



ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)

7185 Oakland Mills Road, Columbia, MD 21046 USA

Tel. +1.410.290.6652 / Fax +1.410.290.6654

http://www.element.com



RF EXPOSURE PART 1 TEST REPORT

Applicant Name:

Samsung Electronics Co., Ltd.
129, Samsung-ro, Maetan dong,
Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea

Date of Testing:

04/14/2025 - 06/03/2025

Test Site/Locations:

Element, Columbia, MD, USA

Document Serial No.:

1M2504070040-20.A3L (Rev 1)

FCC ID:

A3LSMF966JPN

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Portable Handset

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model(s):

SC-56F

Additional Model(s):

SCG34

Equipment Class	Band & Mode	Tx Frequency	SAR					
			1g FIC Head (W/kg)	1g FIO Head (W/kg)	1g Body-Worn (W/kg)	1g Hotspot (W/kg)	1g Body (W/kg)	10g Phantail (W/kg)
PCE	GSM/GPRS/EDGE 850	824.20 - 848.80 MHz	0.17	<0.1	0.99	0.99	0.51	N/A
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	<0.1	<0.1	0.67	0.67	0.43	N/A
PCE	UMTS 850	825.40 - 845.60 MHz	0.27	0.35	0.90	0.90	0.47	N/A
PCE	LTE Band 12	880.7 - 915.3 MHz	0.15	0.22	0.95	0.95	0.50	N/A
PCE	LTE Band 13	779.5 - 784.5 MHz	0.20	0.25	0.80	0.80	0.54	N/A
PCE	LTE Band 5	824.7 - 848.3 MHz	0.26	0.29	1.01	1.01	0.49	N/A
PCE	LTE Band 66	1710.7 - 1775.3 MHz	0.14	0.14	0.58	0.58	0.29	N/A
PCE	LTE Band 4	1710.7 - 1754.3 MHz	N/A	N/A	N/A	N/A	N/A	N/A
PCE	LTE Band 2	1850.7 - 1909.3 MHz	0.13	<0.1	0.71	0.71	0.47	N/A
PCE	LTE Band 41	2496.5 - 2597.5 MHz	1.05	0.22	1.29	1.29	0.60	N/A
PCE	NR Band n5	826.5 - 846.5 MHz	0.25	0.25	0.88	0.88	1.14	N/A
PCE	NR Band n66	1712.5 - 1777.5 MHz	1.10	0.80	0.70	0.70	0.48	N/A
PCE	NR Band n41	2501.01 - 2655 MHz	0.95	0.19	1.20	1.20	0.45	N/A
DTS	2.4 GHz WIFI	2412 - 2472 MHz	0.35	1.04	0.83	0.83	1.02	N/A
NII	5 GHz WIFI	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: 5945 - 5985 MHz	0.69	0.49	1.08	0.80	1.03	1.47
6CD	6 GHz WIFI	U-NII-5: 5945 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6575 MHz U-NII-8: 6895 - 7115 MHz	0.39	0.16	0.53	N/A	0.35	0.67
DSS	2.4 GHz Bluetooth	2402 - 2480 MHz	<0.1	0.55	0.16	<0.1	0.44	0.45
DXK	NFC	13.56 MHz	N/A	N/A	N/A	N/A	<0.1	<0.1
UWB	UWB	6490.6 - 7987.2 MHz	N/A	N/A	N/A	N/A	<0.1	<0.1
Simultaneous SAR per KDB 690783 D01v01r03:			1.59	1.59	1.32	1.44	1.50	2.45
Equipment Class	Band & Mode	Tx Frequency	APD (W/m ²)					Reported PD (W/m ²)
			FIC Head	FIO Head	Body-Worn	Body	Phantail	
6CD	6 GHz WIFI	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6575 MHz U-NII-8: 6895 - 7115 MHz	2.90	0.97	3.49	2.37	15.73	7.15
UWB	UWB	6489.6 - 7987.2 MHz	N/A	N/A	N/A	<0.1	<0.1	0.37
RF Exposure Position			Posture Class - Head	Posture Class - Head	Posture Class - Head	Posture Class - Head	Posture Class - Head	Posture Class - Head
Posture Class - Head			UP	UP	UP	UP	UP	UP
Posture Class - Head			UP	UP	UP	UP	UP	UP

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

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 2.9 of this report; for North American frequency bands only.

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


RJ Ortanez
Executive Vice President



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1 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, R, S

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
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 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 2	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n66	Voice/Data	1712.5 - 1777.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5945 - 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 Data Referencing

Reference Device		Variant Device	Key differences
FCC ID: A3LSMF966U		FCC ID: A3LSMF966JPN	See change documentation
Equipment Class	Mode	Data Referencing	Comments
DTS	2.4 GHz WIFI	Y	See RF Exposure Report Section 13.1 and 13.2 for spot-check and Section 12.13 and 12.14 tested data
NII	5 GHz WIFI	Y	See RF Exposure Report Section 13.3 and 13.4 for spot-check and Section 12.15 and 12.16 tested data
6CD	6 GHz WIFI	Y/N	See RF Exposure Report Section 13.5 and 13.6 for spot-check and Section 12.17 and 12.18 tested data
DSS	2.4 GHz BT	Y/N	See RF Exposure Report Section 13.7 and 13.8 for spot-check and Section 12.19 and 12.20 tested data

Per manufacturer declaration, there are two portable handset devices FCC ID: A3LSMF966U and FCC ID: A3LSMF966JPN, with high degree of similarity, reference model FCC ID: A3LSMF966U and variant model FCC ID: A3LSMF966JPN. Both models share the same material, form factor, circuit design, and components, including antennas and their locations. The reference and variant models use the same material, form factor, circuit design, and components, including antennas and their locations. The reference and variant models have the same tune-up tolerances at WIFI/BT.

Based on the Data Referencing Test Plan, testing was done fully on the reference model FCC ID: A3LSMF966U, while spot-check verification has been performed on variant model FCC ID: A3LSMF966JPN. The spot check verification has been performed in the worst case for each exposure condition and if the spot check SAR value was higher, it was applied to the simultaneous transmission results and SAR CHAR on variant model FCC ID: A3LSMF966JPN. The reference and variant model comparison data summary is included in section 12. Please see unlicensed SAR reference test data in Appendix K: for complete compliance evaluation for the reference model.

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2.3 Time-Averaging Algorithm for RF Exposure Compliance

2.3.1 Time-Averaged Algorithm

This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature with antenna grouping and a multi_tx_factor of 1.1. 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 2.12– Bibliography).

Note that NFC/UWB 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.

Based on Qualcomm guidance, for multi_tx_factor > 1.0, the reported SAR for each tech/band/ant/DSI is scaled using $\min\{P_{limit} * \text{multi_tx_factor} * 10^{(\text{sub6 device uncertainty}/10)}, P_{max}\}$ in simultaneous transmission valuations.

Notes:

1. When $P_{max} < P_{limit}$ EFS, the DUT will operate at a power level up to P_{max}
2. All P_{limit} EFS and maximum tune-up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of GMSK, TDD, or OFDM modulation schemes (e.g. GSM, LTE TDD, WLAN, BT).
3. Maximum tune-up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum tune-up output power + 1dB device design uncertainty.
4. All MIMO P_{max} and P_{limit} are defined per antenna chain.

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 D04v01.

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Exposure Scenario			Maximum Tune-Up Output Power*	F/O Body	F/C Body	F/O Head	F/C Head
Averaging Volume				1g	1g/10g	1g	1g
Spacing				5mm	0mm, 5 mm, 10 mm	0mm	0mm
DSI				0	1	2	3
Technology/Band	Antenna	Antenna Group	P _{max}	P _{limit}	P _{limit}	P _{limit}	P _{limit}
GSM 850	A, A+C	AG0	24.8	21.3	25.6	32.8	29.7
GSM 1900	B	AG0	21.6	14.3	18.3	32.5	34.1
UMTS 850	A, A+C	AG0	24.3	20.5	25.7	27.6	28.8
LTE Band 12	A, A+C	AG0	24.2	21.0	25.3	29.4	31.0
LTE Band 13	A, A+C	AG0	24.5	21.0	26.1	29.3	30.4
LTE Band 5	A, A+C	AG0	24.5	20.5	25.4	28.5	29.1
LTE Band 66/4	B	AG0	24.5	14.5	18.0	30.7	31.9
LTE Band 2	B	AG0	24.0	14.5	18.0	33.6	31.5
LTE Band 41	B	AG0	22.0	13.5	17.5	35.9	36.6
LTE Band 41	G	AG1	22.0	11.5	16.5	15.0	15.0
NR Band n5	A, A+C	AG0	24.0	20.5	25.5	28.4	28.9
NR Band n66	B	AG0	24.0	14.5	18.0	30.8	31.6
NR Band n66	G	AG1	23.0	13.5	17.0	19.5	19.5
NR Band n41 PC3	G	AG1	24.0	11.5	16.5	16.0	16.0
NR Band n41 PC3	B	AG0	24.0	13.5	17.5	35.0	35.3
2.4 GHz WIFI	H	AG1	19.0	17.0	17.0	24.0	29.6
2.4 GHz WIFI	F	AG1	19.0	17.0	17.0	19.7	24.5
2.4 GHz WIFI	MIMO	AG1	17.0	19.9	21.5	21.2	26.2
5 GHz WIFI	F	AG1	17.0	16.0	16.0	21.1	27.2
5 GHz WIFI	E	AG1	17.0	16.0	16.0	23.6	19.5
5 GHz WIFI	MIMO	AG1	17.0	16.0	16.0	20.9	18.9
6 GHz WIFI	F	AG1	16.0	14.0	14.0	25.0	26.3
6 GHz WIFI	E	AG1	16.0	14.0	14.0	28.6	21.0
6 GHz WIFI	MIMO	AG1	16.0	14.0	14.0	24.8	20.3
2.4 GHz Bluetooth	H	AG1	16.5	24.6	28.7	23.2	35.0
2.4 GHz Bluetooth	F	AG1	16.5	20.9	24.8	20.0	28.1
2.4 GHz Bluetooth	MIMO	AG1	16.5	18.2	21.0	17.7	24.5

2.4 Power Reduction for SAR

FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device when being used in both the folder closed and folder open use conditions. Detailed descriptions of the power reduction mechanism are included in the operational description.

2.5 Nominal and Maximum Output Power Specifications

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

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

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2.5.1 Licensed Output Power

GSM/GPRS/EDGE 850										
Antenna A,A+C										
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	32.0	30.0	27.5	27.5	26.0	24.0	23.0
	Nominal	32.5	32.5	31.0	29.0	26.5	26.5	25.0	23.0	22.0
DSI = 0 (F/O Body)	Max Allowed Power	31.5	31.5	28.5	26.7	25.5	27.5	26.0	24.0	23.0
	Nominal	30.5	30.5	27.5	25.7	24.5	26.5	25.0	23.0	22.0
DSI = 1 (F/C Body)	Max Allowed Power	33.5	33.5	32.0	30.0	27.5	27.5	26.0	24.0	23.0
	Nominal	32.5	32.5	31.0	29.0	26.5	26.5	25.0	23.0	22.0
DSI = 2 (F/O Head)	Max Allowed Power	33.5	33.5	32.0	30.0	27.5	27.5	26.0	24.0	23.0
	Nominal	32.5	32.5	31.0	29.0	26.5	26.5	25.0	23.0	22.0
DSI = 3 (F/C Head)	Max Allowed Power	33.5	33.5	32.0	30.0	27.5	27.5	26.0	24.0	23.0
	Nominal	32.5	32.5	31.0	29.0	26.5	26.5	25.0	23.0	22.0
GSM/GPRS/EDGE 1900										
Antenna B										
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	28.5	27.0	25.0	26.5	24.5	22.5	22.0
	Nominal	30.0	30.0	27.5	26.0	24.0	25.5	23.5	21.5	21.0
DSI = 0 (F/O Body)	Max Allowed Power	24.5	24.5	21.5	19.7	18.5	24.5	21.5	19.7	18.5
	Nominal	23.5	23.5	20.5	18.7	17.5	23.5	20.5	18.7	17.5
DSI = 1 (F/C Body)	Max Allowed Power	28.5	28.5	25.5	23.7	22.5	26.5	24.5	22.5	22.0
	Nominal	27.5	27.5	24.5	22.7	21.5	25.5	23.5	21.5	21.0
DSI = 2 (F/O Head)	Max Allowed Power	31.0	31.0	28.5	27.0	25.0	26.5	24.5	22.5	22.0
	Nominal	30.0	30.0	27.5	26.0	24.0	25.5	23.5	21.5	21.0
DSI = 3 (F/C Head)	Max Allowed Power	31.0	31.0	28.5	27.0	25.0	26.5	24.5	22.5	22.0
	Nominal	30.0	30.0	27.5	26.0	24.0	25.5	23.5	21.5	21.0

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

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UMTS Band 5 (850 MHz)					
Antenna A, A+C					
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	25.3	24.3	24.3	24.3
	Nominal	24.3	23.3	23.3	23.3
DSI = 0 (F/O Body)	Max Allowed Power	21.5	20.5	20.5	20.5
	Nominal	20.5	19.5	19.5	19.5
DSI = 1 (F/C Body)	Max Allowed Power	25.3	24.3	24.3	24.3
	Nominal	24.3	23.3	23.3	23.3
DSI = 2 (F/O Head)	Max Allowed Power	25.3	24.3	24.3	24.3
	Nominal	24.3	23.3	23.3	23.3
DSI = 3 (F/C Head)	Max Allowed Power	25.3	24.3	24.3	24.3
	Nominal	24.3	23.3	23.3	23.3

Mode / Band	Antenna		Modulated Average Output Power (in dBm)				
			Pmax	DSI = 0 (F/O Body)	DSI = 1 (F/C Body)	DSI = 2 (F/O Head)	DSI = 3 (F/C Head)
LTE Band 12	A, A+C	Max Allowed Power	25.2	22.0	25.2	25.2	25.2
		Nominal	24.2	21.0	24.2	24.2	24.2
LTE Band 13	A, A+C	Max Allowed Power	25.5	22.0	25.5	25.5	25.5
		Nominal	24.5	21.0	24.5	24.5	24.5
LTE Band 5	A, A+C	Max Allowed Power	25.5	21.5	25.5	25.5	25.5
		Nominal	24.5	20.5	24.5	24.5	24.5
LTE Band 66/4	B	Max Allowed Power	25.5	15.5	19.0	25.5	25.5
		Nominal	24.5	14.5	18.0	24.5	24.5
LTE Band 2	B	Max Allowed Power	25.0	15.5	19.0	25.0	25.0
		Nominal	24.0	14.5	18.0	24.0	24.0
LTE Band 41	B	Max Allowed Power	25.0	16.5	20.5	25.0	25.0
		Nominal	24.0	15.5	19.5	24.0	24.0
LTE Band 41	G	Max Allowed Power	25.0	14.5	19.5	18.0	18.0
		Nominal	24.0	13.5	18.5	17.0	17.0

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 (F/O Body)	DSI = 1 (F/C Body)	DSI = 2 (F/O Head)	DSI = 3 (F/C Head)
NR Band n5	A, A+C	Max Allowed Power	25.0	21.5	25.0	25.0	25.0
		Nominal	24.0	20.5	24.0	24.0	24.0
NR Band n66	B	Max Allowed Power	25.0	15.5	19.0	25.0	25.0
		Nominal	24.0	14.5	18.0	24.0	24.0
NR Band n66	G	Max Allowed Power	24.0	14.5	18.0	20.5	20.5
		Nominal	23.0	13.5	17.0	19.5	19.5
NR Band n41 PC3	G	Max Allowed Power	25.0	12.5	17.5	17.0	17.0
		Nominal	24.0	11.5	16.5	16.0	16.0
NR Band n41 PC3	B	Max Allowed Power	25.0	14.5	18.5	25.0	25.0
		Nominal	24.0	13.5	17.5	24.0	24.0

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2.5.2 2.4 GHz WLAN Output Power

The table below is applicable in the following conditions:

- Pmax, DSI = 2 (F/O Head), DSI = 3 (F/C Head)

[illegible]

- DSI = 0 (F/O Body), DSI = 1 (F/C Body)

[illegible]

2.5.3 5 GHz WLAN Output Power

The table below is applicable in the following conditions:

- P_{max} , DSI = 2 (F/O Head), DSI = 3 (F/C Head)

[illegible]

The table below is applicable in the following conditions:

- DSI = 0 (F/O Body), DSI = 1 (F/C Body)

[illegible]

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2.5.4 6 GHz WLAN Output Power

The table below is applicable in the following conditions:

- Pmax, DSI = 2 (F/O Head), DSI = 3 (F/C Head)

		IEEE 802.11 Modulated Output Power (in dBm)																	
Mode	Band	SISO						SISO						SISO in MIMO					
		Antenna F						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
				ch. 2: 10.0	9.0	ch. 2: 10.0	9.0			ch. 2: 10.0	9.0	ch. 2: 10.0	9.0			ch. 2: 10.0	9.0	ch. 2: 10.0	9.0
	UNII-6	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
	UNII-7	10.0	9.0	11.0	10.0	11.0	10.0	10.0	9.0	11.0	10.0	11.0	10.0	10.0	9.0	11.0	10.0	11.0	10.0
6 GHz WiFi (40MHz BW) - LPI	UNII-8	10.0	9.0	11.0	10.0	11.0	10.0	10.0	9.0	11.0	10.0	11.0	10.0	10.0	9.0	11.0	10.0	11.0	10.0
				13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
	UNII-6			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
	UNII-7			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
6 GHz WiFi (80MHz BW) - LPI	UNII-8			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
	UNII-5			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-6			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-7			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
6 GHz WiFi (160MHz BW) - LPI	UNII-8			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-5			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-6			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-7			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
6 GHz WiFi (320MHz BW) - LPI	UNII-8			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-5					15.0	14.0					15.0	14.0					15.0	14.0
	UNII-6					15.0	14.0					15.0	14.0					15.0	14.0
	UNII-7					15.0	14.0					15.0	14.0					15.0	14.0
IEEE 802.11 Modulated Output Power (in dBm)																			
Mode	Band	SISO						SISO						SISO in MIMO					
		Antenna F						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - SP	UNII-5	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
	UNII-7	ch. 2: 12.0	11.0	ch. 2: 10.0	9.0	ch. 2: 10.0	9.0	ch. 2: 12.0	11.0	ch. 2: 10.0	9.0	ch. 2: 10.0	9.0	ch. 2: 12.0	11.0	ch. 2: 10.0	9.0	ch. 2: 10.0	9.0
6 GHz WiFi (40MHz BW) - SP	UNII-5	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5
	UNII-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
6 GHz WiFi (80MHz BW) - SP	UNII-5			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0
	UNII-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
6 GHz WiFi (160MHz BW) - SP	UNII-5			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-7			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
6 GHz WiFi (320MHz BW) - SP	UNII-5			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-7			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
6 GHz WiFi (320MHz BW) - SP	UNII-5					15.0	14.0					15.0	14.0					15.0	14.0
	UNII-7					15.0	14.0					15.0	14.0					15.0	14.0
IEEE 802.11 Modulated Output Power (in dBm)																			
Mode	Band	SISO						SISO						SISO in MIMO					
		Antenna F						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - 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
	UNII-7	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
6 GHz WiFi (40MHz BW) - VLP	UNII-5			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-7			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
6 GHz WiFi (80MHz BW) - VLP	UNII-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
6 GHz WiFi (160MHz BW) - VLP	UNII-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
6 GHz WiFi (320MHz BW) - VLP	UNII-5					12.0	11.0					12.0	11.0					12.0	11.0
	UNII-7					12.0	11.0					12.0	11.0					12.0	11.0

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The table below is applicable in the following conditions:

- DSI = 0 (F/O Body), DSI = 1 (F/C Body)

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna F						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
	UNII-6	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
	UNII-7	10.0	9.0	11.0	10.0	11.0	10.0	10.0	9.0	11.0	10.0	11.0	10.0	10.0	9.0	11.0	10.0	11.0	10.0
	UNII-8	10.0	9.0	11.0	10.0	11.0	10.0	10.0	9.0	11.0	10.0	11.0	10.0	10.0	9.0	11.0	10.0	11.0	10.0
6 GHz WiFi (40MHz BW) - LPI	UNII-5			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
	UNII-6			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
	UNII-7			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
	UNII-8			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
6 GHz WiFi (80MHz BW) - LPI	UNII-5			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-6			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-7			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-8			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
6 GHz WiFi (160MHz BW) - LPI	UNII-5			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-6			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-7			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-8			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
6 GHz WiFi (320MHz BW) - LPI	UNII-5					15.0	14.0					15.0	14.0					15.0	14.0
	UNII-6					15.0	14.0					15.0	14.0					15.0	14.0
	UNII-7					15.0	14.0					15.0	14.0					15.0	14.0
	UNII-8					15.0	14.0					15.0	14.0					15.0	14.0
Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna F						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - SP	UNII-5	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0
	UNII-7	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5	14.5	13.5
6 GHz WiFi (40MHz BW) - SP	UNII-5			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-7			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
6 GHz WiFi (80MHz BW) - SP	UNII-5			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-7			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
6 GHz WiFi (160MHz BW) - SP	UNII-5			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-7			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
6 GHz WiFi (320MHz BW) - SP	UNII-5					15.0	14.0					15.0	14.0					15.0	14.0
	UNII-7					15.0	14.0					15.0	14.0					15.0	14.0
Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna F						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - 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
	UNII-7	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
6 GHz WiFi (40MHz BW) - VLP	UNII-5			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-7			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
6 GHz WiFi (80MHz BW) - VLP	UNII-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
6 GHz WiFi (160MHz BW) - VLP	UNII-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
6 GHz WiFi (320MHz BW) - VLP	UNII-5					12.0	11.0					12.0	11.0					12.0	11.0
	UNII-7					12.0	11.0					12.0	11.0					12.0	11.0

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2.5.5 2.4 GHz Maximum Bluetooth Output Power

The table below is applicable in the following conditions:

- Pmax, DSI = 0 (F/O Body), DSI = 1 (F/C Body), DSI = 2 (F/O Head), DSI = 3 (F/C Head)

Mode	Data Rate	Modulated Output Power (in dBm)									
		Single Antenna				MIMO					
		Antenna H		Antenna F		Antenna H		Antenna F		MIMO	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	18.5	17.5	18.5	17.5	15.0	14.0	16.5	15.5	18.5	17.5
Bluetooth EDR	2Mbps	15.5	14.5	15.5	14.5	13.0	12.0	13.5	12.5	15.5	14.5
Bluetooth EDR	3Mbps	15.5	14.5	15.5	14.5	13.0	12.0	13.5	12.5	15.5	14.5
Bluetooth LE	1Mbps	10.5	9.5	10.5	9.5	N/A	N/A	N/A	N/A	N/A	N/A
Bluetooth LE	2Mbps	10.5	9.5	10.5	9.5	N/A	N/A	N/A	N/A	N/A	N/A
Bluetooth LE	125kbps	10.5	9.5	10.5	9.5	N/A	N/A	N/A	N/A	N/A	N/A
Bluetooth LE	500kbps	10.5	9.5	10.5	9.5	N/A	N/A	N/A	N/A	N/A	N/A

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2.6 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. In the closed configuration, since the display diagonal dimension of this device is > 150 mm and <200 mm, it is considered a “phablet.” In the open configuration, since the display diagonal dimension of this device is >200mm, it is considered a tablet. 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 – Folder Closed

Antenna	Back	Front	Top	Bottom	Right	Left
A	Yes	Yes	No	Yes	Yes	No
A+C	Yes	Yes	No	Yes	Yes	Yes
B	Yes	Yes	No	Yes	No	Yes
G	Yes	Yes	Yes	No	Yes	No
H	Yes	Yes	No	No	Yes	No
F	Yes	Yes	Yes	No	No	Yes
E	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 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, 2.4 GHz Bluetooth Antenna F, U-NII-1, U-NII-2A, U-NII-2C, U-NII-4, and WIFI6E operations are disabled.

Table 2-2
Device Edges/Sides for SAR Testing – Folder Open

Antenna	Back	Front	Top	Bottom	Right	Left
A+C	Yes	No	Yes	Yes	Yes	Yes
B	Yes	No	Yes	Yes	Yes	Yes
G	Yes	No	Yes	Yes	Yes	Yes
H	Yes	No	Yes	Yes	Yes	Yes
F	Yes	No	Yes	Yes	Yes	Yes
E	Yes	No	Yes	Yes	Yes	Yes
MIMO	Yes	No	Yes	Yes	Yes	Yes

Note: Per FCC KDB Publication 616217 D04v01r01, particular edges were not required to be evaluated for SAR based on the SAR exclusion threshold in KDB 447498 D04v01. Additional edges may have been evaluated for simultaneous transmission analysis.

2.7 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.

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2.8 Simultaneous Transmission Capabilities

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

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

**Table 2-3
Simultaneous Transmission Scenarios**

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

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1. SISO represents 2.4 GHz WLAN/BT transmission on Ant H or Ant F, and 5/6 GHz transmission on Ant F or Ant E.
2. 2.4 GHz WLAN Ant H and 2.4 GHz Bluetooth Ant H share the same antenna path and cannot transmit simultaneously.
3. 5 GHz WLAN and 6 GHz WLAN share the same antenna path and cannot transmit simultaneously.
4. 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.
5. 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.
6. 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.
7. 6 GHz Wireless Router is not supported, therefore it was not evaluated for wireless router conditions.
8. 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.
9. This device supports VoWIFI.
10. This device supports Bluetooth Tethering on Ant H only.
11. This device supports VoLTE.
12. This device supports VoNR.
13. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
14. UWB and NFC were evaluated for phablet based on expected usage conditions.

2.9 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, and 6 GHz WIFI, only 2.4 GHz WIFI, 2.4 GHz Bluetooth Antenna H, 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 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" when it is in a closed configuration 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. Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4 GHz Bluetooth Antenna H, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

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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. Therefore, SAR tests were not required for 802.11ax/be RU/MRU based on the maximum allowed output powers of OFDM modes and the reported SAR values. Per FCC Guidance, maximum conducted powers were performed for each RU/MRU size to demonstrate that the output powers would not be higher than the other OFDM 802.11 modes. Please see EMC test reports 1M2502210015-19.A3L, 1M2502210015-21.A3L, 1M2502210015-23.A3L, and 1M2502210015-25.A3L for 802.11ax/be RU/MRU output powers.

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.

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 Carrier Aggregation (CA) for LTE Band 41C with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

Per FCC KDB Publication 648474 D01v06r03, this device is considered a "phablet" when it is in the closed configuration 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 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

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transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range.

This device can transmit with antenna switching for bands/modes on antennas B, and G. 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 2.5.1 of this report.

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.

For licensed bands operating < 1 GHz, this device can transmit with Ant A or with Ant A+ Ant C. The RF path for both conditions is identical, therefore separate conducted powers are not required for these conditions. For closed test configurations, both Ant A and Ant A + Ant C conditions were fully evaluated for all exposure conditions. For open configurations, only Ant A + Ant C conditions were evaluated since in the open configuration, only Ant A + Ant C is supported as described in the operational description.

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.

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

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2.10 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 648474 D01v06r03 (Phablet Procedures)
- FCC KDB Publication 616217 D04v01r02 (Tablet, Proximity Sensor)
- 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)
- April 2019 and October 2024 TCB Workshop Notes (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

2.11 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 and Section 13.

2.12 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report	1M2504070040-21.A3L
RF Exposure Part 2 Test Report	1M2504070040-22.A3L
PD Part 1 Test Report	1M2504070040-23.A3L
RF Exposure Compliance Summary Report	1M2504070040-24.A3L

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3 LTE AND NR INFORMATION

LTE Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	LTE Band 12: 699.7 - 715.3 MHz				
	LTE Band 13: 779.5 - 784.5 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 2: 1850.7 - 1909.3 MHz				
	LTE Band 41: 2498.5 - 2687.5 MHz				
Channel Bandwidths	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 5: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)	711 (23130)	
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)	784.5 (23255)	
LTE Band 13: 10 MHz	(N/A)		782 (23230)	(N/A)	
LTE Band 5: 1.4 MHz	824.7 (20407)		836.5 (20525)	848.3 (20643)	
LTE Band 5: 3 MHz	825.5 (20415)		836.5 (20525)	847.5 (20635)	
LTE Band 5: 5 MHz	826.5 (20425)		836.5 (20525)	846.5 (20625)	
LTE Band 5: 10 MHz	829 (20450)		836.5 (20525)	844 (20600)	
LTE Band 66: 1.4 MHz	1710.7 (131979)		1745 (132322)	1779.3 (132665)	
LTE Band 66: 3 MHz	1711.5 (131987)		1745 (132322)	1778.5 (132657)	
LTE Band 66: 5 MHz	1712.5 (131997)		1745 (132322)	1777.5 (132647)	
LTE Band 66: 10 MHz	1715 (132022)		1745 (132322)	1775 (132622)	
LTE Band 66: 15 MHz	1717.5 (132047)		1745 (132322)	1772.5 (132597)	
LTE Band 66: 20 MHz	1720 (132072)		1745 (132322)	1770 (132572)	
LTE Band 4: 1.4 MHz	1710.7 (19957)		1732.5 (20175)	1754.3 (20393)	
LTE Band 4: 3 MHz	1711.5 (19965)		1732.5 (20175)	1753.5 (20385)	
LTE Band 4: 5 MHz	1712.5 (19975)		1732.5 (20175)	1752.5 (20375)	
LTE Band 4: 10 MHz	1715 (20000)		1732.5 (20175)	1750 (20350)	
LTE Band 4: 15 MHz	1717.5 (20025)		1732.5 (20175)	1747.5 (20325)	
LTE Band 4: 20 MHz	1720 (20050)		1732.5 (20175)	1745 (20300)	
LTE Band 2: 1.4 MHz	1850.7 (18607)		1880 (18900)	1909.3 (19193)	
LTE Band 2: 3 MHz	1851.5 (18615)		1880 (18900)	1908.5 (19185)	
LTE Band 2: 5 MHz	1852.5 (18625)		1880 (18900)	1907.5 (19175)	
LTE Band 2: 10 MHz	1855 (18650)		1880 (18900)	1905 (19150)	
LTE Band 2: 15 MHz	1857.5 (18675)		1880 (18900)	1902.5 (19125)	
LTE Band 2: 20 MHz	1860 (18700)		1880 (18900)	1900 (19100)	
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
UE Category	UL UE Cat 18 , DL UE Cat 20				
Modulations Supported in UL	QPSK, 16QAM, 64QAM				
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 17. It supports carrier aggregation, downlink MIMO features as shown in the RF Conducted Powers section of this report. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 17 Features are not supported: Relay, HetNet, Enhanced MIMO, eCIC, eMBMS, Wifi Offloading, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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NR Information					
Form Factor	Portable Handset				
Frequency Range of each NR transmission band	NR Band n5: 826.5 - 846.5 MHz				
	NR Band n66: 1712.5 - 1777.5 MHz				
	NR Band n41: 2501.01 - 2685 MHz				
Channel Bandwidths	NR Band n5: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n66: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz				
	NR Band n41: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 35 MHz, 40 MHz, 45 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz				
Channel Numbers and Frequencies (MHz)					
NR Band n5: 5 MHz	826.5 (165300)		836.5 (167300)		846.5 (169300)
NR Band n5: 10 MHz	829 (165800)		836.5 (167300)		844 (168800)
NR Band n5: 15 MHz	831.5 (166300)		836.5 (167300)		841.5 (168300)
NR Band n5: 20 MHz	834 (166800)		836.5 (167300)		839 (167800)
NR Band n66: 5 MHz	1712.5 (342500)		1745 (349000)		1777.5 (355500)
NR Band n66: 10 MHz	1715 (343000)		1745 (349000)		1775 (355000)
NR Band n66: 15 MHz	1717.5 (343500)		1745 (349000)		1772.5 (354500)
NR Band n66: 20 MHz	1720 (344000)		1745 (349000)		1770 (354000)
NR Band n66: 25 MHz	1722.5 (344500)		1745 (349000)		1767.5 (353500)
NR Band n66: 30 MHz	1725 (345000)		1745 (349000)		1765 (353000)
NR Band n66: 35 MHz	1727.5 (345500)		1745 (349000)		1762.5 (352500)
NR Band n66: 40 MHz	1730 (346000)		1745 (349000)		1760 (352000)
NR Band n41: 10 MHz	2501.01 (500202)	2547 (509400)	2592.99 (518598)		2639.01 (527802) 2685 (537000)
NR Band n41: 15 MHz	2503.5 (500700)	2548.26 (509652)	2592.99 (518598)		2637.75 (527550) 2682.51 (536502)
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)		2636.49 (527298) 2679.99 (535998)
NR Band n41: 30 MHz	2511 (502200)	2552.01 (510402)	2592.99 (518598)		2634 (526800) 2674.98 (534996)
NR Band n41: 35 MHz	2513.52 (502704)	2553.24 (510648)	2592.99 (518598)		2632.74 (526548) 2672.49 (534498)
NR Band n41: 40 MHz	2516.01 (523202)	2567.34 (513468)	(N/A)		2618.67 (523734) 2670 (534000)
NR Band n41: 45 MHz	2518.5 (503700)	2568.18 (513636)	(N/A)		2617.83 (523566) 2667.48 (533496)
NR Band n41: 50 MHz	2521.02 (504204)		2592.99 (518598)		2664.99 (532998)
NR Band n41: 60 MHz	2526 (505200)		2592.99 (518598)		2659.98 (531996)
NR Band n41: 70 MHz	2531.01 (506202)		(N/A)		2655 (531000)
NR Band n41: 80 MHz	2536.02 (507204)		(N/A)		2649.99 (529998)
NR Band n41: 90 MHz	2541 (508200)		(N/A)		2644.98 (528996)
NR Band n41: 100 MHz	2546.01 (509202)		2592.99 (518598)		2640 (528000)
SCS for NR Band n5, n66	15 kHz				
SCS for NR Band n41	30 kHz				
Modulations Supported in UL	DFT-s-OFDM: $\pi/2$ BPSK, QPSK, 16QAM,64QAM,256QAM CP-OFDM: $\pi/2$ BPSK, QPSK, 16QAM,64QAM,256QAM				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
EN-DC and NR Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Anchor Bands for NR Band n5	2/66				
LTE Anchor Bands for NR Band n66	2/13				
LTE Anchor Bands for NR Band n41	66				

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4 INTRODUCTION

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

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

4.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 4-1).

Equation 4-1
SAR Mathematical Equation

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

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

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

where:

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

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

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5 DOSIMETRIC ASSESSMENT

5.1 Measurement Procedure

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

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

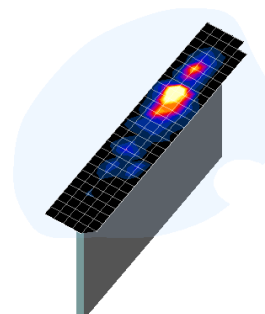


Figure 5-1
Sample SAR Area Scan

Table 5-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	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].

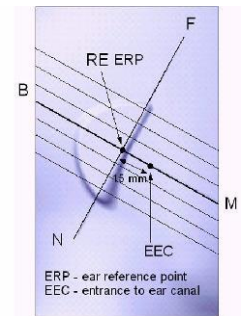


Figure 6-1
Close-Up Side view
of ERP

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

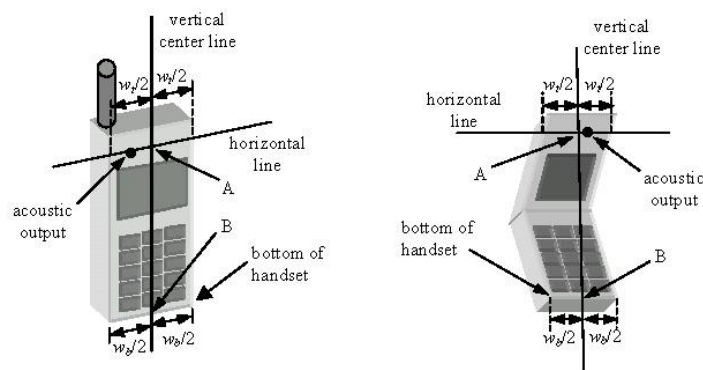


Figure 6-3
Handset Vertical Center & Horizontal Line Reference Points

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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.

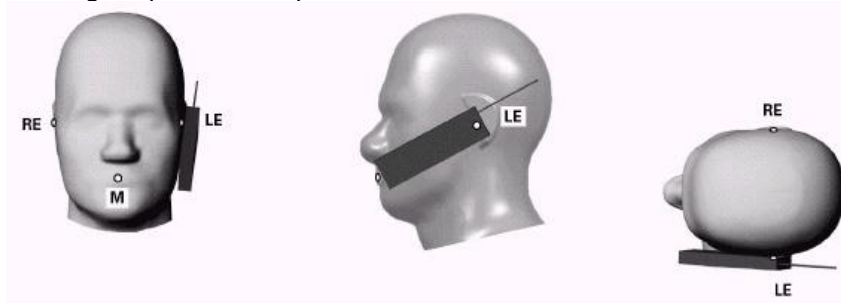


Figure 7-1 Front, Side and Top View of Cheek Position

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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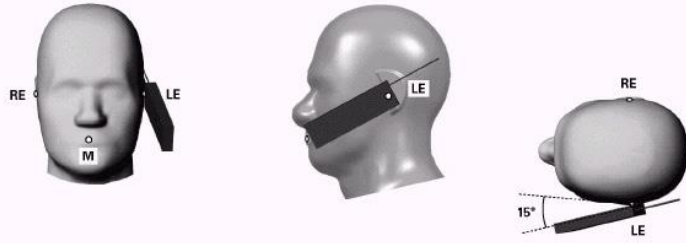


Figure 7-2 Front, Side and Top View of Ear/15° Tilt Position

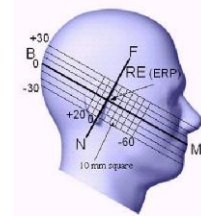


Figure 7-3 Side view w/ relevant markings

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 D04v01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

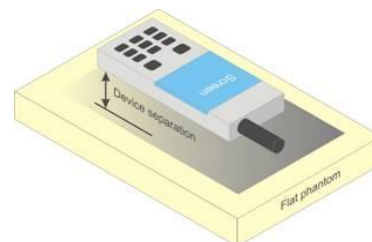


Figure 7-4 Sample Body-Worn Diagram

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that

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

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

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

7.6 Extremity Exposure Configurations

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

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

7.7 Wireless Router Configurations

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

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

7.8 Phablet Configurations

For smart phones with a display diagonal dimension $> 150 \text{ mm}$ 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 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

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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.

7.9 Proximity Sensor Considerations

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

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

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

7.10 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR Exclusion Threshold in KDB 447498 D04v01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

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

9.2 3G SAR Test Reduction Procedure

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

9.3 Procedures Used to Establish RF Signal for SAR

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

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

9.4 SAR Measurement Conditions for UMTS

9.4.1 Output Power Verification

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

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9.4.2 Head SAR Measurements

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

9.4.3 Body SAR Measurements

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

9.4.4 SAR Measurements with Rel 5 HSDPA

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

9.4.5 SAR Measurements with Rel 6 HSUPA

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

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

9.4.6 SAR Measurement Conditions for DC-HSDPA

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

9.5 SAR Measurement Conditions for LTE

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

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.

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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 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

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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 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.

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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 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

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subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.9 MIMO SAR considerations

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

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10 RF CONDUCTED POWERS

All conducted power measurements for Sub6 WWAN technologies and bands in this section were performed such that the EUT transmitted continuously at the maximum time-averaged transmit power limit (Plimit) or the maximum tune-up power (Pmax).

