	14.0	13.31	14.0	13.40	Left Cheek	0	0.087	1.476	1.034	0.133	0.133	0.083		22.7								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	96.68	-0.07	5850.00	171	U-NI-4	58.5	14.0	13.29	14.0	13.27	Left Cheek	0	0.124	1.103	1.034	0.169	0.169	0.106		21.7								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	96.68	-0.04	5690.00	138	U-NI-2C	58.5	14.0	13.22	14.0	13.38	Left Tib	0	0.080	1.242	1.078	0.108	0.108	0.068		23.6								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	96.68	-0.15	5690.00	138	U-NI-2C	58.5	14.0	13.22	14.0	13.38	Left Tib	0	0.073	1.107	1.034	0.114	0.114	0.075		23.4								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	96.68	-0.12	5770.00	155	U-NI-3	58.5	14.0	13.31	14.0	13.40	Left Tib	0	0.092	1.476	1.034	0.140	0.140	0.088		22.5								
Head	5 GHz WIF/ IEEE 802.11a	40	OFDM	MIMO	1159MA	96.68	-0.04	5850.00	171	U-NI-4	58.5	14.0	13.29	14.0	13.27	Left Tib	0	0.086	1.103	1.034	0.117	0.117	0.073		23.3								
AND/IEEE C96.1002 - SAFETY LIMIT																		Head															
Uncontrolled Exposure / General Population																		Uncontrolled Exposure / General Population								1.6 W/kg (mW/g) averaged over 5 years							

Table 12-133

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.08	5280.00	56	U-NI-2A	13	17.0	16.89	17.0	16.76	Back	0	0.881	1.057	1.034	0.974	0.974	0.744	21.0			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.05	5720.00	144	U-NI-2C	13	17.0	16.70	17.0	16.38	Back	0	1.089	1.072	1.034	1.142	1.142	0.786	20.4			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.02	5885.00	177	U-NI-4	13	17.0	16.33	17.0	16.73	Back	0	0.847	1.057	1.034	1.022	1.022	0.796	20.8			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.06	5280.00	56	U-NI-2B	13	17.0	16.89	17.0	16.76	Front	0	0.849	1.057	1.034	0.928	0.928	0.722	21.3			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.02	5720.00	144	U-NI-2C	13	17.0	16.89	17.0	16.38	Front	0	0.785	1.057	1.034	0.940	0.940	0.722	21.3			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.05	5885.00	177	U-NI-4	13	17.0	16.33	17.0	16.73	Front	0	0.735	1.267	1.034	0.888	0.888	0.722	21.4			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.06	5280.00	56	U-NI-2B	13	17.0	16.89	17.0	16.76	Top	0	0.930	1.057	1.034	0.983	0.983	0.696	25.1			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.11	5720.00	144	U-NI-2C	13	17.0	16.70	17.0	16.38	Top	0	0.855	1.072	1.034	0.948	0.948	0.722	24.5			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.05	5885.00	177	U-NI-4	13	17.0	16.33	17.0	16.73	Top	0	0.848	1.267	1.034	0.930	0.930	0.745	23.3			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.17	5280.00	56	U-NI-2B	13	17.0	16.89	17.0	16.76	Right	0	0.052	1.057	1.034	0.057	0.057	0.024	33.4			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.16	5280.00	144	U-NI-2C	13	17.0	16.70	17.0	16.38	Right	0	0.121	1.072	1.034	0.134	0.134	0.091	29.7			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.02	5885.00	177	U-NI-4	13	17.0	16.33	17.0	16.73	Right	0	0.078	1.267	1.034	0.094	0.094	0.024	31.2			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.00	5280.00	56	U-NI-2A	13	17.0	16.89	17.0	16.76	Left	0	1.170	1.057	1.034	1.497	1.497	0.134	19.2			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.05	5000.00	100	U-NI-2C	13	17.0	16.60	17.0	16.36	Left	0	1.080	1.086	1.034	1.451	1.451	0.303	19.1			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.04	5600.00	120	U-NI-2C	13	17.0	16.43	17.0	16.74	Left	0	1.030	1.140	1.034	1.780	1.780	0.445	18.4			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.09	5280.00	144	U-NI-2C	13	17.0	16.70	17.0	16.38	Left	0	1.000	1.072	1.034	2.051	2.051	0.513	17.8			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.01	5840.00	169	U-NI-4	13	17.0	16.41	17.0	16.61	Left	0	2.400	1.140	1.034	2.820	2.820	0.707	16.4			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.02	5885.00	173	U-NI-4	13	17.0	16.30	17.0	16.71	Left	0	2.430	1.175	1.034	2.928	2.928	0.732	16.3			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.02	5885.00	173	U-NI-4	13	17.0	16.30	17.0	16.71	Left	0	2.330	1.175	1.034	2.548	2.548	0.644	16.7			
Phubist	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.03	5885.00	177	U-NI-4	13	17.0	16.33	17.0	16.73	Left	0	2.330	1.187	1.034	2.759	2.759	0.700	16.5			
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																Phubist 4.0 W/kg (entire) averaged over 10 grams											
Uncontrolled Exposure/General Population																											

Note: Blue entry represents variability measurement
Note: To achieve the 20 dBm maximum allowed MAM power shown in the documentation, each antenna transmits at a maximum allowed power of 17 dBm.

12.31 6 GHz WIFI SISO Standalone SAR and APD

Table 12-134

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.01	5985.00	7	34	10.0	9.67	Right Cheek	0	0.127	1.079	1.007	0.138	0.138	0.086		18.6			
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.03	6305.00	71	34	10.0	9.35	Right Cheek	0	0.090	1.161	1.007	0.105	0.105	0.066		19.7			
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.02	6465.00	103	34	10.0	9.23	Right Cheek	0	0.076	1.194	1.007	0.091	0.091	0.057		20.3			
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.02	6705.00	151	34	10.0	9.45	Right Cheek	0	0.125	1.135	1.007	0.148	0.143	0.089	A15	18.4	9.0		
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.02	7025.00	215	34	10.0	9.76	Right Cheek	0	0.085	1.057	1.007	0.090	0.090	0.066		20.4			
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.04	7025.00	215	34	10.0	9.76	Right Tilt	0	0.026	1.057	1.007	0.028	0.028	0.018		25.5			
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.04	7025.00	215	34	10.0	9.76	Left Cheek	0	0.015	1.057	1.007	0.016	0.016	0.010		27.9			
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.04	7025.00	215	34	10.0	9.76	Left Tilt	0	0.058	1.057	1.007	0.017	0.017	0.011		27.6			
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																Head 1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																									
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/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Adjusted APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #				
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.01	5985.00	7	34	10.0	9.67	Right Cheek	0	0.643	1.079	1.007	0.699	0.699	0.035					
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.03	6305.00	71	34	10.0	9.35	Right Cheek	0	0.508	1.161	1.007	0.589	0.589	0.029					
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.02	6465.00	103	34	10.0	9.23	Right Cheek	0	0.442	1.194	1.007	0.531	0.531	0.027					
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.02	6705.00	151	34	10.0	9.45	Right Cheek	0	0.681	1.135	1.007	0.778	0.778	0.039	AB5				
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.02	7025.00	215	34	10.0	9.76	Right Cheek	0	0.450	1.057	1.007	0.479	0.479	0.024					
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.04	7025.00	215	34	10.0	9.76	Right Tilt	0	0.185	1.057	1.007	0.193	0.193	0.010					
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.04	7025.00	215	34	10.0	9.76	Left Cheek	0	0.122	1.057	1.007	0.130	0.130	0.007					
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.04	7025.00	215	34	10.0	9.76	Left Tilt	0	0.090	1.057	1.007	0.096	0.096	0.005					