10.1 GSM Conducted Powers

Table 10-1
Measured P_{max} for DSI = 1 (F/C Body), DSI = 2 (F/O Head) and/or DSI = 3 (F/C Head)
for GSM 850 Ant A, A+C

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	32.88	32.75	31.30	29.30	26.68	26.73	25.41	23.21	22.26
	190	32.35	32.30	31.22	29.76	26.71	26.80	25.36	23.13	22.20
	251	32.65	32.80	31.02	29.67	26.78	26.77	25.42	22.98	22.24
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	23.68	23.55	25.11	24.87	23.50	17.53	19.22	18.78	19.08
	190	23.15	23.10	25.03	25.33	23.53	17.60	19.17	18.70	19.02
	251	23.45	23.60	24.83	25.24	23.60	17.57	19.23	18.55	19.06
GSM 850	Frame Avg.Targets:	23.30	23.30	24.81	24.57	23.32	17.30	18.81	18.57	18.82

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Table 10-2
Measured P_{limit} for DSI = 0 (F/O Body) for GSM 850 Ant A, A+C

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	29.85	30.10	26.75	24.93	23.75	26.73	25.41	23.21	22.26
	190	30.00	30.18	26.89	24.98	23.78	26.80	25.36	23.13	22.20
	251	29.88	29.89	27.02	25.31	24.01	26.77	25.42	22.98	22.24
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	20.65	20.90	20.56	20.50	20.57	17.53	19.22	18.78	19.08
	190	20.80	20.98	20.70	20.55	20.60	17.60	19.17	18.70	19.02
	251	20.68	20.69	20.83	20.88	20.83	17.57	19.23	18.55	19.06
GSM 850	Frame Avg.Targets:	21.30	21.30	21.31	21.27	21.32	17.30	18.81	18.57	18.82

Table 10-3
Measured P_{max} for DSI = 3 (F/C Head) and/or DSI=2 (F/O Head) for GSM 1900 Ant B

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	30.25	30.23	27.85	25.55	23.60	25.67	24.00	21.51	20.78
	661	29.57	29.54	27.91	25.11	23.41	25.58	23.85	21.66	20.92
	810	30.20	30.17	27.57	25.40	23.31	25.53	23.89	21.83	20.98
Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	21.05	21.03	21.66	21.12	20.42	16.47	17.81	17.08	17.60
	661	20.37	20.34	21.72	20.68	20.23	16.38	17.66	17.23	17.74
	810	21.00	20.97	21.38	20.97	20.13	16.33	17.70	17.40	17.80
GSM 1900	Frame Avg.Targets:	20.80	20.80	21.31	21.57	20.82	16.30	17.31	17.07	17.82

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Table 10-4
Measured P_{limit} for DSI = 0 (F/O Body) for GSM 1900 Ant B

		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	23.04	23.25	19.99	18.45	17.14	23.05	20.04	18.33	17.00
	661	22.65	22.55	19.72	18.11	16.77	22.95	19.72	18.15	16.85
	810	22.85	22.86	19.74	18.20	16.93	22.90	19.70	18.10	16.59
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	13.84	14.05	13.80	14.02	13.96	13.85	13.85	13.90	13.82
	661	13.45	13.35	13.53	13.68	13.59	13.75	13.53	13.72	13.67
	810	13.65	13.66	13.55	13.77	13.75	13.70	13.51	13.67	13.41
GSM 1900	Frame Avg.Targets:	14.30	14.30	13.81	14.27	14.32	14.30	14.31	14.27	14.32

Table 10-5
Measured P_{limit} for DSI = 1 (F/C Body) for GSM 1900 Ant B

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	27.42	27.42	24.53	22.61	21.39	25.67	24.00	21.51	20.78
	661	26.97	26.87	24.28	22.56	21.12	25.58	23.85	21.66	20.92
	810	27.39	27.31	24.17	22.68	21.08	25.53	23.89	21.83	20.98
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	18.22	18.22	18.34	18.18	18.21	16.47	17.81	17.08	17.60
	661	17.77	17.67	18.09	18.13	17.94	16.38	17.66	17.23	17.74
	810	18.19	18.11	17.98	18.25	17.90	16.33	17.70	17.40	17.80
GSM 1900	Frame Avg.Targets:	18.30	18.30	18.31	18.27	18.32	16.30	17.31	17.07	17.82

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Note:

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

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 10-6
Measured P_{max} for DSI = 1 (F/C Body), DSI = 2 (F/O Head) and/or DSI = 3 (F/C Head)
for UMTS 850 Ant A, A+C

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	24.58	24.75	24.68	-
99		12.2 kbps AMR	24.75	24.72	24.70	-
6	HSDPA	Subtest 1	24.21	24.16	23.98	0
6		Subtest 2	24.21	24.15	23.98	0
6		Subtest 3	23.71	23.67	23.47	0.5
6		Subtest 4	23.71	23.66	23.48	0.5
6	HSUPA	Subtest 1	24.22	24.16	24.03	0
6		Subtest 2	22.22	22.18	21.98	2
6		Subtest 3	23.22	23.17	22.99	1
6		Subtest 4	22.20	22.19	22.03	2
6		Subtest 5	24.23	24.21	24.03	0

Table 10-7
Measured P_{limit} for DSI = 0 (F/O Body) for UMTS 850 Ant A, A+C

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	20.94	20.92	20.68	-
99		12.2 kbps AMR	20.92	20.88	20.75	-
6	HSDPA	Subtest 1	20.18	20.13	19.93	0
6		Subtest 2	20.19	20.12	19.94	0
6		Subtest 3	19.69	19.63	19.43	0.5
6		Subtest 4	19.68	19.62	19.42	0.5
6	HSUPA	Subtest 1	20.15	20.13	19.93	0
6		Subtest 2	18.17	18.12	17.92	2
6		Subtest 3	19.12	19.10	18.91	1
6		Subtest 4	18.15	18.09	17.94	2
6		Subtest 5	20.21	20.12	19.97	0

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 10 for HSDPA

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



Figure 10-2
Power Measurement Setup

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10.3 LTE Conducted Powers

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

Note: Some bands do not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

LTE Carrier Aggregation Notes:

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

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10.3.1 LTE Band 12

Table 10-8
LTE Band 12 Ant A, A+C Measured P_{Max} for DSI = 1 (F/C Body), DSI = 2 (F/O Head)
and/or DSI = 3 (F/C Head)

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	24.25	0	0
	1	25	24.24		0
	1	49	24.22		0
	25	0	23.12	0-1	1
	25	12	23.21		1
	25	25	23.20		1
	50	0	23.20		1
16QAM	1	0	23.45	0-1	1
	1	25	23.46		1
	1	49	23.36		1
	25	0	22.25	0-2	2
	25	12	22.18		2
	25	25	22.21		2
	50	0	22.28		2
64QAM	1	0	22.37	0-2	2
	1	25	22.37		2
	1	49	22.24		2
	25	0	21.24	0-3	3
	25	12	21.27		3
	25	25	21.24		3
	50	0	21.18		3

Table 10-9
LTE Band 12 Ant A, A+C Measured P_{limit} for DSI = 0 (F/O Body)

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	20.83	0	0
	1	25	20.89		0
	1	49	20.94		0
	25	0	20.82	0-1	0
	25	12	20.90		0
	25	25	20.89		0
	50	0	20.88		0
16QAM	1	0	21.04	0-1	0
	1	25	21.09		0
	1	49	21.06		0
	25	0	20.86	0-2	0
	25	12	20.96		0
	25	25	20.95		0
	50	0	20.94		0
64QAM	1	0	21.11	0-2	0
	1	25	20.98		0
	1	49	21.06		0
	25	0	20.87	0-3	0
	25	12	20.87		0
	25	25	20.97		0
	50	0	20.92		0

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10.3.2 LTE Band 13

Table 10-10
LTE Band 13 Ant A, A+C Measured P_{Max} for DSI = 1 (F/C Body), DSI =2 (F/O Head)
and/or DSI = 3 (F/C Head)

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.79	0	0
	1	25	24.54		0
	1	49	24.51		0
	25	0	23.67	0-1	1
	25	12	23.71		1
	25	25	23.62		1
	50	0	23.65		1
16QAM	1	0	23.82	0-1	1
	1	25	23.96		1
	1	49	23.75		1
	25	0	22.68	0-2	2
	25	12	22.62		2
	25	25	22.56		2
	50	0	22.66		2
64QAM	1	0	22.93	0-2	2
	1	25	22.78		2
	1	49	22.60		2
	25	0	21.72	0-3	3
	25	12	21.58		3
	25	25	21.55		3
	50	0	21.64		3

Table 10-11
LTE Band 13 Ant A, A+C Measured P_{limit} for DSI = 0 (F/O Body)

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	21.12	0	0
	1	25	21.18		0
	1	49	20.87		0
	25	0	21.04	0-1	0
	25	12	21.05		0
	25	25	20.98		0
	50	0	20.98		0
16QAM	1	0	21.31	0-1	0
	1	25	21.23		0
	1	49	20.97		0
	25	0	21.07	0-2	0
	25	12	21.03		0
	25	25	20.94		0
	50	0	21.03		0
64QAM	1	0	21.32	0-2	0
	1	25	21.19		0
	1	49	20.91		0
	25	0	21.01	0-3	0
	25	12	20.99		0
	25	25	20.95		0
	50	0	21.04		0

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10.3.3 LTE Band 5

Table 10-12

LTE Band 5 Ant A, A+C Measured P_{Max} for DSI = 1 (F/C Body), DSI =2 (F/O Head) and/or DSI = 3 (F/C Head)

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.72	0	0
	1	25	24.79		0
	1	49	24.74		0
	25	0	23.71	0-1	1
	25	12	23.77		1
	25	25	23.80		1
	50	0	23.70		1
16QAM	1	0	23.89	0-1	1
	1	25	23.94		1
	1	49	23.79		1
	25	0	22.71	0-2	2
	25	12	22.77		2
	25	25	22.80		2
	50	0	22.70		2
64QAM	1	0	22.80	0-2	2
	1	25	22.98		2
	1	49	22.77		2
	25	0	21.61	0-3	3
	25	12	21.79		3
	25	25	21.73		3
	50	0	21.72		3

Table 10-13

LTE Band 5 Ant A, A+C Measured P_{limit} for DSI = 0 (F/O Body)

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.50	0	0
	1	25	20.73		0
	1	49	20.57		0
	25	0	20.61	0-1	0
	25	12	20.55		0
	25	25	20.59		0
	50	0	20.58		0
16QAM	1	0	20.65	0-1	0
	1	25	20.86		0
	1	49	20.81		0
	25	0	20.59	0-2	0
	25	12	20.63		0
	25	25	20.58		0
	50	0	20.58		0
64QAM	1	0	20.79	0-2	0
	1	25	20.91		0
	1	49	20.87		0
	25	0	20.62	0-3	0
	25	12	20.52		0
	25	25	20.62		0
	50	0	20.60		0

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10.3.4 LTE Band 66

Table 10-14
LTE Band 66 Ant B Measured P_{Max} for DSI = 3 (F/C Head), and/or DSI =2 (F/O Head)

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	24.40	24.58	24.66	0	0
	1	50	24.58	24.37	24.68		0
	1	99	24.71	24.40	24.66		0
	50	0	23.51	23.39	23.43	0-1	1
	50	25	23.62	23.54	23.51		1
	50	50	23.64	23.50	23.56		1
	100	0	23.58	23.50	23.48		1
16QAM	1	0	23.75	23.43	23.76	0-1	1
	1	50	23.80	23.57	24.00		1
	1	99	23.79	23.72	23.91		1
	50	0	22.60	22.47	22.46	0-2	2
	50	25	22.68	22.53	22.50		2
	50	50	22.64	22.57	22.58		2
	100	0	22.67	22.50	22.48		2
64QAM	1	0	22.35	22.59	22.61	0-2	2
	1	50	23.00	22.77	22.59		2
	1	99	22.69	22.57	22.93		2
	50	0	21.55	21.46	21.49	0-3	3
	50	25	21.60	21.53	21.46		3
	50	50	21.57	21.54	21.56		3
	100	0	21.61	21.55	21.43		3

Table 10-15
LTE Band 66 Ant B Measured P_{limit} for DSI = 1 (F/C Body)

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	17.82	17.54	17.72	0	0
	1	50	17.92	17.97	17.84		0
	1	99	17.79	17.79	17.76		0
	50	0	17.61	17.59	17.61	0-1	0
	50	25	17.86	17.66	17.79		0
	50	50	17.77	17.68	17.75		0
	100	0	17.81	17.63	17.75		0
16QAM	1	0	17.91	17.73	17.67	0-1	0
	1	50	18.07	17.79	17.83		0
	1	99	17.68	17.85	17.97		0
	50	0	17.74	17.54	17.61	0-2	0
	50	25	17.78	17.68	17.82		0
	50	50	17.82	17.71	17.85		0
	100	0	17.75	17.64	17.71		0
64QAM	1	0	17.87	17.59	18.06	0-2	0
	1	50	17.94	17.74	17.91		0
	1	99	17.95	17.69	17.87		0
	50	0	17.71	17.60	17.66	0-3	0
	50	25	17.84	17.59	17.83		0
	50	50	17.82	17.65	17.82		0
	100	0	17.71	17.66	17.75		0

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Table 10-16
LTE Band 66 Ant B Measured P_{limit} for DSI = 0 (F/O Body)

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	14.25	13.96	14.27	0	0
	1	50	14.24	14.08	14.29		0
	1	99	14.17	14.02	14.30		0
	50	0	14.17	14.06	14.17	0-1	0
	50	25	14.27	14.16	14.23		0
	50	50	14.24	14.07	14.29		0
	100	0	14.28	14.10	14.22		0
16QAM	1	0	14.27	14.28	14.17	0-1	0
	1	50	14.38	14.41	14.52		0
	1	99	14.33	14.16	14.45		0
	50	0	14.22	14.03	14.11	0-2	0
	50	25	14.31	14.15	14.26		0
	50	50	14.23	14.10	14.20		0
	100	0	14.24	14.09	14.12		0
64QAM	1	0	14.41	14.36	14.14	0-2	0
	1	50	14.53	14.34	14.42		0
	1	99	14.33	14.29	14.34		0
	50	0	14.18	14.06	14.10	0-3	0
	50	25	14.31	14.12	14.29		0
	50	50	14.32	14.12	14.24		0
	100	0	14.29	14.19	14.25		0

10.3.5 LTE Band 2

Table 10-17
LTE Band 2 Ant B Measured P_{Max} for DSI = 3 (F/C Head), and/or DSI = 2 (F/O Head)

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.15	24.06	24.15	0	0
	1	50	24.21	24.03	24.31		0
	1	99	24.18	24.30	24.19		0
	50	0	23.19	23.03	23.14	0-1	1
	50	25	23.16	23.07	23.06		1
	50	50	23.18	23.10	23.29		1
	100	0	23.14	22.92	23.27	1	
16QAM	1	0	23.19	22.95	23.56	0-1	1
	1	50	23.21	23.24	23.53		1
	1	99	23.23	23.18	23.46		1
	50	0	22.05	21.90	22.10	0-2	2
	50	25	22.09	22.05	22.28		2
	50	50	22.00	22.05	22.25		2
	100	0	21.89	21.90	22.37	2	
64QAM	1	0	22.11	22.16	22.34	0-2	2
	1	50	21.82	21.95	22.52		2
	1	99	21.90	22.39	22.38		2
	50	0	21.22	21.03	21.12	0-3	3
	50	25	21.04	21.08	21.23		3
	50	50	20.99	21.11	21.26		3
	100	0	21.13	21.04	21.25	3	

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Table 10-18
LTE Band 2 Ant B Measured P_{limit} for DSI = 1 (F/C Body)

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.01	17.66	18.05	0	0
	1	50	17.87	17.93	17.91		0
	1	99	17.87	17.73	17.76		0
	50	0	17.81	17.67	17.76	0-1	0
	50	25	17.86	17.76	17.75		0
	50	50	17.75	17.67	17.78		0
	100	0	17.77	17.59	17.81		0
16QAM	1	0	17.87	17.87	17.80	0-1	0
	1	50	18.06	17.86	17.88		0
	1	99	17.72	17.78	18.02		0
	50	0	17.74	17.67	17.69	0-2	0
	50	25	17.88	17.77	17.77		0
	50	50	17.86	17.73	17.80		0
	100	0	17.79	17.69	17.72		0
64QAM	1	0	17.84	17.72	17.87	0-2	0
	1	50	18.03	17.81	18.04		0
	1	99	17.90	17.82	18.05		0
	50	0	17.74	17.67	17.78	0-3	0
	50	25	17.80	17.79	17.76		0
	50	50	17.77	17.68	17.87		0
	100	0	17.82	17.79	17.73		0

Table 10-19
LTE Band 2 Ant B Measured P_{limit} for DSI = 0 (F/O Body)

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	14.80	14.71	14.31	0	0
	1	50	14.23	14.20	14.32		0
	1	99	14.20	14.22	14.25		0
	50	0	14.22	14.19	14.26	0-1	0
	50	25	14.34	14.32	14.25		0
	50	50	14.32	14.29	14.27		0
	100	0	14.31	14.28	14.25		0
16QAM	1	0	14.58	14.49	14.23	0-1	0
	1	50	14.42	14.42	14.57		0
	1	99	14.31	14.31	14.58		0
	50	0	14.27	14.18	14.26	0-2	0
	50	25	14.34	14.28	14.22		0
	50	50	14.24	14.22	14.27		0
	100	0	14.29	14.25	14.18		0
64QAM	1	0	14.41	14.30	14.51	0-2	0
	1	50	14.55	14.36	14.45		0
	1	99	14.30	14.32	14.57		0
	50	0	14.27	14.17	14.20	0-3	0
	50	25	14.32	14.29	14.23		0
	50	50	14.23	14.22	14.32		0
	100	0	14.34	14.24	14.24		0

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10.3.6 LTE Band 41

Table 10-20
LTE Band 41 Ant B Measured P_{Max} for DSI = 3 (F/C Head), DSI = 2 (F/O Head)

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	17.35	17.42	17.62	17.84	17.69	0	0
	1	50	17.36	17.48	17.65	17.76	17.58		0
	1	99	17.32	17.60	17.50	17.60	17.45		0
	50	0	17.41	17.51	17.71	17.87	17.74	0-1	0
	50	25	17.34	17.57	17.69	17.85	17.67		0
	50	50	17.35	17.55	17.66	17.72	17.52		0
	100	0	17.30	17.51	17.68	17.83	17.66		0
16QAM	1	0	17.32	17.44	17.65	17.85	17.72	0-1	0
	1	50	17.36	17.55	17.63	17.80	17.62		0
	1	99	17.37	17.45	17.51	17.49	17.34		0
	50	0	17.40	17.52	17.73	17.86	17.70	0-2	0
	50	25	17.35	17.56	17.66	17.86	17.67		0
	50	50	17.33	17.57	17.60	17.70	17.50		0
	100	0	17.31	17.53	17.67	17.84	17.69		0
64QAM	1	0	17.45	17.57	17.76	17.93	17.78	0-2	0
	1	50	17.46	17.58	17.69	17.84	17.64		0
	1	99	17.37	17.49	17.65	17.70	17.50		0
	50	0	17.41	17.54	17.73	17.93	17.70	0-3	0
	50	25	17.33	17.59	17.73	17.88	17.68		0
	50	50	17.35	17.61	17.64	17.75	17.49		0
	100	0	17.31	17.56	17.68	17.85	17.63		0

Table 10-21
LTE Band 41 Ant B Uplink Carrier Aggregation Measured P_{Max} for DSI = 3 (F/C Head), DSI = 2 (F/O Head)

		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)
SCC lower	CA_41C	LTE B41	20	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	17.32	17.42
SCC higher	CA_41C	LTE B41	20	40185	2549.5	QPSK	1	99	LTE B41	20	40383	2569.3	QPSK	1	0	17.51	17.60
SCC lower	CA_41C	LTE B41	20	41055	2636.5	QPSK	1	0	LTE B41	20	40857	2616.7	QPSK	1	99	17.71	17.84

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Table 10-22
LTE Band 41 Ant B Measured P_{limit} for DSI = 1 (F/C Body)

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	19.29	19.42	19.62	19.62	19.75	0	0
	1	50	19.29	19.43	19.50	19.47	19.45		0
	1	99	19.39	19.43	19.38	19.38	19.40		0
	50	0	19.46	19.49	19.68	19.67	19.75	0-1	0
	50	25	19.51	19.55	19.72	19.60	19.78		0
	50	50	19.52	19.54	19.65	19.61	19.72		0
	100	0	19.44	19.49	19.72	19.58	19.68		0
16QAM	1	0	19.25	19.43	19.77	19.86	19.78	0-1	0
	1	50	19.54	19.51	19.75	19.78	19.78		0
	1	99	19.43	19.40	19.58	19.47	19.90		0
	50	0	19.44	19.49	19.67	19.69	19.75	0-2	0
	50	25	19.47	19.55	19.74	19.63	19.79		0
	50	50	19.52	19.51	19.66	19.57	19.73		0
	100	0	19.46	19.50	19.69	19.60	19.70		0
64QAM	1	0	19.38	19.57	19.88	19.90	20.13	0-2	0
	1	50	19.53	19.59	19.69	19.69	19.54		0
	1	99	19.57	19.49	19.65	19.54	19.73		0
	50	0	19.43	19.48	19.69	19.67	19.74	0-3	0
	50	25	19.52	19.55	19.73	19.59	19.82		0
	50	50	19.53	19.56	19.68	19.62	19.74		0
	100	0	19.45	19.55	19.70	19.57	19.70		0

Table 10-23
LTE Band 41 Ant B Uplink Carrier Aggregation Measured P_{limit} for DSI = 1 (F/C Body)

		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)
SCC lower	CA_41C	LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	19.61	19.75

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Table 10-24
LTE Band 41 Ant B Measured P_{limit} for DSI = 0 (F/O Body)

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	15.44	15.53	15.78	15.72	15.81	0	0
	1	50	15.41	15.46	15.73	15.57	15.75		0
	1	99	15.50	15.52	15.59	15.45	15.57		0
	50	0	15.45	15.50	15.68	15.65	15.75	0-1	0
	50	25	15.49	15.57	15.71	15.61	15.79		0
	50	50	15.47	15.54	15.65	15.60	15.70		0
	100	0	15.45	15.51	15.71	15.58	15.67		0
16QAM	1	0	15.36	15.44	15.89	15.58	15.60	0-1	0
	1	50	15.32	15.57	15.81	15.57	15.77		0
	1	99	15.53	15.53	15.45	15.46	15.85		0
	50	0	15.43	15.50	15.67	15.64	15.75	0-2	0
	50	25	15.48	15.55	15.74	15.60	15.76		0
	50	50	15.49	15.52	15.64	15.56	15.77		0
	100	0	15.45	15.52	15.66	15.55	15.67		0
64QAM	1	0	15.38	15.49	15.99	15.80	15.84	0-2	0
	1	50	15.47	15.56	15.73	15.62	15.77		0
	1	99	15.48	15.54	15.58	15.58	15.62		0
	50	0	15.43	15.46	15.69	15.67	15.74	0-3	0
	50	25	15.50	15.52	15.71	15.60	15.79		0
	50	50	15.49	15.55	15.61	15.59	15.69		0
	100	0	15.43	15.53	15.65	15.54	15.67		0

Table 10-25
LTE Band 41 Ant B Uplink Carrier Aggregation Measured P_{limit} for DSI = 0 (F/O Body)

	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)
SCC lower	CA_41C	LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	15.85	15.81

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Table 10-26
LTE Band 41 Ant G Measured P_{limit} for DSI = 3 (F/C Head), DSI = 2 (F/O Head)

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	17.35	17.42	17.62	17.84	17.69	0	0	
	1	50	17.36	17.48	17.65	17.76	17.58		0-1	0
	1	99	17.32	17.46	17.50	17.60	17.45			0
	50	0	17.41	17.51	17.71	17.87	17.74	0		
	50	25	17.34	17.57	17.69	17.85	17.67	0		0
	50	50	17.35	17.55	17.66	17.72	17.52		0	
	100	0	17.30	17.51	17.68	17.83	17.66		0	
16QAM	1	0	17.32	17.44	17.65	17.85	17.72	0-1	0	
	1	50	17.36	17.55	17.63	17.80	17.62		0-2	0
	1	99	17.37	17.45	17.51	17.49	17.34			0
	50	0	17.40	17.52	17.73	17.86	17.70	0		
	50	25	17.35	17.56	17.66	17.86	17.67	0		0
	50	50	17.33	17.57	17.60	17.70	17.50		0	
	100	0	17.31	17.53	17.67	17.84	17.69		0	
64QAM	1	0	17.45	17.57	17.76	17.93	17.78	0-2	0	
	1	50	17.46	17.58	17.69	17.84	17.64		0-3	0
	1	99	17.37	17.49	17.65	17.70	17.50			0
	50	0	17.41	17.54	17.73	17.93	17.70	0		
	50	25	17.33	17.59	17.73	17.88	17.68	0		0
	50	50	17.35	17.61	17.64	17.75	17.49		0	
	100	0	17.31	17.56	17.68	17.85	17.63		0	

Table 10-27
LTE Band 41 Ant G Uplink Carrier Aggregation Measured P_{limit} for DSI = 3 (F/C Head), DSI = 2 (F/O Head)

		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)
SCC lower	CA_41C	LTE B41	20	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	17.32	17.42
SCC higher	CA_41C	LTE B41	20	40185	2549.5	QPSK	1	99	LTE B41	20	40383	2569.3	QPSK	1	0	17.48	17.46
SCC lower	CA_41C	LTE B41	20	41055	2636.5	QPSK	1	0	LTE B41	20	40857	2616.7	QPSK	1	99	17.71	17.84

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Table 10-28
LTE Band 41 Ant G Measured P_{limit} for DSI = 1 (F/C Body)

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	17.81	17.91	18.12	18.35	18.15	0	0
	1	50	17.84	17.97	18.14	18.28	18.08		0
	1	99	17.81	17.93	18.01	18.07	17.87		0
	50	0	17.87	18.01	18.20	18.39	18.19	0-1	0
	50	25	17.81	18.07	18.18	18.34	18.17		0
	50	50	17.79	18.07	18.13	18.22	18.01		0
	100	0	17.78	17.99	18.14	18.32	18.14		0
16QAM	1	0	17.88	17.89	18.05	18.29	18.13	0-1	0
	1	50	17.95	18.06	18.05	18.29	18.02		0
	1	99	17.91	17.97	17.94	18.19	17.94		0
	50	0	17.89	18.07	18.19	18.37	18.22	0-2	0
	50	25	17.82	18.03	18.18	18.31	18.17		0
	50	50	17.79	18.08	18.13	18.18	18.00		0
	100	0	17.80	18.02	18.15	18.30	18.14		0
64QAM	1	0	17.88	18.03	18.22	18.44	18.35	0-2	0
	1	50	17.92	18.05	18.28	18.38	18.22		0
	1	99	17.89	18.17	18.17	18.16	17.93		0
	50	0	17.87	18.02	18.21	18.39	18.20	0-3	0
	50	25	17.81	18.08	18.18	18.31	18.16		0
	50	50	17.80	18.05	18.13	18.16	18.00		0
	100	0	17.80	18.02	18.16	18.33	18.13		0

Table 10-29
LTE Band 41 Ant G Uplink Carrier Aggregation Measured P_{limit} for DSI = 1 (F/C Body)

LTE Band 41 CA: SC-PTM Carrier Aggregation Mode (CA: SC-PTM)																	
	Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC				SCC						Power		
					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)
SCC higher	CA_41C	LTE B41	20	40185	2549.5	QPSK	1	99	LTE B41	20	40383	2569.3	QPSK	1	0	17.82	17.93

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Table 10-30
LTE Band 41 Ant G Measured P_{limit} for DSI = 0 (F/O Body)

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	12.66	12.98	13.23	13.47	13.30	0	0
	1	50	12.72	13.09	13.16	13.22	13.01		0
	1	99	12.73	13.10	13.02	13.09	12.84		0
	50	0	12.78	13.01	13.20	13.43	13.20	0-1	0
	50	25	12.77	13.06	13.21	13.34	13.14		0
	50	50	12.81	13.13	13.17	13.21	12.97		0
	100	0	12.72	13.04	13.23	13.33	13.13		0
16QAM	1	0	12.66	13.03	13.17	13.34	13.13	0-1	0
	1	50	12.72	13.09	13.12	13.30	13.08		0
	1	99	12.77	13.01	13.02	13.00	12.86		0
	50	0	12.73	13.03	13.17	13.41	13.21	0-2	0
	50	25	12.80	13.08	13.25	13.38	13.14		0
	50	50	12.79	13.18	13.19	13.20	13.00		0
	100	0	12.77	13.01	13.25	13.36	13.14		0
64QAM	1	0	12.76	13.00	13.31	13.39	13.21	0-2	0
	1	50	12.89	13.18	13.13	13.31	13.14		0
	1	99	12.85	13.07	13.13	13.18	12.99		0
	50	0	12.82	13.02	13.19	13.44	13.20	0-3	0
	50	25	12.81	13.08	13.24	13.37	13.13		0
	50	50	12.85	13.18	13.16	13.19	12.96		0
	100	0	12.77	13.05	13.21	13.34	13.10		0

Table 10-31
LTE Band 41 Ant G Uplink Carrier Aggregation Measured P_{limit} for DSI = 0 (F/C Body)

	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)
SCC lower	CA_41C	LTE B41	20	41055	2636.5	QPSK	50	0	LTE B41	20	40857	2616.7	QPSK	50	50	13.55	13.43

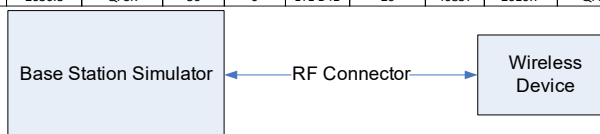


Figure 10-3
Power Measurement Setup

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10.4 NR Conducted Powers

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

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

10.4.1 NR Band n5

Table 10-32
NR Band n5 Ant. A, A+C Measured P_{Max} for DSI = 1 (F/C Body), DSI = 2 (F/O Head)
and/or DSI = 3 (F/C Head)

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.99	0	0.0
	1	53	23.98		0.0
	1	104	23.85		0.0
	50	0	22.95	0-1	1.0
	50	28	23.91	0	0.0
	50	56	22.76		1.0
	100	0	22.99		1.0
DFT-s-OFDM 16QAM	1	1	22.87	0-1	1.0
CP-OFDM QPSK	1	1	22.56	0-1.5	1.5

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Table 10-33
NR Band n5 Ant. A, A+C Measured P_{limit} for DSI = 0 (F/O Body)

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.33	0	0.0
	1	53	20.25		0.0
	1	104	20.23		0.0
	50	0	20.23	0-1	0.0
	50	28	20.28	0	0.0
	50	56	20.10	0-1	0.0
	100	0	20.25		0.0
DFT-s-OFDM 16QAM	1	1	20.15	0-1	0.0
CP-OFDM QPSK	1	1	20.38	0-1.5	0.0

10.4.2 NR Band n66

Table 10-34
NR Band n66 Ant B Measured P_{Max} for DSI = 3 (F/C Head), and/or DSI = 2 (F/O Head)

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.58	0	0.0
	1	108	23.47		0.0
	1	214	23.60		0.0
	108	0	22.49	0-1	1.0
	108	54	23.48	0	0.0
	108	108	22.45	0-1	1.0
	216	0	22.42		1.0
DFT-s-OFDM 16QAM	1	1	22.52	0-1	1.0
CP-OFDM QPSK	1	1	22.15	0-1.5	1.5

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Table 10-35
NR Band n66 Ant B Measured P_{limit} for DSI = 1 (F/C Body)

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.41	0	0.0
	1	108	17.16		0.0
	1	214	17.39		0.0
	108	0	17.26	0-1	0.0
	108	54	17.33	0	0.0
	108	108	17.41	0-1	0.0
	216	0	17.34		0.0
DFT-s-OFDM 16QAM	1	1	17.28	0-1	0.0
CP-OFDM QPSK	1	1	17.44	0-1.5	0.0

Table 10-36
NR Band n66 Ant B Measured P_{limit} for DSI = 0 (F/O Body)

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	13.91	0	0.0
	1	108	13.84		0.0
	1	214	13.84		0.0
	108	0	13.78	0-1	0.0
	108	54	13.82	0	0.0
	108	108	13.86	0-1	0.0
	216	0	13.84		0.0
DFT-s-OFDM 16QAM	1	1	13.89	0-1	0.0
CP-OFDM QPSK	1	1	13.90	0-1.5	0.0

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Table 10-37
NR Band n66 Ant G Measured P_{limit} for DSI = 2 (F/O Head), and/or DSI = 3 (F/C Head)

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.09	0	0.0
	1	108	20.19		0.0
	1	214	20.06		0.0
	108	0	20.24	0-1	0.0
	108	54	20.17	0	0.0
	108	108	20.12	0-1	0.0
	216	0	20.17		0.0
DFT-s-OFDM 16QAM	1	1	20.25	0-1	0.0
CP-OFDM QPSK	1	1	20.14	0-1.5	0.0

Table 10-38
NR Band n66 Ant G Measured P_{limit} for DSI = 1 (F/C Body)

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.51	0	0.0
	1	108	17.55		0.0
	1	214	17.53		0.0
	108	0	17.59	0-1	0.0
	108	54	17.56	0	0.0
	108	108	17.46	0-1	0.0
	216	0	17.53		0.0
DFT-s-OFDM 16QAM	1	1	17.84	0-1	0.0
CP-OFDM QPSK	1	1	17.58	0-1.5	0.0

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Table 10-39
NR Band n66 Ant G Measured P_{Limit} for DSI = 0 (F/O Body)

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.04	0	0.0
	1	108	14.08		0.0
	1	214	13.89		0.0
	108	0	14.05	0-1	0.0
	108	54	13.98	0	0.0
	108	108	13.94	0-1	0.0
	216	0	14.03		0.0
DFT-s-OFDM 16QAM	1	1	14.35	0-1	0.0
CP-OFDM QPSK	1	1	14.02	0-1.5	0.0

10.4.3 NR Band n41

Table 10-40
NR Band n41 PC3 Ant G Measured P_{Limit} for DSI = 3 (F/C Head), and/or DSI = 2 (F/O Head)

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	16.25	0	0.0
	1	137	16.59		0.0
	1	271	16.69		0.0
	135	0	16.35	0-1	0.0
	135	69	16.63	0	0.0
	135	138	16.74	0-1	0.0
	270	0	16.61		0.0
DFT-s-OFDM 16QAM	1	1	16.44	0-1	0.0
CP-OFDM QPSK	1	1	16.39	0-1.5	0.0

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Table 10-41
NR Band n41 PC3 Ant G Measured P_{limit} for DSI = 1 (F/C Body)

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	16.76	0	0.0
	1	137	17.11		0.0
	1	271	17.22		0.0
	135	0	16.87	0-1	0.0
	135	69	17.13	0	0.0
	135	138	17.22	0-1	0.0
	270	0	17.07		0.0
DFT-s-OFDM 16QAM	1	1	16.88	0-1	0.0
CP-OFDM QPSK	1	1	16.93	0-1.5	0.0

Table 10-42
NR Band n41 PC3 Ant G Measured P_{limit} for DSI = 0 (F/O Body)

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	11.71	0	0.0
	1	137	12.15		0.0
	1	271	12.35		0.0
	135	0	11.87	0-1	0.0
	135	69	12.08	0	0.0
	135	138	12.25	0-1	0.0
	270	0	12.06		0.0
DFT-s-OFDM 16QAM	1	1	11.88	0-1	0.0
CP-OFDM QPSK	1	1	11.81	0-1.5	0.0

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Table 10-43
NR Band n41 PC3 Ant B Measured P_{Max} for DSI = 3 (F/C Head), and/or DSI = 2 (F/O Head)

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	24.40	0	0.0
	1	137	24.31		0.0
	1	271	24.44		0.0
	135	0	23.64	0-1	1.0
	135	69	24.26	0	0.0
	135	138	23.75	0-1	1.0
	270	0	23.74		1.0
DFT-s-OFDM 16QAM	1	1	23.42	0-1	1.0
CP-OFDM QPSK	1	1	23.00	0-1.5	1.5

Table 10-44
NR Band n41 PC3 Ant B Measured P_{limit} for DSI = 1 (F/C Body)

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	17.99	0	0.0
	1	137	18.18		0.0
	1	271	18.23		0.0
	135	0	18.16	0-1	0.0
	135	69	18.17	0	0.0
	135	138	18.31	0-1	0.0
	270	0	18.20		0.0
DFT-s-OFDM 16QAM	1	1	18.09	0-1	0.0
CP-OFDM QPSK	1	1	17.91	0-1.5	0.0

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Table 10-45
NR Band n41 PC3 Ant B Measured P_{limit} for DSI = 0 (F/O Body)

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	14.03	0	0.0
	1	137	14.17		0.0
	1	271	14.19		0.0
	135	0	14.05	0-1	0.0
	135	69	14.10	0	0.0
	135	138	14.15	0-1	0.0
	270	0	14.14		0.0
DFT-s-OFDM 16QAM	1	1	14.02	0-1	0.0
CP-OFDM QPSK	1	1	14.07	0-1.5	0.0

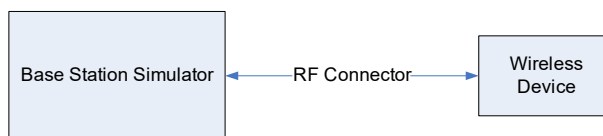


Figure 10-4
Power Measurement Setup – NR FDD

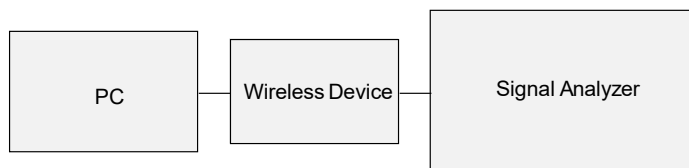


Figure 10-5
Power Measurement Setup – NR TDD

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10.5 WLAN Conducted Powers

Table 10-46
2.4 GHz WLAN Measured P_{Max} Average RF Power for DSI = 2 (F/O Head), and/or DSI = 3 (F/C Head)
– Ant H

2.4GHz WIFI (20MHz 802.11b SISO Ant H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.79
2437	6		19.25
2462	11		19.22
2.4GHz WIFI (20MHz 802.11g SISO Ant H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.38
2437	6		17.30
2462	11		17.30
2.4GHz WIFI (20MHz 802.11n SISO Ant H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.33
2437	6		17.23
2462	11		17.34
2.4GHz WIFI (20MHz 802.11ac SISO Ant H)			
h	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.29
2437	6		17.16
2462	11		17.46
2.4GHz WIFI (20MHz 802.11ax SISO Ant H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.38
2437	6		17.45
2462	11		17.56
2.4GHz WIFI (20MHz 802.11be SISO Ant H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.41
2437	6		17.43
2462	11		17.49

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Table 10-47
2.4 GHz WLAN Measured P_{Max} Average RF Power for DSI = 2 (F/O Head), and/or DSI = 3 (F/C Head)
– Ant F

2.4GHz WIFI (20MHz 802.11b SISO Ant F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.38
2437	6		19.06
2462	11		19.08
2.4GHz WIFI (20MHz 802.11g SISO Ant F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.74
2437	6		17.64
2462	11		17.78
2.4GHz WIFI (20MHz 802.11n SISO Ant F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.59
2437	6		17.47
2462	11		17.65
2.4GHz WIFI (20MHz 802.11ac SISO Ant F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.63
2437	6		17.55
2462	11		17.67
2.4GHz WIFI (20MHz 802.11ax SISO Ant F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.65
2437	6		17.58
2462	11		17.65
2.4GHz WIFI (20MHz 802.11be SISO Ant F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.48
2437	6		17.54
2462	11		17.66

Table 10-48
2.4 GHz WLAN Measured P_{Max} Average RF Power for All DSI - MIMO

2.4GHz WIFI (20MHz 802.11g MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	17.30	17.25	20.29
2437	6		17.10	17.13	20.13
2462	11		17.03	17.24	20.15

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Table 10-49
2.4 GHz WLAN Measured P_{Limit} Average RF Power for DSI =0 (F/O Body) and/or DSI = 1 (F/C Body)
– Ant H

2.4GHz WIFI (20MHz 802.11b SISO ANTH)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.45
2437	6		17.18
2462	11		17.09

Table 10-50
2.4 GHz WLAN Measured P_{Limit} Average RF Power for DSI =0 (F/O Body) and/or DSI = 1 (F/C Body)
– Ant F

2.4GHz WIFI (20MHz 802.11b SISO Ant F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.61
2437	6		17.45
2462	11		17.27

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Table 10-51
5 GHz WLAN Measured P_{Max} Average RF Power for DSI = 2 (F/O Head), and/or DSI = 3 (F/C Head) – Ant F

5GHz WIFI (40MHz 802.11n SISO Ant F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	9.46
	5230	46	17.53
UNII-2A	5270	54	17.35
	5310	62	10.76
UNII-3	5755	151	17.46
	5795	159	17.59
UNII-4	5835	167	17.55
	5875	175	17.63
5GHz WIFI (40MHz 802.11ac SISO Ant F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	9.15
	5230	46	17.24
UNII-2A	5270	54	17.23
	5310	62	10.72
UNII-3	5755	151	17.05
	5795	159	17.02
UNII-4	5835	167	17.13
	5875	175	17.35
5GHz WIFI (40MHz 802.11ax SISO Ant F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	9.26
	5230	46	17.36
UNII-2A	5270	54	17.29
	5310	62	10.76
UNII-3	5755	151	17.58
	5795	159	17.27
UNII-4	5835	167	17.40
	5875	175	17.47
5GHz WIFI (40MHz 802.11be SISO Ant F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	9.08
	5230	46	17.16
UNII-2A	5270	54	17.18
	5310	62	10.61
UNII-3	5755	151	17.41
	5795	159	17.05
UNII-4	5835	167	17.18
	5875	175	17.21

5GHz WIFI (80MHz 802.11ac SISO Ant F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.26
	5610	122	17.04
	5690	138	17.26
5GHz WIFI (80MHz 802.11ax SISO Ant F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.33
	5610	122	17.05
	5690	138	17.21
5GHz WIFI (80MHz 802.11be SISO Ant F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.34
	5610	122	17.03
	5690	138	17.26

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Table 10-52

5 GHz WLAN Measured P_{Max} Average RF Power for DSI = 2 (F/O Head), and/or DSI = 3 (F/C Head)– Ant E

5GHz WIFI (40MHz 802.11n SISO Ant E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	9.45
	5230	46	17.60
UNII-2A	5270	54	17.62
	5310	62	11.30
UNII-3	5755	151	17.06
	5795	159	17.13
UNII-4	5835	167	17.09
	5875	175	17.07
5GHz WIFI (40MHz 802.11ac SISO Ant E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	9.00
	5230	46	17.20
UNII-2A	5270	54	17.37
	5310	62	11.05
UNII-3	5755	151	16.89
	5795	159	17.25
UNII-4	5835	167	17.23
	5875	175	17.46
5GHz WIFI (40MHz 802.11ax SISO Ant E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	8.96
	5230	46	17.31
UNII-2A	5270	54	17.41
	5310	62	10.59
UNII-3	5755	151	17.01
	5795	159	16.96
UNII-4	5835	167	17.06
	5875	175	17.18
5GHz WIFI (80MHz 802.11ac SISO Ant E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.02
	5610	122	17.17
	5690	138	17.10
5GHz WIFI (80MHz 802.11ax SISO Ant E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.13
	5610	122	17.39
	5690	138	17.04
5GHz WIFI (20MHz 802.11be SISO Ant E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	8.77
	5230	46	17.33
UNII-2A	5270	54	17.18
	5310	62	10.41
UNII-3	5755	151	16.84
	5795	159	16.78
UNII-4	5835	167	16.81
	5875	175	16.94
5GHz WIFI (80MHz 802.11be SISO Ant E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.18
	5610	122	17.46
	5690	138	17.08

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Table 10-53

5 GHz WLAN Measured P_{Max} Average RF Power for DSI = 2 (F/O Head), and/or DSI = 3 (F/C Head) – MIMO

5GHz WIFI (40MHz 802.11n MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5190	38	9.60	9.46	12.54
	5230	46	17.80	17.62	20.72
UNII-2A	5270	54	17.52	17.58	20.56
	5310	62	10.29	10.68	13.50
UNII-3	5755	151	17.48	17.13	20.32
	5795	159	17.60	17.12	20.38
UNII-4	5835	167	17.58	17.10	20.36
	5875	175	17.68	17.12	20.42
5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-2C	5530	106	13.10	12.87	16.00
	5610	122	16.85	17.00	19.94
	5690	138	17.10	16.80	19.96

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Table 10-54
5 GHz WLAN Measured P_{Limit} Average RF Power for DSI =0 (F/O Body) and/or DSI = 1 (F/C Body) – Ant F

5GHz WIFI (40MHz 802.11n SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	9.46
	5230	46	16.53
UNII-2A	5270	54	16.42
	5310	62	10.76
UNII-3	5755	151	16.00
	5795	159	15.90
UNII-4	5835	167	16.00
	5875	175	15.89
5GHz WIFI (40MHz 802.11ac SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	9.15
	5230	46	16.27
UNII-2A	5270	54	16.21
	5310	62	10.72
UNII-3	5755	151	16.08
	5795	159	16.16
UNII-4	5835	167	16.13
	5875	175	16.25
5GHz WIFI (40MHz 802.11ax SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	9.26
	5230	46	16.41
UNII-2A	5270	54	16.28
	5310	62	10.78
UNII-3	5755	151	16.34
	5795	159	16.28
UNII-4	5835	167	16.35
	5875	175	16.45
5GHz WIFI (40MHz 802.11be SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	9.08
	5230	46	16.15
UNII-2A	5270	54	16.10
	5310	62	10.61
UNII-3	5755	151	16.36
	5795	159	16.09
UNII-4	5835	167	16.11
	5875	175	16.27
5GHz WIFI (80MHz 802.11ac SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.26
	5610	122	15.60
	5690	138	15.75
5GHz WIFI (80MHz 802.11ax SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.33
	5610	122	16.11
	5690	138	16.26
5GHz WIFI (80MHz 802.11be SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.34
	5610	122	16.10
	5690	138	16.28

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Table 10-55
5 GHz WLAN Measured P_{Limit} Average RF Power for DSI =0 (F/O Body) and/or DSI = 1 (F/C Body) – Ant E

5GHz WIFI (40MHz 802.11n SISO ANTE)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	9.45
	5230	46	16.22
UNII-2A	5270	54	16.19
	5310	62	11.30
UNII-3	5755	151	16.02
	5795	159	15.96
UNII-4	5835	167	16.03
	5875	175	16.03
5GHz WIFI (40MHz 802.11ac SISO ANTE)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	9.00
	5230	46	16.28
UNII-2A	5270	54	16.38
	5310	62	11.05
UNII-3	5755	151	15.96
	5795	159	16.48
UNII-4	5835	167	16.42
	5875	175	16.43
5GHz WIFI (40MHz 802.11ax SISO ANTE)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	8.96
	5230	46	16.31
UNII-2A	5270	54	16.39
	5310	62	10.59
UNII-3	5755	151	16.12
	5795	159	16.07
UNII-4	5835	167	16.13
	5875	175	16.21
5GHz WIFI (20MHz 802.11be SISO ANTE)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	8.77
	5230	46	16.35
UNII-2A	5270	54	16.73
	5310	62	10.41
UNII-3	5755	151	15.90
	5795	159	15.78
UNII-4	5835	167	15.88
	5875	175	16.01
5GHz WIFI (80MHz 802.11ac SISO ANTE)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.02
	5610	122	15.90
	5690	138	15.70
5GHz WIFI (80MHz 802.11ax SISO ANTE)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.13
	5610	122	16.39
	5690	138	16.13
5GHz WIFI (80MHz 802.11be SISO ANTE)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.18
	5610	122	16.38
	5690	138	16.16

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Table 10-56
5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 1 (F/C Body) - MIMO

5GHz WIFI (40MHz 802.11n MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5190	38	9.13	8.70	11.93
	5230	46	16.21	15.90	19.07
UNII-2A	5270	54	16.10	15.82	18.97
	5310	62	10.48	10.60	13.55
UNII-3	5755	151	15.60	15.70	18.66
	5795	159	15.65	15.70	18.69
UNII-4	5835	167	15.65	15.70	18.69
	5875	175	15.60	15.70	18.66
5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-2C	5530	106	12.95	12.68	15.83
	5610	122	15.63	15.94	18.80
	5690	138	15.79	15.65	18.73

Table 10-57
6 GHz WLAN Measured P_{Max} Average RF Power for DSI = 2 (F/O Head), and/or DSI = 3 (F/C Head) – Ant F

6GHz WIFI (40MHz 802.11ax SISO Ant F)				6GHz WIFI (80MHz 802.11ax SISO Ant F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5965	3	16.61	UNII-6	6465	103	15.22
	6285	67	16.22		7025	215	15.50
UNII-7	6685	147	16.52	UNII-8	7025	215	15.50
6GHz WIFI (40MHz 802.11be SISO Ant F)				6GHz WIFI (80MHz 802.11be SISO Ant F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5965	3	16.55	UNII-6	6465	103	15.15
	6285	67	16.15		7025	215	15.55
UNII-7	6685	147	16.42	UNII-8	7025	215	15.55

Table 10-58
6 GHz WLAN Measured P_{Max} Average RF Power for DSI = 2 (F/O Head), and/or DSI = 3 (F/C Head) – Ant E

6GHz WIFI (40MHz 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	5965	3	16.42	UNII-6	6465	103	15.25
	6285	67	16.11		7025	215	15.59
UNII-7	6685	147	16.15	UNII-8	7025	215	15.59
6GHz WIFI (40MHz 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	5965	3	16.35	UNII-6	6465	103	15.22
	6285	67	16.08		7025	215	15.60
UNII-7	6685	147	16.22	UNII-8	7025	215	15.60

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Table 10-59
6 GHz WLAN Measured P_{Max} Average RF Power for DSI = 2 (F/O Head), and/or DSI = 3 (F/C Head) – MIMO

6GHz WIFI (40MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	5965	3	16.61	16.55	19.59
	6285	67	16.15	16.20	19.19
UNII-7	6685	147	16.45	16.45	19.46
6GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-6	6465	103	15.22	15.15	18.20
UNII-8	7025	215	15.55	15.61	18.59

Table 10-60
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 1 (F/C Body) – Ant F

6GHz WIFI (160MHz 802.11ax SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	14.32
	6345	79	14.21
UNII-6	6505	111	14.30
UNII-7	6665	143	13.55
UNII-8	6985	207	13.80
6GHz WIFI (160MHz 802.11be SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	13.76
	6345	79	13.65
UNII-6	6505	111	13.80
UNII-7	6665	143	13.01
UNII-8	6985	207	13.09

Table 10-61
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 1 (F/C Body) – Ant E

6GHz WIFI (160MHz 802.11ax SISO ANTE)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	14.30
	6345	79	14.00
UNII-6	6505	111	14.08
UNII-7	6665	143	13.95
UNII-8	6985	207	14.29
6GHz WIFI (160MHz 802.11be SISO ANTE)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	13.94
	6345	79	13.61
UNII-6	6505	111	13.63
UNII-7	6665	143	13.40
UNII-8	6985	207	13.15

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Table 10-62

6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 1 (F/C Body) - MIMO

6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	6025	15	14.12	14.35	17.25
	6345	79	14.24	14.00	17.13
UNII-6	6505	111	14.36	14.01	17.20
UNII-7	6665	143	13.60	13.90	16.76
UNII-8	6985	207	13.80	14.12	16.97

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

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

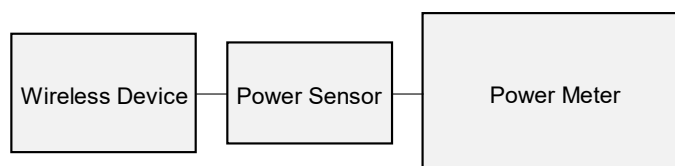


Figure 10-6
Power Measurement Setup

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10.6 Bluetooth Conducted Powers

Table 10-63
Bluetooth Measured P_{max} Average RF Power for All DSI – Ant H

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	17.98	62.806
2441	1.0	39	18.21	66.222
2480	1.0	78	17.95	62.373
2402	2.0	0	14.62	28.973
2441	2.0	39	15.12	32.509
2480	2.0	78	14.56	28.576
2402	3.0	0	14.17	26.122
2441	3.0	39	14.49	28.119
2480	3.0	78	14.00	25.119

Table 10-64
Bluetooth Measured P_{max} Average RF Power for All DSI – Ant F

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	17.80	60.256
2441	1.0	39	17.87	61.235
2480	1.0	78	17.40	54.954
2402	2.0	0	14.37	27.353
2441	2.0	39	15.00	31.623
2480	2.0	78	14.11	25.763
2402	3.0	0	14.26	26.669
2441	3.0	39	14.09	25.645
2480	3.0	78	13.98	25.003

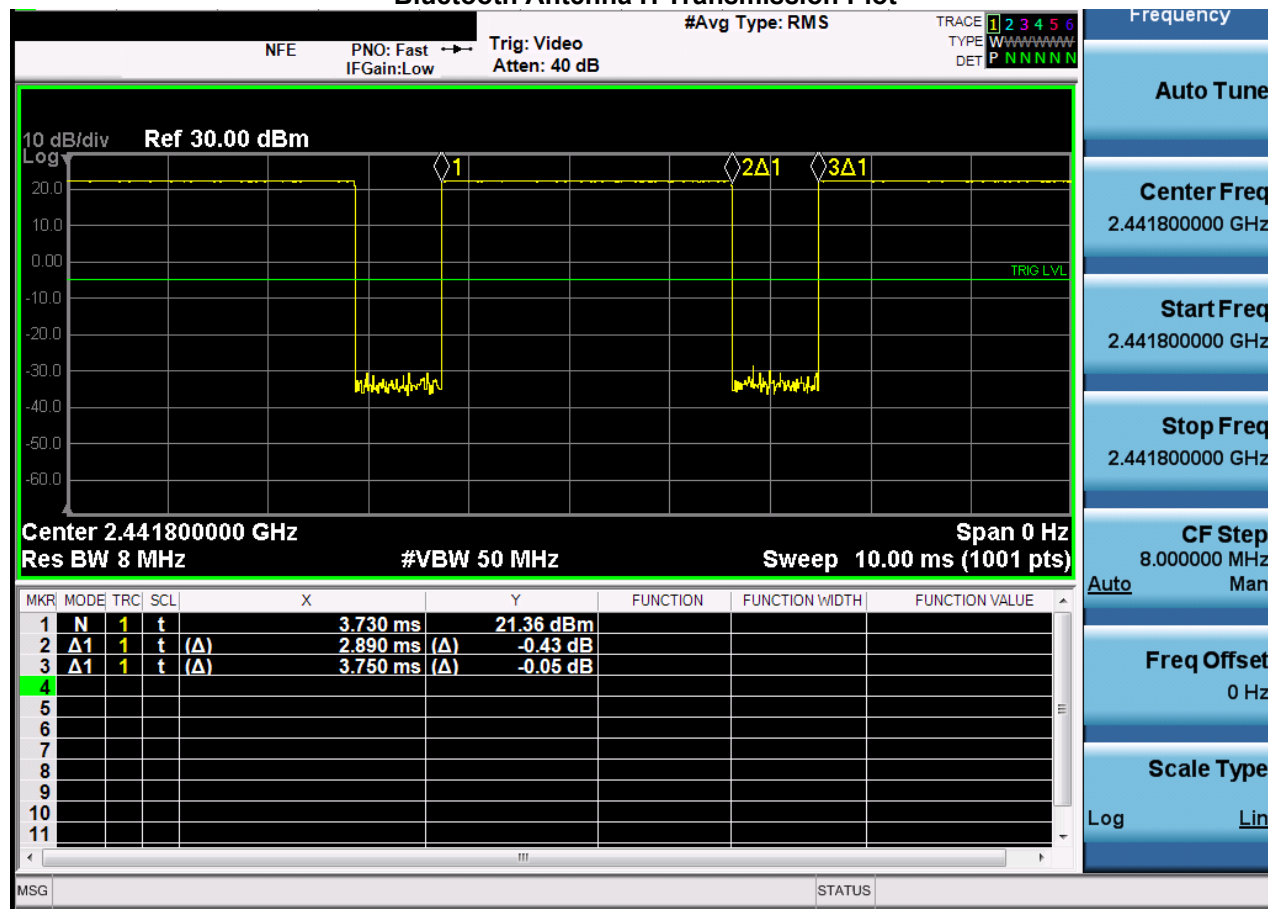
Table 10-65
Bluetooth Measured P_{max} Average RF Power for All DSI – MIMO

Frequency [MHz]	Data Rate [Mbps]	Channel No.	ANT1 Avg Conducted Power		ANT1 Target	ANT2 Avg Conducted Power		ANT2 Target	Dual Avg Conducted Power	
			[dBm]	[mW]		[dBm]	[mW]		[dBm]	[mW]
2402	1.0	0	14.65	29.174	14.0	15.31	33.963	15.5	18.00	63.137
2441	1.0	39	14.99	31.550	14.0	15.58	36.141	15.5	18.31	67.691
2480	1.0	78	14.50	28.184	14.0	15.29	33.806	15.5	17.92	61.990
2402	2.0	0	12.65	18.408	12.0	13.31	21.429	12.5	16.00	39.837
2441	2.0	39	12.85	19.275	12.0	13.45	22.131	12.5	16.17	41.406
2480	2.0	78	12.45	17.579	12.0	13.18	20.797	12.5	15.84	38.376
2402	3.0	0	12.43	17.498	12.0	12.65	18.408	12.5	15.55	35.906
2441	3.0	39	12.31	17.022	12.0	12.66	18.450	12.5	15.50	35.472
2480	3.0	78	12.27	16.866	12.0	12.85	19.275	12.5	15.58	36.141

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Figure 10-7
Bluetooth Antenna H Transmission Plot



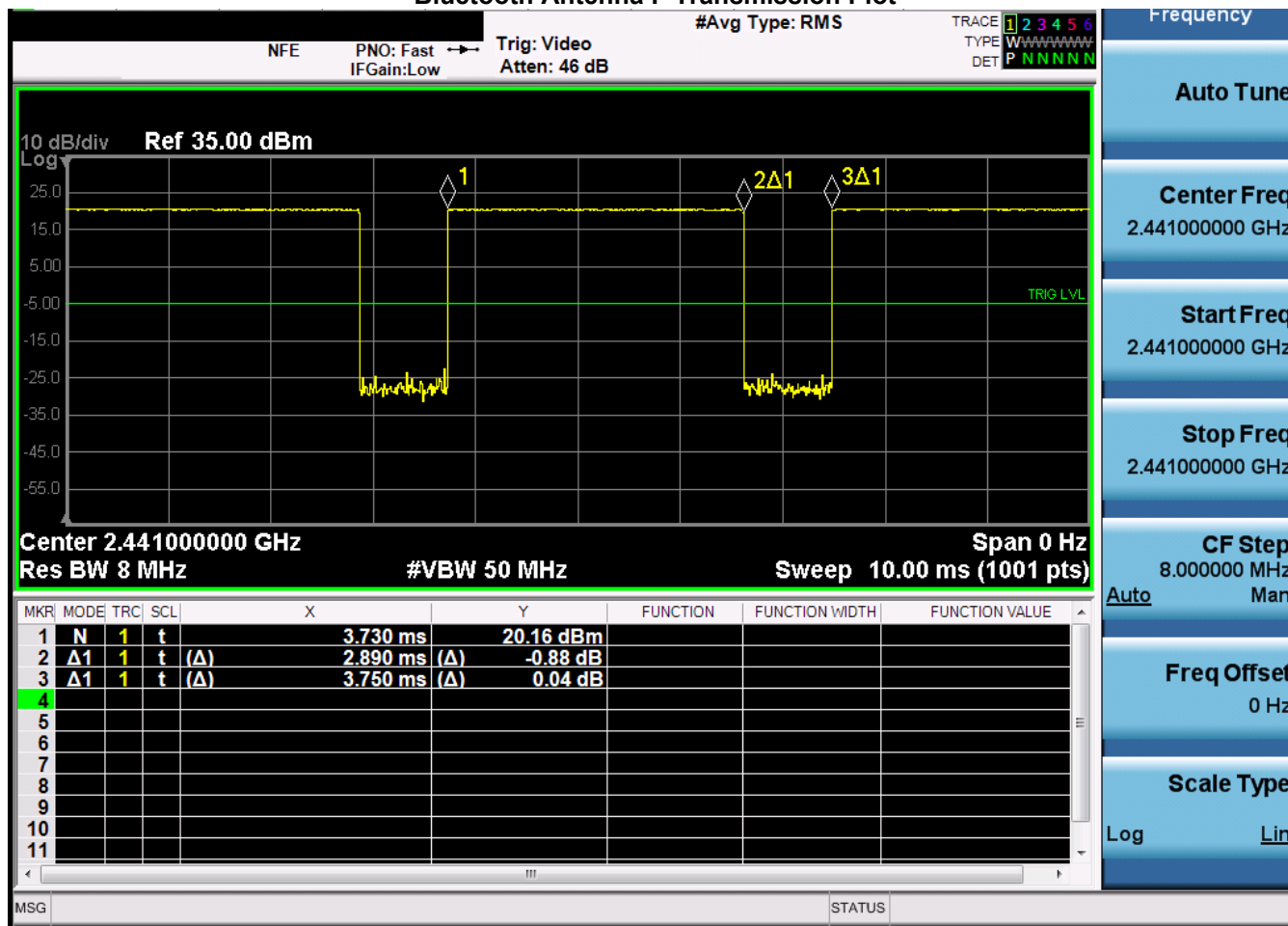
Equation 10-1
Bluetooth Antenna H Duty Cycle Calculation

$$Duty Cycle = \frac{Pulse Width}{Period} * 100\% = \frac{2.89ms}{3.75ms} * 100\% = 77.06\%$$

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Figure 10-8
Bluetooth Antenna F Transmission Plot



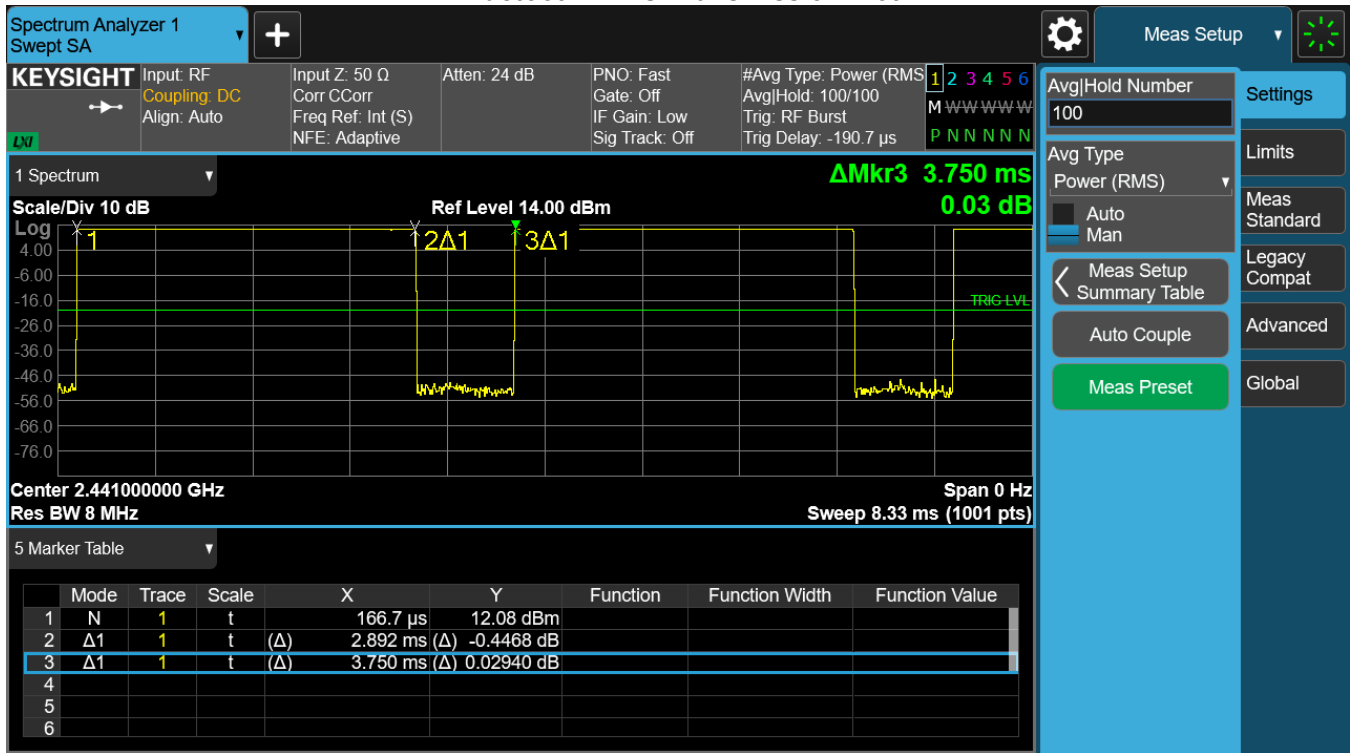
Equation 10-2
Bluetooth Antenna F Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.89ms}{3.75ms} * 100\% = 77.06\%$$

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Figure 10-9
Bluetooth MIMO Transmission Plot



Equation 10-3
Bluetooth MIMO Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.892\text{ms}}{3.75\text{ms}} * 100\% = 77.12\%$$

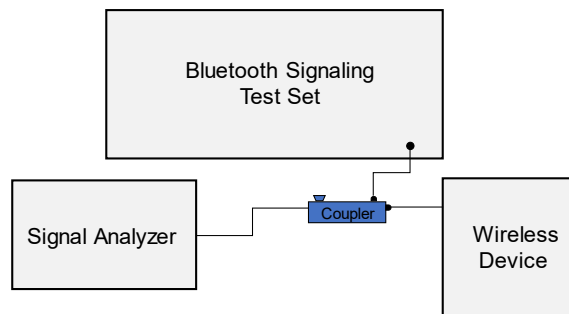


Figure 10-10
Power Measurement Setup

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11 SYSTEM VERIFICATION

11.1 Tissue Verification

Table 11-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
05/05/2025	30 Head	22.4	12	0.718	53.091	0.750	55.000	-4.27%	-3.47%
			13	0.718	53.401	0.750	55.000	-4.27%	-2.91%
			14	0.718	53.403	0.750	55.000	-4.27%	-2.90%
			680	0.870	43.617	0.888	42.305	-2.03%	3.10%
04/16/2025	750 Head	24.5	695	0.875	43.560	0.889	42.227	-1.57%	3.16%
			710	0.879	43.513	0.890	42.149	-1.24%	3.24%
			725	0.885	43.476	0.891	42.071	-0.67%	3.34%
			750	0.893	43.413	0.894	41.942	-0.11%	3.51%
			770	0.900	43.359	0.895	41.838	0.56%	3.64%
			785	0.905	43.312	0.896	41.760	1.00%	3.72%
			800	0.910	43.263	0.897	41.682	1.45%	3.79%
			815	0.915	43.214	0.898	41.594	1.89%	3.89%
			820	0.916	43.199	0.899	41.578	1.89%	3.90%
			835	0.921	43.154	0.900	41.500	2.33%	3.99%
			850	0.925	43.119	0.916	41.500	0.98%	3.90%
			680	0.849	42.462	0.888	42.305	-4.39%	0.37%
			695	0.853	42.409	0.889	42.227	-4.05%	0.43%
			710	0.858	42.363	0.890	42.149	-3.60%	0.51%
04/21/2025	750 Head	24.7	725	0.863	42.330	0.891	42.071	-3.14%	0.62%
			750	0.872	42.276	0.894	41.942	-2.46%	0.80%
			770	0.877	42.207	0.895	41.838	-2.01%	0.88%
			785	0.881	42.160	0.896	41.760	-1.67%	0.96%
			800	0.886	42.123	0.897	41.682	-1.23%	1.06%
			815	0.891	42.090	0.898	41.594	-0.78%	1.19%
			820	0.893	42.082	0.899	41.578	-0.67%	1.21%
			835	0.898	42.042	0.900	41.500	-0.22%	1.31%
			850	0.903	42.002	0.916	41.500	-1.42%	1.21%
			680	0.864	40.868	0.888	42.305	-2.70%	-3.40%
			695	0.869	40.813	0.889	42.227	-2.25%	-3.35%
			710	0.874	40.754	0.890	42.149	-1.80%	-3.31%
			725	0.878	40.689	0.891	42.071	-1.46%	-3.28%
			750	0.887	40.592	0.894	41.942	-0.78%	-3.22%
04/28/2025	750 Head	22.4	770	0.895	40.533	0.895	41.838	0.00%	-3.12%
			785	0.901	40.501	0.896	41.760	0.56%	-3.01%
			800	0.906	40.471	0.897	41.682	1.00%	-2.91%
			815	0.912	40.431	0.898	41.594	1.56%	-2.80%
			820	0.913	40.415	0.899	41.578	1.56%	-2.80%
			835	0.918	40.348	0.900	41.500	2.00%	-2.78%
			850	0.924	40.287	0.916	41.500	0.87%	-2.92%
			680	0.850	40.496	0.888	42.305	-4.28%	-4.28%
			695	0.855	40.449	0.889	42.227	-3.82%	-4.21%
			710	0.859	40.399	0.890	42.149	-3.48%	-4.15%
			725	0.863	40.349	0.891	42.071	-3.14%	-4.09%
			750	0.870	40.265	0.894	41.942	-2.68%	-4.00%
			770	0.876	40.196	0.895	41.838	-2.12%	-3.92%
			785	0.881	40.142	0.896	41.760	-1.67%	-3.87%
05/02/2025	750 Head	23.2	800	0.886	40.096	0.897	41.682	-1.23%	-3.80%
			815	0.890	40.064	0.898	41.594	-0.89%	-3.68%
			820	0.891	40.054	0.899	41.578	-0.89%	-3.67%
			835	0.896	40.017	0.900	41.500	-0.44%	-3.57%
			850	0.901	39.972	0.916	41.500	-1.64%	-3.68%
			680	0.865	40.627	0.888	42.305	-2.59%	-3.97%
			695	0.870	40.592	0.889	42.227	-2.14%	-3.87%
			710	0.876	40.547	0.890	42.149	-1.57%	-3.80%
			725	0.881	40.493	0.891	42.071	-1.12%	-3.75%
			750	0.890	40.406	0.894	41.942	-0.45%	-3.66%
			770	0.897	40.349	0.895	41.838	0.22%	-3.56%
			785	0.903	40.297	0.896	41.760	0.78%	-3.50%
			800	0.909	40.251	0.897	41.682	1.34%	-3.43%
			815	0.914	40.211	0.898	41.594	1.78%	-3.32%
05/12/2025	750 Head	21.1	820	0.915	40.199	0.899	41.578	1.78%	-3.32%
			835	0.920	40.156	0.900	41.500	2.22%	-3.24%
			850	0.926	40.107	0.916	41.500	1.09%	-3.36%
			680	0.863	40.360	0.888	42.305	-2.82%	-4.60%
			695	0.867	40.291	0.889	42.227	-2.47%	-4.58%
			710	0.872	40.241	0.890	42.149	-2.02%	-4.53%
			725	0.878	40.211	0.891	42.071	-1.46%	-4.42%
			750	0.888	40.178	0.894	41.942	-0.67%	-4.21%
			770	0.894	40.129	0.895	41.838	-0.11%	-4.08%
			785	0.898	40.072	0.896	41.760	0.22%	-4.04%
			800	0.902	40.016	0.897	41.682	0.56%	-4.00%
			815	0.907	39.963	0.898	41.594	1.00%	-3.92%
			820	0.909	39.947	0.899	41.578	1.11%	-3.92%
			835	0.916	39.900	0.900	41.500	1.78%	-3.86%
			850	0.922	39.869	0.916	41.500	0.66%	-3.93%
05/14/2025	750 Head	22.2	680	0.863	40.360	0.888	42.305	-2.82%	-4.60%
			695	0.867	40.291	0.889	42.227	-2.47%	-4.58%
			710	0.872	40.241	0.890	42.149	-2.02%	-4.53%
			725	0.878	40.211	0.891	42.071	-1.46%	-4.42%
			750	0.888	40.178	0.894	41.942	-0.67%	-4.21%
			770	0.894	40.129	0.895	41.838	-0.11%	-4.08%
			785	0.898	40.072	0.896	41.760	0.22%	-4.04%
			800	0.902	40.016	0.897	41.682	0.56%	-4.00%
			815	0.907	39.963	0.898	41.594	1.00%	-3.92%
			820	0.909	39.947	0.899	41.578	1.11%	-3.92%
			835	0.916	39.900	0.900	41.500	1.78%	-3.86%
			850	0.922	39.869	0.916	41.500	0.66%	-3.93%

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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
05/16/2025	750 Head	21.6	680	0.859	40.334	0.888	42.305	-3.27%	-4.66%
			695	0.864	40.278	0.889	42.227	-2.81%	-4.62%
			710	0.868	40.209	0.890	42.149	-2.47%	-4.60%
			725	0.874	40.154	0.891	42.071	-1.91%	-4.56%
			750	0.883	40.082	0.894	41.942	-1.23%	-4.43%
			770	0.890	40.039	0.895	41.838	-0.56%	-4.30%
			785	0.894	39.997	0.896	41.760	-0.22%	-4.22%
			800	0.898	39.947	0.897	41.682	0.11%	-4.16%
			815	0.903	39.890	0.898	41.594	0.56%	-4.10%
			820	0.904	39.872	0.899	41.578	0.56%	-4.10%
			835	0.911	39.820	0.900	41.500	1.22%	-4.05%
			850	0.918	39.778	0.916	41.500	0.22%	-4.15%
			680	0.850	42.606	0.888	42.305	-4.28%	0.71%
			695	0.854	42.556	0.889	42.227	-3.94%	0.78%
05/19/2025	750 Head	21.0	710	0.859	42.501	0.890	42.149	-3.48%	0.84%
			725	0.864	42.451	0.891	42.071	-3.03%	0.90%
			750	0.872	42.376	0.894	41.942	-2.46%	1.03%
			770	0.878	42.328	0.895	41.838	-1.90%	1.17%
			785	0.883	42.286	0.896	41.760	-1.45%	1.26%
			800	0.887	42.240	0.897	41.682	-1.11%	1.34%
			815	0.892	42.197	0.898	41.594	-0.67%	1.45%
			820	0.893	42.185	0.899	41.578	-0.67%	1.46%
			835	0.899	42.147	0.900	41.500	-0.11%	1.56%
			850	0.905	42.113	0.916	41.500	-1.20%	1.48%
			815	0.889	42.797	0.898	41.594	-1.00%	2.89%
			820	0.890	42.782	0.899	41.578	-1.00%	2.90%
			835	0.895	42.727	0.900	41.500	-0.56%	2.96%
			850	0.900	42.670	0.916	41.500	-1.75%	2.82%
04/28/2025	835 Head	24.7	815	0.910	41.401	0.898	41.594	1.34%	-0.46%
			820	0.912	41.391	0.899	41.578	1.45%	-0.45%
			835	0.917	41.348	0.900	41.500	1.89%	-0.37%
			850	0.923	41.307	0.916	41.500	0.76%	-0.47%
			680	0.866	41.805	0.888	42.305	-2.48%	-1.18%
			695	0.871	41.762	0.889	42.227	-2.02%	-1.10%
			700	0.872	41.749	0.889	42.201	-1.91%	-1.07%
			710	0.876	41.723	0.890	42.149	-1.57%	-1.01%
			725	0.882	41.680	0.891	42.071	-1.01%	-0.93%
			750	0.891	41.591	0.894	41.942	-0.34%	-0.84%
			770	0.897	41.531	0.895	41.838	0.22%	-0.73%
			785	0.901	41.484	0.896	41.760	0.56%	-0.66%
			800	0.906	41.442	0.897	41.682	1.00%	-0.58%
			815	0.894	43.605	0.898	41.594	-0.45%	4.83%
05/16/2025	835 Head	20.8	820	0.895	43.595	0.899	41.578	-0.44%	4.85%
			835	0.901	43.565	0.900	41.500	0.11%	4.98%
			850	0.907	43.533	0.916	41.500	-0.98%	4.90%
			1700	1.334	38.832	1.343	40.145	-0.67%	-3.27%
04/14/2025	1750 Head	22.3	1705	1.337	38.824	1.345	40.141	-0.59%	-3.28%
			1710	1.340	38.816	1.348	40.136	-0.59%	-3.29%
			1720	1.346	38.801	1.354	40.126	-0.59%	-3.30%
			1745	1.362	38.762	1.368	40.087	-0.44%	-3.31%
			1750	1.365	38.755	1.371	40.079	-0.44%	-3.30%
			1770	1.377	38.719	1.383	40.047	-0.43%	-3.32%
			1790	1.388	38.675	1.394	40.016	-0.43%	-3.35%
			1850	1.423	38.574	1.400	40.000	1.64%	-3.57%
			1860	1.429	38.558	1.400	40.000	2.07%	-3.61%
			1880	1.441	38.524	1.400	40.000	2.93%	-3.69%
			1900	1.454	38.496	1.400	40.000	3.86%	-3.76%
			1905	1.457	38.490	1.400	40.000	4.07%	-3.78%
			1910	1.460	38.484	1.400	40.000	4.29%	-3.79%
			1920	1.467	38.469	1.400	40.000	4.79%	-3.83%
04/16/2025	1750 Head	23.0	1700	1.324	38.844	1.343	40.145	-1.41%	-3.24%
			1705	1.326	38.834	1.345	40.141	-1.41%	-3.26%
			1710	1.329	38.825	1.348	40.136	-1.41%	-3.27%
			1720	1.334	38.810	1.354	40.126	-1.48%	-3.28%
			1745	1.349	38.790	1.368	40.087	-1.39%	-3.24%
			1750	1.353	38.788	1.371	40.079	-1.31%	-3.22%
			1770	1.365	38.772	1.383	40.047	-1.30%	-3.18%
			1790	1.375	38.739	1.394	40.016	-1.36%	-3.19%
			1850	1.408	38.625	1.400	40.000	0.57%	-3.44%
			1860	1.415	38.618	1.400	40.000	1.07%	-3.45%
			1880	1.426	38.609	1.400	40.000	1.86%	-3.48%
			1900	1.435	38.583	1.400	40.000	2.50%	-3.54%
			1905	1.438	38.573	1.400	40.000	2.71%	-3.57%
			1910	1.440	38.561	1.400	40.000	2.86%	-3.60%
			1920	1.446	38.537	1.400	40.000	3.29%	-3.66%

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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
04/16/2025	1750 Head	21.5	1700	1.308	38.662	1.343	40.145	-2.61%	-3.69%
			1705	1.311	38.651	1.345	40.141	-2.53%	-3.71%
			1710	1.314	38.640	1.348	40.136	-2.52%	-3.73%
			1720	1.319	38.624	1.354	40.126	-2.58%	-3.74%
			1745	1.335	38.607	1.368	40.087	-2.41%	-3.69%
			1750	1.339	38.606	1.371	40.079	-2.33%	-3.68%
			1770	1.351	38.593	1.383	40.047	-2.31%	-3.63%
			1790	1.361	38.553	1.394	40.016	-2.37%	-3.66%
			1850	1.396	38.437	1.400	40.000	-0.29%	-3.91%
			1860	1.403	38.429	1.400	40.000	0.21%	-3.93%
			1880	1.415	38.419	1.400	40.000	1.07%	-3.95%
			1900	1.424	38.388	1.400	40.000	1.71%	-4.03%
			1905	1.427	38.376	1.400	40.000	1.93%	-4.06%
			1910	1.429	38.363	1.400	40.000	2.07%	-4.09%
			1920	1.435	38.338	1.400	40.000	2.50%	-4.16%
04/23/2025	1750 Head	24.0	1700	1.350	40.918	1.343	40.145	0.52%	1.93%
			1705	1.353	40.909	1.345	40.141	0.59%	1.91%
			1710	1.356	40.899	1.348	40.136	0.59%	1.90%
			1720	1.361	40.881	1.354	40.126	0.52%	1.88%
			1745	1.375	40.834	1.368	40.087	0.51%	1.86%
			1750	1.378	40.825	1.371	40.079	0.51%	1.86%
			1770	1.389	40.792	1.383	40.047	0.43%	1.86%
			1790	1.401	40.750	1.394	40.016	0.50%	1.83%
			1850	1.434	40.642	1.400	40.000	2.43%	1.61%
			1860	1.440	40.631	1.400	40.000	2.86%	1.58%
			1880	1.451	40.615	1.400	40.000	3.64%	1.54%
			1900	1.462	40.590	1.400	40.000	4.43%	1.48%
			1905	1.465	40.583	1.400	40.000	4.64%	1.46%
			1910	1.468	40.576	1.400	40.000	4.86%	1.44%
			1920	1.475	40.545	1.400	40.000	5.64%	1.37%
04/30/2025	1750 Head	20.5	1700	1.314	38.848	1.343	40.145	-2.16%	-3.23%
			1705	1.317	38.838	1.345	40.141	-2.08%	-3.25%
			1710	1.320	38.829	1.348	40.136	-2.08%	-3.26%
			1720	1.326	38.810	1.354	40.126	-2.07%	-3.28%
			1745	1.343	38.765	1.368	40.087	-1.83%	-3.30%
			1750	1.347	38.758	1.371	40.079	-1.75%	-3.30%
			1770	1.359	38.732	1.383	40.047	-1.74%	-3.28%
			1790	1.370	38.697	1.394	40.016	-1.72%	-3.30%
			1850	1.407	38.593	1.400	40.000	0.50%	-3.52%
			1860	1.413	38.584	1.400	40.000	0.93%	-3.54%
			1880	1.425	38.566	1.400	40.000	1.79%	-3.58%
			1900	1.438	38.535	1.400	40.000	2.71%	-3.66%
			1905	1.441	38.528	1.400	40.000	2.93%	-3.68%
			1910	1.444	38.519	1.400	40.000	3.14%	-3.70%
			1920	1.451	38.500	1.400	40.000	3.64%	-3.75%
05/02/2025	1750 Head	23.0	1700	1.310	39.539	1.343	40.145	-2.46%	-1.51%
			1710	1.315	39.519	1.348	40.136	-2.45%	-1.54%
			1720	1.321	39.501	1.354	40.126	-2.44%	-1.56%
			1750	1.338	39.444	1.371	40.079	-2.41%	-1.58%
			1770	1.349	39.405	1.383	40.047	-2.46%	-1.60%
			1790	1.359	39.367	1.394	40.016	-2.51%	-1.62%
			1850	1.389	39.279	1.400	40.000	-0.79%	-1.80%
			1860	1.394	39.268	1.400	40.000	-0.43%	-1.83%
			1880	1.404	39.245	1.400	40.000	0.29%	-1.89%
			1900	1.415	39.219	1.400	40.000	1.07%	-1.95%
			1910	1.421	39.207	1.400	40.000	1.50%	-1.98%
			1920	1.427	39.199	1.400	40.000	1.93%	-2.00%
05/09/2025	1750 Head	21.6	1700	1.325	40.036	1.343	40.145	-1.34%	-0.27%
			1705	1.329	40.027	1.345	40.141	-1.19%	-0.28%
			1710	1.332	40.019	1.348	40.136	-1.19%	-0.29%
			1720	1.339	40.001	1.354	40.126	-1.11%	-0.31%
			1745	1.354	39.957	1.368	40.087	-1.02%	-0.32%
			1750	1.357	39.946	1.371	40.079	-1.02%	-0.33%
			1770	1.367	39.913	1.383	40.047	-1.16%	-0.33%
			1790	1.377	39.885	1.394	40.016	-1.22%	-0.33%
			1850	1.412	39.773	1.400	40.000	0.86%	-0.57%
			1860	1.418	39.757	1.400	40.000	1.29%	-0.61%
			1880	1.430	39.725	1.400	40.000	2.14%	-0.69%
			1900	1.442	39.698	1.400	40.000	3.00%	-0.75%
			1905	1.445	39.692	1.400	40.000	3.21%	-0.77%
			1910	1.448	39.685	1.400	40.000	3.43%	-0.79%
			1920	1.453	39.671	1.400	40.000	3.79%	-0.82%
05/14/2025	1750 Head	20.4	1700	1.310	38.604	1.343	40.145	-2.46%	-3.84%
			1705	1.313	38.595	1.345	40.141	-2.38%	-3.85%
			1710	1.315	38.584	1.348	40.136	-2.45%	-3.87%
			1720	1.321	38.569	1.354	40.126	-2.44%	-3.88%
			1745	1.335	38.526	1.368	40.087	-2.41%	-3.89%
			1750	1.338	38.519	1.371	40.079	-2.41%	-3.89%
			1770	1.350	38.485	1.383	40.047	-2.39%	-3.90%
			1790	1.361	38.451	1.394	40.016	-2.37%	-3.91%
			1850	1.395	38.353	1.400	40.000	-0.36%	-4.12%
			1860	1.401	38.339	1.400	40.000	0.07%	-4.15%
			1880	1.413	38.321	1.400	40.000	0.93%	-4.20%
			1900	1.424	38.297	1.400	40.000	1.71%	-4.26%
			1905	1.427	38.291	1.400	40.000	1.93%	-4.27%
			1910	1.430	38.286	1.400	40.000	2.14%	-4.29%
			1920	1.436	38.270	1.400	40.000	2.57%	-4.32%

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Table 11-4
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/15/2025	2450 Head	19.5	2300	1.743	38.892	1.670	39.500	4.37%	-1.54%
			2310	1.751	38.875	1.679	39.480	4.29%	-1.53%
			2320	1.759	38.857	1.687	39.460	4.27%	-1.53%
			2400	1.820	38.742	1.756	39.289	3.64%	-1.39%
			2450	1.863	38.647	1.800	39.200	3.50%	-1.41%
			2480	1.886	38.606	1.833	39.162	2.89%	-1.42%
			2500	1.901	38.567	1.855	39.136	2.48%	-1.45%
			2510	1.909	38.545	1.866	39.123	2.30%	-1.48%
			2535	1.931	38.497	1.893	39.092	2.01%	-1.52%
			2550	1.946	38.474	1.909	39.073	1.94%	-1.53%
			2560	1.955	38.464	1.920	39.060	1.82%	-1.53%
			2600	1.987	38.392	1.964	39.009	1.17%	-1.58%
			2650	2.032	38.299	2.018	38.945	0.69%	-1.66%
			2680	2.058	38.261	2.051	38.907	0.34%	-1.66%
			2700	2.072	38.222	2.073	38.882	-0.05%	-1.70%
			2300	1.713	38.115	1.670	39.500	2.57%	-3.51%
			2310	1.720	38.103	1.679	39.480	2.44%	-3.49%
			2320	1.728	38.087	1.687	39.460	2.43%	-3.48%
			2400	1.790	37.947	1.756	39.289	1.94%	-3.42%
			2450	1.828	37.863	1.800	39.200	1.56%	-3.41%
04/17/2025	2450 Head	19.4	2480	1.852	37.812	1.833	39.162	1.04%	-3.45%
			2500	1.867	37.772	1.855	39.136	0.65%	-3.49%
			2510	1.875	37.752	1.866	39.123	0.48%	-3.50%
			2535	1.895	37.713	1.893	39.092	0.11%	-3.53%
			2550	1.908	37.687	1.909	39.073	-0.05%	-3.56%
			2560	1.916	37.671	1.920	39.060	-0.21%	-3.56%
			2600	1.948	37.600	1.964	39.009	-0.81%	-3.61%
			2650	1.989	37.504	2.018	38.945	-1.44%	-3.70%
			2680	2.016	37.453	2.051	38.907	-1.71%	-3.74%
			2700	2.032	37.422	2.073	38.882	-1.98%	-3.75%
			2300	1.713	37.785	1.670	39.500	2.57%	-4.34%
			2310	1.721	37.771	1.679	39.480	2.50%	-4.33%
			2320	1.728	37.754	1.687	39.460	2.43%	-4.32%
			2400	1.787	37.643	1.756	39.289	1.77%	-4.19%
			2450	1.827	37.560	1.800	39.200	1.50%	-4.18%
			2480	1.848	37.521	1.833	39.162	0.82%	-4.19%
			2500	1.863	37.485	1.855	39.136	0.43%	-4.22%
			2510	1.870	37.464	1.866	39.123	0.21%	-4.24%
			2535	1.891	37.415	1.893	39.092	-0.11%	-4.29%
			2550	1.904	37.389	1.909	39.073	-0.26%	-4.31%
04/23/2025	2450 Head	21.5	2560	1.913	37.376	1.920	39.060	-0.36%	-4.31%
			2600	1.944	37.301	1.964	39.009	-1.02%	-4.38%
			2650	1.985	37.203	2.018	38.945	-1.64%	-4.47%
			2680	2.010	37.155	2.051	38.907	-2.00%	-4.50%
			2700	2.025	37.114	2.073	38.882	-2.32%	-4.55%
			2300	1.727	38.962	1.670	39.500	3.41%	-1.29%
			2310	1.735	38.974	1.679	39.480	3.34%	-1.28%
			2320	1.742	38.953	1.687	39.460	3.26%	-1.28%
			2400	1.804	38.815	1.756	39.289	2.73%	-1.21%
			2450	1.842	38.745	1.800	39.200	2.33%	-1.16%
			2480	1.867	38.695	1.833	39.162	1.85%	-1.19%
			2500	1.885	38.667	1.855	39.136	1.62%	-1.20%
			2510	1.893	38.659	1.866	39.123	1.45%	-1.19%
			2535	1.913	38.634	1.893	39.092	1.06%	-1.17%
			2550	1.926	38.610	1.909	39.073	0.89%	-1.18%
			2560	1.934	38.591	1.920	39.060	0.73%	-1.20%
			2600	1.968	38.504	1.964	39.009	0.20%	-1.29%
			2650	2.011	38.432	2.018	38.945	-0.35%	-1.32%
			2680	2.035	38.358	2.051	38.907	-0.76%	-1.41%
			2700	2.050	38.318	2.073	38.882	-1.11%	-1.45%
04/28/2025	2450 Head	22.0	2300	1.699	38.138	1.670	39.500	1.74%	-3.45%
			2310	1.707	38.123	1.679	39.480	1.67%	-3.44%
			2320	1.715	38.106	1.687	39.460	1.66%	-3.43%
			2400	1.779	37.980	1.756	39.289	1.31%	-3.33%
			2450	1.820	37.896	1.800	39.200	1.11%	-3.33%
			2480	1.841	37.846	1.833	39.162	0.44%	-3.36%
			2500	1.858	37.805	1.855	39.136	0.16%	-3.40%
			2510	1.866	37.786	1.866	39.123	0.00%	-3.42%
			2535	1.888	37.741	1.893	39.092	-0.26%	-3.46%
			2550	1.901	37.718	1.909	39.073	-0.42%	-3.47%
			2560	1.909	37.701	1.920	39.060	-0.57%	-3.48%
			2600	1.941	37.621	1.964	39.009	-1.17%	-3.56%
			2650	1.983	37.530	2.018	38.945	-1.73%	-3.63%
			2680	2.006	37.473	2.051	38.907	-2.19%	-3.69%
			2700	2.023	37.428	2.073	38.882	-2.41%	-3.74%
			2300	1.712	38.271	1.670	39.500	2.51%	-3.11%
			2310	1.719	38.254	1.679	39.480	2.38%	-3.11%
			2320	1.727	38.237	1.687	39.460	2.37%	-3.10%
			2400	1.790	38.110	1.756	39.289	1.94%	-3.00%
			2450	1.829	38.034	1.800	39.200	1.61%	-2.97%
04/30/2025	2450 Head	19.3	2480	1.851	37.977	1.833	39.162	0.98%	-3.03%
			2500	1.868	37.936	1.855	39.136	0.70%	-3.07%
			2510	1.877	37.916	1.866	39.123	0.59%	-3.09%
			2535	1.898	37.872	1.893	39.092	0.26%	-3.12%
			2550	1.909	37.846	1.909	39.073	0.00%	-3.14%
			2560	1.917	37.828	1.920	39.060	-0.16%	-3.15%
			2600	1.950	37.739	1.964	39.009	-0.71%	-3.26%
			2650	1.992	37.642	2.018	38.945	-1.29%	-3.35%
			2680	2.015	37.585	2.051	38.907	-1.76%	-3.40%
			2700	2.031	37.546	2.073	38.882	-2.03%	-3.44%
05/02/2025	2450 Head	19.1	2300	1.712	38.271	1.670	39.500	2.51%	-3.11%
			2310	1.719	38.254	1.679	39.480	2.38%	-3.11%
			2320	1.727	38.237	1.687	39.460	2.37%	-3.10%
			2400	1.790	38.110	1.756	39.289	1.94%	-3.00%
			2450	1.829	38.034	1.800	39.200	1.61%	-2.97%
			2480	1.851	37.977	1.833	39.162	0.98%	-3.03%
			2500	1.868	37.936	1.855	39.136	0.70%	-3.07%
			2510	1.877	37.916	1.866	39.123	0.59%	-3.09%
			2535	1.898	37.872	1.893	39.092	0.26%	-3.12%
			2550	1.909	37.846	1.909	39.073	0.00%	-3.14%
			2560	1.917	37.828	1.920	39.060	-0.16%	-3.15%
			2600	1.950	37.739	1.964	39.009	-0.71%	-3.26%
			2650	1.992	37.642	2.018	38.945	-1.29%	-3.35%
			2680	2.015	37.585	2.051	38.907	-1.76%	-3.40%
			2700	2.031	37.546	2.073	38.882	-2.03%	-3.44%

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Table 11-5
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
05/05/2025	2450 Head	19.5	2300	1.707	37.673	1.670	39.500	2.22%	-4.63%
			2310	1.716	37.655	1.679	39.480	2.20%	-4.62%
			2320	1.724	37.641	1.687	39.460	2.19%	-4.61%
			2400	1.780	37.528	1.756	39.289	1.37%	-4.48%
			2450	1.821	37.472	1.800	39.200	1.17%	-4.41%
			2480	1.841	37.421	1.833	39.162	0.44%	-4.45%
			2500	1.857	37.369	1.855	39.136	0.11%	-4.52%
			2510	1.866	37.347	1.866	39.123	0.00%	-4.54%
			2535	1.889	37.307	1.893	39.092	-0.21%	-4.57%
			2550	1.902	37.292	1.909	39.073	-0.37%	-4.56%
			2560	1.909	37.281	1.920	39.060	-0.57%	-4.55%
			2600	1.940	37.197	1.964	39.009	-1.22%	-4.65%
			2650	1.984	37.100	2.018	38.945	-1.68%	-4.74%
			2680	2.006	37.061	2.051	38.907	-2.19%	-4.74%
			2700	2.022	37.012	2.073	38.882	-2.46%	-4.81%
			2300	1.694	38.515	1.670	39.500	1.44%	-2.49%
			2310	1.701	38.499	1.679	39.480	1.31%	-2.48%
05/09/2025	2450 Head	21.9	2320	1.708	38.483	1.687	39.460	1.24%	-2.48%
			2400	1.766	38.388	1.756	39.289	0.57%	-2.29%
			2450	1.802	38.308	1.800	39.200	0.11%	-2.28%
			2480	1.823	38.261	1.833	39.162	-0.55%	-2.30%
			2500	1.836	38.221	1.855	39.136	-1.02%	-2.34%
			2510	1.842	38.206	1.866	39.123	-1.29%	-2.34%
			2535	1.860	38.167	1.893	39.092	-1.74%	-2.37%
			2550	1.871	38.149	1.909	39.073	-1.99%	-2.36%
			2560	1.878	38.136	1.920	39.060	-2.19%	-2.37%
			2600	1.906	38.078	1.964	39.009	-2.95%	-2.39%
			2650	1.943	38.012	2.018	38.945	-3.72%	-2.40%
			2680	1.963	37.972	2.051	38.907	-4.29%	-2.40%
			2700	1.978	37.947	2.073	38.882	-4.58%	-2.40%
			2300	1.711	40.649	1.670	39.500	2.46%	2.91%
			2310	1.718	40.633	1.679	39.480	2.32%	2.92%
			2320	1.724	40.614	1.687	39.460	2.19%	2.92%
			2400	1.789	40.490	1.756	39.289	1.88%	3.06%
05/21/2025	2450 Head	20.0	2450	1.825	40.406	1.800	39.200	1.39%	3.08%
			2480	1.851	40.358	1.833	39.162	0.98%	3.05%
			2500	1.870	40.332	1.855	39.136	0.81%	3.06%
			2510	1.878	40.321	1.866	39.123	0.64%	3.06%
			2535	1.895	40.284	1.893	39.092	0.11%	3.05%
			2550	1.907	40.257	1.909	39.073	-0.10%	3.03%
			2560	1.916	40.236	1.920	39.060	-0.21%	3.01%
			2600	1.953	40.171	1.964	39.009	-0.56%	2.98%
			2650	1.993	40.085	2.018	38.945	-1.24%	2.93%
			2680	2.018	40.014	2.051	38.907	-1.61%	2.85%
			2700	2.034	39.985	2.073	38.882	-1.88%	2.84%
			2300	1.703	40.509	1.670	39.500	1.98%	2.55%
			2310	1.710	40.496	1.679	39.480	1.85%	2.57%
			2320	1.716	40.481	1.687	39.460	1.72%	2.59%
			2400	1.782	40.368	1.756	39.289	1.48%	2.75%
			2450	1.819	40.286	1.800	39.200	1.06%	2.77%
			2480	1.845	40.236	1.833	39.162	0.65%	2.74%
06/02/2025	2450 Head	19.9	2500	1.863	40.210	1.855	39.136	0.43%	2.74%
			2510	1.870	40.200	1.866	39.123	0.21%	2.75%
			2535	1.889	40.159	1.893	39.092	-0.21%	2.73%
			2550	1.901	40.130	1.909	39.073	-0.42%	2.71%
			2560	1.909	40.111	1.920	39.060	-0.57%	2.69%
			2600	1.945	40.046	1.964	39.009	-0.97%	2.66%
			2650	1.986	39.969	2.018	38.945	-1.59%	2.63%
			2680	2.011	39.900	2.051	38.907	-1.95%	2.55%
			2700	2.028	39.866	2.073	38.882	-2.17%	2.53%