Table 12-135

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.08	6465.00	103	34	10.0	9.95	Right Cheek	0	0.072	1.012	1.004	0.073	0.073	0.046		21.3		
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.04	6465.00	103	34	10.0	9.95	Right Tilt	0	0.057	1.012	1.004	0.058	0.058	0.036		22.3		9.0
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.09	6465.00	103	34	10.0	9.95	Left Cheek	0	0.059	1.012	1.004	0.060	0.060	0.038		22.2		
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	-0.05	6465.00	103	34	10.0	9.95	Left Tilt	0	0.051	1.012	1.004	0.052	0.052	0.033		22.8		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT													Head 1.6 W/kg (entire) averaged over 1 gram											
Uncontrolled Exposure/General Population																								
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/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Adjusted APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #			
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.08	6465.00	103	34	10.0	9.95	Right Cheek	0	0.641	1.012	1.004	0.550	0.550	0.028				
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.04	6465.00	103	34	10.0	9.95	Right Tilt	0	0.187	1.012	1.004	0.393	0.393	0.020				
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.09	6465.00	103	34	10.0	9.95	Left Cheek	0	0.174	1.012	1.004	0.178	0.178	0.019				
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	-0.05	6465.00	103	34	10.0	9.95	Left Tilt	0	0.196	1.012	1.004	0.199	0.199	0.010				

Table 12-137

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]	EPS PLimit Pmax [dBm]
Body-worn	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.03	5985.00	7	34	11.5	10.78	Back	30	0.057	1.180	1.004	0.068	0.068	0.043		23.2			
Body-worn	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.01	6305.00	71	34	11.5	11.10	Back	30	0.117	1.096	1.004	0.129	0.129	0.081	A86	20.3			
Body-worn	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.09	6465.00	103	34	11.0	10.50	Back	30	0.074	1.019	1.004	0.076	0.644	0.463		22.2	20.3	10.5	22.2
Body-worn	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.06	6705.00	215	34	11.5	10.68	Back	30	0.068	1.208	1.004	0.034	0.034	0.021		26.1			
Body-worn	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.09	7025.00	215	34	11.0	10.99	Back	30	0.034	1.002	1.004	0.034	0.291	0.182		25.6			
ANSI/IEEE C63.1 1992 - SAFETY LIMIT															Body 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak Uncontrolled Exposure/General Population																									
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 APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	Adjusted APO [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Film [dBm]	Overall Film [dBm]	EPS Film [dBm]	EPS Film Pmax [dBm]
Body-worn	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.03	5985.00	7	34	11.5	10.78	Back	10	0.375	1.180	1.004	0.444	0.444	0.022					
Body-worn	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.01	6305.00	71	34	11.5	11.10	Back	10	0.876	1.096	1.004	0.954	0.964	0.048	A86				
Body-worn	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.09	6465.00	103	34	11.0	10.50	Back	10	0.542	1.019	1.004	0.555	8.012	0.401					
Body-worn	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.06	6705.00	215	34	11.5	10.68	Back	10	0.152	1.208	1.004	0.184	0.184	0.009					
Body-worn	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.09	7025.00	215	34	11.0	10.99	Back	10	0.208	1.002	1.004	0.209	3.025	0.151					

Table 12-138

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]	Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Film [dBm]	Overall Film [dBm]	EPS Film [dBm]	EPS Film Pmax [dBm]
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	-0.09	6305.00	71	34	11.5	10.90	Back	0	0.206	1.148	1.007	0.238	0.238	0.060	21.7				
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.01	6305.00	71	34	11.5	10.90	Front	0	0.157	1.148	1.007	0.181	0.181	0.045	22.8				
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.14	6305.00	71	34	11.5	10.90	Top	0	0.091	1.148	1.007	0.099	0.099	0.015	27.7				
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	-0.03	5985.00	7	34	11.5	10.50	Left	0	0.468	1.250	1.007	0.534	0.534	0.129	A87	18.3			
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.02	6305.00	71	34	11.5	10.90	Left	0	0.334	1.148	1.007	0.386	0.386	0.097	29.6				
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	-0.06	6465.00	103	34	11.0	10.58	Left	0	0.393	1.102	1.007	0.392	2.103	0.526	29.0				
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	-0.03	6705.00	151	34	11.5	10.80	Left	0	0.295	1.175	1.007	0.349	0.349	0.087	20.0				
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	-0.03	7025.00	215	34	11.0	10.74	Left	0	0.283	1.062	1.007	0.313	1.682	0.421	20.0				
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																Phablet									
Spatial Peak Uncontrolled Exposure/General Population																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 APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	Adjusted APO [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Film [dBm]	Overall Film [dBm]	EPS Film [dBm]	EPS Film Pmax [dBm]
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	-0.09	6305.00	71	34	11.5	10.90	Back	0	4.840	1.148	1.007	5.595	5.595	0.280					
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.01	6305.00	71	34	11.5	10.90	Front	0	3.670	1.148	1.007	4.243	4.243	0.212					
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.14	6305.00	71	34	11.5	10.90	Top	0	1.200	1.148	1.007	1.387	1.387	0.069					
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	-0.03	5985.00	7	34	11.5	10.50	Left	0	9.760	1.250	1.007	12.285	12.285	0.614	A87				
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.02	6305.00	71	34	11.5	10.90	Left	0	6.000	1.148	1.007	6.248	6.248	0.462					
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	-0.06	6465.00	103	34	11.0	10.58	Left	0	8.440	1.102	1.007	9.366	10.751	0.538					
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	-0.03	6705.00	151	34	11.5	10.80	Left	0	7.080	1.175	1.007	8.377	8.377	0.419					
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	H	1295M	99.27	-0.03	7025.00	215	34	11.0	10.74	Left	0	7.020	1.062	1.007	7.507	8.617	0.431					

Table 12-139

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]	Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Film [dBm]	Overall Film [dBm]	EPS Film [dBm]	EPS Film Pmax [dBm]
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.01	5985.00	7	34	11.5	10.78	Back	0	0.171	1.180	1.007	0.203	0.203	0.051	22.3				
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.13	6305.00	71	34	11.5	11.10	Back	0	0.215	1.096	1.007	0.237	0.237	0.059	23.7				
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.06	6465.00	103	34	11.0	10.90	Back	0	0.184	1.019	1.007	0.189	2.217	0.354	22.2				
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.03	6705.00	151	34	11.5	10.68	Back	0	0.172	1.208	1.007	0.209	0.209	0.052	22.7				
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.01	7025.00	215	34	11.0	10.99	Back	0	0.138	1.002	1.007	0.139	1.636	0.409	23.5				
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.11	6305.00	71	34	11.5	11.10	Front	0	0.086	1.096	1.007	0.091	0.091	0.013	28.4				
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.04	6305.00	71	34	11.5	11.10	Top	0	0.101	1.096	1.007	0.111	0.111	0.028	25.0				
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	0.06	6305.00	71	34	11.5	11.10	Right	0	0.009	1.096	1.007	0.010	0.010	0.003	35.5				
ANSI/IEEE C63.1 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]	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 APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	Adjusted APO [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Film [dBm]	Overall Film [dBm]	EPS Film [dBm]	EPS Film Pmax [dBm]
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.01	5985.00	7	34	11.5	10.78	Back	0	3.980	1.180	1.007	4.729	4.729	0.236					
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.13	6305.00	71	34	11.5	11.10	Back	0	4.970	1.096	1.007	5.485	5.485	0.274					
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.06	6465.00	103	34	11.0	10.50	Back	0	4.280	1.019	1.007	4.392	11.283	0.564					
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.01	6705.00	151	34	11.5	10.68	Back	0	4.050	1.208	1.007	4.927	4.927	0.246					
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.01	7025.00	215	34	11.0	10.99	Back	0	3.290	1.002	1.007	3.320	8.534	0.427					
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.21	6305.00	71	34	11.5	11.10	Front	0	1.030	1.096	1.007	1.137	1.137	0.057					
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.04	6305.00	71	34	11.5	11.10	Top	0	2.340	1.096	1.007	2.583	2.583	0.129					
Phablet	6 GHz WiFi / IEEE 802.11ax	80	OFDM	E	1295M	99.27	0.06	6305.00	71	34	11.5	11.10	Right	0	0.030	1.096	1.007	0.032	0.032	0.011					

Table 12-141

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]
Body-worn	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.09	6705.00	151	68.1	11.5	11.28	11.5	10.23	Back	10	0.089	1.340	1.007	0.116	0.116	0.073		20.8	20.8	10.5
ANS/IEEE CS5.1.1302 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population Note: To achieve the 14.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 11.5 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/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Adjusted APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]
Body-worn	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.09	6705.00	151	68.1	11.5	11.28	11.5	10.23	Back	10	0.065	1.340	1.007	0.092	0.092	0.045				

Table 12-142

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]	Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.06	6705.00	151	68.1	11.5	11.28	11.5	10.20	Back	0	0.143	1.340	1.007	0.103	0.103	0.048		22.6		
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	-0.18	6705.00	151	68.1	11.5	11.28	11.5	10.20	Front	0	0.209	1.340	1.007	0.209	0.209	0.075		20.7		
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.03	6705.00	151	68.1	11.5	11.28	11.5	10.20	Top	0	0.092	1.340	1.007	0.125	0.125	0.031		24.5		
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.03	6705.00	151	68.1	11.5	11.28	11.5	10.20	Right	0	0.091	1.340	1.007	0.096	0.096	0.041		28.0		
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	-0.03	5985.00	7	68.1	11.5	10.85	11.5	9.85	Left	0	0.363	1.462	1.007	0.534	0.534	0.134		18.1	17.9	10.5
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.06	6095.00	71	68.1	11.5	9.82	11.5	10.20	Left	0	0.326	1.576	1.007	0.518	0.518	0.129		18.1		
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.01	6465.00	103	68.1	11.0	9.04	11.0	10.88	Left	0	0.322	1.576	1.007	0.509	0.509	0.127		17.9		
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.03	6705.00	151	68.1	11.5	11.28	11.5	10.20	Left	0	0.346	1.340	1.007	0.470	0.470	0.118		18.7		
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.05	7055.00	215	68.1	11.0	9.49	11.0	10.88	Left	0	0.295	1.416	1.007	0.349	0.349	0.087		19.5		
ANS/IEEE CS5.1.1302 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population Note: To achieve the 14.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 11.5 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/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Adjusted APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.04	6705.00	151	68.1	11.5	11.28	11.5	10.20	Back	0	8.280	1.340	1.007	4.388	4.388	0.219				
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	-0.16	6705.00	151	68.1	11.5	11.28	11.5	10.20	Front	0	5.070	1.340	1.007	6.887	6.887	0.344				
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.03	6705.00	151	68.1	11.5	11.28	11.5	10.20	Top	0	2.300	1.340	1.007	2.893	2.893	0.143				
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.03	6705.00	151	68.1	11.5	11.28	11.5	10.20	Right	0	0.912	1.340	1.007	2.395	2.395	0.062				
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	-0.02	5985.00	7	68.1	11.5	10.85	11.5	9.85	Left	0	8.600	1.462	1.007	12.661	12.661	0.633				
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.09	6395.00	71	68.1	11.5	9.82	11.5	11.20	Left	0	7.940	1.576	1.007	12.540	12.540	0.607				
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.01	6465.00	103	68.1	11.0	9.04	11.0	10.88	Left	0	7.590	1.576	1.007	12.000	12.000	0.600				
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.03	6705.00	151	68.1	11.5	11.28	11.5	10.20	Left	0	8.220	1.340	1.007	11.166	11.166	0.558				
Phablet	6 GHz W/FV / IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.05	7055.00	215	68.1	11.0	9.49	11.0	10.88	Left	0	5.800	1.416	1.007	8.270	8.270	0.414				