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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
05/05/2025	5200-5800 Head	19.2	5150	4.130	37.505	4.608	36.050	-4.73%	4.21%
			5160	4.404	37.548	4.618	36.040	-4.63%	4.18%
			5170	4.417	37.535	4.620	36.030	-4.58%	4.18%
			5180	4.427	37.519	4.635	36.009	-4.49%	4.19%
			5190	4.436	37.500	4.645	35.998	-4.50%	4.17%
			5200	4.445	37.469	4.655	35.986	-4.51%	4.12%
			5210	4.460	37.441	4.666	35.975	-4.41%	4.08%
			5220	4.472	37.431	4.676	35.963	-4.36%	4.08%
			5240	4.494	37.402	4.696	35.940	-4.30%	4.07%
			5250	4.505	37.374	4.706	35.929	-4.27%	4.02%
			5260	4.518	37.362	4.717	35.917	-4.22%	4.02%
			5270	4.529	37.356	4.727	35.906	-4.19%	4.04%
			5280	4.543	37.356	4.737	35.894	-4.10%	4.07%
			5290	4.553	37.322	4.748	35.883	-4.11%	4.01%
			5300	4.565	37.288	4.758	35.871	-4.06%	3.95%
			5310	4.574	37.272	4.768	35.860	-4.07%	3.94%
			5320	4.585	37.242	4.778	35.849	-4.04%	3.89%
			5500	4.790	36.928	4.963	35.643	-3.49%	3.61%
			5510	4.800	36.907	4.973	35.632	-3.48%	3.58%
			5520	4.808	36.880	4.983	35.620	-3.51%	3.54%
			5530	4.820	36.868	4.994	35.609	-3.48%	3.54%
			5540	4.838	36.856	5.004	35.597	-3.32%	3.54%
			5550	4.853	36.831	5.014	35.586	-3.21%	3.50%
			5560	4.862	36.812	5.024	35.574	-3.22%	3.48%
			5580	4.885	36.791	5.045	35.551	-3.17%	3.49%
			5600	4.908	36.772	5.065	35.529	-3.10%	3.50%
			5610	4.918	36.746	5.076	35.518	-3.11%	3.46%
			5620	4.928	36.705	5.086	35.506	-3.11%	3.38%
			5640	4.960	36.660	5.106	35.483	-2.86%	3.32%
			5650	4.965	36.638	5.127	35.460	-2.77%	3.32%
			5670	4.985	36.625	5.137	35.449	-2.76%	3.32%
			5680	5.005	36.621	5.147	35.437	-2.76%	3.34%
			5690	5.017	36.604	5.158	35.426	-2.73%	3.33%
			5700	5.027	36.580	5.168	35.414	-2.73%	3.29%
			5710	5.039	36.561	5.178	35.403	-2.68%	3.27%
			5720	5.052	36.533	5.188	35.391	-2.62%	3.23%
			5745	5.084	36.472	5.214	35.363	-2.49%	3.14%
			5750	5.090	36.468	5.219	35.357	-2.47%	3.14%
			5755	5.095	36.462	5.224	35.351	-2.45%	3.14%
			5765	5.105	36.459	5.234	35.340	-2.45%	3.17%
			5775	5.116	36.446	5.245	35.329	-2.46%	3.16%
			5785	5.128	36.433	5.255	35.317	-2.42%	3.16%
			5795	5.140	36.409	5.265	35.305	-2.37%	3.13%
			5805	5.150	36.389	5.275	35.294	-2.37%	3.10%
			5825	5.170	36.361	5.296	35.271	-2.38%	3.09%
			5835	5.184	36.343	5.305	35.230	-2.28%	3.16%
			5845	5.201	36.317	5.315	35.210	-2.14%	3.14%
			5850	5.208	36.301	5.320	35.200	-2.11%	3.13%
			5855	5.215	36.292	5.325	35.197	-2.07%	3.11%
			5875	5.234	36.274	5.347	35.183	-2.11%	3.10%
			5885	5.245	36.259	5.367	35.177	-2.09%	3.07%
			5905	5.271	36.200	5.379	35.163	-2.01%	2.95%
06/02/2025	5200-5800 Head	20.3	5150	4.481	35.453	4.608	36.050	-2.76%	-1.66%
			5160	4.490	35.439	4.618	36.040	-2.77%	-1.67%
			5170	4.499	35.422	4.620	36.030	-2.81%	-1.69%
			5180	4.505	35.402	4.635	36.009	-2.80%	-1.69%
			5190	4.512	35.383	4.645	35.998	-2.86%	-1.71%
			5200	4.522	35.363	4.655	35.986	-2.86%	-1.73%
			5210	4.532	35.330	4.666	35.975	-2.87%	-1.79%
			5220	4.547	35.310	4.676	35.963	-2.78%	-1.82%
			5240	4.580	35.275	4.696	35.940	-2.47%	-1.85%
			5250	4.591	35.263	4.706	35.929	-2.44%	-1.85%
			5260	4.598	35.253	4.717	35.917	-2.52%	-1.85%
			5270	4.608	35.248	4.727	35.906	-2.52%	-1.83%
			5280	4.618	35.230	4.737	35.894	-2.51%	-1.85%
			5290	4.628	35.201	4.748	35.883	-2.53%	-1.90%
			5300	4.636	35.175	4.758	35.871	-2.56%	-1.94%
			5310	4.646	35.156	4.768	35.860	-2.56%	-1.95%
			5320	4.661	35.146	4.778	35.849	-2.45%	-1.96%
			5500	4.885	34.849	4.963	35.643	-1.67%	-2.23%
			5510	4.892	34.843	4.973	35.632	-1.69%	-2.21%
			5520	4.901	34.838	4.983	35.620	-1.65%	-2.20%
			5530	4.908	34.831	4.994	35.609	-1.72%	-2.18%
			5540	4.915	34.812	5.004	35.597	-1.78%	-2.21%
			5550	4.924	34.781	5.014	35.586	-1.79%	-2.26%
			5560	4.935	34.745	5.024	35.574	-1.77%	-2.33%
			5580	4.967	34.681	5.045	35.551	-1.55%	-2.45%
			5600	4.997	34.652	5.065	35.529	-1.34%	-2.47%
			5610	5.007	34.651	5.076	35.518	-1.36%	-2.44%
			5620	5.013	34.649	5.086	35.506	-1.44%	-2.41%
			5640	5.025	34.623	5.106	35.483	-1.59%	-2.42%
			5660	5.045	34.541	5.127	35.460	-1.60%	-2.59%
			5670	5.060	34.508	5.137	35.449	-1.50%	-2.65%
			5680	5.081	34.486	5.147	35.437	-1.28%	-2.68%
			5690	5.098	34.469	5.158	35.426	-1.16%	-2.70%
			5700	5.112	34.459	5.168	35.414	-1.08%	-2.70%
			5710	5.122	34.460	5.178	35.403	-1.08%	-2.66%
			5720	5.127	34.472	5.188	35.391	-1.18%	-2.60%
			5745	5.140	34.429	5.214	35.363	-1.42%	-2.64%
			5750	5.148	34.409	5.219	35.357	-1.36%	-2.68%
			5755	5.155	34.394	5.224	35.351	-1.32%	-2.71%
			5785	5.172	34.350	5.234	35.340	-1.18%	-2.80%
			5775	5.189	34.311	5.245	35.329	-1.07%	-2.88%
			5785	5.204	34.277	5.255	35.317	-0.97%	-2.94%
			5795	5.219	34.261	5.265	35.305	-0.87%	-2.96%
			5805	5.236	34.263	5.275	35.294	-0.74%	-2.92%
			5825	5.257	34.263	5.296	35.271	-0.74%	-2.86%
			5835	5.260	34.251	5.305	35.230	-0.85%	-2.78%
			5845	5.265	34.230	5.315	35.210	-0.94%	-2.78%
			5850	5.270	34.223	5.320	35.200	-0.94%	-2.78%
			5855	5.276	34.211	5.325	35.197	-0.92%	-2.80%
			5875	5.306	34.148	5.347	35.183	-0.77%	-2.94%
			5885	5.319	34.115	5.357	35.177	-0.71%	-3.02%
			5905	5.351	34.092	5.379	35.163	-0.52%	-3.05%

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Table 11-7
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
04/15/2025	6000 Head	21.3	6000	5.462	35.266	5.480	35.100	-0.33%	0.47%
			6025	5.437	35.111	5.510	35.070	-1.32%	0.12%
			6065	5.514	35.021	5.557	35.022	-0.77%	0.00%
			6075	5.523	35.000	5.569	35.010	-0.83%	-0.03%
			6085	5.520	34.968	5.580	34.998	-0.91%	-0.09%
			6185	5.658	34.817	5.698	34.878	-0.70%	-0.17%
			6275	5.782	34.677	5.805	34.770	-0.40%	-0.27%
			6285	5.784	34.667	5.816	34.758	-0.55%	-0.26%
			6305	5.809	34.614	5.840	34.734	-0.53%	-0.35%
			6345	5.887	34.496	5.887	34.686	0.00%	-0.55%
			6475	6.020	34.379	6.041	34.530	-0.35%	-0.44%
			6485	6.015	34.387	6.052	34.518	-0.61%	-0.38%
			6500	6.016	34.343	6.070	34.500	-0.89%	-0.46%
			6505	6.019	34.314	6.076	34.494	-0.94%	-0.52%
			6545	6.107	34.124	6.122	34.446	-0.25%	-0.93%
			6655	6.254	33.925	6.265	34.302	-0.18%	-1.10%
			6675	6.257	33.937	6.273	34.290	-0.26%	-1.03%
			6685	6.257	33.928	6.285	34.278	-0.45%	-1.02%
			6715	6.275	33.802	6.319	34.242	-0.70%	-1.28%
			6785	6.376	33.769	6.400	34.158	-0.38%	-1.14%
			6825	6.391	33.651	6.447	34.110	-0.87%	-1.35%
			6985	6.628	33.400	6.633	33.918	-0.08%	-1.53%
			6995	6.624	33.405	6.644	33.906	-0.30%	-1.48%
			7000	6.620	33.400	6.650	33.900	-0.45%	-1.47%
			7005	6.616	33.391	6.656	33.894	-0.60%	-1.48%
			7025	6.617	33.312	6.680	33.870	-0.94%	-1.65%
			7500	7.273	32.491	7.240	33.300	0.46%	-2.43%
			7980	7.868	31.763	7.816	32.724	0.67%	-2.88%
			8000	7.893	31.803	7.840	32.700	0.68%	-2.74%
04/21/2025	6000 Head	20.6	6000	5.564	35.385	5.480	35.100	1.53%	0.75%
			6025	5.650	35.134	5.510	35.070	2.54%	0.18%
			6065	5.694	35.227	5.557	35.022	2.47%	0.59%
			6075	5.701	35.210	5.569	35.010	2.37%	0.57%
			6085	5.706	35.166	5.580	34.998	2.26%	0.48%
			6185	5.832	34.992	5.698	34.878	2.35%	0.33%
			6275	5.959	34.825	5.805	34.770	2.65%	0.16%
			6285	5.968	34.805	5.816	34.758	2.61%	0.14%
			6305	5.982	34.736	5.840	34.734	2.43%	0.01%
			6345	6.051	34.666	5.887	34.686	2.79%	-0.06%
			6475	6.196	34.486	6.041	34.530	2.57%	-0.13%
			6485	6.200	34.457	6.052	34.518	2.45%	-0.18%
			6500	6.207	34.386	6.070	34.500	2.26%	-0.33%
			6505	6.211	34.360	6.076	34.494	2.22%	-0.39%
			6545	6.295	34.270	6.122	34.446	2.83%	-0.51%
			6655	6.448	34.106	6.265	34.302	2.92%	-0.57%
			6675	6.448	34.113	6.273	34.290	2.79%	-0.52%
			6685	6.446	34.093	6.285	34.278	2.56%	-0.54%
			6715	6.476	33.938	6.319	34.242	2.48%	-0.89%
			6785	6.567	33.914	6.400	34.158	2.61%	-0.71%
			6825	6.610	33.737	6.447	34.110	2.53%	-1.09%
			6985	6.817	33.566	6.633	33.918	2.77%	-1.04%
			6995	6.816	33.531	6.644	33.906	2.59%	-1.11%
			7000	6.817	33.503	6.650	33.900	2.51%	-1.17%
			7005	6.818	33.474	6.656	33.894	2.43%	-1.24%
			7025	6.836	33.386	6.680	33.870	2.34%	-1.43%
			7500	7.414	32.567	7.240	33.300	2.40%	-2.20%
			7980	8.018	31.767	7.816	32.724	2.58%	-2.92%
			8000	8.068	31.898	7.840	32.700	2.88%	-2.48%
04/25/2025	6000 Head	22.1	6000	5.439	35.355	5.480	35.100	-0.75%	0.73%
			6025	5.520	35.284	5.510	35.070	0.18%	0.61%
			6065	5.563	35.338	5.557	35.022	0.11%	0.90%
			6075	5.570	35.321	5.569	35.010	0.02%	0.89%
			6085	5.575	35.285	5.580	34.998	-0.09%	0.82%
			6185	5.691	35.110	5.698	34.878	-0.12%	0.67%
			6275	5.816	34.959	5.805	34.770	0.19%	0.54%
			6285	5.822	34.931	5.816	34.758	0.10%	0.50%
			6305	5.837	34.844	5.840	34.734	-0.05%	0.32%
			6345	5.908	34.774	5.887	34.686	0.36%	0.25%
			6475	6.049	34.627	6.041	34.530	0.13%	0.28%
			6485	6.055	34.604	6.052	34.518	0.05%	0.25%
			6500	6.065	34.542	6.070	34.500	-0.07%	0.12%
			6505	6.070	34.521	6.076	34.494	-0.10%	0.08%
			6545	6.150	34.426	6.122	34.446	0.46%	-0.06%
			6655	6.302	34.294	6.265	34.302	0.59%	-0.05%
			6675	6.306	34.296	6.273	34.290	0.53%	0.02%
			6685	6.309	34.286	6.285	34.278	0.38%	0.02%
			6715	6.335	34.141	6.319	34.242	0.25%	-0.29%
			6785	6.421	34.094	6.400	34.158	0.33%	-0.19%
			6825	6.461	33.936	6.447	34.110	0.22%	-0.51%
			6985	6.662	33.728	6.633	33.918	0.44%	-0.56%
			6995	6.669	33.696	6.644	33.906	0.38%	-0.62%
			7000	6.673	33.678	6.650	33.900	0.35%	-0.65%
			7005	6.678	33.657	6.656	33.894	0.33%	-0.70%
			7025	6.698	33.586	6.680	33.870	0.27%	-0.84%
			7500	7.263	32.797	7.240	33.300	0.32%	-1.51%
			7980	7.860	32.054	7.816	32.724	0.56%	-2.05%
			8000	7.902	32.125	7.840	32.700	0.75%	-1.76%

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Table 11-8
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
05/05/2025	6000 Head	21.9	5935	5.317	34.982	5.411	35.143	-1.74%	-0.46%
			5970	5.362	34.974	5.448	35.120	-1.58%	-0.42%
			5985	5.373	34.954	5.464	35.110	-1.67%	-0.44%
			6000	5.396	34.895	5.480	35.100	-1.53%	-0.58%
			6025	5.468	34.779	5.510	35.070	-0.76%	-0.83%
			6065	5.519	34.891	5.557	35.022	-0.68%	-0.37%
			6075	5.507	34.880	5.569	35.010	-1.11%	-0.37%
			6085	5.511	34.809	5.580	34.998	-1.24%	-0.54%
			6185	5.629	34.617	5.698	34.878	-1.21%	-0.75%
			6275	5.762	34.493	5.805	34.770	-0.74%	-0.80%
			6285	5.759	34.421	5.816	34.758	-0.98%	-0.97%
			6305	5.769	34.342	5.840	34.734	-1.22%	-1.13%
			6345	5.857	34.300	5.887	34.686	-0.51%	-1.11%
			6475	5.984	34.152	6.041	34.530	-0.94%	-1.09%
			6485	5.988	34.142	6.052	34.518	-1.06%	-1.09%
			6500	6.000	34.036	6.070	34.500	-1.15%	-1.34%
			6505	6.002	34.013	6.076	34.494	-1.22%	-1.39%
			6545	6.089	33.917	6.122	34.446	-0.54%	-1.54%
			6665	6.232	33.787	6.265	34.302	-0.53%	-1.50%
			6675	6.236	33.829	6.273	34.290	-0.59%	-1.34%
			6685	6.249	33.819	6.285	34.278	-0.57%	-1.34%
			6715	6.253	33.580	6.319	34.242	-1.04%	-1.93%
			6785	6.372	33.608	6.400	34.158	-0.44%	-1.61%
			6825	6.397	33.390	6.447	34.110	-0.78%	-2.11%
			6985	6.625	33.256	6.633	33.918	-0.12%	-1.95%
			6995	6.621	33.224	6.644	33.906	-0.35%	-2.01%
			7000	6.609	33.196	6.650	33.900	-0.62%	-2.08%
			7005	6.593	33.172	6.656	33.894	-0.95%	-2.13%
			7025	6.599	33.052	6.680	33.870	-1.21%	-2.42%

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

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11.2 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 11-9
System Verification Results

SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
G	13	HEAD	05/06/2025	23.3	22.4	1.00	1002	7539	1415	0.50	0.52	0.50	-3.08%	0.31	0.33	0.31	-1.38%	0.00	0.00	0.01	N/A
M	750	HEAD	05/03/2025	21.5	21.3	0.20	1054	7661	1558	1.83	8.68	9.15	5.41%	1.22	5.61	6.10	8.73%	N/A	N/A	N/A	N/A
C	750	HEAD	05/09/2025	24.5	22.5	0.20	1054	7713	1530	1.70	8.68	8.50	-2.07%	1.12	5.61	5.60	-0.18%	N/A	N/A	N/A	N/A
L	750	HEAD	05/12/2025	21.9	21.1	0.20	1054	7659	1272	1.74	8.68	8.70	0.23%	1.15	5.61	5.75	2.50%	N/A	N/A	N/A	N/A
L	750	HEAD	05/16/2025	23.1	21.8	0.20	1054	7659	1272	1.81	8.68	9.05	4.26%	1.19	5.61	5.95	6.06%	N/A	N/A	N/A	N/A
F	750	HEAD	05/21/2025	21.1	21.8	0.20	1161	7670	1450	1.73	8.26	8.65	3.47%	1.16	5.41	5.80	7.21%	N/A	N/A	N/A	N/A
F	750	HEAD	05/27/2025	22.5	23.6	0.20	1054	7670	1450	1.78	8.68	8.90	2.53%	1.19	5.61	5.95	6.06%	N/A	N/A	N/A	N/A
O	835	HEAD	04/16/2025	23.0	22.8	0.20	46047	3914	728	2.01	9.44	10.05	6.46%	1.33	6.09	6.65	9.20%	N/A	N/A	N/A	N/A
O	835	HEAD	04/21/2025	21.9	23.5	0.20	46133	3914	728	2.07	9.94	10.35	4.12%	1.37	6.49	6.85	5.55%	N/A	N/A	N/A	N/A
S	835	HEAD	04/28/2025	25.0	24.7	0.20	46132	7803	1583	1.95	9.84	9.75	-0.91%	1.29	6.40	6.45	0.78%	N/A	N/A	N/A	N/A
L	835	HEAD	04/28/2025	21.6	20.5	0.20	46132	7660	1678	2.05	9.84	10.25	4.17%	1.35	6.40	6.75	5.47%	N/A	N/A	N/A	N/A
M	835	HEAD	05/03/2025	21.5	21.3	0.20	46132	7661	1558	2.04	9.84	10.20	3.66%	1.36	6.40	6.80	6.25%	N/A	N/A	N/A	N/A
L	835	HEAD	05/12/2025	21.9	21.1	0.20	46133	7659	1272	1.97	9.94	9.85	-0.91%	1.29	6.49	6.45	-0.62%	N/A	N/A	N/A	N/A
L	835	HEAD	05/14/2025	19.9	22.2	0.20	46133	7659	1272	2.10	9.94	10.50	5.63%	1.37	6.49	6.85	5.55%	N/A	N/A	N/A	N/A
R	835	HEAD	05/16/2025	21.6	20.8	0.20	46133	7570	1638	1.94	9.94	9.70	-2.41%	1.27	6.49	6.35	-2.16%	N/A	N/A	N/A	N/A
L	835	HEAD	05/16/2025	23.1	21.8	0.20	46133	7659	1272	2.00	9.94	10.00	0.60%	1.31	6.49	6.55	0.92%	N/A	N/A	N/A	N/A
F	835	HEAD	05/19/2025	20.7	21.0	0.20	46132	7670	1450	2.07	9.84	10.35	5.18%	1.35	6.40	6.75	5.47%	N/A	N/A	N/A	N/A
F	835	HEAD	05/27/2025	22.5	23.6	0.20	46132	7670	1450	2.09	9.84	10.45	6.20%	1.40	6.40	7.00	9.38%	N/A	N/A	N/A	N/A
G	1750	HEAD	04/14/2025	23.3	22.3	0.10	1150	7488	1415	3.77	36.40	37.70	3.57%	2.00	19.40	20.00	3.09%	N/A	N/A	N/A	N/A
G	1750	HEAD	04/16/2025	23.7	23.0	0.10	1148	7488	1415	3.42	36.90	34.20	-7.32%	1.83	19.60	18.30	-6.63%	N/A	N/A	N/A	N/A
J	1750	HEAD	04/16/2025	23.1	21.4	0.10	1148	7406	1677	3.79	36.90	37.90	2.71%	2.01	19.60	20.10	2.55%	N/A	N/A	N/A	N/A
C	1750	HEAD	05/03/2025	21.9	22.1	0.10	1150	7713	1530	3.61	36.40	36.10	-0.82%	1.95	19.40	19.50	0.52%	N/A	N/A	N/A	N/A
J	1750	HEAD	05/09/2025	21.6	21.6	0.10	1148	7406	1677	3.77	36.90	37.70	2.17%	2.00	19.60	20.00	2.04%	N/A	N/A	N/A	N/A
J	1750	HEAD	05/14/2025	21.6	20.2	0.10	1148	7406	1677	3.80	36.90	38.00	2.98%	2.02	19.60	20.20	3.06%	N/A	N/A	N/A	N/A
G	1900	HEAD	04/14/2025	23.1	22.3	0.10	50080	7488	1415	4.24	39.60	42.40	7.07%	2.18	20.70	21.80	5.31%	N/A	N/A	N/A	N/A
G	1900	HEAD	04/16/2025	23.7	23.0	0.10	50080	7488	1415	4.09	39.60	40.90	3.28%	2.11	20.70	21.10	1.93%	N/A	N/A	N/A	N/A
J	1900	HEAD	04/23/2025	23.7	22.6	0.10	50080	7406	1677	4.32	39.60	43.20	9.09%	2.23	20.70	22.30	7.73%	N/A	N/A	N/A	N/A
J	1900	HEAD	04/29/2025	21.4	21.0	0.10	50148	7406	1677	4.24	39.60	42.40	7.07%	2.18	20.90	21.90	4.78%	N/A	N/A	N/A	N/A
C	1900	HEAD	05/03/2025	21.9	22.1	0.10	50148	7713	1530	4.10	39.60	41.00	3.54%	2.14	20.90	21.40	2.39%	N/A	N/A	N/A	N/A
L	2450	HEAD	04/17/2025	19.5	19.1	0.10	797	7660	1678	5.34	52.00	53.40	2.69%	2.49	24.60	24.90	2.05%	N/A	N/A	N/A	N/A
P	2450	HEAD	04/23/2025	21.8	21.5	0.10	719	7571	859	5.15	52.00	51.50	-1.34%	2.42	24.60	24.20	-1.63%	N/A	N/A	N/A	N/A
P	2450	HEAD	04/28/2025	22.4	21.9	0.10	797	7571	859	5.61	52.00	56.10	7.88%	2.64	24.60	26.40	8.20%	N/A	N/A	N/A	N/A
P	2450	HEAD	04/30/2025	19.5	19.4	0.10	719	7571	859	5.20	52.00	52.00	0.00%	2.44	24.60	24.40	-0.81%	N/A	N/A	N/A	N/A
P	2450	HEAD	05/02/2025	20.8	19.1	0.10	719	7571	859	5.15	52.00	51.50	-1.34%	2.42	24.60	24.20	-1.63%	N/A	N/A	N/A	N/A
O	2450	HEAD	05/02/2025	20.3	20.0	0.10	981	7718	1407	4.89	51.80	48.90	-5.60%	2.34	24.30	23.40	-3.70%	N/A	N/A	N/A	N/A
L	2450	HEAD	05/10/2025	21.6	21.0	0.10	719	7659	1272	5.53	52.00	55.30	5.94%	2.59	24.60	25.90	5.28%	N/A	N/A	N/A	N/A
O	2450	HEAD	05/19/2025	20.3	21.3	0.10	797	7718	1407	5.30	52.00	53.00	1.92%	2.49	24.60	24.90	2.05%	N/A	N/A	N/A	N/A
O	2450	HEAD	05/21/2025	20.7	20.0	0.10	719	7718	1407	5.27	52.00	52.70	0.96%	2.48	24.60	24.80	0.81%	N/A	N/A	N/A	N/A
O	2450	HEAD	05/27/2025	20.0	20.4	0.10	797	7718	1407	5.15	52.00	51.50	-0.96%	2.41	24.40	24.10	-1.23%	N/A	N/A	N/A	N/A
O	2450	HEAD	05/29/2025	20.5	22.5	0.10	797	7718	1407	5.17	52.00	51.70	-0.58%	2.41	24.40	24.10	-1.23%	N/A	N/A	N/A	N/A
O	2450	HEAD	06/02/2025	20.5	20.0	0.10	797	7718	1407	4.73	52.00	47.30	-9.04%	2.23	24.40	22.30	-8.61%	N/A	N/A	N/A	N/A
L	2600	HEAD	04/15/2025	19.5	19.5	0.10	1071	7660	1678	5.49	56.50	54.90	-2.83%	2.47	25.40	24.70	-2.76%	N/A	N/A	N/A	N/A
P	2600	HEAD	04/23/2025	21.8	21.5	0.10	1071	7571	859	5.46	56.50	54.60	-3.36%	2.46	25.40	24.60	-3.15%	N/A	N/A	N/A	N/A
P	2600	HEAD	04/28/2025	22.4	21.9	0.10	1071	7571	859	5.36	56.50	53.60	-5.13%	2.44	25.40	24.40	-3.94%	N/A	N/A	N/A	N/A
L	2600	HEAD	04/29/2025	21.6	20.1	0.10	1071	7659	1272	5.65	56.50	56.60	0.18%	2.55	25.40	25.50	0.39%	N/A	N/A	N/A	N/A
P	2600	HEAD	05/02/2025	20.8	19.1	0.10	1071	7571	859	5.33	56.50	53.30	-5.66%	2.42	25.40	24.20	-4.72%	N/A	N/A	N/A	N/A
L	2600	HEAD	05/05/2025	20.7	19.5	0.10	1071	7659	1272	5.97	56.50	59.70	5.66%	2.70	25.40	27.00	6.30%	N/A	N/A	N/A	N/A
S	5250	HEAD	05/05/2025	23.2	21.1	0.05	1191	7803	1583	3.94	78.90	78.80	-0.13%	1.16	22.70	23.20	2.20%	N/A	N/A	N/A	N/A
S	5250	HEAD	05/27/2025	21.7	20.7	0.05	1191	7803	1583	3.76	78.90	75.20	-4.69%	1.10	22.70	22.00	-3.08%	N/A	N/A	N/A	N/A
S	5250	HEAD	06/02/2025	22.6	20.3	0.05	1191	7803	1583	3.73	78.90	74.60	-5.45%	1.09	22.70	21.80	-3.96%	N/A	N/A	N/A	N/A
S	5600	HEAD	05/05/2025	23.2	21.1	0.05	1191	7803	1583	4.28	83.00	85.60	3.13%	1.24	23.90	24.80	3.77%	N/A	N/A	N/A	N/A
S	5600	HEAD	05/27/2025	21.7	20.7	0.05	1191	7803	1583	3.93	83.00	78.60	-5.30%	1.14	23.90	22.80	-4.60%	N/A	N/A	N/A	N/A
S	5600	HEAD	06/02/2025	22.6	20.3	0.05	1191	7803	1583	3.94	83.00	78.80	-5.06%	1.14	23.90	22.80	-4.60%	N/A	N/A	N/A	N/A
S	5750	HEAD	05/05/2025	23.2	21.1	0.05	1191	7803	1583	4.10	78.90	82.00	3.93%	1.20	22.40	24.00	7.14%	N/A	N/A	N/A	N/A
S	5750	HEAD	05/27/2025	21.7	20.7	0.05	1191	7803	1583	3.93	78.90	78.60	-0.38%	1.12	22.40	22.40	0.00%	N/A	N/A	N/A	N/A
S	5750	HEAD	06/02/2025	22.6	20.3	0.05	1191	7803	1583	3.87	78.90	77.40	-1.90%	1.12	22.40	22.40	0.00%	N/A	N/A	N/A	N/A
S	5850	HEAD	05/05/2025	23.2	21.1	0.05	1191	7803	1583	4.08	78.80	81.60	3.55%	1.17	22.50	23.40	4.00%	N/A	N/A	N/A	N/A
S	5850	HEAD	05/27/2025	21.7	20.7	0.05	1191	7803	1583	3.86	78.80	77.20	-2.03%	1.12	22.50	22.40	-0.44%	N/A	N/A	N/A	N/A
S	5850	HEAD	06/02/2025	22.6	20.3	0.05	1191	7803	1583	3.90	78.90	78.00	-1.14%	1.11	22.40	22.20	-0.89%	N/A	N/A	N/A	N/A
R	6500	HEAD	04/15/2025	21.3	21.3	0.03	1111	7570	1638	7.31	292.00	292.40	0.14%	1.31	55.20	52.40	-5.07%	31.80	1350.00	1272.00	-5.78%
R	6500	HEAD	04/21/2025	21.3	20.6	0.03	1018	7570	1638	7.35	292.00	294.00	0.68%	1.32	53.90	52.80	-2.04%	32.10	1310.00	1284.00	-1.98%
R	6500	HEAD	05/05/2025	23.4	21.9	0.															

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.

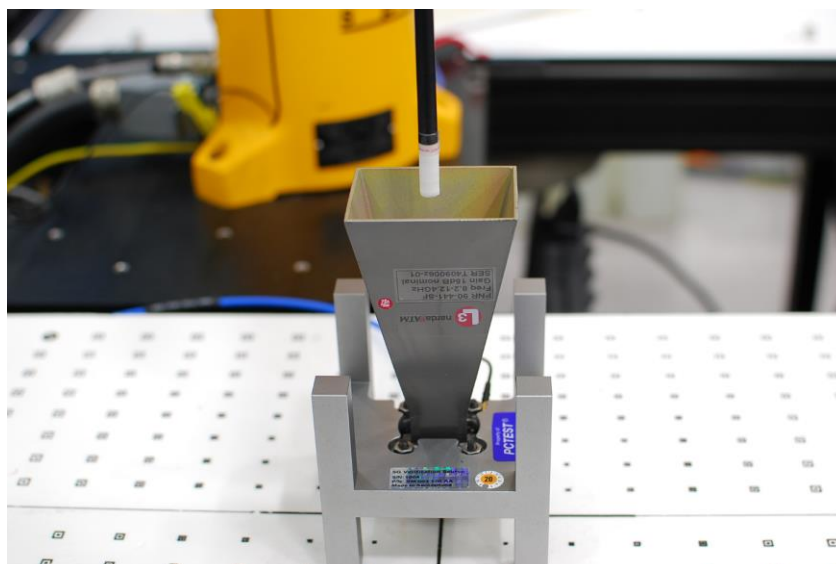


Figure 11-3
System Verification Setup Photo

Table 11-10
10 GHz Verifications

System Verification											
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	04-24-2025	1002	9389	93.3	48.80	53.80	-0.42	49.20	54.00	-0.40
Q	10	04-27-2025	1002	9389	93.3	49.30	53.80	-0.38	49.50	54.00	-0.38
Q	10	06-03-2025	1002	9389	93.3	47.10	53.80	-0.58	47.30	54.00	-0.58

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 Ant A F/C Head

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	GSM 850	GSM	A	0879M	1:8.3	-0.04	824.20	128	33.5	32.88	Right Cheek	0	0.126	1.153	0.145	0.504	0.504	0.315		32.6		
Head	GSM 850	GSM	A	0879M	1:8.3	-0.11	824.20	128	33.5	32.88	Right Tilt	0	0.057	1.153	0.066	0.228	0.228	0.143		36.1	32.6	29.7
Head	GSM 850	GSM	A	0879M	1:8.3	0.10	824.20	128	33.5	32.88	Left Cheek	0	0.077	1.153	0.089	0.308	0.308	0.193		34.8		
Head	GSM 850	GSM	A	0879M	1:8.3	0.03	824.20	128	33.5	32.88	Left Tilt	0	0.048	1.153	0.055	0.192	0.192	0.120		36.8		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Head											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

Table 12-2 Ant A+C F/C Head | Plot A1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	GSM 850	GSM	A+C	0875M	1:8.3	-0.06	824.20	128	33.5	32.88	Right Cheek	0	0.151	1.153	0.174	0.604	0.604	0.378	Plot	31.8		
Head	GSM 850	GSM	A+C	0875M	1:8.3	0.07	824.20	128	33.5	32.88	Right Tilt	0	0.062	1.153	0.075	0.248	0.248	0.155		35.7	31.8	29.7
Head	GSM 850	GSM	A+C	0875M	1:8.3	0.07	824.20	128	33.5	32.88	Left Cheek	0	0.070	1.153	0.085	0.280	0.280	0.175		35.2		
Head	GSM 850	GSM	A+C	0875M	1:8.3	0.06	824.20	128	33.5	32.88	Left Tilt	0	0.043	1.153	0.050	0.172	0.172	0.108		37.3		
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 Ant A+C F/O Head | Plot A2

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	GSM 850	GSM	A+C	0879M	1:8.3	-0.14	824.20	128	33.5	32.88	Right Cheek	0	0.048	1.153	0.055	0.392	0.392	0.245		36.8		
Head	GSM 850	GSM	A+C	0878M	1:8.3	0.12	824.20	128	33.5	32.88	Right Tilt	0	0.050	1.153	0.058	0.408	0.408	0.255		36.6	35.0	32.8
Head	GSM 850	GSM	A+C	0879M	1:8.3	-0.07	824.20	128	33.5	32.88	Left Cheek	0	0.073	1.153	0.084	0.396	0.396	0.373	Plot	35.0		
Head	GSM 850	GSM	A+C	0879M	1:8.3	0.00	824.20	128	33.5	32.88	Left Tilt	0	0.044	1.153	0.051	0.359	0.359	0.224		37.2		
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 12-4

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	GPS 850	GPS 3 Tx Slots	A	0879M	1:2.76	-0.05	824.20	128	30.0	29.30	Back	5	0.755	1.175	0.887	0.887	0.887	0.554		26.0		
Body-worn/Hotspot	GPS 850	GPS 3 Tx Slots	A	0879M	1:2.76	-0.08	836.60	190	30.0	29.76	Back	5	0.775	1.057	0.839	0.819	0.819	0.512		26.4		
Body-worn/Hotspot	GPS 850	GPS 3 Tx Slots	A	0879M	1:2.76	0.00	848.80	251	30.0	29.67	Back	5	0.612	1.079	0.660	0.660	0.660	0.413		27.3	26.0	25.6
Hotspot	GPS 850	GPS 3 Tx Slots	A	0879M	1:2.76	0.06	836.60	190	30.0	29.76	Front	5	0.262	1.057	0.277	0.277	0.277	0.173		31.1		
Hotspot	GPS 850	GPS 3 Tx Slots	A	0879M	1:2.76	0.06	836.60	190	30.0	29.76	Bottom	10	0.192	1.057	0.203	0.203	0.203	0.127		32.4		
Hotspot	GPS 850	GPS 3 Tx Slots	A	0879M	1:2.76	-0.10	836.60	190	30.0	29.76	Right	10	0.391	1.057	0.413	0.413	0.413	0.258		29.4		
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 12-5 | Plot A3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	GPS 850	GPS 3 Tx Slots	A+C	0875M	1:2.76	-0.01	824.20	128	30.0	29.30	Back	5	0.838	1.175	0.985	0.985	0.985	0.616	Plot	25.6		
Body-worn/Hotspot	GPS 850	GPS 3 Tx Slots	A+C	0875M	1:2.76	-0.15	836.60	190	30.0	29.76	Back	5	0.756	1.057	0.799	0.799	0.799	0.499		26.5		
Body-worn/Hotspot	GPS 850	GPS 3 Tx Slots	A+C	0875M	1:2.76	0.00	848.80	251	30.0	29.67	Back	5	0.701	1.079	0.756	0.756	0.756	0.473		26.7		
Hotspot	GPS 850	GPS 3 Tx Slots	A+C	0875M	1:2.76	-0.04	836.60	190	30.0	29.76	Front	5	0.227	1.057	0.240	0.240	0.240	0.150		31.7	25.6	25.6
Hotspot	GPS 850	GPS 3 Tx Slots	A+C	0875M	1:2.76	-0.04	836.60	190	30.0	29.76	Bottom	10	0.150	1.057	0.159	0.159	0.159	0.099		33.5		
Hotspot	GPS 850	GPS 3 Tx Slots	A+C	0878M	1:2.76	-0.06	836.60	190	30.0	29.76	Right	10	0.340	1.057	0.359	0.359	0.359	0.224		30.0		
Hotspot	GPS 850	GPS 3 Tx Slots	A+C	0879M	1:2.76	0.00	836.60	190	30.0	29.76	Left	10	0.070	1.057	0.074	0.074	0.074	0.046		36.8		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

Table 12-6 | Plot A4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body	GPS 850	GPS 4 Tx Slots	A+C	0878M	1:2.076	-0.02	848.80	251	25.5	24.01	Back	5	0.363	1.409	0.511	0.511	0.560	0.351	Plot	25.2		
Body	GPS 850	GPS 4 Tx Slots	A+C	0875M	1:2.076	-0.18	848.80	251	25.5	24.01	Top	5	0.033	1.409	0.046	0.046	0.050	0.032		35.6		
Body	GPS 850	GPS 4 Tx Slots	A+C	0875M	1:2.076	0.09	848.80	251	25.5	24.01	Bottom	5	0.166	1.409	0.234	0.234	0.260	0.161		28.6	25.2	21.3
Body	GPS 850	GPS 4 Tx Slots	A+C	0878M	1:2.076	0.06	848.80	251	25.5	24.01	Right	5	0.110	1.409	0.240	0.240	0.260	0.165		28.5		
Body	GPS 850	GPS 4 Tx Slots	A+C	0875M	1:2.076	-0.07	848.80	251	25.5	24.01	Left	5	0.071	1.409	0.100	0.100	0.110	0.069		32.3		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

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12.2 GSM 1900 Standalone SAR

Table 12-7 F/C Head | Plot A5

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	GSM 1900	GSM	B	0881M	1.8.3	0.08	1850.20	512	31.0	30.25	Right Cheek	0	0.027	1.189	0.032	0.545	0.545	0.341		36.7		
Head	GSM 1900	GSM	B	0881M	1.8.3	0.01	1850.20	512	31.0	30.25	Right Tilt	0	0.018	1.189	0.021	0.363	0.363	0.227		38.4	36.2	34.1
Head	GSM 1900	GSM	B	0881M	1.8.3	-0.13	1850.20	512	31.0	30.25	Left Cheek	0	0.030	1.189	0.036	0.606	0.606	0.379	Plot	36.2		
Head	GSM 1900	GSM	B	0881M	1.8.3	0.11	1850.20	512	31.0	30.25	Left Tilt	0	0.018	1.189	0.021	0.363	0.363	0.227		38.4		
ANSI/IEEE CS6.1-1992 - SAFETY LIMIT																						
Spatial Peak												Head										
Uncontrolled Exposure/General Population												1.6 W/kg (mW/g) averaged over 1 gram										

Table 12-8 F/O Head | Plot A6

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Head	GSM 1900	GSM	B	0872M	1.8.3	0.14	1850.20	512	31.0	30.25	Right Cheek	0	0.040	1.189	0.048	0.559	0.559	0.349	Plot	35.0	35.0	32.5	
Head	GSM 1900	GSM	B	0872M	1.8.3	0.13	1850.20	512	31.0	30.25	Right Tilt	0	0.011	1.189	0.013	0.154	0.154	0.096		40.6			
Head	GSM 1900	GSM	B	0872M	1.8.3	0.21	1850.20	512	31.0	30.25	Left Cheek	0	0.022	1.189	0.026	0.307	0.307	0.192		37.6			
Head	GSM 1900	GSM	B	0872M	1.8.3	0.03	1850.20	512	31.0	30.25	Left Tilt	0	0.013	1.189	0.015	0.182	0.182	0.114		39.9			
ANSI/IEEE CS6.1-1992 - SAFETY LIMIT												Head											
Spatial Peak												1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population												averaged over 1 gram											

Table 12-9 | Plot A7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dbm]	Conducted Power [dbm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dbm]	Overall Plimit [dbm]	EPS Plimit [dbm]
Body-worn/hotspot	GPSS 1900	GPSS 4 Tx Slots	B	0881M	1.2.076	-0.06	1850.20	512	22.5	21.39	Back	5	0.519	1.291	0.670	0.670	0.740	0.461	Plot	21.0	21.0	18.3
Hotspot	GPSS 1900	GPSS 4 Tx Slots	B	0881M	1.2.076	-0.16	1850.20	512	22.5	21.39	Front	5	0.240	1.291	0.310	0.310	0.340	0.213		24.4		
Hotspot	GPSS 1900	GPSS 4 Tx Slots	B	0881M	1.2.076	-0.05	1850.20	512	22.5	21.39	Bottom	10	0.253	1.291	0.327	0.327	0.360	0.224		24.1		
Hotspot	GPSS 1900	GPSS 4 Tx Slots	B	0881M	1.2.076	-0.01	1850.20	512	22.5	21.39	Left	10	0.039	1.291	0.050	0.050	0.060	0.034		32.2		
ANSI/IEEE CS6.1-1992 - SAFETY LIMIT												Body										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

Table 12-10 | Plot A8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body	GPSS 1900	GPSS 4 Tx Slots	B	0881M	1.2.076	-0.03	1850.20	512	18.5	17.14	Back	5	0.312	1.368	0.427	0.427	0.470	0.294	Plot	19.0		
Body	GPSS 1900	GPSS 4 Tx Slots	B	0881M	1.2.076	0.01	1850.20	512	18.5	17.14	Top	5	0.000	1.368	0.000	0.000	0.000	0.000		53.9	19.0	14.3
Body	GPSS 1900	GPSS 4 Tx Slots	B	0881M	1.2.076	-0.01	1850.20	512	18.5	17.14	Bottom	5	0.260	1.368	0.356	0.356	0.390	0.245		19.8		
Body	GPSS 1900	GPSS 4 Tx Slots	B	0881M	1.2.076	-0.08	1850.20	512	18.5	17.14	Right	5	0.020	1.368	0.027	0.027	0.030	0.025		30.9		
Body	GPSS 1900	GPSS 4 Tx Slots	B	0881M	1.2.076	0.06	1850.20	512	18.5	17.14	Left	5	0.008	1.368	0.011	0.011	0.010	0.008		34.9		
ANSI/IEEE CS6.1-1992 - SAFETY LIMIT												Body										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

12.3 UMTS 850 Standalone SAR

Table 12-11 Ant A F/C Head | Plot A9

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	UMTS 850	RMC	A	0879M	1.1	-0.19	836.60	4183	25.3	24.75	Right Cheek	0	0	0.239	1.135	0.271	0.607	0.607	0.379	Plot	30.9		
Head	UMTS 850	RMC	A	0879M	1.1	-0.05	836.60	4183	25.3	24.75	Right Tilt	0	0	0.088	1.135	0.100	0.224	0.224	0.140		35.3	30.9	28.8
Head	UMTS 850	RMC	A	0879M	1.1	0.08	836.60	4183	25.3	24.75	Left Cheek	0	0	0.119	1.135	0.135	0.302	0.302	0.189		31.9		
Head	UMTS 850	RMC	A	0879M	1.1	0.06	836.60	4183	25.3	24.75	Left Tilt	0	0	0.077	1.135	0.087	0.196	0.196	0.123		35.8		
ANSI/IEEE CS6.1-1992 - SAFETY LIMIT														Head									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

Table 12-12 Ant A+C F/C Head

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]	Adjusted 1g SAR with Multi Tx SAR Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	UMTS 850	RMC	A+C	0879M	1:1	0.03	836.60	4183	25.3	24.75	Right Cheek	0	0	0.204	1.135	0.232	0.518	0.518	0.324		31.6		
Head	UMTS 850	RMC	A+C	0879M	1:1	0.05	836.60	4183	25.3	24.75	Right Tilt	0	0	0.091	1.135	0.103	0.231	0.231	0.144		35.1		
Head	UMTS 850	RMC	A+C	0879M	1:1	0.05	836.60	4183	25.3	24.75	Left Cheek	0	0	0.106	1.135	0.120	0.269	0.269	0.168		34.4	31.6	28.8
Head	UMTS 850	RMC	A+C	0879M	1:1	0.04	836.60	4183	25.3	24.75	Left Tilt	0	0	0.062	1.135	0.070	0.158	0.158	0.099		36.8		
ANSI/IEEE CS6.1-1992 - SAFETY LIMIT														Head									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

Table 12-13 Ant A+C F/O Head | Plot A10

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Head	UMTS 850	RMC	A+C	0879M	1.1	0.01	836.60	4183	25.3	24.75	Right Cheek	0	46	0.047	1.135	0.053	0.091	0.091	0.057		38.0			
Head	UMTS 850	RMC	A+C	0879M	1.1	-0.01	836.60	4183	25.3	24.75	Right Tilt	0	0	0.068	1.135	0.077	0.131	0.131	0.082		36.4	29.8	27.6	
Head	UMTS 850	RMC	A+C	0879M	1.1	0.01	836.60	4183	25.3	24.75	Left Cheek	0	0	0.307	1.135	0.348	0.592	0.592	0.370	Plot	29.8			
Head	UMTS 850	RMC	A+C	0879M	1.1	0.05	836.60	4183	25.3	24.75	Left Tilt	0	10	0.087	1.135	0.099	0.168	0.168	0.105		35.3			
ANSI/IEEE CS6.1-1992 - SAFETY LIMIT														Head										
Spatial Peak														1.6 W/kg (mW/g)										
Uncontrolled (Uncontrolled) - General Population																								

Table 12-14 | Plot A11

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	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	0879M	1.1	-0.01	826.60	4132	25.3	24.58	Back	5	27	0.765	1.180	0.903	0.990	0.619	Plot	25.7		
Body-worn/Hotspot	UMTS 850	RMC	A	0879M	1.1	-0.03	836.60	4183	25.3	24.75	Back	5	27	0.754	1.135	0.856	0.939	0.587			25.7	
Body-worn/Hotspot	UMTS 850	RMC	A	0879M	1.1	-0.01	836.60	4233	25.3	24.68	Back	5	27	0.709	1.133	0.807	0.886	0.554				25.7
Hotspot	UMTS 850	RMC	A	0879M	1.1	-0.09	836.60	4183	25.3	24.75	Front	5	27	0.237	1.135	0.269	0.295	0.184				31.0
Hotspot	UMTS 850	RMC	A	0879M	1.1	-0.02	836.60	4183	25.3	24.75	Bottom	10	27	0.220	1.135	0.250	0.274	0.171				31.3
Hotspot	UMTS 850	RMC	A	0879M	1.1	0.04	836.60	4183	25.3	24.75	Right	10	27	0.334	1.135	0.379	0.416	0.260				29.5
ANSI/IEEE C95.1-1981 - SAFETY LIMIT														Body								
Spatial Peak														1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population														averaged over 1 gram								