12.33 2.4 GHz Bluetooth Standalone SAR

Table 12-143

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]		
Head	2.4 GHz Bluetooth LE	DSSS	H	1262M	85.28	0.03	2402.00	0	1	12.5	12.45	Right Cheek	0	0.218	1.012	1.020	0.225	0.225	0.141		18.3				
Head	2.4 GHz Bluetooth LE	DSSS	H	1262M	85.28	-0.06	2402.00	0	1	12.5	12.45	Right Tilt	0	0.096	1.012	1.020	0.099	0.099	0.062	21.9					
Head	2.4 GHz Bluetooth LE	DSSS	H	1262M	85.28	0.18	2402.00	0	1	12.5	12.45	Left Cheek	0	0.057	1.012	1.020	0.059	0.059	0.037	24.1	18.3		10.9		
Head	2.4 GHz Bluetooth LE	DSSS	H	1262M	85.28	0.06	2402.00	0	1	12.5	12.45	Left Tilt	0	0.034	1.012	1.020	0.035	0.035	0.022	26.4					
ANSI/IEEE C95.1.1 1992 - SAFETY LIMIT																					Head				
Spatial Peak																					1.6 W/kg (mW/g)				
Uncontrolled Exposure/General Population																					averaged over 1 gram				

Table 12-144

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]
Head	2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	0.06	2402.00	0	1	12.5	11.57	Right Cheek	0	0.129	1.239	1.020	0.163	0.163	0.102		19.7		
Head	2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	-0.05	2402.00	0	1	12.5	11.57	Right Tilt	0	0.018	1.239	1.020	0.023	0.023	0.014		28.3		
Head	2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	0.05	2402.00	0	1	12.5	11.57	Left Cheek	0	0.238	1.239	1.020	0.301	0.301	0.188	A89	17.1	10.9	
Head	2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	0.02	2402.00	0	1	12.5	11.57	Left Tilt	0	0.028	1.239	1.020	0.035	0.035	0.022		26.4		
ANS/IEEE C59.1.1302 - SAFETY LIMIT																							
Spatial Peak												Head											
Uncontrolled Exposure/General Population												1.6 W/kg (mW/g) averaged over 1 gram											

Table 12-145

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]	
Head	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.03	2402.00	0	1	12.5	12.36	12.5	11.92	Right Cheek	0	0.222	1.143	1.020	0.259	0.259	0.084	0.635	17.7			
Head	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.03	2402.00	0	1	12.5	12.36	12.5	11.92	Right Tilt	0	0.109	1.143	1.020	0.137	0.137	0.041	0.377	21.2			
Head	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.05	2402.00	0	1	12.5	12.36	12.5	11.92	Left Cheek	0	0.236	1.143	1.020	0.252	0.252	0.097	0.598	17.8	17.7	17.7	
Head	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.07	2402.00	0	1	12.5	12.36	12.5	11.92	Left Tilt	0	0.035	1.143	1.020	0.041	0.041	0.007	0.007	25.7			
ANS/IEEE CS5.1.1302 - SAFETY LIMIT																										
Spatial Peak																										
Uncontrolled Exposure/General Population																										
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.																										
																	1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-146

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]
Body-worn/Hotspot	2.4 GHz Bluetooth LE	DSSS	H	1262M	85.28	0.20	2402.00	0	1	19.0	18.39	Back	10	0.210	1.151	1.000	0.247	0.373	0.233	A90	24.4		
Hotspot	2.4 GHz Bluetooth LE	DSSS	H	1262M	85.28	0.01	2402.00	0	1	19.0	18.39	Front	10	0.469	1.151	1.000	0.198	0.300	0.188		25.4	23.2	20.2
Hotspot	2.4 GHz Bluetooth LE	DSSS	H	1262M	85.28	0.17	2402.00	0	1	19.0	18.39	Top	10	0.117	1.151	1.000	0.137	0.208	0.130		27.0		
Hotspot	2.4 GHz Bluetooth LE	DSSS	H	1262M	85.28	0.02	2402.00	0	1	19.0	18.39	Left	10	0.278	1.151	1.000	0.326	0.494	0.309	A91	23.2		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure (General Population)																							

Table 12-147

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EFS Limit [dBm]
Body worn/Hotspot	2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	0.13	2440.00	19	1	19.0	18.02	Back	10	0.034	1.253	1.020	0.043	0.308	0.193		32.0	28.3	26.9
Hotspot	2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	0.04	2440.00	19	1	19.0	18.02	Front	10	0.079	1.253	1.020	0.101	0.715	0.447	28.3			
Hotspot	2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	0.01	2440.00	19	1	19.0	18.02	Top	10	0.003	1.253	1.020	0.004	0.027	0.017	42.5			
Hotspot	2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	0.02	2440.00	19	1	19.0	18.02	Right	10	0.018	1.253	1.020	0.023	0.163	0.102	34.7			
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 12-148

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EFS Limit [dBm]
Body-worn/Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	-0.06	2402.00	0	1	12.5	12.35	12.5	11.92	Back	10	0.045	1.143	1.020	0.052	0.288	0.180		24.5		
Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.04	2402.00	0	1	12.5	12.35	12.5	11.92	Front	10	0.041	1.143	1.020	0.048	0.269	0.164		25.1		
Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.10	2402.00	0	1	12.5	12.35	12.5	11.92	Top	10	0.028	1.143	1.020	0.033	0.179	0.112		26.7		19.3
Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.03	2402.00	0	1	12.5	12.35	12.5	11.92	Right	10	0.014	1.143	1.020	0.016	0.090	0.056		29.7		
Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.09	2402.00	0	1	12.5	12.35	12.5	11.92	Left	10	0.063	1.143	1.020	0.073	0.404	0.253		23.2		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body											
Spatial Peak														1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population														averaged over 1 gram											

Notes: Do not adjust the 12.4 dBm maximum value if SAR/DPO exceeds shown in the documentation, such as in the case of 13.3 dBm.

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.

12.34 UWB Standalone SAR

Table 12-149

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Phablet	UWB	CW	1	1322M	1:1	0.05	6489.60	5	Back	0	0.000	0.000	
Phablet	UWB	CW	1	1322M	1:1	0.02	7987.20	9	Back	0	0.000	0.000	A92
Phablet	UWB	CW	1	1322M	1:1	0.09	6489.60	5	Front	0	0.000	0.000	
Phablet	UWB	CW	1	1322M	1:1	0.04	7987.20	9	Front	0	0.000	0.000	
Phablet	UWB	CW	1	1322M	1:1	0.02	6489.60	5	Top	0	0.000	0.000	
Phablet	UWB	CW	1	1322M	1:1	0.04	7987.20	9	Top	0	0.000	0.000	
Phablet	UWB	CW	1	1322M	1:1	0.06	6489.60	5	Left	0	0.000	0.000	
Phablet	UWB	CW	1	1322M	1:1	0.05	7987.20	9	Left	0	0.001	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		

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Phablet	UWB	CW	1	1322M	1:1	0.05	6489.60	5	Back	0	0.013	0.001	
Phablet	UWB	CW	1	1322M	1:1	0.02	7987.20	9	Back	0	0.016	0.001	A92
Phablet	UWB	CW	1	1322M	1:1	0.09	6489.60	5	Front	0	0.014	0.001	
Phablet	UWB	CW	1	1322M	1:1	0.04	7987.20	9	Front	0	0.014	0.001	
Phablet	UWB	CW	1	1322M	1:1	0.02	6489.60	5	Top	0	0.011	0.001	
Phablet	UWB	CW	1	1322M	1:1	0.04	7987.20	9	Top	0	0.022	0.001	
Phablet	UWB	CW	1	1322M	1:1	0.06	6489.60	5	Left	0	0.006	0.000	
Phablet	UWB	CW	1	1322M	1:1	0.05	7987.20	9	Left	0	0.023	0.001	

12.35 NFC Standalone SAR

Table 12-150

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	1285M	-0.09	13.60	Back	0	0.017	A93
Phablet	NFC	B	NFC	1285M	0.01	13.60	Front	0	0.000	
Phablet	NFC	B	NFC	1285M	0.04	13.60	Top	0	0.000	
Phablet	NFC	B	NFC	1285M	0.09	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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12.36 NTN Standalone SAR

Table 12-151

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	# Tone	Tone Start	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body-worn	NTN Band 255	CW	F	1307M	1:1	0.06	1643.50	261674	23.0	22.90	1	5	Back	10	0.699	1.023	0.710	0.508	0.318	A92
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 12-152

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	# Tone	Tone Start	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Phablet	NTN Band 255	CW	F	1307M	1:1	0.01	1643.50	261674	23.0	22.90	1	5	Back	0	1.760	1.023	0.710	1.278	0.320	
Phablet	NTN Band 255	CW	F	1307M	1:1	0.02	1643.50	261674	23.0	22.90	1	5	Front	0	2.360	1.023	0.710	1.714	0.429	
Phablet	NTN Band 255	CW	F	1307M	1:1	-0.01	1626.60	261505	23.0	22.73	1	5	Top	0	3.990	1.064	0.710	3.014	0.754	A93
Phablet	NTN Band 255	CW	F	1307M	1:1	0.03	1626.60	261505	23.0	22.95	1	5	Top	0	3.965	1.064	0.710	2.976	0.744	
Phablet	NTN Band 255	CW	F	1307M	1:1	0.00	1643.50	261674	23.0	22.90	1	5	Top	0	3.630	1.023	0.710	2.637	0.659	
Phablet	NTN Band 255	CW	F	1307M	1:1	0.03	1660.40	261843	23.0	22.74	1	5	Top	0	3.620	1.062	0.710	2.730	0.683	
Phablet	NTN Band 255	CW	F	1307M	1:1	-0.11	1643.50	261674	23.0	22.90	1	5	Left	0	0.777	1.023	0.710	0.564	0.141	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Phablet 4.0 W/kg (mW/g) averaged over 10 grams					

Note: Blue entry represents variability measurement

SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01v06.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- 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.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 10 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.
- Per FCC KDB Publication 648474 D01v06r03, 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.
- 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.
- 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).
- Per FCC KDB Publication 648474 D01v06r03, 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.
- This device supports dynamic antenna tuning for some bands. Per FCC Guidance, SAR was measured according to the normally required SAR measurement configurations with tuner active. The auto-tune state determined by the device was verified before and after each SAR measurement and is listed in tables above. Please see Section 15 for supplemental data.
- 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.
- This device uses Qualcomm Smart Transmit for WWAN/WLAN/BT operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for

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was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).

14. 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. Therefore, GSM voice was evaluated for body-worn SAR.
2. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
3. Per FCC KDB Publication 447498 D01v06, 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.
2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 9.5.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D01v06, when the reported 1g SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for LTE B41/48, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. For LTE Band 48 per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.

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NR Notes:

1. NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Due to test setup limitations, SAR testing for NR TDD was performed using test mode software to establish the connection.
3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
6. Per FCC KDB Publication 447498 D01v06, when the reported NR Band n77 C-Band SAR measured at the highest output power channel in a given a test configuration was > 0.4 W/kg for 1g evaluations and > 1 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
7. Per FCC KDB Publication 447498 D01v06, when the reported NR Band n41/48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations and > 1.5 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
8. SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.
9. For final implementation, NR Band n38, n41, n48 and n77 slot configuration is synchronized using maximum duty cycle of 100%. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.
10. Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 – 3544.98 MHz).
11. This device uses two transmit pathways for n41 operations (Path 1 and Path 2). For each exposure condition, the pathway with the highest target power was fully evaluated. The worst case for each antenna and exposure condition was additionally evaluated using the other path.

WLAN Notes:

1. For held-to-ear, hotspot, and phablet operations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g evaluations, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 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 D01v06 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.

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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 79% transmission duty factor for Bluetooth and 87% transmission duty factor for Bluetooth LE to determine compliance. See RF Conducted Power Section for the time domain plot and calculation for the duty factor of the device.
2. Head and Hotspot Bluetooth SAR were evaluated for BT BDR tethering applications.
3. The highest frame average power configurations for both Bluetooth and Bluetooth LE were evaluated for SAR. The worst case configuration was used for the remaining test positions as the most conservative scenario.

UWB Notes:

1. UWB was evaluated for phablet based on expected usage conditions.
2. Per FCC guidance, SAR was performed using 6.5 GHz/8GHz probe calibration factor for UWB.

NTN Notes:

1. Due to equipment limitations, NTN was tested using factory test mode software transmitting CW at 100% duty cycle. The results were scaled down to the maximum duty cycle of 71%.
2. NTN NB-IoT only supports data transmission, therefore only body-worn and phablet exposure conditions were evaluated.

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13 POWER DENSITY DATA SUMMARY