Table 12-15

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	UMTS 850	RMC	A+C	0878M	1.1	-0.07	836.60	4183	25.3	24.75	Back	5	0	0.679	1.135	0.771	0.845	0.845	0.528		26.4		
Hotspot	UMTS 850	RMC	A+C	0878M	1.1	-0.12	836.60	4183	25.3	24.75	Front	5	108	0.208	1.135	0.236	0.259	0.259	0.162			25.7	
Hotspot	UMTS 850	RMC	A+C	0878M	1.1	-0.02	836.60	4183	25.3	24.75	Bottom	10	108	0.172	1.135	0.195	0.214	0.214	0.134				25.7
Hotspot	UMTS 850	RMC	A+C	0878M	1.1	-0.08	836.60	4183	25.3	24.75	Right	10	108	0.400	1.135	0.434	0.498	0.498	0.311				25.7
Hotspot	UMTS 850	RMC	A+C	0878M	1.1	0.02	836.60	4183	25.3	24.75	Left	10	108	0.103	1.135	0.117	0.128	0.128	0.080				34.6
ANSI/IEEE C95.1-1981 - SAFETY LIMIT														Body									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

Table 12-16 | Plot A12

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body	UMTS 850	RMC	A+C	0878M	1.1	-0.05	826.40	4132	21.5	20.94	Back	5	9	0.413	1.138	0.470	0.470	0.520	0.323	Plot	24.7		
Body	UMTS 850	RMC	A+C	0878M	1.1	0.14	826.40	4132	21.5	20.94	Top	5	9	0.013	1.138	0.018	0.018	0.040	0.026		35.7		
Body	UMTS 850	RMC	A+C	0878M	1.1	-0.02	826.40	4132	21.5	20.94	Bottom	5	9	0.214	1.138	0.244	0.244	0.270	0.164			24.7	
Body	UMTS 850	RMC	A+C	0878M	1.1	-0.02	826.40	4132	21.5	20.94	Right	5	9	0.229	1.138	0.261	0.261	0.290	0.179				27.3
Body	UMTS 850	RMC	A+C	0878M	1.1	-0.03	826.40	4132	21.5	20.94	Left	5	9	0.042	1.138	0.048	0.048	0.050	0.033				34.7
ANSI/IEEE C95.1-1981 - SAFETY LIMIT														Body									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

12.4 LTE Band 12 Standalone SAR

Table 12-17 Ant A F/C Head

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MFR [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 12	10	QPSK	A	0879M	1.1	0.00	707.50	23095	0.0	25.2	24.25	1	0	Right Cheek	0	10	0.121	1.245	0.151	0.152	0.152	0.152	33.4			
Head	LTE Band 12	10	QPSK	A	0879M	1.1	-0.03	707.50	23095	1.0	24.2	23.21	25	12	Right Cheek	0	10	0.100	1.256	0.128	0.133	0.133	0.133	33.1			
Head	LTE Band 12	10	QPSK	A	0879M	1.1	0.10	707.50	23095	0.0	25.2	24.25	1	0	Right Tilt	0	10	0.069	1.245	0.086	0.107	0.107	0.107	35.8			
Head	LTE Band 12	10	QPSK	A	0879M	1.1	-0.02	707.50	23095	1.0	24.2	23.21	25	12	Right Tilt	0	10	0.090	1.256	0.074	0.105	0.105	0.105	35.5			
Head	LTE Band 12	10	QPSK	A	0879M	1.1	-0.01	707.50	23095	0.0	25.2	24.25	1	0	Left Cheek	0	9	0.091	1.245	0.116	0.140	0.140	0.140	34.5			
Head	LTE Band 12	10	QPSK	A	0879M	1.1	-0.01	707.50	23095	1.0	24.2	23.21	25	12	Left Cheek	0	9	0.069	1.256	0.087	0.115	0.115	0.115	34.8			
Head	LTE Band 12	10	QPSK	A	0879M	1.1	-0.02	707.50	23095	0.0	25.2	24.25	1	0	Left Tilt	0	10	0.059	1.245	0.066	0.101	0.101	0.101	37.0			
Head	LTE Band 12	10	QPSK	A	0879M	1.1	-0.18	707.50	23095	1.0	24.2	23.21	25	12	Left Tilt	0	10	0.046	1.256	0.057	0.121	0.121	0.121	36.6			
ANSI/IEEE C95.1-1981 - SAFETY LIMIT														Head													
Spatial Peak														1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population														averaged over 1 gram													

Table 12-18 Ant A+C F/C Head | Plot A13

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MFR [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]	Adjusted 1g SAR with Multi-Tx Factor [W/kg]	Exposure Ratio with Multi-Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 12	10	QPSK	A+C	0875M	1.1	0.17	707.50	23095	0.0	25.2	24.25	1	0	Right Cheek	0	10	0.123	1.245	0.152	0.157	0.157	0.157	33.3			
Head	LTE Band 12	10	QPSK	A+C	0875M	1.1	-0.09	707.50	23095	1.0	24.2	23.21	25	12	Right Cheek	0	10	0.097	1.256	0.122	0.163	0.163	0.163	33.3			
Head	LTE Band 12	10	QPSK	A+C	0875M	1.1	-0.07	707.50	23095	0.0	25.2	24.25	1	0	Right Tilt	0	9	0.062	1.245	0.083	0.117	0.117	0.117	35.9			
Head	LTE Band 12	10	QPSK	A+C	0875M	1.1	-0.08	707.50	23095	1.0	24.2	23.21	25	12	Right Tilt	0	9	0.053	1.256	0.067	0.119	0.119	0.119	35.5			
Head	LTE Band 12	10	QPSK	A+C	0875M	1.1	0.09	707.50	23095	0.0	25.2	24.25	1	0	Left Cheek	0	9	0.088	1.245	0.110	0.146	0.146	0.146	34.8			
Head	LTE Band 12	10	QPSK	A+C	0875M	1.1	-0.02	707.50	23095	1.0	24.2	23.21	25	12	Left Cheek	0	9	0.071	1.256	0.089	0.127	0.127	0.127	34.5			
Head	LTE Band 12	10	QPSK	A+C	0875M	1.1	0.06	707.50	23095	0.0	25.2	24.25	1	0	Left Tilt	0	10	0.071	1.245	0.088	0.136	0.136	0.136	35.7			
Head	LTE Band 12	10	QPSK	A+C	0875M	1.1	-0.01	707.50	23095	1.0	24.2	23.21	25	12	Left Tilt	0	10	0.056	1.256	0.070	0.137	0.137	0.137	35.7			
ANSI/IEEE C95.1-1981 - SAFETY LIMIT														Head													
Spatial Peak														1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population														averaged over 1 gram													

Table 12-19 Ant A+C F/O Head | Plot A14

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MFR [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [
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Table 12-20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power (dBm)	Frequency [MHz]	Channel #	MFR [dB]	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1W SAR [W/kg]	Power Scaling Factor	Reported 1W SAR [W/kg]	Adjusted 1W SAR [W/kg]	Adjusted 1W SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx (1W SAR)	Plot #	Plot (dB)	Overst Plot (dB)	RF5 Plot (dB)
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0881M	1:1	-0.04	707.50	2309	0.0	24.2	24.25	1	0	Back	5	9	0.647	1.245	0.845	0.808	0.805	0.541	25.0			
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0881M	1:1	-0.02	707.50	2309	1.0	24.2	23.21	5	12	Back	5	9	0.462	1.245	0.705	0.909	0.909	0.568	25.7			
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0881M	1:1	-0.04	707.50	2309	1.0	24.2	23.20	50	0	Back	5	9	0.546	1.245	0.705	0.902	0.902	0.564	25.7			
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0881M	1:1	-0.06	707.50	2309	1.0	24.2	24.25	10	0	Front	5	9	0.555	1.245	0.835	0.925	0.927	0.533	25.3			
Hotspot	LTE Band 12	10	QPSK	A	0881M	1:1	-0.03	707.50	2309	1.0	24.2	23.21	25	12	Front	5	9	0.528	1.246	0.618	0.204	0.204	0.128	23.2	25.7		25.0
Hotspot	LTE Band 12	10	QPSK	A	0881M	1:1	-0.06	707.50	2309	1.0	25.2	24.25	1	0	Bottom	10	10	0.514	1.245	0.832	0.336	0.336	0.213	23.2			
Hotspot	LTE Band 12	10	QPSK	A	0881M	1:1	-0.04	707.50	2309	1.0	24.2	23.21	25	12	Bottom	10	10	0.520	1.245	0.832	0.336	0.336	0.213	23.2			
Hotspot	LTE Band 12	10	QPSK	A	0879M	1:1	-0.15	707.50	2309	0.0	25.2	24.25	1	0	Right	10	0	0.385	1.245	0.456	0.466	0.466	0.251	23.0			
Hotspot	LTE Band 12	10	QPSK	A	0881M	1:1	-0.03	707.50	2309	1.0	24.2	23.21	25	12	Right	10	0	0.381	1.245	0.933	0.405	0.405	0.284	28.7			
AND/IEEE C95.1-2019, SAFETY LIMIT																		Body		1.6 W/kg (mW/g)							
Spatial Peak																		Head		1.6 W/kg (mW/g)							
Uncontrolled Exposure (General Population)																		Body		0.08 W/kg (mW/g)							

Table 12-21 | Plot A15

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power (dB) [dBm]	Frequency [MHz]	Channel B	MPR [dB]	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured Tx SAR [W/kg]	Power Scaling Factor	Reported Tx SAR [W/kg]	Adjusted Tx SAR [W/kg]	Adjusted Tx SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (Eq. SAR)	Post #	Fillet (dBm)	Overall Fillet (dBm)	PS [W/kg] (dBm)
Body-worn/Hotspot	LTE Band 12	10	QPSK	A+C	087PM	1:1	-6.03	707.50	23095	0.0	25.2	24.21	1	0	Back	5	0	0.960	1.245	0.946	0.968	0.968	0.605	Post	25.4		
Body-worn/Hotspot	LTE Band 12	10	QPSK	A+C	087PM	1:1	-6.03	707.50	23095	1.0	24.2	23.21	25	12	Back	5	0	0.935	1.256	0.772	0.995	0.995	0.622		25.4		
Body-worn/Hotspot	LTE Band 12	10	QPSK	A+C	087PM	1:1	-6.03	707.50	23095	1.0	24.2	23.26	25	12	Back	5	0	0.935	1.256	0.772	0.995	0.995	0.622		25.4		
Hotspot	LTE Band 12	10	QPSK	A+C	087PM	1:1	-6.03	707.50	23095	0.0	25.2	24.21	1	0	Front	5	0	1.033	1.243	0.950	0.935	0.935	0.122	12.4			
Hotspot	LTE Band 12	10	QPSK	A+C	087PM	1:1	-6.03	707.50	23095	1.0	24.2	23.21	25	12	Front	5	0	1.038	1.243	0.950	0.935	0.935	0.128	12.4			
Hotspot	LTE Band 12	10	QPSK	A+C	087PM	1:1	-6.04	707.50	23095	0.0	25.2	24.25	1	0	Bottom	10	0	0.155	2.245	0.193	0.197	0.197	0.123	25.3	25.1		
Hotspot	LTE Band 12	10	QPSK	A+C	087PM	1:1	-6.03	707.50	23095	1.0	24.2	23.26	25	12	Bottom	10	0	0.155	2.245	0.193	0.197	0.197	0.123	25.3	25.1		
Hotspot	LTE Band 12	10	QPSK	A+C	087PM	1:1	-6.00	707.50	23095	0.0	25.2	24.21	1	0	Right	10	0	0.835	1.243	0.417	0.427	0.427	0.267	28.0			
Hotspot	LTE Band 12	10	QPSK	A+C	087PM	1:1	-6.02	707.50	23095	1.0	24.2	23.21	25	12	Right	10	0	0.825	1.256	0.420	0.433	0.433	0.268	28.0			
Hotspot	LTE Band 12	10	QPSK	A+C	087PM	1:1	-6.03	707.50	23095	1.0	24.2	24.23	25	12	Left	10	0	0.825	1.245	0.418	0.432	0.432	0.268	28.0			
Hotspot	LTE Band 12	10	QPSK	A+C	087PM	1:1	-6.15	707.50	23095	1.0	24.2	23.21	25	12	Left	10	0	0.805	1.256	0.398	0.405	0.405	0.266	28.0			
ANALYZER CHANNEL SAFETY LIMIT																		1.6 W/kg (mW/kg)									
Spatial Peak																		1.6 W/kg (mW/kg)									

Table 12-22 | Plot A16

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power (dBm)	Frequency (MHz)	Channel #	MFR (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RF 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)	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [dB]	Pot #	Plan (dB)	Overall (dBm)	RF (dBm)
Body	LTE Band 12	10	QPSK	AHC	GB75M	1:1	0.08	707.50	23095	0.0	22.0	20.94	1	49	Back	5	9	0.982	1.276	0.500	0.500	0.550	0.344	Pos1	25.0		
Body	LTE Band 12	10	QPSK	AHC	GB75M	1:1	0.01	707.50	23095	0.0	22.0	20.90	25	12	Back	5	9	0.387	1.288	0.498	0.498	0.503	0.342	Pos1	25.0		
Body	LTE Band 12	10	QPSK	AHC	GB75M	1:1	0.04	707.50	23095	0.0	22.0	20.94	25	12	Top	5	10	0.247	1.288	0.633	0.633	0.640	0.367	Pos1	25.0		
Body	LTE Band 12	10	QPSK	AHC	GB75M	1:1	0.13	707.50	23095	0.0	22.0	20.90	25	12	Top	5	10	0.262	1.288	0.633	0.633	0.640	0.367	Pos1	25.0		
Body	LTE Band 12	10	QPSK	AHC	GB75M	1:1	0.06	707.50	23095	0.0	22.0	20.94	1	49	Bottom	5	10	0.247	1.276	0.515	0.515	0.500	0.217	Pos1	27.5		
Body	LTE Band 12	10	QPSK	AHC	GB75M	1:1	0.04	707.50	23095	0.0	22.0	20.90	25	12	Bottom	5	10	0.247	1.288	0.512	0.512	0.500	0.279	Pos1	26.7		
Body	LTE Band 12	10	QPSK	AHC	GB75M	1:1	0.04	707.50	23095	0.0	22.0	20.94	1	49	Right	5	10	0.229	1.276	0.279	0.279	0.310	0.091	Pos1	27.5		
Body	LTE Band 12	10	QPSK	AHC	GB75M	1:1	0.06	707.50	23095	0.0	22.0	20.94	25	12	Left	5	10	0.259	1.276	0.279	0.279	0.310	0.091	Pos1	27.5		
Body	LTE Band 12	10	QPSK	AHC	GB75M	1:1	0.05	707.50	23095	0.0	22.0	20.94	1	49	Left	5	10	0.025	1.276	0.037	0.037	0.040	0.025	Pos1	35.2		
Body	LTE Band 12	10	QPSK	AHC	GB75M	1:1	0.04	707.50	23095	0.0	22.0	20.90	25	12	Left	5	10	0.037	0.388	0.048	0.048	0.050	0.033	Pos1	35.2		
ANALYZER ONCE (1g SAR, SAFETY LIMIT)																			1.6 W/kg (mW/kg)								
Spatial Peak																			1.6 W/kg (mW/kg)								

12.5 LTE Band 13 Standalone SAR

Table 12-23 Ant A F/C Head | Plot A17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DBM [dB]	Frequency [MHz]	Channel #	MFR [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Rate (W/kg SAR)	Pict #	Plank [dBm]	Overall Risk [dBm]	RF Sp. [dBm]	
Head	LTE Band 13	10	QPSK	A	0879M	1.1	-0.08	782.00	23230	0.0	25.5	24.79	1	0	Right Chair	0	0	0.186	1.178	0.196	0.604	0.604	0.178	Post	32.5			
Head	LTE Band 13	10	QPSK	A	0879M	1.1	-0.12	782.00	23230	1.0	24.5	23.71	1	12	Right Chair	0	63	0.112	0.933	0.131	0.513	0.513	0.321	13.2				
Head	LTE Band 13	10	QPSK	A	0879M	1.1	0.00	782.00	23230	0.0	25.5	24.79	1	0	Right Chair	0	63	0.089	1.178	0.109	0.660	0.660	0.275	34.8				
Head	LTE Band 13	10	QPSK	A	0879M	1.1	-0.01	782.00	23230	0.0	25.5	24.79	1	0	Right Chair	0	63	0.090	1.178	0.117	0.600	0.600	0.380	0.225	34.5			
Head	LTE Band 13	10	QPSK	A	0879M	1.1	-0.01	782.00	23230	0.0	25.5	24.79	1	0	Right Chair	0	63	0.090	1.178	0.117	0.600	0.600	0.380	0.225	34.5			
Head	LTE Band 13	10	QPSK	A	0879M	1.1	-0.12	782.00	23230	0.0	25.5	24.79	1	0	Left Chair	0	0	0.090	1.178	0.107	0.611	0.611	0.381	0.207	35.1	32.5		
Head	LTE Band 13	10	QPSK	A	0879M	1.1	0.00	782.00	23230	1.0	24.5	23.71	1	12	Left Chair	0	63	0.090	1.178	0.099	0.609	0.609	0.379	0.188	35.0			
Head	LTE Band 13	10	QPSK	A	0879M	1.1	-0.01	782.00	23230	0.0	25.5	24.79	1	0	Left Chair	0	63	0.090	1.178	0.107	0.611	0.611	0.381	0.207	35.1			
Head	LTE Band 13	10	QPSK	A	0879M	1.1	-0.01	782.00	23230	0.0	25.5	24.79	1	0	Left Chair	0	63	0.090	1.178	0.107	0.611	0.611	0.381	0.207	35.1			
Head	LTE Band 13	10	QPSK	A	0879M	1.1	-0.01	782.00	23230	1.0	24.5	23.71	1	12	Left Chair	0	63	0.090	1.178	0.099	0.609	0.609	0.379	0.188	35.0			
Head	LTE Band 13	10	QPSK	A	0879M	1.1	-0.01	782.00	23230	1.0	24.5	23.71	1	12	Left Chair	0	63	0.090	1.178	0.099	0.609	0.609	0.379	0.188	35.0			
ANALYZER DUTY CYCLE SAFETY LIMIT																												
Spatial Peak																		1.6 W/kg (mW/kg)						Exposure over 1.6 mm				
Unconducted Frequency Domain Power																		0.047						0.182				

Table 12-24 Ant A+C F/C Head

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [dB]	Frequency [MHz]	Channel B	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured Ig SAR [mW/kg]	Power Scaling Factor	Reported Ig SAR [mW/kg]	Adjusted Ig SAR [mW/kg]	Adjusted Ig SAR with Mass To Factor [mW/kg]	Exposure Ratio with Multi To Factor [mW/kg]	Pin A	Pin B	Overall PinB [dBm]	PS Power [dBm]
Head	LTE Band 13	13	QPSK	A4C	087PM	1.1	-0.09	782.00	23230	0.0	-25.5	-24.79	1	0	Right Chok	0	9	0.023	1.178	0.145	0.488	0.488	0.280	33.8			
Head	LTE Band 13	13	QPSK	A4C	087PM	1.1	-0.09	782.00	23230	1.0	-24.5	-23.79	1	0	Right Chok	0	63	0.129	1.178	0.129	0.490	0.490	0.396	33.4			
Head	LTE Band 13	13	QPSK	A4C	087PM	1.1	-0.11	782.00	23220	0.0	-25.5	-24.79	1	0	Right LTR	0	9	0.023	1.178	0.145	0.488	0.488	0.280	33.8			
Head	LTE Band 13	13	QPSK	A4C	087PM	1.1	-0.11	782.00	23220	1.0	-24.5	-23.79	1	0	Right LTR	0	63	0.129	1.178	0.129	0.490	0.490	0.396	33.4			
Head	LTE Band 13	13	QPSK	A4C	087PM	1.1	-0.06	782.00	23230	0.0	-25.5	-24.79	1	0	Left Chok	0	9	0.029	1.178	0.093	0.287	0.287	0.179	35.8			
Head	LTE Band 13	13	QPSK	A4C	087PM	1.1	-0.06	782.00	23230	1.0	-24.5	-23.79	1	0	Left Chok	0	63	0.161	1.178	0.093	0.287	0.287	0.179	35.8			
Head	LTE Band 13	13	QPSK	A4C	087PM	1.1	-0.05	782.00	23230	0.0	-25.5	-24.79	25	32	Left Chok	0	9	0.061	1.178	0.077	0.222	0.222	0.138	36.9			
Head	LTE Band 13	13	QPSK	A4C	087PM	1.1	-0.05	782.00	23230	1.0	-24.5	-23.79	25	32	Left Chok	0	63	0.467	1.178	0.077	0.222	0.222	0.138	36.9			
Head	LTE Band 13	13	QPSK	A4C	087PM	1.1	-0.07	782.00	23120	0.0	-24.5	-23.71	25	32	Left LTR	0	9	0.047	0.996	0.056	0.219	0.219	0.137	36.9			
Head	LTE Band 13	13	QPSK	A4C	087PM	1.1	-0.07	782.00	23120	1.0	-24.5	-23.71	25	32	Left LTR	0	63	0.467	0.996	0.056	0.219	0.219	0.137	36.9			
Overall EIRP (SAR) = 1447.77 mW/kg																		Head									
Spatial Peak																		1.6 W/kg (mW/kg)						Head			
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Table 12-25 Ant A+C F/O Head | Plot A18

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DBS [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (%)	Post #	Flank [dBm]	Overall Flank [dBm]	PS Power [dBm]
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	0.0	29.5	24.9	1	0	Right Chair	0	63	0.050	1.178	0.070	0.167	0.167	0.167	104	37.0	29.1	
LTE Band 13	10	QPSK	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.050	1.178	0.069	0.169	0.169	0.169	0.169	103	37.0	29.1		
LTE Band 13	10	QPSK	087PM	1.1	0.06	792.00	23230	1.1	0.06	792.00	23230	24.9	1	0	Right Chair	0	63	0.050	1.178	0.071	0.170	0.170	0.168	104	37.0	29.1	
LTE Band 13	10	QPSK	087PM	1.1	0.06	792.00	23230	1.1	0.06	792.00	23230	24.9	1	0	Right Chair	0	63	0.050	1.178	0.071	0.170	0.170	0.168	104	37.0	29.1	
LTE Band 13	10	QPSK	087PM	1.1	0.06	792.00	23230	1.1	0.06	792.00	23230	24.9	1	0	Right Chair	0	63	0.050	1.178	0.071	0.170	0.170	0.168	104	37.0	29.1	
LTE Band 13	10	QPSK	087PM	1.1	0.06	792.00	23230	1.1	0.06	792.00	23230	24.9	1	0	Left Chair	0	9	0.234	1.178	0.231	0.602	0.602	0.376	Post	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.04	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.044	1.099	0.107	0.094	0.094	0.371	31.5	29.1		
LTE Band 13	10	QPSK	087PM	1.1	0.06	792.00	23230	1.1	0.06	792.00	23230	24.9	1	0	Left Chair	0	63	0.044	1.128	0.134	0.312	0.312	0.275	103	31.5	29.1	
LTE Band 13	10	QPSK	087PM	1.1	0.06	792.00	23230	1.1	0.06	792.00	23230	24.9	1	0	Left Chair	0	63	0.047	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73	25	12	Left Chair	0	63	0.087	1.059	0.104	0.315	0.315	0.197	103	31.5	29.1	
Head	LTE Band 13	10	QPSK	Anc	087PM	1.1	0.06	792.00	23230	1.0	24.5	23.73															

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Table 12-26 | Plot A19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [dB]	Frequency [MHz]	Channel #	MFR [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	RF Pinch [dBm]
Body worn/Hotspot	LTE Band 13	10	QPSK	A	08815M	1.1	-0.04	782.00	23230	0.0	25.5	24.79	1	0	Back	5	27	0.175	1.178	0.795	0.813	0.813	0.571	Plot	26.4	26.1	
Body worn/Hotspot	LTE Band 13	10	QPSK	A	08815M	1.1	-0.04	782.00	23230	1.0	24.5	23.71	25	12	Back	5	9	0.324	1.189	0.616	0.591	0.591	0.557		26.6		
Hotspot	LTE Band 13	10	QPSK	A	08815M	1.1	0.00	782.00	23230	0.0	25.5	24.79	1	0	Front	5	63	0.180	1.178	0.224	0.257	0.257	0.161		32.0		
Hotspot	LTE Band 13	10	QPSK	A	08815M	1.1	-0.01	782.00	23230	1.0	24.5	23.71	25	12	Front	5	63	0.347	1.189	0.176	0.155	0.155	0.155		32.3		
Hotspot	LTE Band 13	10	QPSK	A	08815M	1.1	0.00	782.00	23230	0.0	25.5	24.79	1	0	Bottom	10	63	0.139	1.178	0.164	0.188	0.188	0.118		33.3		
Hotspot	LTE Band 13	10	QPSK	A	08815M	1.1	-0.01	782.00	23230	1.0	24.5	23.71	25	12	Bottom	10	63	0.309	1.189	0.144	0.134	0.134	0.129		32.3		
Hotspot	LTE Band 13	10	QPSK	A	08815M	1.1	-0.03	782.00	23230	1.0	25.5	24.79	1	0	Right	10	9	0.377	1.178	0.439	0.504	0.504	0.315		29.0		
Hotspot	LTE Band 13	10	QPSK	A	08815M	1.1	0.00	782.00	23230	1.0	24.5	23.71	25	12	Right	10	9	0.250	1.189	0.311	0.449	0.449	0.281		29.5		
ANSI/IEEE C63.19-2: SAFETY LIMIT																		1.6 W/kg (mW/g) averaged over 1 gram									
Spatial Peak Uncontrolled Exposure/General Population																											

Table 12-27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [dB]	Frequency [MHz]	Channel #	MFR [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	RFs Pinch [dBm]
Body worn/Hotspot	LTE Band 13	10	QPSK	A+C	08725M	1.1	-0.02	782.00	23230	0.0	25.5	24.79	1	0	Back	5	108	0.640	1.178	0.756	0.868	0.868	0.545		26.7		
Body worn/Hotspot	LTE Band 13	10	QPSK	A+C	08755M	1.1	-0.07	782.00	23230	1.0	24.5	23.71	25	12	Back	5	9	0.520	1.189	0.446	0.355	0.355	0.340		26.9		
Body worn/Hotspot	LTE Band 13	10	QPSK	A+C	08755M	1.1	-0.03	782.00	23230	1.0	24.5	23.65	50	0	Back	5	9	0.555	1.235	0.675	0.976	0.976	0.602		26.2		
Hotspot	LTE Band 13	10	QPSK	A+C	08785M	1.1	-0.05	782.00	23230	0.0	25.5	24.79	1	0	Front	5	9	0.173	1.178	0.204	0.234	0.234	0.146		31.9		
Hotspot	LTE Band 13	10	QPSK	A+C	08785M	1.1	-0.06	782.00	23230	1.0	24.5	23.71	25	12	Front	5	9	0.262	1.189	0.153	0.222	0.222	0.136		34.3		
Hotspot	LTE Band 13	10	QPSK	A+C	08755M	1.1	-0.09	782.00	23230	0.0	25.5	24.79	1	0	Bottom	10	9	0.102	1.178	0.183	0.210	0.210	0.133		32.8		
Hotspot	LTE Band 13	10	QPSK	A+C	08755M	1.1	-0.04	782.00	23230	1.0	24.5	23.71	25	12	Bottom	10	9	0.129	1.189	0.144	0.206	0.206	0.129		32.9		
Hotspot	LTE Band 13	10	QPSK	A+C	08785M	1.1	-0.05	782.00	23230	0.0	25.5	24.79	1	0	Right	10	9	0.377	1.178	0.444	0.510	0.510	0.313		29.0		
Hotspot	LTE Band 13	10	QPSK	A+C	08785M	1.1	0.05	782.00	23230	1.0	24.5	23.71	25	12	Right	10	9	0.246	1.189	0.295	0.427	0.427	0.267		29.8		
Hotspot	LTE Band 13	10	QPSK	A+C	08785M	1.1	-0.08	782.00	23230	0.0	25.5	24.79	1	0	Left	10	9	0.309	1.178	0.318	0.376	0.376	0.184		34.7		
Hotspot	LTE Band 13	10	QPSK	A+C	08785M	1.1	0.00	782.00	23230	1.0	24.5	23.71	25	12	Left	10	9	0.067	1.189	0.080	0.116	0.116	0.073		35.4		
ANSI/IEEE C63.19-2010 - SAFETY ONLY																		1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																											

Table 12-28 | Plot A20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [dB]	Frequency [MHz]	Channel #	MFR [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Pinch (dBm)	Overall Pinch (dBm)	RF Pinch (dBm)
Body	LTE Band 13	10	QPSK	AHC	08755M	1.1	-0.12	782.00	23230	0.0	22.0	21.18	1	25	Back	5	27	0.447	1.208	0.540	0.540	0.590	0.372	Plot	24.8		
Body	LTE Band 13	10	QPSK	AHC	08755M	1.1	0.01	782.00	23230	0.0	22.0	21.05	25	12	Back	5	27	0.431	1.245	0.537	0.537	0.590	0.390		24.7		
Body	LTE Band 13	10	QPSK	AHC	08785M	1.1	-0.15	782.00	23230	0.0	22.0	21.18	1	25	Top	5	9	0.053	1.208	0.064	0.064	0.070	0.044		31.9		
Body	LTE Band 13	10	QPSK	AHC	08785M	1.1	-0.16	782.00	23230	0.0	22.0	21.05	25	12	Top	5	9	0.062	1.245	0.052	0.052	0.060	0.056		34.8		
Body	LTE Band 13	10	QPSK	AHC	08785M	1.1	0.00	782.00	23230	0.0	22.0	21.18	1	25	Bottom	5	9	0.303	1.208	0.366	0.366	0.400	0.261		25.2		
Body	LTE Band 13	10	QPSK	AHC	08785M	1.1	-0.01	782.00	23230	0.0	22.0	21.05	25	12	Bottom	5	9	0.309	1.245	0.374	0.374	0.410	0.261		25.2		24.6
Body	LTE Band 13	10	QPSK	AHC	08785M	1.1	-0.02	782.00	23230	0.0	22.0	21.18	1	25	Right	5	9	0.216	1.208	0.261	0.261	0.290	0.178		27.8		
Body	LTE Band 13	10	QPSK	AHC	08785M	1.1	0.00	782.00	23230	0.0	22.0	21.05	25	12	Right	5	9	0.215	1.245	0.268	0.268	0.295	0.180		27.7		
Body	LTE Band 13	10	QPSK	AHC	08785M	1.1	-0.07	782.00	23230	0.0	22.0	21.18	1	25	Left	5	9	0.058	1.208	0.043	0.043	0.050	0.050		35.6		
Body	LTE Band 13	10	QPSK	AHC	08785M	1.1	0.05	782.00	23230	0.0	22.0	21.05	25	12	Left	5	9	0.050	1.245	0.047	0.047	0.050	0.050		35.2		
ANSI/IEEE C95.1 2002 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

12.6 LTE Band 5 (Cell) Standalone SAR

Table 12-29 Ant A F/C Head | Plot A21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [dB]	Frequency [MHz]	Channel #	MFR [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]	Adjusted 1g SAR with Multi-Tx Factor [W/kg]	Exposure Ratio with Multi-Tx Factor (1g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	RF Pinch [dBm]
Head	LTE Band 5	10	QPSK	A	08795M	1.1	-0.05	836.50	20525	0.0	25.5	24.79	1	25	Right Cheek	0	0	0.222	1.178	0.262	0.599	0.599	0.374	Plot	31.3		
Head	LTE Band 5	10	QPSK	A	08795M	1.1	-0.04	836.50	20525	1.0	24.5	23.80	25	25	Right Cheek	0	0	0.179	1.175	0.210	0.406	0.406	0.260		31.2		
Head	LTE Band 5	10	QPSK	A	08795M	1.1	-0.04	836.50	20525	0.0	25.5	24.79	1	25	Right Tilt	0	0	0.089	1.178	0.117	0.167	0.167	0.107		34.8		
Head	LTE Band 5	10	QPSK	A	08795M	1.1	-0.03	836.50	20525	1.0	24.5	23.80	25	25	Right Tilt	0	0	0.077	1.175	0.090	0.261	0.261	0.163		34.2		
Head	LTE Band 5	10	QPSK	A	08795M	1.1	-0.01	836.50	20525	0.0	25.5	24.79	1	25	Left Cheek	0	0	0.121	1.178	0.143	0.326	0.326	0.204		33.8		31.2
Head	LTE Band 5	10	QPSK	A	08795M	1.1	-0.01	836.50	20525	1.0	24.5	23.80	25	25	Left Cheek	0	0	0.085	1.175	0.107	0.188	0.188	0.103		34.2		29.1
Head	LTE Band 5	10	QPSK	A	08795M	1.1	0.06	836.50	20525	0.0	25.5	24.79	1	25	Left Tilt	0	0	0.059	1.178	0.070	0.159	0.159	0.099		37.0		
Head	LTE Band 5	10	QPSK	A	08795M	1.1	0.05	836.50	20525	1.0	24.5	23.80	25	25	Left Tilt	0	0	0.047	1.175	0.055	0.159	0.159	0.099		37.0		
Adjusted 1g SAR - Left Tilt																		Head									
Spatial Peak Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-30 Ant A+C F/C Head

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [dB]	Frequency [MHz]	Channel #	MFR [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [W/kg]	Plot #	Pinch [dBm]	Overall Pinch [dBm]	RF Pinch [dBm]
Head	LTE Band 5	10	QPSK	AHC	08755M	1.1	-0.09	836.50	20525	0.0	25.5	24.79	1	25	Right Cheek	0	45	0.313	1.178	0.210	0.572	0.572	0.318		31.5		
Head	LTE Band 5	10	QPSK	AHC	08755M	1.1	-0.03	836.50	20525	1.0	24.5	23.80	25	25	Right Cheek	0	108	0.124	1.175	0.181	0.322	0.322	0.126		31.8		
Head	LTE Band 5	10	QPSK	AHC	08755M	1.1	-0.04	836.50	20525	0.0	25.5	24.79	1	25	Right Tilt	0	45	0.085	1.178	0.100	0.229	0.229	0.143		35.4		
Head	LTE Band 5	10	QPSK	AHC	08755M	1.1	-0.03	836.50	20525	1.0	24.5	23.80	25	25	Right Tilt	0	45	0.069	1.175	0.080	0.230	0.230	0.144		35.4		
Head	LTE Band 5	10	QPSK	AHC	08755M	1.1	-0.06	836.50	20525	0.0	25.5	24.79	1	25	Left Cheek	0	45	0.037	1.178	0.043	0.370	0.370	0.231		33.4		
Head	LTE Band 5	10	QPSK	AHC	08755M	1.1	-0.06	836.50	20525	1.0	24.5	23.80	25	25	Left Cheek	0	45	0.106	1.175	0.123	0.366	0.366	0.221		33.4		
Head	LTE Band 5	10	QPSK	AHC	08755M	1.1	-0.03	836.50	20525	0.0	25.5	24.79	1	25	Left Tilt	0	45	0.059	1.175	0.067	0.346	0.346	0.214		35.5		
Head	LTE Band 5	10	QPSK	AHC	08755M	1.1	-0.06	836.50	20525	1.0	24.5	23.80	25	25	Left Tilt	0	45	0.071	1.175	0.083	0.241	0.241	0.151		35.2		
Adjusted 1g SAR - 1.6W/1g Limit Value																		Peak									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure (General Population)																		averaged over 1 g/cm									

Table 12-32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MFR [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body worn/Hotspot	LTE Band 5	10	QPSK	A	0881M	1:1	-0.08	836.50	20525	0.0	25.5	24.79	1	25	Back	5	36	0.748	1.178	0.881	0.881	0.881	0.551	26.0			
Body worn/Hotspot	LTE Band 5	10	QPSK	A	0881M	1:1	-0.05	836.50	20525	1.0	24.5	23.80	25	25	Back	5	0	0.175	1.175	0.876	0.881	0.881	0.517	26.2			
Body worn/Hotspot	LTE Band 5	10	QPSK	A	0881M	1:1	0.00	836.50	20525	1.0	24.5	23.79	50	0	Back	5	0	0.885	1.382	0.707	0.885	0.885	0.541	26.5			
Hotspot	LTE Band 5	10	QPSK	A	0881M	1:1	-0.08	836.50	20525	0.0	25.5	24.79	1	25	Front	5	0	0.184	1.178	0.217	0.217	0.217	0.136	32.1			
Hotspot	LTE Band 5	10	QPSK	A	0881M	1:1	-0.04	836.50	20525	1.0	24.5	23.80	25	25	Front	5	0	0.189	1.175	0.222	0.222	0.222	0.173	31.0			
Hotspot	LTE Band 5	10	QPSK	A	0881M	1:1	0.02	836.50	20525	0.0	25.5	24.79	1	25	Bottom	10	0	0.148	1.178	0.124	0.124	0.124	0.109	33.0			
Hotspot	LTE Band 5	10	QPSK	A	0881M	1:1	0.03	836.50	20525	1.0	24.5	23.80	25	25	Bottom	10	0	0.149	1.175	0.125	0.125	0.125	0.134	32.0			
Hotspot	LTE Band 5	10	QPSK	A	0881M	1:1	-0.01	836.50	20525	0.0	25.5	24.79	1	25	Right	10	0	0.290	1.178	0.342	0.342	0.342	0.244	30.1			
Hotspot	LTE Band 5	10	QPSK	A	0881M	1:1	-0.01	836.50	20525	1.0	24.5	23.80	25	25	Right	10	0	0.290	1.175	0.351	0.432	0.432	0.276	29.0			
ANSI/IEEE C63.19-2 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g)							
Spatial Peak																		Body		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		Body		1.6 W/kg (mW/g)							

Table 12-33 | Plot A23

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MFR [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body worn/Hotspot	LTE Band 5	10	QPSK	AHC	0875M	1:1	-0.01	836.50	20525	0.0	25.5	24.79	1	25	Back	5	0	0.860	1.178	1.013	1.013	1.013	0.633	Plot	25.4		
Body worn/Hotspot	LTE Band 5	10	QPSK	AHC	0875M	1:1	-0.11	836.50	20525	0.0	25.5	24.79	1	25	Back	5	0	0.811	1.178	0.995	0.995	0.995	0.597	25.6			
Body worn/Hotspot	LTE Band 5	10	QPSK	AHC	0875M	1:1	-0.07	836.50	20525	1.0	24.5	23.80	25	25	Back	5	0	0.478	1.175	0.797	0.980	0.980	0.613	25.4			
Body worn/Hotspot	LTE Band 5	10	QPSK	AHC	0875M	1:1	-0.01	836.50	20525	1.0	24.5	23.79	50	0	Back	5	0	0.988	1.302	0.707	0.870	0.870	0.544	26.0			
Hotspot	LTE Band 5	10	QPSK	AHC	0878M	1:1	-0.07	836.50	20525	0.0	25.5	24.79	1	25	Front	5	0	0.205	1.178	0.241	0.241	0.241	0.151	31.6			
Hotspot	LTE Band 5	10	QPSK	AHC	0878M	1:1	0.01	836.50	20525	0.0	25.5	24.79	1	25	Front	5	0	0.168	1.175	0.149	0.149	0.149	0.148	31.8			
Hotspot	LTE Band 5	10	QPSK	AHC	0875M	1:1	0.03	836.50	20525	0.0	25.5	24.79	1	25	Bottom	10	49	0.199	1.178	0.234	0.234	0.234	0.146	31.8			
Hotspot	LTE Band 5	10	QPSK	AHC	0875M	1:1	0.02	836.50	20525	1.0	24.5	23.80	25	25	Bottom	10	49	0.154	1.175	0.181	0.223	0.223	0.139	31.9			
Hotspot	LTE Band 5	10	QPSK	AHC	0878M	1:1	0.01	836.50	20525	0.0	25.5	24.79	1	25	Right	10	0	0.327	1.178	0.385	0.385	0.385	0.241	29.6			
Hotspot	LTE Band 5	10	QPSK	AHC	0878M	1:1	0.03	836.50	20525	1.0	24.5	23.80	25	25	Right	10	0	0.274	1.175	0.322	0.396	0.396	0.248	29.4			
Hotspot	LTE Band 5	10	QPSK	AHC	0875M	1:1	-0.01	836.50	20525	0.0	25.5	24.79	1	25	Left	10	0	0.676	1.178	0.660	0.660	0.660	0.500	27.5			
Hotspot	LTE Band 5	10	QPSK	AHC	0875M	1:1	0.02	836.50	20525	1.0	24.5	23.80	25	25	Left	10	0	0.604	1.175	0.675	0.692	0.692	0.508	25.7			
ANSI/IEEE C63.19-2 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g)							
Spatial Peak																		Body		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		Body		1.6 W/kg (mW/g)							

Note: Blue entry represents variability measurement

Table 12-34 | Plot A24

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MFR [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	LTE Band 5	10	QPSK	AAC	0875M	1:1	0.03	836.50	20525	0.0	21.5	20.73	1	25	Back	5	0	0.400	1.194	0.478	0.478	0.530	0.320	24.7			
Body	LTE Band 5	10	QPSK	AAC	0875M	1:1	0.00	836.50	20525	0.0	21.5	20.61	25	0	Back	5	0	0.402	1.227	0.493	0.493	0.540	0.339	Plot	24.5		
Body	LTE Band 5	10	QPSK	AAC	0878M	1:1	0.06	836.50	20525	0.0	21.5	20.73	1	25	Top	5	0	0.017	1.194	0.020	0.020	0.020	0.014	38.4			
Body	LTE Band 5	10	QPSK	AAC	0878M	1:1	-0.06	836.50	20525	0.0	21.5	20.61	25	0	Top	5	0	0.017	1.227	0.021	0.021	0.021	0.014	38.5			
Body	LTE Band 5	10	QPSK	AAC	0878M	1:1	0.00	836.50	20525	0.0	21.5	20.73	1	25	Bottom	5	0	0.213	1.194	0.254	0.254	0.280	0.175	27.4			
Body	LTE Band 5	10	QPSK	AAC	0878M	1:1	-0.01	836.50	20525	0.0	21.5	20.61	25	0	Bottom	5	0	0.209	1.227	0.249	0.249	0.270	0.172	27.4		24.5	
Body	LTE Band 5	10	QPSK	AAC	0878M	1:1	-0.04	836.50	20525	0.0	21.5	20.73	1	25	Right	5	0	0.234	1.194	0.279	0.279	0.310	0.191	27.0			
Body	LTE Band 5	10	QPSK	AAC	0878M	1:1	-0.03	836.50	20525	0.0	21.5	20.61	25	0	Right	5	0	0.226	1.227	0.277	0.277	0.300	0.190	27.0			
Body	LTE Band 5	10	QPSK	AAC	0878M	1:1	0.05	836.50	20525	0.0	21.5	20.73	1	25	Left	5	0	0.028	1.194	0.033	0.033	0.040	0.023	36.2			
Body	LTE Band 5	10	QPSK	AAC	0878M	1:1	-0.07	836.50	20525	0.0	21.5	20.61	25	0	Left	5	0	0.028	1.227	0.034	0.034	0.040	0.023	36.0			
ANSI/IEEE C63.19-2 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g)							
Spatial Peak																		Body		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		Body		1.6 W/kg (mW/g)							

12.7 LTE Band 66 (AWS) Standalone SAR

Table 12-35 F/C Head | Plot A25

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MFR [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 66	20	QPSK	B	0967M	1:1	-0.09	1720.00	132072	0.0	25.5	24.71	1	99	Right Cheek	0	0.117	1.199	0.140	0.613	0.613	0.383	Plot	34.0		
Head	LTE Band 66	20	QPSK	B	0967M	1:1	0.02	1720.00	132072	1.0	24.5	23.64	50	50	Right Cheek	0	0.090	1.219	0.110	0.603	0.603	0.377	34.0			
Head	LTE Band 66	20	QPSK	B	0967M	1:1	-0.21	1720.00	132072	0.0	25.5	24.71	1	99	Right TIR	0	0.054	1.199	0.065	0.283	0.283	0.177	37.1			
Head	LTE Band 66	20	QPSK	B	0967M	1:1	0.02	1720.00	132072	1.0	24.5	23.64	50	50	Right TIR	0	0.047	1.219	0.057	0.315	0.315	0.197	36.5			
Head	LTE Band 66	20	QPSK	B	0967M	1:1	0.02	1720.00	132072	0.0	25.5	24.71	1	99	Left Cheek	0	0.087	1.199	0.104	0.456	0.456	0.285	35.5			
Head	LTE Band 66	20	QPSK	B	0967M	1:1	0.01	1720.00	132072	1.0	24.5	23.64	50	50	Left Cheek	0	0.082	1.219	0.076	0.415	0.415	0.259	35.7			
Head	LTE Band 66	20	QPSK	B	0967M	1:1	0.05	1720.00	132072	0.0	25.5	24.71		99	Left TIR	0	0.097	1.199	0.055	0.346	0.346	0.154	37.9			
Head	LTE Band 66	20	QPSK	B	0967M	1:1	-0.17	1720.00	132072	1.0	24.5	23.64	50	50	Left TIR	0	0.088	1.219	0.046	0.295	0.295	0.159	37.8			
Android One 10 (2023 - Safety Test)																										
Spatial Peak																										
Uncontrolled Exposure/General Population																										
Head																										
1.6 W/kg (20 W/kg) averaged over 1 g.cm																										

Table 12-38 | Plot A28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dn [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body	LTE Band 66	20	QPSK	B	0967M	1:1	-0.02	1770.00	132572	0.0	15.5	14.30	1	99	Back	5	0.188	1.318	0.248	0.248	0.270	0.171		21.5		
Body	LTE Band 66	20	QPSK	B	0967M	1:1	0.00	1770.00	132572	0.0	15.5	14.29	50	50	Back	5	0.180	1.321	0.238	0.238	0.260	0.164		21.7		
Body	LTE Band 66	20	QPSK	B	0967M	1:1	-0.02	1770.00	132572	0.0	15.5	14.30	1	99	Top	5	0.003	1.318	0.004	0.004	0.000	0.003		39.5		
Body	LTE Band 66	20	QPSK	B	0967M	1:1	-0.03	1770.00	132572	0.0	15.5	14.29	50	50	Top	5	0.001	1.321	0.001	0.001	0.000	0.001		44.2		
Body	LTE Band 66	20	QPSK	B	0967M	1:1	-0.04	1770.00	132572	0.0	15.5	14.30	1	99	Bottom	5	0.221	1.318	0.291	0.291	0.320	0.200	plot	20.8		
Body	LTE Band 66	20	QPSK	B	0967M	1:1	-0.06	1770.00	132572	0.0	15.5	14.29	50	50	Bottom	5	0.212	1.321	0.280	0.280	0.310	0.193		21.0		
Body	LTE Band 66	20	QPSK	B	0967M	1:1	-0.21	1770.00	132572	0.0	15.5	14.30	1	99	Right	5	0.007	1.318	0.009	0.009	0.010	0.007		35.8		
Body	LTE Band 66	20	QPSK	B	0967M	1:1	0.06	1770.00	132572	0.0	15.5	14.29	50	50	Right	5	0.006	1.321	0.008	0.008	0.010	0.006		36.5		
Body	LTE Band 66	20	QPSK	B	0967M	1:1	0.15	1770.00	132572	0.0	15.5	14.30	1	99	Left	5	0.006	1.318	0.008	0.008	0.010	0.006		36.5		
Body	LTE Band 66	20	QPSK	B	0967M	1:1	0.07	1770.00	132572	0.0	15.5	14.29	50	50	Left	5	0.006	1.321	0.008	0.008	0.010	0.006		36.5		
ANS/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak																	Body 1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																										

12.8 LTE Band 2 (PCS) Standalone SAR

Table 12-39 F/C Head | Plot A29

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dn [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]	Adjusted 1g SAR with Multi-Tx Factor [W/kg]	Exposure Ratio with Multi-Tx Factor [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Head	LTE Band 2	20	QPSK	B	0967M	1:1	0.03	1900.00	19100	0.0	25.0	24.32	1	50	Right Cheek	0	0.084	1.189	0.098	0.439	0.439	0.274		35.0			
Head	LTE Band 2	20	QPSK	B	0967M	1:1	0.00	1900.00	19100	1.0	24.0	23.29	50	50	Right Cheek	0	0.063	1.178	0.074	0.417	0.417	0.261		35.2			
Head	LTE Band 2	20	QPSK	B	0967M	1:1	-0.30	1900.00	19100	0.0	25.0	24.32	1	50	Right Tilt	0	0.060	1.189	0.070	0.313	0.313	0.196		36.5			
Head	LTE Band 2	20	QPSK	B	0967M	1:1	0.01	1900.00	19100	1.0	24.0	23.29	50	50	Right Tilt	0	0.046	1.178	0.054	0.305	0.305	0.191		36.6			
Head	LTE Band 2	20	QPSK	B	0967M	1:1	0.03	1900.00	19100	0.0	25.0	24.32	1	50	Left Cheek	0	0.115	1.189	0.134	0.601	0.601	0.376	Plot	33.7			
Head	LTE Band 2	20	QPSK	B	0967M	1:1	-0.05	1900.00	19100	1.0	24.0	23.29	50	50	Left Cheek	0	0.072	1.178	0.085	0.477	0.477	0.298		34.7			
Head	LTE Band 2	20	QPSK	B	0967M	1:1	-0.01	1900.00	19100	0.0	25.0	24.32	1	50	Left Tilt	0	0.073	1.189	0.085	0.381	0.381	0.238		35.6			
Head	LTE Band 2	20	QPSK	B	0967M	1:1	-0.11	1900.00	19100	1.0	24.0	23.29	50	50	Left Tilt	0	0.052	1.178	0.058	0.212	0.212	0.133		36.2			
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 12-40 F/O Head | Plot A30

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dn [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]		
Head	LTE Band 2	20	QPSK	B	0827M	1:1	0.06	1900.00	19100	0.0	25.0	24.32	1	50	Right Cheek	0	0.065	1.189	0.076	0.551	0.551	0.344	Plot	36.1				
Head	LTE Band 2	20	QPSK	B	0827M	1:1	0.17	1900.00	19100	1.0	24.0	23.29	50	50	Right Cheek	0	0.062	1.178	0.063	0.558	0.558	0.349		36.3				
Head	LTE Band 2	20	QPSK	B	0827M	1:1	-0.05	1900.00	19100	0.0	25.0	24.32	1	50	Right Tilt	0	0.050	1.189	0.023	0.169	0.169	0.106		41.3				
Head	LTE Band 2	20	QPSK	B	0827M	1:1	-0.13	1900.00	19100	1.0	24.0	23.29	50	50	Right Tilt	0	0.034	1.178	0.036	0.150	0.150	0.094		41.8				
Head	LTE Band 2	20	QPSK	B	0827M	1:1	0.01	1900.00	19100	0.0	25.0	24.32	1	50	Left Cheek	0	0.046	1.189	0.054	0.390	0.390	0.244		37.6	36.1	33.6		
Head	LTE Band 2	20	QPSK	B	0827M	1:1	-0.10	1900.00	19100	1.0	24.0	23.29	50	50	Left Cheek	0	0.033	1.178	0.039	0.354	0.354	0.221		38.1				
Head	LTE Band 2	20	QPSK	B	0827M	1:1	0.05	1900.00	19100	0.0	25.0	24.32	1	50	Left Tilt	0	0.030	1.189	0.035	0.254	0.254	0.159		39.5				
Head	LTE Band 2	20	QPSK	B	0827M	1:1	-0.09	1900.00	19100	1.0	24.0	23.29	50	50	Left Tilt	0	0.020	1.178	0.024	0.215	0.215	0.134		40.2				
ANS/IEEE C95.1.1992 - SAFETY LIMIT																	Head											
Spatial Peak																	1.6 W/kg (mW/g)								averaged over 1 gram			
Uncontrolled Exposure/General Population																												

Table 12-41 | Plot A31

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dn [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Body-worn/Hotspot	LTE Band 2	20	QPSK	B	0967M	1:1	-0.04	1900.00	19100	0.0	19.0	18.05	1	0	Back	5	0.568	1.245	0.707	0.707	0.780	0.486	Plot	20.5			
Body-worn/Hotspot	LTE Band 2	20	QPSK	B	0967M	1:1	-0.07	1860.00	18700	0.0	19.0	17.86	50	25	Back	5	0.526	1.300	0.684	0.684	0.750	0.471		20.6			
Hotspot	LTE Band 2	20	QPSK	B	0967M	1:1	0.15	1900.00	19100	0.0	19.0	18.05	1	0	Front	5	0.280	1.245	0.349	0.349	0.380	0.240		23.5			
Hotspot	LTE Band 2	20	QPSK	B	0967M	1:1	-0.04	1860.00	18700	0.0	19.0	17.86	50	25	Front	5	0.311	1.300	0.404	0.404	0.440	0.278		22.5			
Hotspot	LTE Band 2	20	QPSK	B	0967M	1:1	0.05	1900.00	19100	0.0	19.0	18.05	1	0	Bottom	10	0.222	1.245	0.276	0.276	0.300	0.190		24.5			
Hotspot	LTE Band 2	20	QPSK	B	0967M	1:1	-0.02	1860.00	18700	0.0	19.0	17.86	50	25	Bottom	10	0.224	1.300	0.421	0.421	0.460	0.289		22.7			
Hotspot	LTE Band 2	20	QPSK	B	0967M	1:1	-0.04	1900.00	19100	0.0	19.0	18.05	1	0	Left	10	0.051	1.245	0.051	0.051	0.060	0.035		31.5			
Hotspot	LTE Band 2	20	QPSK	B	0967M	1:1	0.00	1860.00	18700	0.0	19.0	17.86	50	25	Left	10	0.058	1.300	0.075	0.075	0.080	0.052		30.2			
ANS/IEEE C95.1.1992 - SAFETY LIMIT																								Body			
Spatial Peak																								1.6 W/kg (mW/g)			
Uncontrolled Exposure/General Population																								averaged over 1 gram			

Table 12-42 | Plot A32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dn [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Body	LTE Band 2	20	QPSK	B	0967M	1:1	0.02	1860.00	18700	0.0	15.5	14.80	1	0	Back	5	0.322	1.175	0.378	0.378	0.420	0.260		19.7			
Body	LTE Band 2	20	QPSK	B	0967M	1:1	-0.08	1860.00	18700	0.0	15.5	14.34	50	25	Back	5	0.349	1.306	0.448	0.448	0.490	0.308		18.8			
Body	LTE Band 2	20	QPSK	B	0967M	1:1	0.05	1860.00	18700	0.0	15.5	14.80	1	0	Top	5	0.000	1.175	0.000	0.000	0.000	0.000		54.8			
Body	LTE Band 2	20	QPSK	B	0967M	1:1	0.05	1860.00	18700	0.0	15.5	14.34	50	25	Top	5	0.000	1.306	0.000	0.000	0.000	0.000		54.3			
Body	LTE Band 2	20	QPSK	B	0967M	1:1	-0.19	1860.00	18700	0.0	15.5	14.80	1	0	Bottom	5	0.345	1.175	0.405	0.405	0.450	0.278		19.4			
Body	LTE Band 2	20	QPSK	B	0967M	1:1	-0.07	1860.00	18700	0.0	15.5	14.34	50	25	Bottom	5	0.358	1.306	0.468	0.468	0.510	0.322	Plot	18.8		14.5	
Body	LTE Band 2	20	QPSK	B	0967M	1:1	-0.16	1860.00	18700	0.0	15.5	14.80	1	0	Right	5	0.036	1.175	0.039	0.039	0.040	0.013		32.7			
Body	LTE Band 2	20	QPSK	B	0967M	1:1	0.06	1860.00	18700	0.0	15.5	14.34	50	25	Right	5	0.038	1.306	0.024	0.024	0.025	0.017		31.7			
Body	LTE Band 2	20	QPSK	B	0967M	1:1	0.05	1860.00	18700	0.0	15.5	14.80	1	0	Left	5	0.000	1.175	0.011	0.011	0.011	0.008		31.5			
Body	LTE Band 2	20	QPSK	B	0967M	1:1	-0.04	1860.00	18700	0.0	15.5	14.34	50	25	Left	5	0.012	1.306	0.016	0.016	0.020	0.011		31.5			
ANSI/IEEE C63.1992 - SAFETY LIMIT																						Body					
Uncontrolled Exposure (General Population)																						Spatial Peak					
1.4 W/kg (mW/g)																						averaged over 10 g/m					



12.9 LTE Band 41 Standalone SAR

Table 12-43 Ant B F/C Head

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	ETPS PLimit [dBm]
Head	LTE Band 41	20	QPSK	B	1005M	1:1.58	-0.11	2680.00	41480	0.0	25.0	24.89	1	99	Right Cheek	0	N/A	0.024	1.026	0.025	0.054	0.054	0.353	39.1	39.0	36.6	
Head	LTE Band 41	20	QPSK	B	1005M	1:1.58	-0.10	2680.00	41480	0.0	25.0	24.79	1	0	Right Cheek	0	N/A	0.022	1.052	0.023	0.050	0.050	0.331	39.3	39.3	36.6	
Head	LTE Band 41	20	QPSK	B	1005M	1:1.58	-0.14	2680.00	41480	1.0	24.0	23.09	50	0	Right Cheek	0	N/A	0.045	1.233	0.020	0.059	0.059	0.356	39.0	39.0	36.6	
Head	LTE Band 41	20	QPSK	B	1005M	1:1.58	-0.09	2680.00	41480	0.0	25.0	24.89	1	99	Right Tilt	0	N/A	0.025	1.026	0.027	0.055	0.055	0.353	39.3	39.3	36.6	
Head	LTE Band 41	20	QPSK	B	1005M	1:1.58	-0.09	2680.00	41480	0.0	25.0	24.89	1	99	Right Tilt	0	N/A	0.025	1.026	0.027	0.055	0.055	0.353	39.3	39.3	36.6	
Head	LTE Band 41	20	QPSK	B	0872M	1:1.58	-0.03	2680.00	41480	0.0	25.0	24.89	1	99	Left Cheek	0	N/A	0.028	1.026	0.028	0.058	0.058	0.338	41.1	41.1	38.1	
Head	LTE Band 41	20	QPSK	B	0872M	1:1.58	-0.03	2680.00	41480	1.0	24.0	23.09	50	0	Left Cheek	0	N/A	0.031	1.233	0.012	0.056	0.056	0.323	41.1	41.1	38.1	
Head	LTE Band 41	20	QPSK	B	0872M	1:1.58	-0.00	2680.00	41480	0.0	25.0	24.89	1	99	Left Tilt	0	N/A	0.028	1.026	0.028	0.058	0.058	0.338	41.1	41.1	38.1	
Head	LTE Band 41	20	QPSK	B	0872M	1:1.58	-0.03	2680.00	41480	1.0	24.0	23.09	50	0	Left Tilt	0	N/A	0.035	1.233	0.008	0.078	0.078	0.311	44.1	44.1	38.1	
Head	LTE Band 41	20	QPSK	B	1005M	1:1.58	-0.11	2680.00	41480	0.0	24.0	24.66	1	99	Right Cheek	0	ULCA 41C	0.009	1.081	0.022	0.495	0.495	0.309	39.6	39.6	36.6	
ANSI/IEEE C63.19-2012 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-44 Ant G F/C Head | Plot A33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	ETS PLimit [dBm]		
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.01	2506.00	39750	0.0	18.0	17.35	1	50	Right Cheek	0	N/A	0.127	1.109	0.611	0.611	0.610	0.420	18.1	18.1	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.02	2549.50	40185	0.0	18.0	17.48	1	50	Right Cheek	0	N/A	0.045	1.127	0.722	0.722	0.820	0.531	17.1	17.1	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.01	2501.00	40620	0.0	18.0	17.60	1	50	Right Cheek	0	N/A	0.017	1.084	0.801	0.801	0.780	0.475	17.6	17.6	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.02	2636.50	41055	0.0	18.0	17.84	1	0	Right Cheek	0	N/A	0.020	1.038	0.612	0.612	0.610	0.421	18.1	18.1	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.01	2680.00	41480	0.0	18.0	17.69	1	0	Right Cheek	0	N/A	0.024	1.026	0.529	0.529	0.529	0.359	18.5	18.5	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2506.00	39750	0.0	18.0	17.41	50	0	Right Cheek	0	N/A	0.409	1.146	0.562	0.562	0.620	0.489	18.5	18.5	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.01	2549.50	40185	0.0	18.0	17.57	50	25	Right Cheek	0	N/A	0.022	1.024	0.684	0.684	0.760	0.473	17.6	17.6	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2503.00	40620	0.0	18.0	17.71	50	0	Right Cheek	0	N/A	0.655	1.080	0.711	0.711	0.780	0.489	17.4	17.4	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.02	2636.50	41055	0.0	18.0	17.87	50	0	Right Cheek	0	N/A	0.057	1.030	0.584	0.584	0.640	0.482	18.3	18.3	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.01	2680.00	41480	0.0	18.0	17.69	1	0	Right Cheek	0	N/A	0.020	1.026	0.612	0.612	0.610	0.421	18.1	18.1	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.01	2636.50	41055	0.0	18.0	17.83	100	0	Right Cheek	0	N/A	0.063	1.040	0.586	0.586	0.640	0.483	18.3	18.3	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2506.00	39750	0.0	18.0	17.35	1	50	Right Tilt	0	N/A	0.011	1.039	0.710	0.710	0.750	0.486	17.5	17.5	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2549.50	40185	0.0	18.0	17.68	1	50	Right Tilt	0	N/A	0.044	1.037	0.850	0.850	0.840	0.585	16.7	16.7	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2593.00	40620	0.0	18.0	17.65	1	50	Right Tilt	0	N/A	0.749	1.084	0.812	0.812	0.880	0.559	16.9	16.9	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2636.50	41055	0.0	18.0	17.86	1	0	Right Tilt	0	N/A	0.041	1.038	0.688	0.688	0.760	0.473	17.6	17.6	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.01	2680.00	41480	0.0	18.0	17.69	1	0	Right Tilt	0	N/A	0.044	1.034	0.649	0.649	0.720	0.447	17.8	17.8	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2506.00	39750	0.0	18.0	17.41	50	0	Right Tilt	0	N/A	0.046	1.146	0.552	0.552	0.620	0.449	17.8	17.8	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2549.50	40185	0.0	18.0	17.57	50	25	Right Tilt	0	N/A	0.014	1.024	0.848	0.848	0.910	0.583	16.7	16.7	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2593.00	40620	0.0	18.0	17.71	50	0	Right Tilt	0	N/A	0.722	1.009	0.823	0.823	0.910	0.568	16.8	16.8	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2636.50	41055	0.0	18.0	17.87	50	0	Right Tilt	0	N/A	0.681	1.030	0.642	0.642	0.750	0.469	17.6	17.6	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2680.00	41480	0.0	18.0	17.74	50	0	Right Tilt	0	N/A	0.717	1.082	0.761	0.761	0.840	0.524	17.2	17.2	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2636.50	41055	0.0	18.0	17.86	50	0	Right Tilt	0	N/A	0.681	1.080	0.678	0.678	0.750	0.469	17.7	17.7	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.02	2506.00	39750	0.0	18.0	17.35	1	50	Left Cheek	0	N/A	0.046	1.109	0.606	0.606	0.720	0.451	17.8	17.8	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.02	2549.50	40185	0.0	18.0	17.48	1	50	Left Cheek	0	N/A	0.713	1.127	0.804	0.804	0.880	0.553	16.9	16.9	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2593.00	40620	0.0	18.0	17.65	1	50	Left Cheek	0	N/A	0.749	1.084	0.811	0.811	0.880	0.559	16.9	16.9	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.03	2636.50	41055	0.0	18.0	17.84	1	0	Left Cheek	0	N/A	0.019	1.038	0.684	0.684	0.760	0.473	17.6	17.6	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.02	2680.00	41480	0.0	18.0	17.69	1	0	Left Cheek	0	N/A	0.020	1.026	0.754	0.754	0.840	0.529	17.3	17.3	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2506.00	39750	0.0	18.0	17.41	50	0	Left Cheek	0	N/A	0.040	1.146	0.619	0.619	0.680	0.426	18.1	18.1	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2549.50	40185	0.0	18.0	17.57	50	25	Left Cheek	0	N/A	0.722	1.024	0.797	0.797	0.880	0.548	17.0	17.0	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2593.00	40620	0.0	18.0	17.71	50	0	Left Cheek	0	N/A	0.766	1.080	0.819	0.819	0.900	0.569	16.8	16.8	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.01	2636.50	41055	0.0	18.0	17.87	50	0	Left Cheek	0	N/A	0.057	1.030	0.687	0.687	0.760	0.473	17.6	17.6	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.01	2680.00	41480	0.0	18.0	17.69	1	0	Left Cheek	0	N/A	0.044	1.026	0.777	0.777	0.850	0.505	17.3	17.3	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.01	2636.50	41055	0.0	18.0	17.83	100	0	Left Cheek	0	N/A	0.041	1.040	0.688	0.688	0.760	0.473	17.6	17.6	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.01	2506.00	39750	0.0	18.0	17.35	1	50	Left Tilt	0	N/A	0.708	1.109	0.811	0.811	0.900	0.564	16.8	16.8	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2549.50	40185	0.0	18.0	17.57	50	25	Left Tilt	0	N/A	0.744	1.037	1.000	1.000	1.000	0.629	15.3	15.3	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.11	2549.50	40185	0.0	18.0	17.60	1	99	Left Tilt	0	N/A	0.017	1.096	1.049	1.049	1.050	0.722	Plot A	18.1	18.1	15.0		
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2593.00	40620	0.0	18.0	17.65	1	50	Left Tilt	0	N/A	0.041	1.038	0.854	0.854	0.950	0.594	16.8	16.8	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2636.50	41055	0.0	18.0	17.84	1	0	Left Tilt	0	N/A	0.043	1.038	0.664	0.664	0.660	0.454	18.4	18.4	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2680.00	41480	0.0	18.0	17.69	1	0	Left Tilt	0	N/A	0.048	1.024	0.911	0.911	0.900	0.626	16.4	16.4	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.02	2506.00	39750	0.0	18.0	17.35	1	50	Left Tilt	0	N/A	0.718	1.146	0.748	0.748	0.740	0.523	17.7	17.7	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.02	2549.50	40185	0.0	18.0	17.57	50	25	Left Tilt	0	N/A	0.698	1.044	1.002	1.002	1.000	0.689	16.0	16.0	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2593.00	40620	0.0	18.0	17.71	50	0	Left Tilt	0	N/A	0.722	1.009	0.823	0.823	0.900	0.568	16.8	16.8	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.03	2636.50	41055	0.0	18.0	17.87	50	0	Left Tilt	0	N/A	0.689	1.030	0.674	0.674	0.660	0.489	16.5	16.5	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.01	2680.00	41480	0.0	18.0	17.74	50	0	Left Tilt	0	N/A	0.684	1.062	0.907	0.907	0.900	0.624	16.4	16.4	15.0			
Head	LTE Band 41	20	QPSK	G	1005M	1:1.58	-0.00	2636.50	41055	0.0	18.0	17.86	50	0	Left Tilt	0	N/A	0.680	1.082	0.873	0.873	0.860	0.603	16.2	16.2	15.0			
Head	LTE Band 41	20	QPSK	G	1006M	1:1.58	-0.02	2549.50	40185	0.0	18.0	17.51	1	99	Left Tilt	0	ULCA 41C	0.056	1.119	1.047	1.047	1.150	0.729	15.8	15.8	15.0			
AN/USC-190 - SAFETY LANT																		Head											
Uncontrolled Exposure of General Population																		1.6 W/kg (100 mW/g)											
																		power at 2.1m											



Table 12-47

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [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]	Adjusted 2g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Plimb [dBm]	Overall Plimb [dBm]	RF Plimb [dBm]
Body worn/Hotspot	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.08	2506.00	39750	0.0	20.5	19.39	1	99	Back	5	N/A	0.275	1.293	0.484	0.484	0.530	0.333		21.6		
Body worn/Hotspot	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.04	2549.50	40185	0.0	20.5	19.43	1	0	Back	5	N/A	0.402	1.279	0.514	0.514	0.570	0.353		21.4		
Body worn/Hotspot	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.04	2593.00	40620	0.0	20.5	19.82	1	0	Back	5	N/A	0.449	1.255	0.538	0.538	0.595	0.379		21.3		
Body worn/Hotspot	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.05	2636.50	41055	0.0	20.5	19.62	1	0	Back	5	N/A	0.426	1.225	0.522	0.522	0.570	0.359		21.3		
Body worn/Hotspot	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.06	2680.00	41490	0.0	20.5	19.75	1	0	Back	5	N/A	0.551	1.189	0.644	0.644	0.700	0.436		20.4		
Body worn/Hotspot	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.01	2680.00	41490	0.0	20.5	19.78	50	25	Back	5	N/A	0.593	1.180	0.594	0.594	0.650	0.408		20.7		
Hotspot	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.11	2680.00	41490	0.0	20.5	19.75	1	0	Front	5	N/A	0.589	1.166	0.562	0.562	0.617	0.385		20.7		
Hotspot	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.09	2680.00	41490	0.0	20.5	19.78	50	25	Front	5	N/A	0.552	1.180	0.551	0.551	0.617	0.385		20.7		
Hotspot	LTE Band 41	20	QPSK	B	1090M	1:1.58	0.02	2680.00	41490	0.0	20.5	19.75	1	0	Bottom	10	N/A	0.226	1.189	0.269	0.269	0.300	0.185		24.2		
Hotspot	LTE Band 41	20	QPSK	B	1090M	1:1.58	0.05	2680.00	41490	0.0	20.5	19.78	50	25	Bottom	10	N/A	0.228	1.180	0.257	0.257	0.280	0.177		24.4		
Hotspot	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.16	2680.00	41490	0.0	20.5	19.75	1	0	Left	10	N/A	0.490	1.189	0.624	0.624	0.693	0.437		24.7		
Hotspot	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.24	2680.00	41490	0.0	20.5	19.78	50	25	Left	10	N/A	0.659	1.180	0.622	0.622	0.693	0.437		24.7		
Body worn/Hotspot	LTE Band 41	20	QPSK	B	1090M	1:1.58	0.05	2680.00	41490	0.0	20.5	19.78	50	25	Left	10	ULCA 41C	0.659	1.227	0.584	0.584	0.640	0.402		20.7		
ANSI/IEEE C95.1-1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-48 | Plot A35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [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]	Adjusted 2g SAR with Multi-Tx Factor [W/kg]	Exposure Ratio with Multi-Tx Factor [1g SAR]	Plot #	Plimb [dBm]	Overall Plimb [dBm]	RF Plimb [dBm]
Body worn/Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.00	2506.00	39750	0.0	19.5	17.84	1	50	Back	5	N/A	0.728	1.466	1.067	1.067	1.170	0.734		17.2		
Body worn/Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.00	2549.50	40185	0.0	19.5	17.97	1	50	Back	5	N/A	0.839	1.422	1.193	1.193	1.310	0.823		16.7		
Body worn/Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.01	2549.50	40185	0.0	19.5	17.93	1	0	Back	5	N/A	0.897	1.416	1.153	1.153	1.270	0.795		16.9		
Body worn/Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.03	2593.00	40620	0.0	19.5	18.14	1	50	Back	5	N/A	0.949	1.368	1.025	1.025	1.130	0.705		17.4		
Body worn/Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.06	2636.50	41055	0.0	19.5	18.15	1	0	Back	5	N/A	0.924	1.350	0.953	0.953	1.040	0.687		18.7		
Body worn/Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.00	2680.00	41490	0.0	19.5	18.15	1	0	Back	5	N/A	0.977	1.305	0.788	0.788	0.870	0.542		18.5		
Body worn/Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.00	2506.00	39750	0.0	19.5	17.87	50	0	Back	5	N/A	0.899	1.455	1.037	1.037	1.120	0.709		17.4		
Body worn/Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.00	2549.50	40185	0.0	19.5	17.90	50	25	Back	5	N/A	0.954	1.430	1.187	1.187	1.310	0.823		16.7		
Body worn/Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.00	2593.00	40620	0.0	19.5	18.20	50	0	Back	5	N/A	0.967	1.349	1.035	1.035	1.140	0.712		17.3		
Body worn/Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.01	2636.50	41055	0.0	19.5	18.15	50	0	Back	5	N/A	0.955	1.350	1.038	1.038	1.140	0.712		17.3		
Body worn/Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.02	2680.00	41490	0.0	19.5	18.15	50	0	Back	5	N/A	0.975	1.322	0.777	0.777	0.850	0.535		18.6		
Body worn/Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.00	2636.50	41055	0.0	19.5	18.35	200	0	Back	5	N/A	0.717	1.513	0.967	0.967	1.060	0.664		17.6		
Body worn/Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.01	2636.50	41055	0.0	19.5	18.35	1	0	Front	5	N/A	0.941	1.360	0.976	0.976	1.060	0.664		17.6		
Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.02	2636.50	41055	0.0	19.5	18.30	50	0	Front	5	N/A	0.440	1.291	0.578	0.578	0.640	0.397		19.9		
Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.24	2636.50	41055	0.0	19.5	18.30	50	0	Front	5	N/A	0.440	1.291	0.578	0.578	0.640	0.397		19.9		
Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.03	2636.50	41055	0.0	19.5	18.30	50	0	Top	10	N/A	0.453	1.291	0.585	0.585	0.640	0.403		19.8		
Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.00	2636.50	41055	0.0	19.5	18.35	1	0	Right	10	N/A	0.495	1.303	0.659	0.659	0.690	0.445		20.8		
Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.01	2636.50	41055	0.0	19.5	18.35	1	0	Right	10	N/A	0.968	1.291	0.962	0.962	1.045	0.685		20.5		
Body worn/Hotspot	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.06	2680.00	41490	0.0	19.5	17.82	1	99	Back	5	ULCA 41C	0.833	1.472	1.197	1.197	1.320	0.823		16.7		
ANSI/IEEE C95.1-1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-49

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [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]	Adjusted 2g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Plimb [dBm]	Overall Plimb [dBm]	RF Plimb [dBm]
Body	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.02	2680.00	41490	0.0	16.5	15.81	1	0	Back	5	N/A	0.215	1.172	0.252	0.252	0.280	0.174		20.5		
Body	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.02	2680.00	41490	0.0	16.5	15.79	50	25	Back	5	N/A	0.213	1.178	0.253	0.253	0.280	0.174		20.4		
Body	LTE Band 41	20	QPSK	B	1090M	1:1.58	0.00	2680.00	41490	0.0	16.5	15.81	1	0	Top	5	N/A	0.090	1.172	0.090	0.090	0.090	0.050		53.8		
Body	LTE Band 41	20	QPSK	B	1090M	1:1.58	0.00	2680.00	41490	0.0	16.5	15.79	50	25	Top	5	N/A	0.090	1.178	0.090	0.090	0.090	0.050		53.8		
Body	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.03	2680.00	41490	0.0	16.5	15.81	1	0	Bottom	5	N/A	0.216	1.172	0.277	0.277	0.300	0.190		20.6		
Body	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.04	2680.00	41490	0.0	16.5	15.79	50	25	Bottom	5	N/A	0.214	1.178	0.264	0.264	0.290	0.182		20.3		
Body	LTE Band 41	20	QPSK	B	1090M	1:1.58	-0.05	2680.00	41490	0.0	16.5	15.81	1	0	Right	5	N/A	0.055	1.172	0.058	0.058	0.050	0.034		52.0		
Body	LTE Band 41	20	QPSK	B	1090M	1:1.58	0.04	2680.00	41490	0.0	16.5	15.79	50	25	Right	5	N/A	0.055	1.178	0.058	0.058	0.050	0.034		52.0		
Body	LTE Band 41	20	QPSK	B	1090M	1:1.58	0.05	2680.00	41490	0.0	16.5	15.81	1	0	Left	5	N/A	0.094	1.172	0.095	0.095	0.090	0.063		37.8		
Body	LTE Band 41	20	QPSK	B	1090M	1:1.58	0.06	2680.00	41490	0.0	16.5	15.79	50	25	Left	5	N/A	0.093	1.178	0.094	0.094	0.090	0.063		38.0		
Body	LTE Band 41	20	QPSK	B	1090M	1:1.58	0.04	2680.00	41490	0.0	16.5	15.85	1	0	Bottom	5	ULCA 41C	0.227	1.161	0.264	0.264	0.290	0.182		20.3		
ANSI/IEEE C95.1-1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-50 | Plot A36

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Plimb [dBm]	Overall Plimb [dBm]	RF Plimb [dBm]
Body	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.06	2636.50	41055	0.0	14.5	13.47	1	0	Back	5	N/A	0.255	1.268	0.323	0.323	0.360	0.222		17.4		
Body	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.01	2636.50	41055	0.0	14.5	11.43	1	0	Back	5	N/A	0.261	1.279	0.324	0.324	0.360	0.223		17.4		
Body	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.03	2636.50	41055	0.0	14.5	13.47	1	0	Top	5	N/A	0.449	1.268	0.569	0.569	0.630	0.392		14.0		
Body	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.01	2636.50	41055	0.0	14.5	11.43	1	0	Top	5	N/A	0.451	1.279	0.586	0.586	0.640	0.403		14.1		
Body	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.06	2636.50	41055	0.0	14.5	13.47	1	0	Bottom	5	N/A	0.000	1.268	0.000	0.000	0.000	0.000		51.0		
Body	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.06	2636.50	41055	0.0	14.5	13.43	50	0	Bottom	5	N/A	0.000	1.279	0.000	0.000	0.000	0.000		31.4		
Body	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.01	2636.50	41055	0.0	14.5	11.47	50	0	Bottom	5	N/A	0.000	1.279	0.000	0.000	0.000	0.000		28.0	14.7	
Body	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.02	2636.50	41055	0.0	14.5	13.43	50	0	Right	5	N/A	0.004	1.279	0.031	0.031	0.030	0.021		27.6		
Body	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.01	2636.50	41055	0.0	14.5	11.47	50	0	Left	5	N/A	0.000	1.279	0.000	0.000	0.000	0.000		28.0		
Body	LTE Band 41	20	QPSK	G	1090M	1:1.58	0.07	2636.50	41055	0.0	14.5	13.43	50	0	Left	5	N/A	0.001	1.279	0.001	0.001	0.000	0.001		41.4		
Body	LTE Band 41	20	QPSK	G	1090M	1:1.58	-0.01	2636.50	41055	0.0	14.5	11.45	50	0	Top	5	ULCA 41C	0.480	1.241	0.598	0.598	0.660	0.411	Plot	14.1		
ANALYZER ONLY 100% SAFETY LIMIT																											
Spatial Peak																		1 g W/kg (mW/g)									
Uncontrolled Exposure / General Population																		perpetrated over 1 gram									



12.10 NR Band n5 Standalone SAR

Table 12-51 Ant A F/C Head | Plot A37

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfH [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plmit [dBm]	Overall Plmit [dBm]	RF Plmit [dBm]
Head	NR Band n5	20	QPSK	A	0870M	1:1	-0.12	836.50	167300	SFT+QCPDM	0.0	25.0	23.99	1	1	Right Cheek	0	0	0.183	1.262	0.231	0.567	0.567	0.574	31.3			
Head	NR Band n5	20	QPSK	A	0870M	1:1	-0.03	836.50	167300	SFT+QCPDM	0.0	25.0	23.99	50	28	Right Cheek	0	0	0.191	1.265	0.245	0.603	0.603	0.637	Prot	31.0		
Head	NR Band n5	20	QPSK	A	0870M	1:1	-0.11	836.50	167300	CP-CPDM	1.5	23.5	22.56	1	1	Right Cheek	0	0	0.135	1.242	0.163	0.266	0.266	0.263	31.5			
Head	NR Band n5	20	QPSK	A	0870M	1:1	-0.17	836.50	167300	SFT+QCPDM	0.0	25.0	23.99	1	1	Right Tilt	0	0	0.085	1.262	0.111	0.271	0.271	0.271	34.5			
Head	NR Band n5	20	QPSK	A	0870M	1:1	-0.01	836.50	167300	SFT+QCPDM	0.0	25.0	23.99	50	28	Right Tilt	0	0	0.086	1.265	0.111	0.271	0.271	0.269	34.5			
Head	NR Band n5	20	QPSK	A	0870M	1:1	-0.07	836.50	167300	SFT+QCPDM	0.0	25.0	23.99	1	1	Left Cheek	0	0	0.145	1.262	0.144	0.263	0.263	0.261	31.4			
Head	NR Band n5	20	QPSK	A	0870M	1:1	-0.07	836.50	167300	SFT+QCPDM	0.0	25.0	23.99	50	28	Left Cheek	0	0	0.117	1.261	0.150	0.269	0.269	0.261	31.2			
Head	NR Band n5	20	QPSK	A	0870M	1:1	-0.05	836.50	167300	SFT+QCPDM	0.0	25.0	23.99	1	1	Left Tilt	0	0	0.076	1.262	0.096	0.235	0.235	0.247	35.1			
Head	NR Band n5	20	QPSK	A	0870M	1:1	-0.01	836.50	167300	SFT+QCPDM	0.0	25.0	23.99	50	28	Left Tilt	0	0	0.077	1.265	0.093	0.227	0.227	0.242	35.1			
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																				Head								
Spatial Peak																				1.6 W/kg (mW/g)								
Uncorrelated Exposure/General Population																				averaged over 1 gram								

Table 12-52 Ant A+C F/C Head

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfH [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plmit [dBm]	Overall Plmit [dBm]	RF Plmit [dBm]
Head	NR Band n5	20	QPSK	A+C	0831M	1:1	-0.02	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	1	1	Right Cheek	0	0	0.189	1.262	0.239	0.265	0.265	0.265	31.2			
Head	NR Band n5	20	QPSK	A+C	0831M	1:1	-0.08	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Right Cheek	0	0	0.189	1.261	0.249	0.268	0.268	0.268	31.1			
Head	NR Band n5	20	QPSK	A+C	0831M	1:1	-0.17	835.50	167300	QPT+QCPDM	1.5	23.5	22.56	1	1	Right Cheek	0	0	0.129	1.242	0.160	0.155	0.155	0.147	31.4			
Head	NR Band n5	20	QPSK	A+C	0831M	1:1	-0.01	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Right Cheek	0	0	0.087	1.262	0.104	0.248	0.248	0.248	34.5			
Head	NR Band n5	20	QPSK	A+C	0831M	1:1	-0.04	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Right Tilt	0	0	0.079	1.261	0.102	0.249	0.249	0.246	34.9			
Head	NR Band n5	20	QPSK	A+C	0831M	1:1	-0.06	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	1	1	Left Cheek	0	0	0.106	1.262	0.114	0.248	0.248	0.245	31.7			
Head	NR Band n5	20	QPSK	A+C	0831M	1:1	-0.03	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Left Cheek	0	0	0.133	1.265	0.145	0.267	0.267	0.263	31.3			
Head	NR Band n5	20	QPSK	A+C	0831M	1:1	-0.09	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	1	1	Left Tilt	0	0	0.087	1.262	0.110	0.269	0.269	0.268	34.5			
Head	NR Band n5	20	QPSK	A+C	0831M	1:1	-0.01	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Left Tilt	0	0	0.089	1.261	0.112	0.274	0.274	0.271	34.5			
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																				Head								
Spatial Peak																				1.6 W/kg (mW/g)								
Uncorrelated Exposure/General Population																				averaged over 1 gram								

Table 12-53 Ant A+C F/O Head | Plot A38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfH [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	RF Plimit [dBm]
Head	NR Band n5	20	QPSK	A+C	0870M	1:1	-0.19	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	1	1	Right Cheek	0	0	0.147	1.262	0.059	0.180	0.180	0.081	31.2			
Head	NR Band n5	20	QPSK	A+C	0870M	1:1	-0.14	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Right Cheek	0	0	0.149	1.261	0.068	0.149	0.149	0.083	31.6			
Head	NR Band n5	20	QPSK	A+C	0870M	1:1	-0.19	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	1	1	Right Tilt	0	0	0.081	1.262	0.064	0.141	0.141	0.088	36.9			
Head	NR Band n5	20	QPSK	A+C	0870M	1:1	-0.01	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Right Tilt	0	0	0.080	1.262	0.064	0.141	0.141	0.088	36.9			
Head	NR Band n5	20	QPSK	A+C	0870M	1:1	-0.02	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Left Cheek	0	0	0.108	1.262	0.117	0.259	0.259	0.234	31.1			
Head	NR Band n5	20	QPSK	A+C	0870M	1:1	-0.10	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Left Cheek	0	0	0.107	1.265	0.223	0.154	0.154	0.146	31.0			
Head	NR Band n5	20	QPSK	A+C	0870M	1:1	-0.01	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Left Cheek	0	0	0.133	1.265	0.145	0.267	0.267	0.263	31.3			
Head	NR Band n5	20	QPSK	A+C	0870M	1:1	-0.09	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	1	1	Left Tilt	0	0	0.078	1.262	0.098	0.245	0.245	0.234	36.0			
Head	NR Band n5	20	QPSK	A+C	0870M	1:1	-0.01	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Left Tilt	0	0	0.077	1.265	0.096	0.241	0.241	0.241	35.1			
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																				Head								
Spatial Peak																				1.6 W/kg (mW/g)								
Uncorrelated Exposure/General Population																				averaged over 1 gram								

Table 12-54

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfH [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plmit [dBm]	Overall Plmit [dBm]	RF Plmit [dBm]
Body-worn/Hotspot	NR Band n5	20	QPSK	A	0870M	1:1	-0.08	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	1	1	Back	5	0	0.407	1.262	0.829	0.930	0.930	0.831	25.8			
Body-worn/Hotspot	NR Band n5	20	QPSK	A	0870M	1:1	-0.07	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Back	5	0	0.405	1.265	0.863	0.901	0.901	0.861	25.9			
Body-worn/Hotspot	NR Band n5	20	QPSK	A	0870M	1:1	-0.10	835.50	167300	QPT+QCPDM	1.0	24.0	22.99	100	0	Back	5	0	0.484	1.262	0.626	0.884	0.884	0.831	26.0			
Body-worn/Hotspot	NR Band n5	20	QPSK	A	0870M	1:1	-0.11	835.50	167300	QPT+QCPDM	1.5	23.5	22.56	1	1	Back	5	0	0.427	1.242	0.586	0.749	0.749	0.581	25.8			
Hotspot	NR Band n5	20	QPSK	A	0870M	1:1	-0.29	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	1	1	Back	5	0	0.497	1.242	0.586	0.749	0.749	0.581	25.8			
Hotspot	NR Band n5	20	QPSK	A	0870M	1:1	-0.03	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Front	5	0	0.219	1.265	0.222	0.240	0.240	0.239	30.6			
Hotspot	NR Band n5	20	QPSK	A	0870M	1:1	-0.10	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	1	1	Bottom	10	0	0.176	1.262	0.222	0.240	0.240	0.239	30.6			
Hotspot	NR Band n5	20	QPSK	A	0870M	1:1	-0.04	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Bottom	10	0	0.168	1.261	0.216	0.242	0.242	0.231	31.6			
Hotspot	NR Band n5	20	QPSK	A	0870M	1:1	-0.07	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	1	1	Right	10	0	0.305	1.262	0.381	0.448	0.448	0.268	25.8			
Hotspot	NR Band n5	20	QPSK	A	0870M	1:1	-0.28	835.50	167300	QPT+QCPDM	0.0	25.0	23.99	50	28	Right	10	0	0.312	1.242	0.401	0.460	0.460	0.261	25.9			
ANALOG CELL ID# - SAFETY LINE																												
Spatial Peak													1.0 W/kg (mW/kg)															
Uncontrolled Exposure (General Population)													averaged over 1 gram															



12.11 NR Band n66 Standalone SAR

Table 12-57 Ant B F/C Head

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EF5 PLimit [dBm]
Head	NR Band n66	40	QPSK	B	0881M	1.1	-0.04	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.60	1	214	Right Cheek	0	0.065	1.380	0.117	0.536	0.536	0.335	34.3	34.2	31.6	
Head	NR Band n66	40	QPSK	B	0881M	1.1	-0.04	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.48	108	54	Right Cheek	0	0.063	1.419	0.118	0.538	0.538	0.336	34.2	34.2	31.6	
Head	NR Band n66	40	QPSK	B	0881M	1.1	0.00	1745.00	349000	CP-OFDM	1.5	23.5	22.15	1	1	Right Cheek	0	0.066	1.385	0.076	0.493	0.493	0.308	34.6	34.6	31.6	
Head	NR Band n66	40	QPSK	B	0881M	1.1	-0.04	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.60	1	214	Right Tilt	0	0.067	1.380	0.079	0.560	0.560	0.320	35.0	35.0	31.6	
Head	NR Band n66	40	QPSK	B	0881M	1.1	-0.04	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.48	108	54	Right Tilt	0	0.068	1.419	0.088	0.531	0.531	0.319	35.6	35.6	31.6	
Head	NR Band n66	40	QPSK	B	0881M	1.1	0.00	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.60	1	214	Left Cheek	0	0.065	1.380	0.084	0.385	0.385	0.245	35.7	35.7	31.6	
Head	NR Band n66	40	QPSK	B	0881M	1.1	-0.04	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.48	108	54	Left Cheek	0	0.066	1.413	0.079	0.383	0.383	0.227	35.9	35.9	31.6	
Head	NR Band n66	40	QPSK	B	0881M	1.1	0.18	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.60	1	214	Left Tilt	0	0.069	1.380	0.069	0.316	0.316	0.198	36.6	36.6	31.6	
Head	NR Band n66	40	QPSK	B	0881M	1.1	-0.19	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.48	108	54	Left Tilt	0	0.069	1.413	0.084	0.383	0.383	0.239	35.7	35.7	31.6	
ANSI/IEEE C63.19-2 SAFETY LIMIT																		Head		1.6 W/kg (mW/g) averaged over 1 gram							
Uncontrolled Exposure/General Population																											

Table 12-58 Ant G F/C Head | Plot A41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EF5 PLimit [dBm]
Head	NR Band n66	40	QPSK	G	0967M	1.1	-0.06	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.19	1	108	Right Cheek	0	0.704	1.074	0.756	0.756	0.830	0.520	21.7	21.7	20.0	19.5
Head	NR Band n66	40	QPSK	G	0967M	1.1	-0.03	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.24	108	0	Right Cheek	0	0.676	1.062	0.718	0.718	0.790	0.496	21.9	21.9		
Head	NR Band n66	40	QPSK	G	0967M	1.1	0.00	1745.00	349000	CP+CP-OFDM	0.0	20.5	20.19	1	108	Right Tilt	0	0.676	1.074	0.688	0.688	0.750	0.460	21.9	21.9		
Head	NR Band n66	40	QPSK	G	0967M	1.1	0.04	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.34	108	0	Right Tilt	0	0.695	1.062	0.950	0.950	1.000	0.603	20.7	20.7		
Head	NR Band n66	40	QPSK	G	0967M	1.1	0.07	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.17	216	0	Right Tilt	0	0.659	1.079	1.002	1.002	1.000	0.689	20.4	20.4		
Head	NR Band n66	40	QPSK	G	0967M	1.1	-0.12	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.19	1	108	Left Cheek	0	0.681	1.074	0.871	0.871	0.900	0.598	21.0	21.0		
Head	NR Band n66	40	QPSK	G	0967M	1.1	0.04	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.34	108	0	Left Cheek	0	0.752	1.062	0.799	0.799	0.880	0.549	21.4	21.4		
Head	NR Band n66	40	QPSK	G	0967M	1.1	0.06	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.17	216	0	Left Cheek	0	0.772	1.079	0.833	0.833	0.920	0.573	21.2	21.2		
Head	NR Band n66	40	QPSK	G	0967M	1.1	0.11	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.19	1	108	Left Tilt	0	1.000	1.074	1.085	1.085	1.190	0.746	20.1	20.1		
Head	NR Band n66	40	QPSK	G	0967M	1.1	0.00	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.34	108	0	Left Tilt	0	0.982	1.062	1.043	1.043	1.100	0.717	20.3	20.3		
Head	NR Band n66	40	QPSK	G	0967M	1.1	-0.04	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.17	216	0	Left Tilt	0	1.020	1.079	1.101	1.101	1.170	0.757	20.0	20.0		
Head	NR Band n66	40	QPSK	G	0967M	1.1	0.00	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.17	216	0	Left Tilt	0	0.989	1.079	1.090	1.090	1.200	0.746	20.1	20.1		
Head	NR Band n66	40	QPSK	G	0967M	1.1	0.12	1745.00	349000	CP-OFDM	0.0	20.5	20.14	1	1	Left Tilt	0	0.983	1.086	1.068	1.068	1.170	0.735	20.2	20.2		
Spatial Peak																		Head		1.6 W/kg (mW/g) averaged over 1 gram							
Uncontrolled Exposure/General Population																											