13.1 6 GHz WIFI Power Density Results

Table 13-1

MEASUREMENT RESULTS																									
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant H) [dBm]	Conducted Power (Ant H) [dBm]	Maximum Allowed Power (Ant E) [dBm]	Conducted Power (Ant E) [dBm]	Power Drift (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	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 #
6305.00	71	802.11ax	OFDM	80	11.50	10.90	-	-	-0.04	2	H	1258M	34	Back	99.27	0.125	0.477	1.554	1.148	1.007	0.536	0.963	0.665	1.195	
6305.00	71	802.11ax	OFDM	80	11.50	10.90	-	-	0.01	2	H	1258M	34	Front	99.27	0.125	1.510	1.554	1.148	1.007	0.868	1.559	0.976	1.753	
6305.00	71	802.11ax	OFDM	80	11.50	10.90	-	-	-0.06	2	H	1258M	34	Top	99.27	0.125	3.460	1.554	1.148	1.007	1.030	1.850	1.080	1.940	
6305.00	71	802.11ax	OFDM	80	11.50	10.90	-	-	-0.07	2	H	1258M	34	Left	99.27	0.125	1.430	1.554	1.148	1.007	1.970	3.539	2.250	4.042	
5985.00	7	802.11ax	OFDM	80	11.50	10.53	-	-	-0.08	2	H	1258M	34	Left	99.27	0.125	1.400	1.554	1.250	1.007	2.160	4.225	2.540	4.968	
6465.00	103	802.11ax	OFDM	80	11.00	10.58	-	-	-0.05	2	H	1258M	34	Left	99.27	0.125	1.370	1.554	1.102	1.007	1.810	3.121	2.060	3.552	
6705.00	151	802.11ax	OFDM	80	11.50	10.80	-	-	0.02	2	H	1258M	34	Left	99.27	0.125	0.937	1.554	1.175	1.007	1.030	1.894	1.220	2.243	
7025.00	215	802.11ax	OFDM	80	11.00	10.74	-	-	-0.03	2	H	1258M	34	Left	99.27	0.125	0.905	1.554	1.062	1.007	1.490	2.476	1.800	2.991	
6305.00	71	802.11ax	OFDM	80	11.50	10.90	-	-	-0.09	9.51	H	1258M	34	Left	99.27	0.125	0.677	1.554	1.148	1.007	0.669	1.202	0.735	1.320	
6305.00	71	802.11ax	OFDM	80	-	-	11.50	11.10	0.03	2	E	1258M	34	Back	99.27	0.125	1.770	1.554	1.096	1.007	3.440	5.900	3.920	6.723	A95
6305.00	71	802.11ax	OFDM	80	-	-	11.50	11.10	0.02	2	E	1258M	34	Front	99.27	0.125	0.585	1.554	1.096	1.007	0.575	0.986	0.610	1.046	
6305.00	71	802.11ax	OFDM	80	-	-	11.50	11.10	0.08	2	E	1258M	34	Top	99.27	0.125	1.230	1.554	1.096	1.007	1.380	2.367	1.670	2.864	
6305.00	71	802.11ax	OFDM	80	-	-	11.50	11.10	0.02	2	E	1258M	34	Right	99.27	0.125	0.390	1.554	1.096	1.007	0.204	0.350	0.232	0.398	
5985.00	7	802.11ax	OFDM	80	-	-	11.50	10.78	0.05	2	E	1258M	34	Back	99.27	0.125	1.320	1.554	1.180	1.007	2.030	3.749	2.280	4.210	
6465.00	103	802.11ax	OFDM	80	-	-	11.00	10.92	0.03	2	E	1258M	34	Back	99.27	0.125	1.440	1.554	1.019	1.007	3.040	4.848	3.600	5.741	
6705.00	151	802.11ax	OFDM	80	-	-	11.50	10.68	0.05	2	E	1258M	34	Back	99.27	0.125	1.530	1.554	1.208	1.007	2.010	3.800	2.600	4.915	
7025.00	215	802.11ax	OFDM	80	-	-	11.00	10.99	-0.02	2	E	1258M	34	Back	99.27	0.125	1.170	1.554	1.002	1.007	1.610	2.524	2.150	3.371	
5985.00	7	802.11ax	OFDM	80	11.50	10.85	11.50	9.85	-0.07	2	MIMO	1182M	68.1	Back	99.27	0.125	-	1.554	1.462	1.007	1.910	4.370	2.160	4.942	
6305.00	71	802.11ax	OFDM	80	11.50	9.52	11.50	11.20	0.04	2	MIMO	1182M	68.1	Back	99.27	0.125	-	1.554	1.578	1.007	2.070	5.112	2.390	5.902	
6465.00	103	802.11ax	OFDM	80	11.00	9.04	11.00	10.88	-0.02	2	MIMO	1182M	68.1	Back	99.27	0.125	-	1.554	1.570	1.007	2.540	6.240	2.860	7.027	
6705.00	151	802.11ax	OFDM	80	11.50	11.28	11.50	10.23	0.12	2	MIMO	1182M	68.1	Back	99.27	0.125	-	1.554	1.340	1.007	2.860	5.997	3.250	6.815	
7025.00	215	802.11ax	OFDM	80	11.00	9.49	11.00	10.99	-0.07	2	MIMO	1182M	68.1	Back	99.27	0.125	-	1.554	1.416	1.007	2.300	5.096	2.560	5.673	
6705.00	151	802.11ax	OFDM	80	11.50	11.28	11.50	10.23	0.11	2	MIMO	1182M	68.1	Front	99.27	0.125	-	1.554	1.340	1.007	1.080	2.265	1.340	2.810	
6705.00	151	802.11ax	OFDM	80	11.50	11.28	11.50	10.23	-0.12	2	MIMO	1182M	68.1	Top	99.27	0.125	-	1.554	1.340	1.007	0.833	1.747	1.170	2.453	
6705.00	151	802.11ax	OFDM	80	11.50	11.28	11.50	10.23	-0.18	2	MIMO	1182M	68.1	Right	99.27	0.125	-	1.554	1.340	1.007	0.312	0.654	0.334	0.700	
6705.00	151	802.11ax	OFDM	80	11.50	11.28	11.50	10.23	-0.13	2	MIMO	1182M	68.1	Left	99.27	0.125	-	1.554	1.340	1.007	1.740	3.649	2.890	6.060	
47 CFR §1.1310 - SAFETY LIMIT											Power Density														
Spatial Average											10 W/m²														
Uncontrolled Exposure / General Population											averaged over 4 cm²														

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13.2 UWB Power Density Results