Note: Blue entry represents variability measurement

Note: Blue entry represents variability measurement

Table 12-59 Ant B F/O Head

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EF5 PLimit [dBm]
Head	NR Band n66	40	QPSK	B	0872M	1.1	0.02	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.60	1	214	Right Cheek	0	0.079	1.380	0.109	0.415	0.415	0.255	34.6	34.6	30.8	
Head	NR Band n66	40	QPSK	B	0872M	1.1	0.04	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.48	108	54	Right Cheek	0	0.088	1.439	0.139	0.529	0.529	0.331	33.5	33.5	30.8	
Head	NR Band n66	40	QPSK	B	0872M	1.1	0.08	1745.00	349000	CP-OFDM	1.5	23.5	22.15	1	1	Right Cheek	0	0.076	1.360	0.104	0.357	0.357	0.246	35.3	35.3	30.8	
Head	NR Band n66	40	QPSK	B	0872M	1.1	-0.04	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.60	1	214	Right Tilt	0	0.077	1.380	0.073	0.089	0.089	0.055	41.2	41.2	30.8	
Head	NR Band n66	40	QPSK	B	0872M	1.1	0.03	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.48	108	54	Right Tilt	0	0.075	1.419	0.085	0.135	0.135	0.084	39.5	39.5	30.8	
Head	NR Band n66	40	QPSK	B	0872M	1.1	-0.02	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.48	108	54	Left Cheek	0	0.086	1.380	0.082	0.336	0.336	0.216	36.4	36.4	30.8	
Head	NR Band n66	40	QPSK	B	0872M	1.1	0.02	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.48	108	54	Left Cheek	0	0.091	1.439	0.072	0.275	0.275	0.172	36.4	36.4	30.8	
Head	NR Band n66	40	QPSK	B	0872M	1.1	0.05	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.60	1	214	Left Tilt	0	0.074	1.380	0.019	0.073	0.073	0.046	42.1	42.1	30.8	
Head	NR Band n66	40	QPSK	B	0872M	1.1	0.07	1745.00	349000	DFT+CP-OFDM	0.0	25.0	23.48	108	54	Left Tilt	0	0.077	1.419	0.034	0.092	0.092	0.058	41.1	41.1	30.8	
ANSI C63.19-2:2012 Safety Limit																		Spatial Peak		1.6 W/kg (mW/g) averaged over 1 gram							
Uncontrolled Exposure/General Population																											

Table 12-60 Ant G F/O Head | Plot A42

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfM [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EF5 PLimit [dBm]
Head	NR Band n66	40	QPSK	G	0967M	1.1	-0.05	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.19	1	108	Right Cheek	0	0.607	1.074	0.612	0.612	0.720	0.449	22.3	22.3	19.5	
Head	NR Band n66	40	QPSK	G	0967M	1.1	-0.04	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.19	1	108	Right Cheek	0	0.618	1.062	0.618	0.618	0.600	0.717	22.1	22.1	19.5	
Head	NR Band n66	40	QPSK	G	0967M	1.1	0.04	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.19	1	108	Right Tilt	0	0.741	1.074	0.796	0.796	0.880	0.548	21.4	21.4	19.5	
Head	NR Band n66	40	QPSK	G	0967M	1.1	-0.13	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.14	1	108	Right Tilt	0	0.656	1.062	0.669	0.669	0.705	0.477	22.0	22.0	19.5	
Head	NR Band n66	40	QPSK	G	0967M	1.1	0.00	1745.00	349000	CP-OFDM	1.5	22.5	21.15	1	1	Right Tilt	0	0.696	1.086	0.647	0.647	0.710	0.440	22.1	22.1	19.5	
Head	NR Band n66	40	QPSK	G	0967M	1.1	0.07	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.19	1	108	Left Cheek	0	0.614	1.074	0.165	0.165	0.180	0.113	28.3	28.3	19.5	
Head	NR Band n66	40	QPSK	G	0967M	1.1	-0.04	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.19	1	108	Left Cheek	0	0.618	1.062	0.147	0.147	0.160	0.100	28.6	28.6	19.5	
Head	NR Band n66	40	QPSK	G	0967M	1.1	-0.13	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.19	1	108	Left Tilt	0	0.264	1.074	0.284	0.284	0.310	0.196	25.9	25.9	19.5	
Head	NR Band n66	40	QPSK	G	0967M	1.1	0.00	1745.00	349000	DFT+CP-OFDM	0.0	20.5	20.19	1	108	Left Tilt	0	0.229	1.062	0.243	0.243	0.270	0.167	26.6	26.6	19.5	
Annoyed/ CRL 3.1992 - Safety Limit																											
Spatial Peak																											
1.6 W/kg (avg) / averaged over 1 gram																											



Table 12-63

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DnB [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 with Multi-Tx Factor [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi-Tx Factor [W/kg]	Exposure Ratio with Multi-Tx Factor [1g SAR]	Plot #	Plimb [dBm]	Overall Plimb [dBm]	EFS Plimb [dBm]
Body	NR Band n66	40	CPKX	B	0881M	1:1	0.02	1745.00	349000	DFT+CPDM	0.0	15.5	13.92	1	1	Back	5	0.277	1.442	0.399	0.399	0.440	0.274	19.4			
Body	NR Band n66	40	CPKX	B	0881M	1:1	-0.20	1745.00	349000	DFT+CPDM	0.0	14.5	14.05	1	1	Back	5	0.329	1.459	0.460	0.460	0.520	0.329	18.6			
Body	NR Band n66	40	CPKX	B	0881M	1:1	0.00	1745.00	349000	CP-CPDM	0.0	15.5	13.90	1	1	Back	5	0.277	1.445	0.400	0.400	0.440	0.275	19.4			
Body	NR Band n66	40	CPKX	B	0881M	1:1	0.00	1745.00	349000	DFT+CPDM	0.0	15.5	13.92	1	1	Top	5	0.000	1.442	0.000	0.000	0.000	0.000	53.9			
Body	NR Band n66	40	CPKX	B	0881M	1:1	0.00	1745.00	349000	DFT+CPDM	0.0	15.5	13.86	108	108	Top	5	0.000	1.459	0.001	0.001	0.000	0.000	43.8			
Body	NR Band n66	40	CPKX	B	0881M	1:1	-0.05	1745.00	349000	DFT+CPDM	0.0	15.5	13.92	1	1	Bottom	5	0.263	1.442	0.365	0.365	0.400	0.263	19.8	18.6	14.5	
Body	NR Band n66	40	CPKX	B	0881M	1:1	-0.20	1745.00	349000	DFT+CPDM	0.0	14.5	14.05	1	1	Bottom	5	0.267	1.459	0.419	0.419	0.460	0.267	19.4			
Body	NR Band n66	40	CPKX	B	0881M	1:1	-0.15	1745.00	349000	DFT+CPDM	0.0	15.5	13.92	1	1	Right	5	0.004	1.442	0.000	0.000	0.000	0.004	32.4			
Body	NR Band n66	40	CPKX	B	0881M	1:1	0.00	1745.00	349000	DFT+CPDM	0.0	15.5	13.86	108	108	Right	5	0.009	1.459	0.029	0.029	0.030	0.029	30.8			
Body	NR Band n66	40	CPKX	B	0881M	1:1	0.10	1745.00	349000	DFT+CPDM	0.0	14.5	14.05	1	1	Left	5	0.007	1.442	0.000	0.000	0.000	0.007	35.4			
Body	NR Band n66	40	CPKX	B	0881M	1:1	0.07	1745.00	349000	DFT+CPDM	0.0	15.5	13.86	108	108	Left	5	0.008	1.459	0.012	0.012	0.010	0.009	34.8			
ANSI/IEEE C63.19-2 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g)		averaged over 1 gram					
Spatial Peak																		Body		1.6 W/kg (mW/g)		averaged over 1 gram					
Uncontrolled Exposure/General Population																											

Table 12-64 | Plot A44

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DnB [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 with Multi Tx Factor (1g SAR)	Plot #	Plimb [dBm]	Overall Plimb [dBm]	E5 Plimb [dBm]
Body	NR Band n66	40	CPKX	G	0867M	1:1	0.03	1745.00	349000	DFT+CPDM	0.0	14.5	14.08	1	108	Back	5	0.223	1.102	0.246	0.246	0.109				
Body	NR Band n66	40	CPKX	G	0867M	1:1	-0.18	1745.00	349000	DFT+CPDM	0.0	14.5	14.05	108	0	Back	5	0.325	1.109	0.380	0.380	0.124				
Body	NR Band n66	40	CPKX	G	0867M	1:1	-0.05	1745.00	349000	DFT+CPDM	0.0	14.5	14.08	1	108	Top	5	0.087	1.102	0.426	0.426	0.293	Plot	18.2		
Body	NR Band n66	40	CPKX	G	0867M	1:1	-0.09	1745.00	349000	DFT+CPDM	0.0	14.5	14.05	108	0	Top	5	0.089	1.109	0.399	0.399	0.274	18.4			
Body	NR Band n66	40	CPKX	G	0867M	1:1	0.19	1745.00	349000	CP-CPDM	0.0	14.5	14.02	108	108	Top	5	0.344	1.117	0.354	0.354	0.264	18.6			
Body	NR Band n66	40	CPKX	G	0867M	1:1	0.07	1745.00	349000	DFT+CPDM	0.0	14.5	14.08	1	108	Bottom	5	0.000	1.102	0.000	0.000	0.000	14.0			
Body	NR Band n66	40	CPKX	G	0867M	1:1	0.00	1745.00	349000	DFT+CPDM	0.0	14.5	14.05	108	0	Bottom	5	0.000	1.109	0.000	0.000	0.000	14.0			
Body	NR Band n66	40	CPKX	G	0867M	1:1	0.03	1745.00	349000	DFT+CPDM	0.0	14.5	14.08	1	108	Right	5	0.046	1.102	0.050	0.050	0.034	57.0			
Body	NR Band n66	40	CPKX	G	0867M	1:1	-0.01	1745.00	349000	DFT+CPDM	0.0	14.5	14.05	108	0	Right	5	0.045	1.109	0.050	0.050	0.034	27.5			
Body	NR Band n66	40	CPKX	G	0867M	1:1	0.00	1745.00	349000	DFT+CPDM	0.0	14.5	14.08	1	108	Left	5	0.055	1.102	0.017	0.017	0.012	32.1			
Body	NR Band n66	40	CPKX	G	0867M	1:1	0.02	1745.00	349000	DFT+CPDM	0.0	14.5	14.05	108	0	Left	5	0.013	1.109	0.014	0.014	0.010	32.0			
ANSI/IEEE C63.19-2 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak																		Body		1.6 W/kg (mW/g)		averaged over 1 gram				
Uncontrolled Exposure/General Population																										

12.12 NR Band n41 Standalone SAR

Table 12-65 Ant G F/C Head | Plot A45

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DnB [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]	Adjusted 1g SAR with Multi-Tx Factor [W/kg]	Exposure Ratio with Multi-Tx Factor [1g SAR]	Plot #	Plimb [dBm]	Overall Plimb [dBm]	EFS Plimb [dBm]
Head	NR Band n41	100	CPKX	G	0878M	1:1	-0.02	2592.99	118108	DFT+CPDM	0.0	17.0	16.69	1	273	Right Cheek	0	0.544	1.074	0.584	0.584	0.640	0.402	19.3			
Head	NR Band n41	100	CPKX	G	0878M	1:1	-0.06	2592.99	118108	DFT+CPDM	0.0	17.0	16.74	135	135	Right Cheek	0	0.504	1.062	0.588	0.588	0.650	0.405	19.3			
Head	NR Band n41	100	CPKX	G	0878M	1:1	0.00	2592.99	118108	CP-CPDM	0.0	17.0	16.74	135	135	Right Cheek	0	0.500	1.074	0.594	0.594	0.650	0.405	18.5			
Head	NR Band n41	100	CPKX	G	0878M	1:1	-0.01	2592.99	118108	DFT+CPDM	0.0	17.0	16.70	135	135	Right Tilt	0	0.735	1.062	0.759	0.759	0.830	0.521	18.1			
Head	NR Band n41	100	CPKX	G	0878M	1:1	-0.10	2592.99	118108	DFT+CPDM	0.0	17.0	16.69	1	273	Left Cheek	0	0.514	1.074	0.724	0.724	0.800	0.496	18.4			
Head	NR Band n41	100	CPKX	G	0878M	1:1	-0.01	2592.99	118108	DFT+CPDM	0.0	17.0	16.74	135	135	Left Cheek	0	0.516	1.062	0.720	0.720	0.795	0.495	18.4			
Head	NR Band n41	100	CPKX	G	0878M	1:1	-0.03	2592.99	118108	DFT+CPDM	0.0	17.0	16.69	1	273	Left Tilt	0	0.623	1.074	0.882	0.882	0.970	0.606	17.5			
Head	NR Band n41	100	CPKX	G	0878M	1:1	0.00	2592.99	118108	DFT+CPDM	0.0	17.0	16.74	135	135	Left Tilt	0	0.612	1.062	0.884	0.884	0.970	0.609	17.5			
Head	NR Band n41	100	CPKX	G	0878M	1:1	0.00	2592.99	118108	DFT+CPDM	0.0	17.0	16.63	270	0	Left Tilt	0	0.608	1.094	0.884	0.884	0.970	0.609	17.5			
Head	NR Band n41	100	CPKX	G	0878M	1:1	0.00	2592.99	118108	CP-CPDM	0.0	17.0	16.69	1	1	Left Tilt	0	0.603	1.111	0.947	0.947	1.040	0.603	17.3			
ANSI/IEEE C63.19-2 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g)		averaged over 1 gram					
Spatial Peak																		Body		1.6 W/kg (mW/g)		averaged over 1 gram					
Uncontrolled Exposure/General Population																											

Table 12-66 Ant B F/C Head

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DnB [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]	Adjusted 1g SAR with Multi-Tx Factor [W/kg]	Exposure Ratio with Multi-Tx Factor [1g SAR]	Plot #	Plimb [dBm]	Overall Plimb [dBm]	EFS Plimb [dBm]
Head	NR Band n41	100	CPKX	B	0867M	1:1	-0.12	2592.99	118108	DFT+CPDM	0.0	25.0	24.44	1	273	Right Cheek	0	0.606	1.138	0.605	0.605	0.685	0.396	17.6			
Head	NR Band n41	100	CPKX	B	0867M	1:1	0.00	2592.99	118108	DFT+CPDM	0.0	25.0	24.26	135	69	Right Cheek	0	0.609	1.138	0.606	0.606	0.685	0.396	17.6			
Head	NR Band n41	100	CPKX	B	0867M	1:1	-0.12	2592.99	118108	CP-CPDM	1.5	23.5	23.00	1	1	Right Cheek	0	0.603	1.122	0.606	0.613	0.743	0.399	17.9			
Head	NR Band n41	100	CPKX	B	0867M	1:1	-0.01	2592.99	118108	DFT+CPDM	0.0	25.0	24.26	135	69	Right Tilt	0	0.610	1.138	0.605	0.605	0.685	0.396	17.6			
Head	NR Band n41	100	CPKX	B	0867M	1:1	-0.10	2592.99	118108	DFT+CPDM	0.0	25.0	24.44	1	273	Right Tilt	0	0.603	1.186	0.607	0.607	0.743	0.399	17.9			
Head	NR Band n41	100	CPKX	B	0867M	1:1	-0.01	2592.99	118108	DFT+CPDM	0.0	25.0	24.44	1	273	Left Cheek	0	0.600	1.138	0.604	0.6						
Head	NR Band n41	100	CPKX	B	0867M	1:1	0.00	2592.99	118108	DFT+CPDM	0.0	25.0	24.26	135	69	Left Cheek	0	0.609	1.138	0.606	0.606	0.685	0.396	17.6			
Head	NR Band n41	100	CPKX	B	0867M	1:1	-0.12	2592.99	118108	CP-CPDM	1.5	23.5	23.00	1	1	Left Cheek	0	0.603	1.122	0.606	0.613	0.743	0.399	17.9			
Head	NR Band n41	100	CPKX	B	0867M	1:1	-0.01	2592.99	118108	DFT+CPDM	0.0	25.0	24.26	135	69	Left Tilt	0	0.610	1.138	0.605	0.605	0.685	0.396	17.6			
ANSI C63.19-2015 - SAFETY EVAL																		Head									
Unintentional Exposure/General Population																		1.6 W/kg (avg) averaged over 3 g/m									



Table 12-69 | Plot A47

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body worn/Hotspot	NR Band n41	100	QPSK	G	08178M	1:1	-0.05	2592.99	518598	DFT+OFDM	0.0	17.5	17.22	1	271	Back	5	0.017	1.067	0.872	0.872	0.960	0.600		18.0		
Body worn/Hotspot	NR Band n41	100	QPSK	G	08178M	1:1	-0.13	2592.99	518598	DFT+OFDM	0.0	17.5	17.22	135	138	Back	5	0.886	1.067	0.950	0.950	1.050	0.625		17.7		
Body worn/Hotspot	NR Band n41	100	QPSK	G	08178M	1:1	-0.05	2592.99	518598	DFT+OFDM	0.0	17.5	17.07	270	0	Back	5	0.024	1.024	1.020	1.020	1.120	0.750		17.4		
Body worn/Hotspot	NR Band n41	100	QPSK	G	08178M	1:1	-0.05	2592.99	518598	DFT+OFDM	0.0	17.5	17.07	1	1	Back	5	0.005	1.005	1.000	1.000	1.000	0.750		17.1		
Hotspot	NR Band n41	100	QPSK	G	08178M	1:1	-0.15	2592.99	518598	DFT+OFDM	0.0	17.5	17.22	1	271	Front	5	0.030	1.067	0.544	0.544	0.600	0.374		20.1		
Hotspot	NR Band n41	100	QPSK	G	08178M	1:1	-0.20	2592.99	518598	DFT+OFDM	0.0	17.5	17.22	135	138	Front	5	0.527	1.067	0.937	0.937	0.930	0.385		20.0		
Hotspot	NR Band n41	100	QPSK	G	08178M	1:1	-0.03	2592.99	518598	DFT+OFDM	0.0	17.5	17.22	1	271	Top	10	0.580	1.067	0.621	0.621	0.680	0.427		19.5		
Hotspot	NR Band n41	100	QPSK	G	08178M	1:1	-0.05	2592.99	518598	DFT+OFDM	0.0	17.5	17.22	135	138	Right	10	0.587	1.067	0.605	0.605	0.670	0.425		19.4		
Hotspot	NR Band n41	100	QPSK	G	08178M	1:1	-0.07	2592.99	518598	DFT+OFDM	0.0	17.5	17.22	1	271	Right	10	0.052	1.067	0.053	0.053	0.060	0.037		30.0		
Hotspot	NR Band n41	100	QPSK	G	08178M	1:1	-0.07	2592.99	518598	DFT+OFDM	0.0	17.5	17.22	135	138	Right	10	0.002	1.067	0.003	0.003	0.060	0.037		30.0		
ANSI/IEEE C63.19-2 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 12-70

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body worn/Hotspot	NR Band n41	100	QPSK	B	08811M	1:1	-0.02	2592.99	518598	DFT+OFDM	0.0	18.5	18.23	1	271	Back	5	0.100	1.064	0.543	0.543	0.600	0.171		21.1		
Body worn/Hotspot	NR Band n41	100	QPSK	B	08811M	1:1	-0.05	2592.99	518598	DFT+OFDM	0.0	18.5	18.15	135	138	Back	5	0.478	1.045	0.500	0.500	0.550	0.344		21.1		
Body worn/Hotspot	NR Band n41	100	QPSK	B	08811M	1:1	-0.09	2592.99	518598	DFT+OFDM	0.0	18.5	17.90	1	1	Back	5	0.478	1.146	0.448	0.448	0.600	0.177		21.1		
Hotspot	NR Band n41	100	QPSK	B	08811M	1:1	-0.05	2592.99	518598	DFT+OFDM	0.0	18.5	18.11	135	138	Front	5	0.517	1.064	0.134	0.134	0.140	0.085		21.1		
Hotspot	NR Band n41	100	QPSK	B	08811M	1:1	-0.06	2592.99	518598	DFT+OFDM	0.0	18.5	18.11	135	138	Front	5	0.429	1.045	0.110	0.110	0.120	0.076		28.0	21.1	
Hotspot	NR Band n41	100	QPSK	B	08811M	1:1	-0.05	2592.99	518598	DFT+OFDM	0.0	18.5	18.23	1	271	Bottom	10	0.213	1.064	0.269	0.269	0.300	0.185		24.1	17.5	
Hotspot	NR Band n41	100	QPSK	B	08811M	1:1	-0.05	2592.99	518598	DFT+OFDM	0.0	18.5	18.11	135	138	Bottom	10	0.215	1.045	0.146	0.146	0.150	0.091		24.1		
Hotspot	NR Band n41	100	QPSK	B	08811M	1:1	0.18	2592.99	518598	DFT+OFDM	0.0	18.5	18.23	1	271	Left	10	0.007	1.064	0.023	0.023	0.030	0.051		34.0		
Hotspot	NR Band n41	100	QPSK	B	08811M	1:1	0.02	2592.99	518598	DFT+OFDM	0.0	18.5	18.23	135	138	Left	10	0.008	1.045	0.000	0.000	0.000	0.004		35.5		
ANSI/IEEE C63.19-2 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 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 DfB [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body	NR Band n41	100	QPSK	G	08178M	1:1	-0.05	2592.99	518598	DFT+OFDM	0.0	12.5	12.35	1	271	Back	5	0.261	1.035	0.291	0.291	0.320	0.200		17.8		
Body	NR Band n41	100	QPSK	G	08178M	1:1	-0.06	2592.99	518598	DFT+OFDM	0.0	12.5	12.25	135	138	Back	5	0.261	1.059	0.300	0.300	0.330	0.207		17.7		
Body	NR Band n41	100	QPSK	G	08178M	1:1	-0.07	2592.99	518598	DFT+OFDM	0.0	12.5	12.35	1	271	Top	5	0.236	1.035	0.337	0.337	0.370	0.232		17.2		
Body	NR Band n41	100	QPSK	G	08178M	1:1	-0.02	2592.99	518598	DFT+OFDM	0.0	12.5	12.25	130	138	Top	5	0.244	1.059	0.343	0.343	0.380	0.235		17.1		
Body	NR Band n41	100	QPSK	G	08178M	1:1	-0.04	2592.99	518598	CP-OFDM	0.0	12.5	11.81	1	1	Top	5	0.256	1.172	0.300	0.300	0.330	0.207		17.7		
Body	NR Band n41	100	QPSK	G	08178M	1:1	-0.01	2592.99	518598	DFT+OFDM	0.0	12.5	12.35	1	271	Bottom	5	0.000	1.035	0.000	0.000	0.000	0.000		52.2	17.1	
Body	NR Band n41	100	QPSK	G	08178M	1:1	0.08	2592.99	518598	DFT+OFDM	0.0	12.5	12.25	135	138	Bottom	5	0.000	1.059	0.000	0.000	0.000	0.000		52.2		
Body	NR Band n41	100	QPSK	G	08178M	1:1	-0.02	2592.99	518598	DFT+OFDM	0.0	12.5	12.35	1	271	Right	5	0.006	1.035	0.008	0.008	0.070	0.047		24.1		
Body	NR Band n41	100	QPSK	G	08178M	1:1	-0.17	2592.99	518598	DFT+OFDM	0.0	12.5	12.25	135	138	Right	5	0.009	1.059	0.073	0.073	0.100	0.061		23.8		
Body	NR Band n41	100	QPSK	G	08178M	1:1	-0.05	2592.99	518598	DFT+OFDM	0.0	12.5	12.35	1	271	Left	5	0.004	1.035	0.014	0.014	0.020	0.010		30.8		
Body	NR Band n41	100	QPSK	G	08178M	1:1	-0.03	2592.99	518598	DFT+OFDM	0.0	12.5	12.25	135	138	Left	5	0.004	1.059	0.015	0.015	0.020	0.010		30.7		
ANSI/IEEE C63.19-2 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Table 12-72 | Plot A48

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [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]	Adjusted 1g SAR with Multi-Tx Factor [W/kg]	Exposure Ratio with Multi-Tx Factor [W/kg]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body	NR Band n41	100	QPSK	B	08811M	1:1	-0.05	2592.99	518598	DFT+OFDM	0.0	14.5	14.19	1	271	Back	5	0.308	1.014	0.386	0.386	0.420	0.260		18.6		
Body	NR Band n41	100	QPSK	B	08811M	1:1	-0.03	2592.99	518598	DFT+OFDM	0.0	14.5	14.15	135	138	Back	5	0.356	1.084	0.386	0.386	0.420	0.260		18.6		
Body	NR Band n41	100	QPSK	B	08811M	1:1	-0.03	2592.99	518598	CP-OFDM	0.0	14.5	14.07	1	1	Back	5	0.408	1.104	0.450	0.450	0.500	0.309	Plot	17.9		
Body	NR Band n41	100	QPSK	B	08811M	1:1	-0.03	2592.99	518598	DFT+OFDM	0.0	14.5	14.18	1	271	Top	5	0.308	1.014	0.386	0.386	0.420	0.260		18.6		
Body	NR Band n41	100	QPSK	B	08811M	1:1	-0.03	2592.99	518598	DFT+OFDM	0.0	14.5	14.15	135	138	Top	5	0.000	1.084	0.000	0.000	0.000	0.000		54.1		
Body	NR Band n41	100	QPSK	B	08811M	1:1	-0.02	2592.99	518598	DFT+OFDM	0.0	14.5	14.10	1	271	Bottom	5	0.287	1.014	0.308	0.308	0.340	0.212		19.6	17.9	
Body	NR Band n41	100	QPSK	B	08811M	1:1	-0.05	2592.99	518598	DFT+OFDM	0.0	14.5	14.15	135	138	Bottom	5	0.287	1.084	0.312	0.312	0.340	0.215		19.5	13.5	
Body	NR Band n41	100	QPSK	B	08811M	1:1	-0.08	2592.99	518598	DFT+OFDM	0.0	14.5	14.19	1	271	Right	5	0.005	1.024	0.016	0.016	0.020	0.011		32.4		
Body	NR Band n41	100	QPSK	B	08811M	1:1	-0.15	2592.99	518598	DFT+OFDM	0.0	14.5	14.15	135	138	Right	5	0.017	1.084	0.018	0.018	0.020	0.012		31.8		
Body	NR Band n41	100	QPSK	B	08811M	1:1	-0.02	2592.99	518598	DFT+OFDM	0.0	14.5	14.15	135	138	Left	5	0.014	1.002	0.002	0.002	0.000	0.000		40.1		
Body	NR Band n41	100	QPSK	B	08811M	1:1	-0.00	2592.99	518598	DFT+OFDM	0.0	14.5	14.15	135	138	Left	5	0.004	1.084	0.002	0.002	0.000	0.000		41.1		
ANSI/IEEE C63.19-2 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram									

12.13 2.4 GHz WIFI SISO Standalone SAR

Table 12-73 Ant F F/C Head | Plot A49

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power DfB [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]	Adjusted
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Table 12-75 Ant F F/O Head | Plot A50

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	F	0973M	99.16	0.03	2412.00	1	1.0	20.0	19.38	Right Cheek	0	0.810	1.153	1.008	0.941	0.941	0.941	0.988		20.2		
Head	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	F	0973M	99.16	0.00	2412.00	6	1.0	20.0	19.06	Right Cheek	0	0.827	1.242	1.008	1.035	1.035	1.035	1.047	Plot	19.8		
Head	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	F	0973M	99.16	0.00	2412.00	9	1.0	20.0	19.06	Right Cheek	0	0.827	1.242	1.008	1.035	1.035	1.035	1.047		19.8		
Head	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	F	0973M	99.16	0.01	2462.00	11	1.0	20.0	19.08	Right Cheek	0	0.729	1.236	1.008	0.908	0.908	0.908	0.908		20.4		19.7
Head	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	F	0973M	99.16	0.01	2412.00	1	1.0	20.0	19.38	Right Tilt	0	0.844	1.153	1.008	0.923	0.923	0.923	0.935		21.9		
Head	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	F	0973M	99.16	0.06	2412.00	1	1.0	20.0	19.38	Left Cheek	0	0.093	1.153	1.008	0.108	0.108	0.108	0.108		29.5		
Head	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	F	0973M	99.16	-0.10	2412.00	1	1.0	20.0	19.38	Left Tilt	0	0.116	1.153	1.008	0.135	0.135	0.135	0.084		28.6		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Head										
Spatial Peak															1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population															averaged over 1 gram										

Note: Blue entry represents variability measurement

Table 12-76 | Plot A52

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]	EFS Plimit [dBm]
Body	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	H	0973M	98.74	0.00	2412.00	1	1.0	18.0	17.45	Back	5	0.665	1.135	1.013	0.765	0.765	0.478		19.1		
Body	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	H	0973M	98.74	0.04	2412.00	1	1.0	18.0	17.45	Top	5	0.094	1.135	1.013	0.062	0.062	0.039		30.0		
Body	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	H	0973M	98.74	0.12	2412.00	1	1.0	18.0	17.45	Bottom	5	0.015	1.135	1.013	0.017	0.017	0.011		35.6		
Body	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	H	0973M	98.74	0.00	2412.00	1	1.0	18.0	17.45	Right	5	0.795	1.135	1.013	0.914	0.914	0.571		18.3		17.0
Body	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	H	0973M	98.74	0.01	2412.00	6	1.0	18.0	17.18	Right	5	0.747	1.201	1.013	0.902	0.902	0.564		18.4		
Body	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	H	0973M	98.74	0.01	2462.00	11	1.0	18.0	17.09	Right	5	0.118	1.231	1.013	1.022	1.022	0.639	Plot	17.9		
Body	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	H	0973M	98.74	0.01	2412.00	1	1.0	18.0	17.45	Left	5	0.004	1.135	1.013	0.005	0.005	0.003		41.1		
ANSI/IEEE C95.1 1982 - SAFETY LIMIT															Body									
Spatial Peak															1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population															averaged over 1 gram									

Table 12-77

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]	Adjusted 1g SAR with Multi-Tx Factor [W/kg]	Exposure Ratio with Multi-Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	F	0973M	99.16	0.04	2412.00	1	1.0	18.0	17.61	Back	5	0.139	1.094	1.008	0.183	0.183	0.640	0.600		20.3		
Body	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	F	0973M	99.16	0.00	2412.00	1	1.0	18.0	17.61	Top	5	0.563	1.094	1.008	0.621	0.621	0.680	0.627		20.0		
Body	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	F	0973M	99.16	0.04	2412.00	1	1.0	18.0	17.61	Bottom	5	0.000	1.094	1.008	0.000	0.000	0.000	0.000		37.5		
Body	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	F	0973M	99.16	0.07	2412.00	1	1.0	18.0	17.61	Right	5	0.104	1.094	1.008	0.115	0.115	0.130	0.079		27.1		17.0
Body	2.4 GHz W/F/ IEEE 802.11b	22	DSSS	F	0973M	99.16	-0.02	2412.00	1	1.0	18.0	17.61	Left	5	0.019	1.094	1.008	0.021	0.021	0.020	0.014		34.7		
ANSI/IEEE C95.1 1982 - SAFETY LIMIT															Body										
Spatial Peak															1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population															averaged over 1 gram										

12.14 2.4 GHz WIFI MIMO Standalone SAR

Table 12-78 F/C Head

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 use) [dBm]	Conducted Power (2nd use) [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	2.4 GHz W/F/ IEEE 802.11a	20	OFDM	MIMO	0972M	99.07	-0.07	2412.00	1	6.0	18.0	17.30	18.0	17.25	Right Cheek	0	0.083	1.189	1.009	0.100	0.658	0.658	0.411		28.0		
Head	2.4 GHz W/F/ IEEE 802.11a	20	OFDM	MIMO	0972M	99.07	0.00	2412.00	1	6.0	18.0	17.30	18.0	17.25	Right Tilt	0	0.097	1.189	1.009	0.116	0.768	0.768	0.480		27.3		26.2
Head	2.4 GHz W/F/ IEEE 802.11a	20	OFDM	MIMO	0972M	99.07	0.00	2412.00	1	6.0	18.0	17.30	18.0	17.25	Left Cheek	0	0.096	1.189	1.009	0.115	0.761	0.761	0.475		27.3		
Head	2.4 GHz W/F/ IEEE 802.11a	20	OFDM	MIMO	0972M	99.07	0.06	2412.00	1	6.0	18.0	17.30	18.0	17.25	Left Tilt	0	0.122	1.189	1.009	0.146	0.967	0.967	0.604		26.3		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Head												
Spatial Peak															1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population															averaged over 1 gram												

Note: To achieve the 18 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18 dBm.

Table 12-79 F/O Head

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 use) [dBm]	Conducted Power (2nd use) [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	2.4 GHz W/F/ IEEE 802.11a	20	OFDM	MIMO	0973	99.07	-0.01	2412.00	1	6.0	18.0	17.30	18.0	17.35	Right Cheek	0	0.181	1.189	1.009	0.457	0.955	0.955	0.597		21.4		
Head	2.4 GHz W/F/ IEEE 802.11a	20	OFDM	MIMO	0973	99.07	0.00	2412.00	1	6.0	18.0	17.30	18.0	17.35	Right Tilt	0	0.147	1.189	1.009	0.402	0.865	0.865	0.545		21.8		
Head	2.4 GHz W/F/ IEEE 802.11a	20	OFDM	MIMO	0973	99.07	0.00	2412.00	1	6.0	18.0	17.30	18.0	17.35	Left Cheek	0	0.189	1.189	1.009	0.347	0.724	0.724	0.453		22.6		21.2
Head	2.4 GHz W/F/ IEEE 802.11a	20	OFDM	MIMO	0973	99.07	0.00	2412.00	1	6.0	18.0	17.30	18.0	17.35	Left Tilt	0	0.098	1.189	1.009	0.165	0.241	0.241	0.151		27.5		
ANSI/IEEE C95.1 1982 - SAFETY LIMIT															Head												
Spatial Peak															1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population															averaged over 1 gram												

Note: To achieve the 21 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18 dBm.

Table 12-80

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Peak Number	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd int.) [dBm]	Conducted Power (2nd int.) [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Neckstrap	2.4 GHz W/F/ IEEE 802.11a	20	OFDM	MIMO	2	0973M	99.07	0.00	2412.00	1	6.0	18.0	17.30	18.0	17.25	Back	5	0.750	1.189	1.009	0.350	0.784	0.784	0.430		22.5		
Body-worn/Neckstrap	2.4 GHz W/F/ IEEE 802.11a	20	OFDM	MIMO	1	0973M	99.07	-0.01	2412.00	1	6.0	18.0	17.30	18.0	17.25	Back	5	0.262	1.189	1.009	0.124	0.703	0.703	0.430		23.0		
Neckstrap	2.4 GHz W/F/ IEEE 802.11a	2	OFDM	MIMO	2	0973M	99.07	0.00	2412.00	1	6.0	18.0	17.30	18.0	17.25	Back	5	0.001	1.189	1.009	0.001	0.703	0.703	0.430		23.0		
Neckstrap	2.4 GHz W/F/ IEEE 802.11a	2	OFDM	MIMO	N/A	0973M	99.07	-0.04	2412.00	1	6.0	18.0	17.30	18.0	17.25	Back	5	0.003	1.189	1.009	0.003	0.703	0.703	0.430		23.0		
Neckstrap	2.4 GHz W/F/ IEEE 802.11a	2	OFDM	MIMO	N/A	0973M	99.07	0.00	2412.00	1	6.0	18.0	17.30	18.0	17.25	Back	5	0.001	1.189	1.009	0.001	0.703	0.703	0.430		23.0		
Neckstrap	2.4 GHz W/F/ IEEE 802.11a	20	OFDM	MIMO	N/A	0973M	99.07	0.00	2412.00	1	6.0	18.0	17.30	18.0	17.25	Left	5	0.018	1.189	1.009	0.022	0.608	0.608	0.430		34.0		
Spatial Peak										Back																		
Uncontrolled Exposure / General Population										1.6 W/kg (mW/g) sustained over 16 years																		



12.15 5 GHz WIFI SISO Standalone SAR

Table 12-82 Ant F F/O Head

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EPS Pinch [dBm]
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.04	5270.00	54	U-NI-2A	13.5	18.0	17.35	Right Cheek	0	0.348	1.161	1.032	0.441	0.900	0.900	0.963	21.5			
Head	5 GHz WUFI / IEEE 802.11a	80	OFDM	F	0979M	95.51	0.02	5690.00	138	U-NI-2C	29.3	18.0	17.26	Right Cheek	0	0.345	1.186	1.028	0.440	0.978	0.978	0.923	21.1			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.01	5795.00	159	U-NI-3	13.5	18.0	17.59	Right Cheek	0	0.319	1.089	1.032	0.362	0.739	0.739	0.462	22.4			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	-0.09	5875.00	175	U-NI-4	13.5	18.0	17.63	Right Cheek	0	0.218	1.089	1.032	0.245	0.520	0.520	0.313	24.1			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.07	5270.00	54	U-NI-2A	13.5	18.0	17.26	Right Tr	0	0.362	1.161	1.032	0.454	0.886	0.886	0.954	21.6			
Head	5 GHz WUFI / IEEE 802.11a	80	OFDM	F	0979M	95.51	0.02	5690.00	138	U-NI-2C	29.3	18.0	17.26	Right Tr	0	0.351	1.186	1.028	0.447	0.993	0.993	0.923	21.1			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.08	5795.00	159	U-NI-3	13.5	18.0	17.59	Right Tr	0	0.314	1.089	1.032	0.268	0.727	0.727	0.454	22.4			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.05	5875.00	175	U-NI-4	13.5	18.0	17.63	Right Tr	0	0.338	1.089	1.032	0.267	0.546	0.546	0.341	23.7			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	-0.03	5270.00	54	U-NI-2A	13.5	18.0	17.35	Left Cheek	0	0.083	1.161	1.032	0.099	0.203	0.203	0.127	28.0			
Head	5 GHz WUFI / IEEE 802.11a	80	OFDM	F	0979M	95.51	0.07	5690.00	138	U-NI-2C	29.3	18.0	17.26	Left Cheek	0	0.049	1.186	1.028	0.068	0.139	0.139	0.087	29.0			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.06	5795.00	159	U-NI-3	13.5	18.0	17.59	Left Cheek	0	0.040	1.089	1.032	0.045	0.093	0.093	0.058	31.4			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.06	5875.00	175	U-NI-4	13.5	18.0	17.63	Left Cheek	0	0.045	1.089	1.032	0.051	0.103	0.103	0.064	30.9			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	-0.13	5270.00	54	U-NI-2A	13.5	18.0	17.26	Left Tr	0	0.095	1.161	1.032	0.114	0.232	0.232	0.149	27.4			
Head	5 GHz WUFI / IEEE 802.11a	80	OFDM	F	0979M	95.51	0.06	5690.00	138	U-NI-2C	29.3	18.0	17.26	Left Tr	0	0.060	1.186	1.028	0.063	0.170	0.170	0.106	28.7			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.11	5795.00	159	U-NI-3	13.5	18.0	17.59	Left Tr	0	0.047	1.089	1.032	0.053	0.109	0.109	0.069	30.7			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.03	5875.00	175	U-NI-4	13.5	18.0	17.63	Left Tr	0	0.056	1.089	1.032	0.053	0.128	0.128	0.080	30.0			
ANSI/IEEE C63.19-2 - SAFETY LIMIT																Head										
Spatial Peak																1.4 W/kg (mW/g)										
Uncontrolled Exposure/General Population																averaged over 1 gram										

Table 12-83 Ant E F/O Head

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Pinch (dBm)	Overall Pinch (dBm)	EPS Pinch (dBm)
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	E	0979M	95.27	-0.03	5270.00	54	U-NI-2A	13.5	18.0	17.62	Right Cheek	0	0.064	1.001	1.050	0.073	0.266	0.266	0.186	29.3			
Head	5 GHz WUFI / IEEE 802.11a	80	OFDM	E	0979M	94.93	0.07	5610.00	122	U-NI-2C	29.3	18.0	17.17	Right Cheek	0	0.094	1.211	1.050	0.105	0.435	0.435	0.272	27.2			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	E	0979M	95.27	0.06	5795.00	159	U-NI-3	13.5	18.0	17.13	Right Cheek	0	0.103	1.222	1.050	0.119	0.453	0.453	0.271	27.2			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	E	0979M	95.27	0.05	5875.00	175	U-NI-4	13.5	18.0	17.07	Right Cheek	0	0.099	1.239	1.050	0.129	0.468	0.468	0.293	26.9			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	E	0979M	95.27	0.01	5270.00	54	U-NI-2A	13.5	18.0	17.62	Right Tr	0	0.053	1.091	1.050	0.061	0.221	0.221	0.187	30.1			
Head	5 GHz WUFI / IEEE 802.11a	80	OFDM	E	0979M	94.93	0.09	5610.00	122	U-NI-2C	29.3	18.0	17.17	Right Tr	0	0.097	1.211	1.050	0.124	0.449	0.449	0.281	27.0			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	E	0979M	95.27	0.08	5795.00	159	U-NI-3	13.5	18.0	17.13	Right Tr	0	0.104	1.222	1.050	0.133	0.484	0.484	0.303	26.7			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	E	0979M	95.27	0.05	5875.00	175	U-NI-4	13.5	18.0	17.07	Right Tr	0	0.109	1.239	1.050	0.142	0.515	0.515	0.320	26.4			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	E	0979M	95.27	-0.13	5270.00	54	U-NI-2A	13.5	18.0	17.62	Left Cheek	0	0.138	1.091	1.050	0.181	0.657	0.657	0.411	25.4			
Head	5 GHz WUFI / IEEE 802.11a	80	OFDM	E	0979M	94.93	0.07	5610.00	122	U-NI-2C	29.3	18.0	17.17	Left Cheek	0	0.135	1.211	1.050	0.185	0.674	0.674	0.420	25.8			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	E	0979M	95.27	0.02	5795.00	159	U-NI-3	13.5	18.0	17.13	Left Cheek	0	0.132	1.222	1.050	0.169	0.615	0.615	0.384	25.7			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	E	0979M	95.27	0.01	5875.00	175	U-NI-4	13.5	18.0	17.07	Left Cheek	0	0.094	1.239	1.050	0.122	0.444	0.444	0.278	27.1			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	E	0979M	95.27	0.01	5270.00	54	U-NI-2A	13.5	18.0	17.62	Left Tr	0	0.045	1.091	1.050	0.057	0.187	0.187	0.117	30.8			
Head	5 GHz WUFI / IEEE 802.11a	80	OFDM	E	0979M	94.93	0.03	5610.00	122	U-NI-2C	29.3	18.0	17.17	Left Tr	0	0.051	1.211	1.050	0.065	0.236	0.236	0.148	29.8			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	E	0979M	95.27	0.08	5795.00	159	U-NI-3	13.5	18.0	17.13	Left Tr	0	0.044	1.222	1.050	0.044	0.148	0.148	0.091	31.6			
Head	5 GHz WUFI / IEEE 802.11a	40	OFDM	E	0979M	95.27	0.03	5875.00	175	U-NI-4	13.5	18.0	17.07	Left Tr	0	0.065	1.239	1.050	0.077	0.311	0.311	0.201	27.6			
ANSI/IEEE C63.19-2 - SAFETY LIMIT																Head										
Spatial Peak																1.4 W/kg (mW/g)				averaged over 1 gram						
Uncontrolled Exposure/General Population																										

Table 12-84

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EPS Pinch [dBm]
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.05	5270.00	54	U-NI-2A	13.5	17.0	16.42	Back	5	0.464	1.443	1.032	0.547	0.547	0.600	0.376	19.6			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	F	0979M	95.51	0.01	5610.00	122	U-NI-2C	29.3	17.0	15.75	Back	5	0.361	1.334	1.028	0.563	0.563	0.620	0.387	19.4			
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.07	5795.00	151	U-NI-3	13.5	17.0	16.00	Back	5	0.436	1.259	1.032	0.564	0.564	0.620	0.388	19.4			
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.02	5835.00	167	U-NI-4	13.5	17.0	16.00	Back	5	0.381	1.269	1.032	0.381	0.381	0.420	0.262	21.1			
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.06	5270.00	54	U-NI-2A	13.5	17.0	16.42	Top	5	0.545	1.443	1.032	0.643	0.643	0.710	0.442	18.9			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	F	0979M	95.53	0.07	5610.00	122	U-NI-2C	29.3	17.0	15.75	Top	5	0.339	1.334	1.028	0.515	0.515	0.570	0.334	19.8			
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	-0.10	5795.00	159	U-NI-3	13.5	17.0	16.00	Top	5	0.354	1.269	1.032	0.460	0.460	0.510	0.317	20.3			
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	-0.03	5835.00	167	U-NI-4	13.5	17.0	16.00	Top	5	0.278	1.259	1.032	0.361	0.361	0.400	0.249	21.4			
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.07	5270.00	54	U-NI-2A	13.5	17.0	16.42	Bottom	5	0.000	1.443	1.032	0.000	0.000	0.000	0.000	35.0			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	F	0979M	95.51	0.02	5610.00	122	U-NI-2C	29.3	17.0	15.75	Bottom	5	0.000	1.334	1.028	0.000	0.000	0.000	0.000	35.0			
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.04	5795.00	151	U-NI-3	13.5	17.0	16.00	Bottom	5	0.000	1.259	1.032	0.000	0.000	0.000	0.000	35.0			
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.03	5835.00	167	U-NI-4	13.5	17.0	16.00	Bottom	5	0.000	1.259	1.032	0.000	0.000	0.000	0.000	35.0			
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.05	5270.00	54	U-NI-2A	13.5	17.0	16.42	Right	5	0.464	1.443	1.032	0.547	0.547	0.600	0.376	19.6			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	F	0979M	95.51	0.02	5610.00	122	U-NI-2C	29.3	17.0	15.75	Right	5	0.361	1.334	1.028	0.563	0.563	0.620	0.387	19.4			
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.08	5795.00	151	U-NI-3	13.5	17.0	16.00	Right	5	0.436	1.259	1.032	0.564	0.564	0.620	0.388	19.4			
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.05	5270.00	54	U-NI-2A	13.5	17.0	16.42	Left	5	0.464	1.443	1.032	0.547	0.547	0.600	0.376	19.6			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	F	0979M	95.51	0.02	5610.00	122	U-NI-2C	29.3	17.0	15.75	Left	5	0.361	1.334	1.028	0.563	0.563	0.620	0.387	19.4			
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.05	5795.00	151	U-NI-3	13.5	17.0	16.00	Left	5	0.436	1.259	1.032	0.563	0.563	0.620	0.387	19.4			
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	F	0979M	96.87	0.01	5835.00	167	U-NI-4	13.5	17.0	16.00	Left	5	0.381	1.259	1.032	0.381	0.381	0.420	0.262	21.1			
ANSI/IEEE C95.1-2019 - SAFETY LIMIT																										
Spatial Peak																Body										
Uncontrolled Exposure, General Population																1.6 W/kg (W/kg) averaged over 1 gram										



12.16 5 GHz WIFI MIMO Standalone SAR

Table 12-86 F/O Head | Plot A54

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 unit) [dBm]	Conducted Power (2nd unit) [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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	97.82	0.02	5270.00	54	U-NI-2A	27.0	18.0	17.52	18.0	17.58	Right Cheek	0	0.145	1.117	1.022	0.194	0.168	0.168	0.480	22.0			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	99.14	0.07	5690.00	118	U-NI-2C	28.5	18.0	17.30	18.0	16.80	Right Cheek	0	0.152	1.118	1.009	0.468	0.513	0.513	0.571	21.2			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	97.82	0.03	5795.00	159	U-NI-2C	27.0	18.0	17.60	18.0	17.73	Right Cheek	0	0.148	1.225	1.022	0.273	0.332	0.332	0.333	21.6			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	97.82	0.05	5875.00	175	U-NI-2A	27.0	18.0	17.88	18.0	17.35	Right Cheek	0	0.184	1.225	1.022	0.228	0.484	0.484	0.278	24.4			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	97.82	0.00	5270.00	54	U-NI-2A	27.0	18.0	17.53	18.0	17.58	Right Tilt	0	0.145	1.117	1.022	0.193	0.172	0.172	0.233	25.3			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	99.14	0.02	5690.00	118	U-NI-2C	28.5	18.0	17.30	18.0	16.80	Right Tilt	0	0.148	1.118	1.009	0.463	0.502	0.502	0.544	21.3			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	97.82	0.04	5795.00	159	U-NI-2C	27.0	18.0	17.60	18.0	17.73	Right Tilt	0	0.148	1.225	1.022	0.228	0.484	0.484	0.278	24.4			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	97.82	0.08	5875.00	175	U-NI-2A	27.0	18.0	17.88	18.0	17.32	Right Tilt	0	0.184	1.225	1.022	0.245	0.478	0.478	0.299	24.1			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	97.82	0.00	5270.00	54	U-NI-2A	27.0	18.0	17.53	18.0	17.58	Left Cheek	0	0.145	1.117	1.022	0.193	0.172	0.172	0.233	25.3			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	99.14	0.05	5690.00	118	U-NI-2C	28.5	18.0	17.30	18.0	16.80	Left Cheek	0	0.155	1.118	1.009	0.118	0.020	0.020	0.108	22.9			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	97.82	0.03	5795.00	159	U-NI-2C	27.0	18.0	17.60	18.0	17.33	Left Cheek	0	0.148	1.225	1.022	0.270	0.527	0.527	0.329	23.6			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	97.82	0.13	5815.00	197	U-NI-2A	27.0	18.0	17.98	18.0	17.99	Left Cheek	0	0.199	1.195	1.022	0.099	0.184	0.184	0.121	26.0			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	97.82	0.05	5270.00	53	U-NI-2A	27.0	18.0	17.53	18.0	17.68	Left Tilt	0	0.133	1.117	1.022	0.127	0.247	0.247	0.134	26.9			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	99.14	0.07	5690.00	118	U-NI-2C	28.5	18.0	17.30	18.0	16.80	Left Tilt	0	0.140	1.118	1.009	0.130	0.240	0.240	0.134	26.9			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	97.82	0.08	5795.00	159	U-NI-2C	27.0	18.0	17.60	18.0	17.33	Left Tilt	0	0.186	1.225	1.022	0.081	0.130	0.130	0.089	28.8			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	0979M	97.82	0.00	5270.00	54	U-NI-2A	27.0	18.0	17.58	18.0	17.58	Left Tilt	0	0.149	1.117	1.022	0.189	0.189	0.189	0.075	30.1			
ANSI/IEEE C63.19-2 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																												
Note: To achieve the 21 dBm maximum allowed SAR power shown in the documentation, each antenna transmits at a maximum allowed power of 18 dBm.																												
Reported 1g SAR 1.6 W/kg (mW/g) averaged over 10 min																												

Note: To achieve the 21 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18 dBm.