Table 13-2

MEASUREMENT RESULTS														
Frequency (MHz)	Channel	Mode	Power Drift (dB)	Spacing (mm)	DUT Serial Number	Side	Grid Step (λ)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6489.60	5	CW	-0.06	2	1322M	Back	0.125	-	1.554	0.115	0.179	0.121	0.188	
6489.60	5	CW	-0.08	2	1322M	Front	0.125	-	1.554	0.102	0.159	0.108	0.168	
6489.60	5	CW	-0.04	2	1322M	Top	0.125	0.162	1.554	0.057	0.089	0.069	0.107	
7987.20	5	CW	-0.06	2	1322M	Left	0.125	-	1.554	0.088	0.137	0.094	0.146	
7987.20	9	CW	-0.06	2	1322M	Back	0.125	-	1.554	0.135	0.210	0.167	0.260	A96
7987.20	9	CW	-0.08	2	1322M	Front	0.125	-	1.554	0.023	0.036	0.030	0.047	
7987.20	9	CW	-0.10	2	1322M	Top	0.125	-	1.554	0.061	0.095	0.078	0.121	
6489.60	9	CW	0.01	2	1322M	Left	0.125	-	1.554	0.095	0.148	0.100	0.155	
6489.60	5	CW	0.01	9.24	1322M	Top	0.125	0.062	1.554	0.048	0.075	0.056	0.087	
47 CFR §1.1310 - 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)
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)
750	793.00	23330	LTE Band 14, 10 MHz Bandwidth	QPSK	Left	Tilt	E	0.806	0.731	1.10	N/A	N/A	N/A
1900	1860.00	26140	LTE Band 25 (PCS), 20 MHz Bandwidth	QPSK, 1 RB, 0 Offset	Right	Tilt	F	0.918	0.884	1.04	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 50 RB, 0 Offset	Right	Cheek	F	0.855	0.831	1.03	N/A	N/A	N/A
3700	3750.00	650000	NR Band 77, 100 MHz Bandwidth	QPSK, 1 RB, 271 Offset	Right	Tilt	F	0.908	0.898	1.01	N/A	N/A	N/A
3900	3930.00	662000	NR Band 77, 100 MHz Bandwidth	QPSK, 270 RB, 0 Offset	Right	Tilt	F	0.950	0.932	1.02	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	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)
1750	1752.60	1513	UMTS 1750	RMC	Bottom	10 mm	A	0.896	0.862	1.04	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body							
Spatial Peak						1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population						averaged over 1 gram							

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Table 14-3
Phablet SAR Measurement Variability Results

PHABLET VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Spacing	Antenna Config	Measured SAR (10g)	1st Repeated SAR (10g)	Ratio	2nd Repeated SAR (10g)	Ratio	3rd Repeated SAR (10g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)	
1640	1626.60	261505	NTN Band 255	CW	Top	0 mm	F	3.990	3.940	1.01	N/A	N/A	N/A	N/A
5750	5720.00	144	6 GHz WIFI/IEEE 802.11a	OFDM	Left	0 mm	H	2.080	2.020	1.03	N/A	N/A	N/A	N/A
5805	5865.00	173	6 GHz WIFI/IEEE 802.11a	OFDM	Left	0 mm	H	2.410	2.420	1.00	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Phablet								
Spatial Peak						4.0 W/kg (mW/g)								
Uncontrolled Exposure/General Population						averaged over 10 grams								

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 Tuner Testing

Per April 2019 TCB Workshop Notes, the following test procedures were followed to demonstrate that the SAR results in Section 12 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR was measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements were evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence on the antenna characteristics, other than impedance matching.

To evaluate all the tuner states, the 96 tuner states were divided among the aggregate band, mode and exposure combinations. Single point time-sweep measurements were performed at the peak SAR location determined by the zoom scan of the configuration with the highest measured SAR for each combination. The tuner state was able to be established remotely so that the device was not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe remained stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 1g SAR was $> 1.2 \text{ W/kg}$ for a particular band/mode/exposure condition, point SAR measurements were made for all 96 states.

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

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Table 15-1
UMTS Supplemental Head SAR Data

Supplemental Head SAR Data					
UMTS B5		UMTS B4		UMTS B2	
RMC		RMC		RMC	
Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	846.60	Frequency (MHz)	1712.40	Frequency (MHz)	1880.00
Channel	4233	Channel	1312	Channel	9400
Measured 1g SAR (W/kg)	0.172	Measured 1g SAR (W/kg)	0.172	Measured 1g SAR (W/kg)	0.188
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.175	Auto-tune (State 11)	0.176	Auto-tune (State 1)	0.194
Default (State 1)	0.169	Default (State 55)	0.157	Default (State 0)	0.180
State 0	0.174	State 1	0.141	State 1	0.184
State 16	0.108	State 11	0.165	State 2	0.180
State 40	0.031	State 17	0.121	State 18	0.163
State 47	0.113	State 46	0.036	State 45	0.048
State 48	0.082	State 49	0.024	State 50	0.045
State 76	0.013	State 77	0.077	State 78	0.082
State 95	0.069	State 94	0.063	State 93	0.104

Table 15-2
LTE Supplemental Head SAR Data

Supplemental Head SAR Data											
LTE B71		LTE B12		LTE B13		LTE B14		LTE B26		LTE B66	
OPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		OPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		OPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		OPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		OPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset		OPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00	Frequency (MHz)	831.50	Frequency (MHz)	1720.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330	Channel	26865	Channel	132072
Measured 1g SAR (W/kg)	0.134	Measured 1g SAR (W/kg)	0.139	Measured 1g SAR (W/kg)	0.135	Measured 1g SAR (W/kg)	0.164	Measured 1g SAR (W/kg)	0.140	Measured 1g SAR (W/kg)	0.200
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.139	Auto-tune (State 1)	0.149	Auto-tune (State 11)	0.152	Auto-tune (State 0)	0.163	Auto-tune (State 0)	0.152	Auto-tune (State 56)	0.214
Default (State 0)	0.127	Default (State 0)	0.132	Default (State 11)	0.133	Default (State 0)	0.158	Default (State 1)	0.153	Default (State 55)	0.217
State 0	0.127	State 1	0.143	State 5	0.036	State 0	0.158	State 0	0.149	State 11	0.195
State 3	0.089	State 4	0.113	State 11	0.133	State 6	0.074	State 7	0.080	State 27	0.021
State 19	0.028	State 20	0.010	State 21	0.005	State 22	0.122	State 23	0.113	State 36	0.174
State 44	0.109	State 43	0.000	State 42	0.001	State 41	0.010	State 40	0.033	State 56	0.187
State 51	0.023	State 52	0.010	State 53	0.006	State 54	0.003	State 55	0.034	State 59	0.176
State 79	0.065	State 80	0.097	State 81	0.061	State 82	0.082	State 83	0.071	State 84	0.034
State 92	0.107	State 91	0.047	State 90	0.083	State 89	0.135	State 88	0.146	State 90	0.053

Table 15-3
NR Supplemental Head SAR Data

Supplemental Head SAR Data											
NR Band n71		NR Band n12		NR Band n14		NR Band n26		NR Band n70		NR Band n66	
DFT-OFDM OPSK, 20 MHz Bandwidth, 90 RB, 49 RB Offset		DFT-OFDM OPSK, 15 MHz Bandwidth, 1 RB, 1 RB Offset		DFT-OFDM OPSK, 10 MHz Bandwidth, 1 RB, 26 RB Offset		DFT-OFDM OPSK, 20 MHz Bandwidth, 1 RB, 104 RB Offset		DFT-S-OFDM OPSK, 15 MHz Bandwidth, 1 RB, 77 RB Offset		DFT-S-OFDM OPSK, 40 MHz Bandwidth, 1 RB, 108 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	793.00	Frequency (MHz)	836.50	Frequency (MHz)	1702.50	Frequency (MHz)	1745.00
Channel	136100	Channel	141500	Channel	158600	Channel	167300	Channel	340500	Channel	349000
Measured 1g SAR (W/kg)	0.110	Measured 1g SAR (W/kg)	0.108	Measured 1g SAR (W/kg)	0.053	Measured 1g SAR (W/kg)	0.059	Measured 1g SAR (W/kg)	0.139	Measured 1g SAR (W/kg)	0.205
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.109	Auto-tune (State 1)	0.106	Auto-tune (State 0)	0.060	Auto-tune (State 0)	0.062	Auto-tune (State 55)	0.147	Auto-tune (State 56)	0.229
Default (State 0)	0.111	Default (State 0)	0.112	Default (State 0)	0.054	Default (State 1)	0.055	Default (State 55)	0.144	Default (State 55)	0.192
State 0	0.111	State 1	0.105	State 0	0.056	State 0	0.058	State 20	0.054	State 21	0.039
State 15	0.078	State 16	0.048	State 17	0.024	State 19	0.012	State 26	0.015	State 28	0.023
State 31	0.006	State 31	0.003	State 30	0.003	State 28	0.018	State 36	0.145	State 37	0.165
State 32	0.002	State 32	0.002	State 33	0.037	State 35	0.027	State 55	0.132	State 56	0.207
State 63	0.002	State 64	0.000	State 65	0.000	State 67	0.038	State 68	0.133	State 69	0.057
State 80	0.068	State 79	0.074	State 78	0.043	State 76	0.004	State 75	0.056	State 74	0.012
State 94	0.068	State 95	0.037	State 94	0.044	State 92	0.046	State 91	0.142	State 90	0.060

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Table 15-4
UMTS Supplemental Body SAR Data

Supplemental Body SAR Data					
UMTS B5		UMTS B4		UMTS B2	
RMC		RMC		RMC	
Test Position	Back	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	846.60	Frequency (MHz)	1752.60	Frequency (MHz)	1880.00
Channel	4233	Channel	1513	Channel	9400
Measured 1g SAR (W/kg)	0.325	Measured 1g SAR (W/kg)	0.896	Measured 1g SAR (W/kg)	0.695
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.348	Auto-tune (State 11)	0.979	Auto-tune (State 3)	0.765
Default (State 1)	0.359	Default (State 55)	0.820	Default (State 0)	0.631
State 0	0.362	State 11	0.959	State 3	0.779
State 23	0.244	State 22	0.204	State 21	0.365
State 24	0.232	State 25	0.141	State 26	0.129
State 40	0.071	State 41	0.371	State 42	0.542
State 71	0.208	State 70	0.212	State 69	0.228
State 72	0.173	State 73	0.121	State 74	0.168
State 87	0.015	State 86	0.121	State 85	0.215

Table 15-5
LTE Supplemental Body SAR Data

Supplemental Body SAR Data									
LTE B71		LTE B12		LTE B13		LTE B14		LTE B26	
QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	690.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00	Frequency (MHz)	1770.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330	Channel	132572
Measured 1g SAR (W/kg)	0.374	Measured 1g SAR (W/kg)	0.337	Measured 1g SAR (W/kg)	0.360	Measured 1g SAR (W/kg)	0.379	Measured 1g SAR (W/kg)	0.783
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.402	Auto-tune (State 11)	0.377	Auto-tune (State 0)	0.394	Auto-tune (State 0)	0.435	Auto-tune (State 0)	0.864
Default (State 0)	0.402	Default (State 0)	0.429	Default (State 11)	0.394	Default (State 0)	0.416	Default (State 1)	0.343
State 0	0.402	State 1	0.448	State 0	0.355	State 0	0.416	State 0	0.327
State 20	0.055	State 19	0.064	State 18	0.097	State 17	0.195	State 16	0.179
State 27	0.114	State 28	0.153	State 29	0.038	State 30	0.053	State 31	0.048
State 43	0.004	State 44	0.361	State 45	0.261	State 46	0.295	State 47	0.202
State 68	0.184	State 67	0.245	State 66	0.332	State 65	0.007	State 64	0.013
State 75	0.013	State 76	0.012	State 77	0.280	State 78	0.278	State 79	0.190
State 84	0.038	State 83	0.068	State 82	0.153	State 81	0.283	State 80	0.230

Table 15-6
NR Supplemental Body SAR Data

Supplemental Body SAR Data									
NR Band n71		NR Band n12		NR Band n14		NR Band n70		NR Band n66	
DFT-S-OFDM QPSK, 35 MHz Bandwidth, 1 RB, 94 RB Offset		DFT-S-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 22 RB Offset		DFT-S-OFDM QPSK, 10 MHz Bandwidth, 1 RB, 26 RB Offset		DFT-S-OFDM QPSK, 15 MHz Bandwidth, 1 RB, 77 RB Offset		CP-OFDM QPSK, 45 MHz Bandwidth, 108 RB, 54 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Right	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	793.00	Frequency (MHz)	1702.50	Frequency (MHz)	1882.50
Channel	136100	Channel	141500	Channel	158600	Channel	340500	Channel	376500
Measured 1g SAR (W/kg)	0.331	Measured 1g SAR (W/kg)	0.363	Measured 1g SAR (W/kg)	0.108	Measured 1g SAR (W/kg)	0.295	Measured 1g SAR (W/kg)	0.871
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.311	Auto-tune (State 1)	0.394	Auto-tune (State 1)	0.114	Auto-tune (State 0)	0.330	Auto-tune (State 11)	0.894
Default (State 0)	0.373	Default (State 0)	0.414	Default (State 1)	0.112	Default (State 0)	0.337	Default (State 55)	0.740
State 0	0.373	State 1	0.426	State 1	0.117	State 0	0.330	State 2	0.721
State 8	0.053	State 7	0.110	State 6	0.063	State 4	0.290	State 11	0.903
State 39	0.027	State 40	0.016	State 41	0.010	State 43	0.017	State 44	0.236
State 55	0.129	State 56	0.096	State 54	0.004	State 52	0.036	State 51	0.144
State 56	0.184	State 55	0.179	State 57	0.072	State 59	0.233	State 60	0.724
State 72	0.039	State 71	0.063	State 70	0.068	State 68	0.239	State 67	0.516
State 87	0.007	State 88	0.340	State 89	0.096	State 91	0.143	State 92	0.232

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16 EQUIPMENT LIST

[illegible]

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

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 "

Applicable for SAR measurements < 6GHz:

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

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

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Applicable for SAR measurements > 6GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E.2.1	9.3	N	1	1	1	9.3	9.3	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.73	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.73	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E.3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	13.8	13.6
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	27.6	27.1

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

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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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