Table 12-87

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 unit) [dBm]	Conducted Power (2nd unit) [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 with Multi Tx Factor [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.05	5270.00	54	U-NI-2A	27.0	17.0	16.16	17.0	16.82	Back	5	0.107	1.112	1.022	0.680	0.680	0.468	18.6			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	99.14	0.09	5610.00	122	U-NI-2C	28.5	17.0	15.63	17.0	15.94	Back	5	0.104	1.171	1.005	0.672	0.672	0.486	18.5			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.03	5795.00	159	U-NI-2C	27.0	17.0	15.85	17.0	15.70	Back	5	0.102	1.185	1.022	0.760	0.760	0.510	19.0			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.00	5815.00	167	U-NI-2A	27.0	17.0	15.95	17.0	15.70	Back	5	0.120	1.185	1.022	1.059	1.059	0.728	16.7			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.03	5815.00	175	U-NI-2A	27.0	17.0	15.90	17.0	15.70	Back	5	0.120	1.185	1.022	1.059	1.059	0.727	16.7			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.18	5270.00	54	U-NI-2A	27.0	17.0	16.16	17.0	15.82	Top	5	0.140	1.112	1.022	0.885	0.585	0.460	19.3			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	99.14	0.00	5610.00	122	U-NI-2C	28.5	17.0	15.63	17.0	15.94	Top	5	0.102	1.171	1.005	0.672	0.672	0.486	18.5			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.14	5795.00	159	U-NI-2C	27.0	17.0	15.85	17.0	15.70	Top	5	0.122	1.185	1.022	0.798	0.798	0.549	17.9			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.00	5815.00	167	U-NI-2A	27.0	17.0	15.95	17.0	15.70	Top	5	0.120	1.185	1.022	0.985	0.985	0.674	17.0			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.02	5795.00	159	U-NI-2C	27.0	17.0	15.85	17.0	15.70	Top	5	0.102	1.185	1.022	0.845	0.845	0.588	17.0			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.08	5270.00	54	U-NI-2A	27.0	17.0	16.16	17.0	15.82	Bottom	5	0.105	1.112	1.022	0.623	0.623	0.504	18.6			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	99.14	0.06	5610.00	122	U-NI-2C	28.5	17.0	15.63	17.0	15.94	Bottom	5	0.095	1.171	1.005	0.607	0.607	0.468	18.6			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.05	5795.00	155	U-NI-2C	27.0	17.0	15.80	17.0	15.70	Bottom	5	0.102	1.180	1.022	0.623	0.623	0.505	18.4			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.04	5270.00	54	U-NI-2A	27.0	17.0	16.16	17.0	15.82	Right	5	0.140	1.112	1.022	0.334	0.334	0.320	21.7			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	99.14	0.05	5610.00	122	U-NI-2C	28.5	17.0	15.63	17.0	15.94	Right	5	0.103	1.171	1.009	0.213	0.213	0.134	22.0			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.06	5795.00	155	U-NI-2C	27.0	17.0	15.80	17.0	15.70	Right	5	0.140	1.180	1.022	0.338	0.338	0.310	21.7			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.04	5815.00	167	U-NI-2A	27.0	17.0	15.95	17.0	15.70	Right	5	0.180	1.185	1.022	0.265	0.265	0.183	22.7			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.10	5270.00	54	U-NI-2A	27.0	17.0	16.16	17.0	15.84	Left	5	0.102	1.112	1.022	0.838	0.838	0.625	18.4			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	99.14	0.03	5610.00	122	U-NI-2C	28.5	17.0	15.63	17.0	15.94	Left	5	0.102	1.171	1.009	0.622	0.622	0.505	18.5			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.00	5715.00	133	U-NI-2C	27.0	17.0	15.76	17.0	15.76	Left	5	0.100	1.180	1.022	0.614	0.614	0.480	18.5			
Body	5 GHz WIFI / IEEE 802.11ac	40	OFDM	MIMO	0979M	97.82	0.00	5815.00	167	U-NI-2A	27.0	17.0	15.95	17.0	15.70	Left	5	0.103	1.185	1.022	0.611	0.611	0.480	18.5			
ANSI/IEEE C63.19-2 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																											

Note: To achieve the 20 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17 dBm.

12.17 6 GHz WIFI SISO Standalone SAR and APD

Table 12-88 Ant F F/O Head

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]	Adjusted 1g SAR with Multi-Tx Factor [W/kg]	Exposure Ratio with Multi-Tx Factor [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	6 GHz WIFI / IEEE 802.11ax	40	OFDM	F	0979M	99.27	0.04	5965.00	3	16.3	17.0	16.61	Right Cheek	0	0.143	1.094	1.007	0.158	0.194	0.194	0.621	25.0			
Head	6 GHz WIFI / IEEE 802.11ax	40	OFDM	F	0979M	99.27	0.06	5965.00	3	16.3	17.0	16.61	Right Tilt	0	0.129	1.094	1.007	0.142	0.897	0.561	25.0				
Head	6 GHz WIFI / IEEE 802.11ax	40	OFDM	F	0979M	99.27	0.01	5965.00	3	16.3	17.0	16.61	Left Cheek	0	0.028	1.094	1.007	0.031	0.195	0.195	0.122	22.1		25.0	
Head	6 GHz WIFI / IEEE 802.11ax	40	OFDM	F	0979M	99.27	0.16	5965.00	3	16.3	17.0	16.61	Left Tilt	0	0.031	1.094	1.007	0.034	0.215	0.215	0.134	21.6			
ANSI/IEEE C63.19-2 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
															Head										
															1.6 W/kg										
															averaged over 10 min										

Head
1.6 W/kg (mW/g)
averaged over 1 gram

Exposure	Band / Mode	Bandwidth [MHz]
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Table 12-90

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	P1st #	P1mit [dBm]	Overall P1mit [dBm]	EPS P1mit [dBm]
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.03	6025.00	15	68.1	15.0	14.32	Back	5	0.114	1.169	1.004	0.134	0.134	0.150	0.092				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.06	6025.00	15	68.1	15.0	14.32	Top	5	0.149	1.169	1.004	0.175	0.175	0.200	0.130				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.04	6345.00	79	68.1	15.0	14.32	Top	5	0.104	1.169	1.004	0.125	0.125	0.140	0.086				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.04	6505.00	111	68.1	15.0	14.30	Top	5	0.130	1.175	1.004	0.153	0.153	0.170	0.106				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.07	6665.00	143	68.1	15.0	13.95	Top	5	0.165	1.195	1.004	0.211	0.211	0.250	0.158				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.07	6985.00	207	68.1	15.0	13.80	Top	5	0.215	1.318	1.004	0.285	0.285	0.330	0.196				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.02	6025.00	15	68.1	15.0	14.32	Bottom	5	0.080	1.169	1.004	0.090	0.090	0.090	0.050				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.04	6025.00	15	68.1	15.0	14.32	Right	5	0.088	1.169	1.004	0.099	0.099	0.090	0.057				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.04	6025.00	15	68.1	15.0	14.32	Left	5	0.090	1.169	1.004	0.090	0.090	0.090	0.050				
ANSI/IEEE C95.1-2010 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)]	Reported APO with Multi-Tx Factor [W/m² (4cm²)]	APD Exposure Ratio with Multi-Tx Factor	P1st #	P1mit [dBm]	Overall P1mit	EPS P1mit
Body	6 GHz WIFU /IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.03	6025.00	15	68.1	15.0	14.32	Back	5	0.777	1.169	1.004	0.912	0.912	1.003	0.051	28.4			
Body	6 GHz WIFU /IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.06	6025.00	15	68.1	15.0	14.32	Top	5	0.999	1.169	1.004	1.173	1.173	1.250	0.095	29.7			
Body	6 GHz WIFU /IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.04	6345.00	79	68.1	15.0	14.21	Top	5	0.765	1.195	1.004	0.921	0.921	1.013	0.051	26.3			
Body	6 GHz WIFU /IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.04	6505.00	111	68.1	15.0	14.30	Top	5	0.950	1.175	1.004	1.121	1.121	1.233	0.092	25.8			
Body	6 GHz WIFU /IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.07	6665.00	143	68.1	15.0	13.95	Top	5	1.110	1.195	1.004	1.256	1.256	1.712	0.096	26.0	23.3	14.0	
Body	6 GHz WIFU /IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.07	6985.00	207	68.1	15.0	13.80	Top	5	1.400	1.318	1.004	1.653	1.653	2.058	0.107	26.2			
Body	6 GHz WIFU /IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.02	6025.00	15	68.1	15.0	14.32	Bottom	5	0.607	1.169	1.004	0.608	0.608	0.608	0.050	26.0			
Body	6 GHz WIFU /IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.04	6025.00	15	68.1	15.0	14.32	Right	5	0.654	1.169	1.004	0.662	0.662	0.669	0.055	26.8			
Body	6 GHz WIFU /IEEE 802.11ax	160	OFDM	F	0979M	99.56	0.04	6025.00	15	68.1	15.0	14.32	Left	5	0.606	1.169	1.004	0.607	0.607	0.608	0.050	27.5			
ANSI/IEEE CS17.1-2010 SAFETY LIMIT														Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak Uncontrolled Exposure/General Population																									

Table 12-91

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.03	6025.00	15	68.1	15.0	14.30	Back	5	0.268	1.175	1.007	0.317	0.317	0.350	0.218				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.07	6025.00	15	68.1	15.0	14.30	Top	5	0.296	1.175	1.007	0.350	0.350	0.390	0.241				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.01	6345.00	79	68.1	15.0	14.00	Top	5	0.184	1.259	1.007	0.229	0.229	0.250	0.157				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.02	6505.00	111	68.1	15.0	14.08	Top	5	0.097	1.236	1.007	0.121	0.121	0.130	0.084				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.04	6665.00	143	68.1	15.0	13.95	Top	5	0.098	1.274	1.007	0.074	0.074	0.080	0.051				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.06	6985.00	207	68.1	15.0	14.29	Top	5	0.147	1.178	1.007	0.174	0.174	0.190	0.120				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.02	6025.00	15	68.1	15.0	14.30	Bottom	5	0.002	1.175	1.007	0.002	0.002	0.000	0.001				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.01	6025.00	15	68.1	15.0	14.30	Right	5	0.098	1.175	1.007	0.116	0.116	0.130	0.080				
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.01	6025.00	15	68.1	15.0	14.30	Left	5	0.002	1.175	1.007	0.002	0.002	0.000	0.001				
ANSI/IEEE CS17.1-2010 SAFETY LIMIT														Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak Uncontrolled Exposure/General Population																									

ANSI/IEEE CS9.1-1992 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)]	Reported APO with Multi Tx Factor [W/m² (4cm²)]	APD Exposure Ratio with Multi Tx Factor	P1st #	Overall P1mit [dBm]	EPS P1mit [dBm]
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.03	6025.00	15	68.1	15.0	14.30	Back	5	1.760	1.175	1.007	2.082	2.082	2.250	0.114			22.8
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.07	6025.00	15	68.1	15.0	14.30	Top	5	2.000	1.175	1.007	2.366	2.366	2.603	0.130			23.2
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.01	6345.00	79	68.1	15.0	14.00	Top	5	1.270	1.259	1.007	1.610	1.610	1.771	0.089			23.9
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.02	6505.00	111	68.1	15.0	14.08	Top	5	0.699	1.236	1.007	0.870	0.870	0.957	0.048			24.6
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.04	6665.00	143	68.1	15.0	13.95	Top	5	0.819	1.274	1.007	0.958	0.958	1.034	0.051			25.1
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.06	6985.00	207	68.1	15.0	14.29	Top	5	1.130	1.178	1.007	1.340	1.340	1.474	0.074			26.7
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.02	6025.00	15	68.1	15.0	14.30	Bottom	5	0.013	1.175	1.007	0.015	0.015	0.017	0.001			44.3
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.04	6025.00	15	68.1	15.0	14.30	Right	5	0.488	1.175	1.007	0.589	0.589	0.648	0.032			44.8
Body	6 GHz WIFU / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.01	6025.00	15	68.1	15.0	14.30	Left	5	0.014	1.175	1.007	0.017	0.017	0.019	0.001			44.8

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12.18 6 GHz WIFI MIMO Standalone SAR and APD

Table 12-92 F/O Head | Plot A59

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power DB [dB]	Frequency [MHz]	Channel s	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (dB) [dBm]	Conducted Power (dB) [dBm]	Test Position	Spacing [mm]	Measured Ig SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported Ig SAR [W/kg]	Adjusted Ig SAR [W/kg]	Adjusted Ig SAR with Margin Tx Factor [%]	Exposure Ratio (Ig SAR)	Post s	Flank (dBm)	Overall Peak (dBm)	EPS Flank (dBm)
Head	6 GHz WUR/IEEE 802.11aa	40	OFDM	MIMO	OPPRA	99.49	-3.20	5865.00	3	32.5	17.0	46.46	17.0	46.55	Right Chest	0	0.143	1.109	1.005	0.151	0.960	0.960	0.620		24.9		
	6 GHz WUR/IEEE 802.11aa	40	OFDM	MIMO	99.49	-3.20	5865.00	3	32.5	17.0	46.46	17.0	46.55	Right Tilt	0	0.148	1.148	1.005	0.165	0.964	0.964	0.621	Post	24.8			
	6 GHz WUR/IEEE 802.11aa	40	OFDM	MIMO	99.49	-3.20	5865.00	3	32.5	17.0	46.46	17.0	46.55	Left Chest	0	0.113	1.109	1.005	0.126	0.750	0.750	0.479		25.9		24.1	24.1
	6 GHz WUR/IEEE 802.11aa	40	OFDM	MIMO	99.49	-3.20	5865.00	3	32.5	17.0	46.46	17.0	46.55	Left Tilt	0	0.061	1.109	1.005	0.080	0.430	0.430	0.256		26.6			
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																Head											
Uncontrolled Exposure/General Population																1.6 W/kg (avg) absorbed over 6 gm											

Note: To achieve the 20 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17 dBm.

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power DfB [dBm]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd) [dBm]	Conducted (2nd) [dBm]	Test Position	Space [mm]	Measured APD [W/(m ² ·°C)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/(m ² ·°C)]	Adjusted APD [W/(m ² ·°C)]	Reported APD [W/(m ² ·°C)]	APD Exposure with Multi Tx Factor	Post #	Pinch [dBm]	Overall Pinch [dBm]	ES Pinch [dBm]
Head	6 GHz WUFI / IEEE 802.11ax	40	OFDM	MMMO	0979M	99.49	0.20	5965.60	3	3.15	17.0	16.61	17.0	16.55	Right Chest	0	0.925	1.100	1.005	1.011	4.213	4.213	0.311		27.8		
Head	6 GHz WUFI / IEEE 802.11ax	40	OFDM	MMMO	0979M	99.49	0.08	5965.60	3	3.15	17.0	16.61	17.0	16.55	Right Hip	0	0.952	1.100	1.005	1.061	4.894	4.894	0.320		27.7		
Head	6 GHz WUFI / IEEE 802.11ax	40	OFDM	MMMO	0979M	99.49	0.08	5965.60	3	3.15	17.0	16.61	17.0	16.55	Right Hip	0	0.948	1.100	1.005	1.058	4.761	4.761	0.319		27.7	27.7	24.8
Head	6 GHz WUFI / IEEE 802.11ax	40	OFDM	MMMO	0979M	99.49	0.08	5965.60	3	3.15	17.0	16.61	17.0	16.55	Left Hip	0	0.963	1.100	1.005	1.054	4.836	4.836	0.322		27.7		

Note: To achieve the 20 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17 dBm.

Table 12-93 | Plot A62

[illegible]

Note: To achieve the 18 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15 dBm.

Exposure	Band/Mode	Bandwidth (MHz)	Service/Modulation	Ant.	Serial Number	Daily Cycle (%)	Power (dB)	Frequency (MHz)	Channel #	Data Rate (Mbps)	Max Allowed Power (dBm)	Conducted Power (dBm)	Max Allowed Power (2nd) (dBm)	Conducted Power (2nd) (dBm)	Test Position	Spacing (mm)	Measured APO (W/m ² /Hz/°C)	Power Scaling Factor	Daily Cycle Scaling Factor	Reported APO (W/m ² /Hz/°C)	Adjusted APO (W/m ² /Hz/°C)	Measured APO with Max Tx's Power Scaling Factor	APO Exposure Ratio (Max Tx's Power Scaling Factor)	Plot #	Plot (dBm)	Overall Power (dBm)	ERS Plot (dBm)
Body	E-GH WPUF/IEEE 802.11a	160	OFDM	MIMO	057984	99.96	-0.10	6025.00	15	58.5	15.0	14.73	15.0	14.95	Back	5	2.280	1.225	0.004	2.816	2.816	3.008	0.135		21.5		
Body	E-GH WPUF/IEEE 802.11a	160	OFDM	MIMO	057984	99.96	-0.10	6025.00	15	58.5	15.0	14.73	15.0	14.96	Back	5	2.280	1.225	0.004	2.816	2.816	3.008	0.135	Plot	21.5		
Body	E-GH WPUF/IEEE 802.11a	160	OFDM	MIMO	057984	99.96	-0.00	6134.00	79	58.5	15.0	14.28	15.0	14.00	Top	5	1.480	1.219	0.004	1.873	2.050	0.030	2.232		23.6		
Body	E-GH WPUF/IEEE 802.11a	160	OFDM	MIMO	057984	99.96	-0.10	6134.00	79	58.5	15.0	14.28	15.0	14.00	Top	5	1.480	1.219	0.004	1.873	2.050	0.030	2.232		23.6		
Body	E-GH WPUF/IEEE 802.11a	160	OFDM	MIMO	057984	99.96	-0.00	6465.00	148	58.5	15.0	13.30	15.0	13.00	Top	5	1.740	1.280	0.004	1.704	1.874	0.004	2.026		23.2		
Body	E-GH WPUF/IEEE 802.11a	160	OFDM	MIMO	057984	99.96	-0.00	6465.00	148	58.5	15.0	13.30	15.0	13.00	Top	5	1.740	1.280	0.004	1.704	1.874	0.004	2.026		23.2		
Body	E-GH WPUF/IEEE 802.11a	160	OFDM	MIMO	057984	99.96	-0.00	6261.00	15	58.5	15.0	14.73	15.0	14.95	Bottom	5	0.000	1.225	0.004	0.000	0.000	0.000	0.000		48.1		
Body	E-GH WPUF/IEEE 802.11a	160	OFDM	MIMO	057984	99.96	-0.00	6261.00	15	58.5	15.0	14.73	15.0	14.95	Bottom	5	0.000	1.225	0.004	0.000	0.000	0.000	0.000		48.1		
Body	E-GH WPUF/IEEE 802.11a	160	OFDM	MIMO	057984	99.96	-0.07	6025.00	15	58.5	15.0	14.73	15.0	14.95	Left	5	0.166	1.225	0.004	0.204	0.204	0.000	0.000		32.9		

Note: To achieve the 18 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15 dBm.

12.19 2.4 GHz Bluetooth SISO Standalone SAR

Table 12-94 Ant H F/C Head

[illegible]

Table 12-95 Ant F F/C Head

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]	Adjusted 1g SAR with Multi-Tx Factor [W/kg]	Exposure Ratio with Multi-Tx Factor (Fig. SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	RFSP Limit [dBm]
Head	2.4 GHz Bluetooth	FHSS	F	09731M	77.06	-0.01	2441.00	39	1	18.5	17.87	Right Check	0	0.081	1.156	1.025	0.039	0.440	0.440	0.281	11.5			
Head	2.4 GHz Bluetooth	FHSS	F	09731M	77.06	-0.01	2441.00	39	1	18.5	17.87	Left Check	0	0.081	1.156	1.025	0.039	0.440	0.440	0.281	11.5			
Head	2.4 GHz Bluetooth	FHSS	F	09731M	77.06	0.02	2443.00	39	1	18.5	17.87	Left Check	0	0.082	1.156	1.025	0.039	0.708	0.708	0.443	29.5		28.1	28.1
Head	2.4 GHz Bluetooth	FHSS	F	09731M	77.06	-0.01	2441.00	39	1	18.5	17.87	Left Tet	0	0.072	1.156	1.025	0.085	0.980	0.980	0.613	38.1			
ANALYSIS C61.1.102 - SAFETY LIMIT																								
Spatial Peak																	Head							
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g) averaged over 3.14 cm							

Table 12-96 Ant H F/O Head

[illegible]

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**Table 12-97 Ant F F/O Head | Plot A64**

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Head	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	-0.01	2441.00	39	1	18.5	17.87	Right Cheek	0	0.397	1.156	1.025	0.470	0.837	0.837	0.523	Plot	20.7	20.0	20.0
Head	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	-0.01	2441.00	39	1	18.5	17.87	Right Tilt	0	0.462	1.156	1.025	0.547	0.974	0.974	0.609	Plot	20.0	20.0	20.0
Head	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	0.00	2441.00	39	1	18.5	17.87	Left Cheek	0	0.063	1.156	1.025	0.063	0.112	0.112	0.070	Plot	26.4	20.0	20.0
Head	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	-0.05	2441.00	39	1	18.5	17.87	Left Tilt	0	0.064	1.156	1.025	0.076	0.135	0.135	0.084	Plot	28.6	20.0	20.0
ANSI/IEEE C95.1 1982 - SAFETY LIMIT													Head										20.0	
Spatial Peak													1.6 W/kg (mW/g)										20.0	
Uncontrolled Exposure/General Population													averaged over 1 gram										20.0	

Table 12-98 | Plot A65

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Body-worn/Hotspot	2.4 GHz Bluetooth	FHSS	H	0973M	77.06	-0.14	2441.00	39	1	18.5	18.21	Back	5	0.068	1.069	1.025	0.075	0.982	0.982	0.634	Plot	28.7	28.7	28.7
Hotspot	2.4 GHz Bluetooth	FHSS	H	0973M	77.06	0.03	2441.00	39	1	18.5	18.21	Front	5	0.051	1.069	1.025	0.052	0.159	0.159	0.099	Plot	28.7	28.7	28.7
Hotspot	2.4 GHz Bluetooth	FHSS	H	0973M	77.06	0.00	2441.00	39	1	18.5	18.21	Right	10	0.028	1.069	1.025	0.031	0.404	0.404	0.253	Plot	32.6	28.7	28.7
ANSI/IEEE C95.1 1982 - SAFETY LIMIT													Body										28.7	
Spatial Peak													1.6 W/kg (mW/g)										28.7	
Uncontrolled Exposure/General Population													averaged over 1 gram										28.7	

Table 12-99

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Body-worn	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	0.00	2441.00	39	1	18.5	17.87	Back	5	0.138	1.156	1.025	0.164	0.878	0.878	0.549	Plot	25.3	25.3	24.8
ANSI/IEEE C95.1 1982 - SAFETY LIMIT													Body										25.3	
Spatial Peak													1.6 W/kg (mW/g)										25.3	
Uncontrolled Exposure/General Population													averaged over 1 gram										24.8	

Table 12-100

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Adjusted 10g SAR [W/kg]	Adjusted 10g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [10g SAR]	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Phablet	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	0.11	2441.00	39	1	18.5	17.87	Back	0	0.382	1.156	1.025	0.453	2.431	2.431	0.608	Plot	24.8	24.8	24.8
Phablet	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	0.03	2441.00	39	1	18.5	17.87	Front	0	0.034	1.156	1.025	0.040	0.216	0.216	0.054	Plot	35.4	24.8	24.8
Phablet	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	-0.10	2441.00	39	1	18.5	17.87	Top	0	0.268	1.156	1.025	0.347	1.865	1.865	0.466	Plot	26.0	24.8	24.8
Phablet	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	0.07	2441.00	39	1	18.5	17.87	Right	0	0.027	1.156	1.025	0.032	0.172	0.172	0.045	Plot	36.4	24.8	24.8
Phablet	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	-0.08	2441.00	39	1	18.5	17.87	Left	0	0.024	1.156	1.025	0.028	0.153	0.153	0.038	Plot	36.9	24.8	24.8
ANSI/IEEE C95.1 1982 - SAFETY LIMIT													Phablet										24.8	
Spatial Peak													4.0 W/kg (mW/g)										24.8	
Uncontrolled Exposure/General Population													averaged over 10 grams										24.8	

Table 12-101

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Body	2.4 GHz Bluetooth	FHSS	H	0973M	77.06	-0.02	2441.00	39	1	18.5	18.21	Back	5	0.173	1.069	1.025	0.190	0.972	0.972	0.608	Plot	24.6	24.6	24.6
Body	2.4 GHz Bluetooth	FHSS	H	0973M	77.06	0.09	2441.00	39	1	18.5	18.21	Top	5	0.086	1.069	1.025	0.089	0.202	0.202	0.126	Plot	31.5	24.6	24.6
Body	2.4 GHz Bluetooth	FHSS	H	0973M	77.06	0.06	2441.00	39	1	18.5	18.21	Bottom	5	0.002	1.069	1.025	0.002	0.011	0.011	0.007	Plot	44.0	24.6	24.6
Body	2.4 GHz Bluetooth	FHSS	H	0973M	77.06	-0.11	2441.00	39	1	18.5	18.21	Right	5	0.120	1.069	1.025	0.131	0.674	0.674	0.421	Plot	29.2	24.6	24.6
Body	2.4 GHz Bluetooth	FHSS	H	0973M	77.06	0.07	2441.00	39	1	18.5	18.21	Left	5	0.000	1.069	1.025	0.000	0.000	0.000	0.000	Plot	57.0	24.6	24.6
ANSI/IEEE C95.1 1982 - SAFETY LIMIT													Body										24.6	
Spatial Peak													1.6 W/kg (mW/g)										24.6	
Uncontrolled Exposure/General Population													averaged over 1 gram										24.6	

Table 12-102 | Plot A67

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Body	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	-0.03	2441.00	39	1	18.5	17.87	Back	5	0.162	1.156	1.025	0.192	0.420	0.420	0.263	Plot	24.6	20.9	20.9
Body	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	-0.07	2441.00	39	1	18.5	17.87	Top	5	0.375	1.156	1.025	0.444	0.972	0.972	0.608	Plot	20.9	20.9	20.9
Body	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	0.09	2441.00	39	1	18.5	17.87	Bottom	5	0.000	1.156	1.025	0.000	0.000	0.000	0.000	Plot	56.7	20.9	20.9
Body	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	-0.05	2441.00	39	1	18.5	17.87	Right	5	0.053	1.156	1.025	0.058	0.086	0.086	0.054	Plot	31.5	20.9	20.9
Body	2.4 GHz Bluetooth	FHSS	F	0973M	77.06	0.12	2441.00	39	1	18.5	17.87	Left	5	0.003	1.156	1.025	0.004	0.008	0.008	0.005	Plot	41.9	20.9	20.9
ANSI/IEEE C95.1 1982 - SAFETY LIMIT													Body										20.9	
Spatial Peak													1.6 W/kg (mW/g)										20.9	
Uncontrolled Exposure/General Population													averaged over 1 gram										20.9	

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12.20 2.4 GHz Bluetooth MIMO Standalone SAR

Table 12-103 F/C Head | Plot A63

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	2.4 GHz Bluetooth	FHSS	MIMO	0973M	77.12	0.01	2441.00	39	1	15.0	14.99	16.5	15.58	Right Cheek	0	0.036	1.236	1.024	0.046	0.415	0.415	0.259		28.2		
Head	2.4 GHz Bluetooth	FHSS	MIMO	0973M	77.12	0.11	2441.00	39	1	15.0	14.99	16.5	15.58	Right Tit	0	0.046	1.236	1.024	0.058	0.530	0.530	0.331		27.2	24.5	24.5
Head	2.4 GHz Bluetooth	FHSS	MIMO	0973M	77.12	0.01	2441.00	39	1	15.0	14.99	16.5	15.58	Left Cheek	0	0.061	1.236	1.024	0.077	0.702	0.702	0.439		26.5		
Head	2.4 GHz Bluetooth	FHSS	MIMO	0973M	77.12	0.05	2441.00	39	1	15.0	14.99	16.5	15.58	Left Tit	0	0.085	1.236	1.024	0.108	0.979	0.979	0.612	Plot	24.5		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram											

Note: To achieve the 18 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15 dBm.

Table 12-104 F/O Head

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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	2.4 GHz Bluetooth	FHSS	MIMO	0973M	77.12	0.05	2441.00	39	1	15.0	14.99	16.5	15.58	Right Cheek	0	0.036	1.236	1.024	0.046	0.415	0.415	0.259		27.2		
Head	2.4 GHz Bluetooth	FHSS	MIMO	0973M	77.12	0.09	2441.00	39	1	15.0	14.99	16.5	15.58	Right Tit	0	0.046	1.236	1.024	0.058	0.530	0.530	0.331		26.5	17.7	17.7
Head	2.4 GHz Bluetooth	FHSS	MIMO	0973M	77.12	0.10	2441.00	39	1	15.0	14.99	16.5	15.58	Left Cheek	0	0.056	1.236	1.024	0.071	0.635	0.635	0.384		26.3		
Head	2.4 GHz Bluetooth	FHSS	MIMO	0973M	77.12	0.09	2441.00	39	1	15.0	14.99	16.5	15.58	Left Tit	0	0.064	1.236	1.024	0.081	0.744	0.744	0.464	Plot	25.7		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram											

Note: To achieve the 18 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15 dBm.

Table 12-105 | Plot A66

Exposure	Band / Mode	Service / Modulation	Ant.	Peak Number	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 with Multi Tx Factor [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body worn	2.4 GHz Bluetooth	FHSS	MIMO	2	0973M	77.12	0.09	2441.00	39	1	15.0	14.99	16.5	15.58	Back	5	0.118	1.236	1.024	0.200	0.813	0.108	Plot	21.8	21.8	21.0
Body worn	2.4 GHz Bluetooth	FHSS	MIMO	1	0973M	77.12	0.07	2441.00	39	1	15.0	14.99	16.5	15.58	Back	5	0.062	1.236	1.024	0.078	0.319	0.109		25.3		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: To achieve the 18 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15 dBm.

Table 12-106 | Plot A68

Exposure	Band / Mode	Service / Modulation	Ant.	Peak Number	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]	Adjusted 10g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (10g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Phublet	2.4 GHz Bluetooth	FHSS	MIMO	2	0973M	77.12	0.06	2441.00	39	1	15.0	14.99	16.5	15.58	Back	0	0.058	1.236	1.024	0.403	1.861	1.861	0.660		22.3		
Phublet	2.4 GHz Bluetooth	FHSS	MIMO	1	0973M	77.12	0.05	2441.00	39	1	15.0	14.99	16.5	15.58	Back	0	0.079	1.236	1.024	0.100	0.406	0.406	0.102		28.8		
Phublet	2.4 GHz Bluetooth	FHSS	MIMO	N/A	0973M	77.12	0.18	2441.00	39	1	15.0	14.99	16.5	15.58	Front	0	0.011	1.236	1.024	0.014	0.057	0.057	0.054		37.4	21.0	21.0
Phublet	2.4 GHz Bluetooth	FHSS	MIMO	N/A	0973M	77.12	0.07	2441.00	39	1	15.0	14.99	16.5	15.58	Top	0	0.026	1.236	1.024	0.027	0.448	0.448	0.612	Plot	21.0		
Phublet	2.4 GHz Bluetooth	FHSS	MIMO	N/A	0973M	77.12	0.03	2441.00	39	1	15.0	14.99	16.5	15.58	Right	0	0.025	1.236	1.024	0.032	0.129	0.129	0.032		33.8		
Phublet	2.4 GHz Bluetooth	FHSS	MIMO	N/A	0973M	77.12	0.11	2441.00	39	1	15.0	14.99	16.5	15.58	Left	0	0.031	1.236	1.024	0.039	0.159	0.159	0.040		32.9		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT																							Phublet				
Spatial Peak																							4.0 W/kg (mW/g)				

Note: To achieve the 18 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15 dBm.

Table 12-107

Exposure	Band / Mode	Service / Modulation	Ant.	Peak Number	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]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]	
Body	2.4 GHz Bluetooth	FHSS	MIMO	1	0973M	77.12	-0.07	2441.00	39	1	15.0	14.99	16.5	15.58	Back	5	0.224	1.236	1.024	0.284	0.605	0.605	0.378		20.3			
Body	2.4 GHz Bluetooth	FHSS	MIMO	2	0973M	77.12	-0.04	2441.00	39	1	15.0	14.99	16.5	15.58	Back	5	0.031	1.236	1.024	0.039	0.084	0.084	0.051		28.9			
Body	2.4 GHz Bluetooth	FHSS	MIMO	N/A	0973M	77.12	-0.05	2441.00	39	1	15.0	14.99	16.5	15.58	Top	5	0.368	1.236	1.024	0.466	0.993	0.993	0.625		18.2	18.2	18.2	
Body	2.4 GHz Bluetooth	FHSS	MIMO	N/A	0973M	77.12	0.07	2441.00	39	1	15.0	14.99	16.5	15.58	Bottom	5	0.006	1.236	1.024	0.008	0.016	0.016	0.010		36.0			
Body	2.4 GHz Bluetooth	FHSS	MIMO	N/A	0973M	77.12	0.06	2441.00	39	1	15.0	14.99	16.5	15.58	Right	5	0.105	1.236	1.024	0.209	0.445	0.445	0.278		21.6			
Body	2.4 GHz Bluetooth	FHSS	MIMO	N/A	0973M	77.12	0.13	2441.00	39	1	15.0	14.99	16.5	15.58	Left	5	0.040	1.236	1.024	0.053	0.027	0.027	0.017		33.8			
ANSI/IEEE CS6.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram													

Note: To achieve the 18 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15 dBm.

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12.21 UWB Standalone SAR

Table 12-108 | Plot A69

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]	Plot #
Phablet	UWB	CW	G	0959M	1:1	0.05	6489.60	5	Back	0	0.000	
Phablet	UWB	CW	G	0959M	1:1	0.02	7987.20	9	Back	0	0.001	
Phablet	UWB	CW	G	0959M	1:1	-0.03	6489.60	5	Front	0	0.001	
Phablet	UWB	CW	G	0959M	1:1	0.19	7987.20	9	Front	0	0.000	
Phablet	UWB	CW	G	0959M	1:1	0.01	6489.60	5	Top	0	0.000	
Phablet	UWB	CW	G	0959M	1:1	0.05	7987.20	9	Top	0	0.000	
Phablet	UWB	CW	G	0959M	1:1	0.02	6489.60	5	Right	0	0.002	Plot
Phablet	UWB	CW	G	0959M	1:1	0.07	7987.20	9	Right	0	0.001	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Phablet 4.0 W/kg (mW/g) averaged over 10 grams			

Exposure	Band/ Mode	Service/ Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Plot #
Phablet	UWB	CW	G	0959M	1:1	0.05	6489.60	5	Back	0	0.008	
Phablet	UWB	CW	G	0959M	1:1	0.02	7987.20	9	Back	0	0.033	
Phablet	UWB	CW	G	0959M	1:1	-0.03	6489.60	5	Front	0	0.032	
Phablet	UWB	CW	G	0959M	1:1	0.19	7987.20	9	Front	0	0.018	
Phablet	UWB	CW	G	0959M	1:1	0.01	6489.60	5	Top	0	0.011	
Phablet	UWB	CW	G	0959M	1:1	0.05	7987.20	9	Top	0	0.023	
Phablet	UWB	CW	G	0959M	1:1	0.02	6489.60	5	Right	0	0.034	Plot
Phablet	UWB	CW	G	0959M	1:1	0.07	7987.20	9	Right	0	0.029	

Table 12-109 | Plot A70

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Plot #
Body	UWB	CW	G	0959M	1:1	0.08	6489.60	5	Back	5	0.000	
Body	UWB	CW	G	0959M	1:1	0.08	7987.20	9	Back	5	0.002	
Body	UWB	CW	G	0959M	1:1	0.09	6489.60	5	Top	5	0.003	
Body	UWB	CW	G	0959M	1:1	0.07	7987.20	9	Top	5	0.002	
Body	UWB	CW	G	0959M	1:1	0.07	6489.60	5	Bottom	5	0.003	
Body	UWB	CW	G	0959M	1:1	-0.04	7987.20	9	Bottom	5	0.003	
Body	UWB	CW	G	0959M	1:1	0.02	6489.60	5	Right	5	0.029	Plot
Body	UWB	CW	G	0959M	1:1	0.03	7987.20	9	Right	5	0.000	
Body	UWB	CW	G	0959M	1:1	0.02	6489.60	5	Left	5	0.002	
Body	UWB	CW	G	0959M	1:1	0.03	7987.20	9	Left	5	0.003	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram			

Exposure	Band/ Mode	Service/ Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Plot #
Body	UWB	CW	G	0959M	1:1	0.08	6489.60	5	Back	5	0.003	
Body	UWB	CW	G	0959M	1:1	0.08	7987.20	9	Back	5	0.007	
Body	UWB	CW	G	0959M	1:1	0.09	6489.60	5	Top	5	0.036	
Body	UWB	CW	G	0959M	1:1	0.07	7987.20	9	Top	5	0.017	
Body	UWB	CW	G	0959M	1:1	0.07	6489.60	5	Bottom	5	0.031	
Body	UWB	CW	G	0959M	1:1	-0.04	7987.20	9	Bottom	5	0.025	
Body	UWB	CW	G	0959M	1:1	0.02	6489.60	5	Right	5	0.097	Plot
Body	UWB	CW	G	0959M	1:1	0.03	7987.20	9	Right	5	0.004	
Body	UWB	CW	G	0959M	1:1	0.02	6489.60	5	Left	5	0.013	
Body	UWB	CW	G	0959M	1:1	0.03	7987.20	9	Left	5	0.040	

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12.22 NFC Standalone SAR

Table 12-110 | Plot A71

Exposure	Band / Mode	Signal Type	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Phablet	NFC	B	NFC	1032M	0.04	13.60	Back	0	0.000	0.000	Plot
Phablet	NFC	B	NFC	1032M	0.03	13.60	Front	0	0.000	0.000	
Phablet	NFC	B	NFC	1032M	0.07	13.60	Top	0	0.000	0.000	
Phablet	NFC	B	NFC	1032M	0.04	13.60	Left	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams				

Table 12-111 | Plot A72

Exposure	Band / Mode	Signal Type	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Plot #
Body	NFC	B	NFC	1032M	0.09	13.60	Back	5	0.000	Plot 1
Body	NFC	B	NFC	1032M	0.09	13.60	Top	5	0.000	
Body	NFC	B	NFC	1032M	0.09	13.60	Bottom	5	0.000	
Body	NFC	B	NFC	1032M	0.04	13.60	Right	5	0.000	
Body	NFC	B	NFC	1032M	0.06	13.60	Left	5	0.000	
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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13 SAR REFERENCE DATA SUMMARY

13.1 2.4 GHz WIFI SISO Spot-check Verification for Data Referencing

Table 13-1 Ant H F/C Head

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]	Reported SAR from Reference Model 1g [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EF5 PLimit [dBm]
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	0973M	98.74	0.05	2437.00	6	1.0	20.0	19.25	Right Cheek	0	0.050	1.189	1.013	0.060	0.108	0.549	0.545		32.2	32.2	29.6
ANSI/IEEE C95.3 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram												

Table 13-2 | Plot A51

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]	Reported SAR from Reference Model 1g [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EF5 PLimit [dBm]
Body worn/hotspot	2.4 GHz WFI / IEEE 802.11b	22	DSSS	H	0973M	98.74	0.00	2437.00	6	1.0	18.0	17.18	Back	5	0.301	1.208	1.023	0.168	0.648	0.400	0.253	Plot	22.3	22.3	17.0
ANSI/IEEE C95.3 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 13-3

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]	Reported SAR from Reference Model 1g [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EF5 PLimit [dBm]
Body worn/hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	F	0973M	99.18	0.08	2412.00	1	1.0	18.0	17.63	Back	5	0.278	1.094	1.008	0.307	0.828	0.340	0.211		23.1	23.1	17.0
ANSI/IEEE C95.3 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

13.2 5 GHz WIFI SISO Spot-check Verification for Data Referencing

Table 13-4 Ant F F/C Head

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model 1g [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EF5 PLimit [dBm]
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	F	0979M	85.51	-0.14	5600.00	138	U-NII-2C	29.3	18.0	17.26	Left Toe	0	0.086	1.186	1.168	0.119	0.119	0.992	0.620		27.2	27.2	27.2
ANSI/IEEE C95.3 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 13-5 Ant E F/C Head

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model 1g [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EF5 PLimit [dBm]
Head	5 GHz WIFI IEEE 802.11ac	80	OFDM	E	0973M	94.93	0.13	5600.00	138	U-NII-2C	29.3	18.0	17.10	Right Toe	0	0.100	1.230	1.053	0.246	0.604	0.348	0.218		24.0	24.0	19.5
ANSI/IEEE C95.3 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram												

Table 13-6

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model 1g [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EF5 PLimit [dBm]
Body-worn	5 GHz WIFI / IEEE 802.11ac	80	OFDM	F	0973M	85.51	0.03	5610.00	123	U-NII-2C	29.3	17.0	15.40	Back	5	0.263	1.380	1.100	0.423	0.476	0.470	0.290		20.7	20.7	16.0
ANSI/IEEE C95.3 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 13-7 | Plot A55

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR From Reference Model 1g [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EF5 PLimit [dBm]
Body-worn	5 GHz WIFI IEEE 802.11ac	80	OFDM	F	0973M	94.93	0.07	5610.00	122	U-NII-2C	29.3	17.0	16.37	Back	5	0.075	1.156	1.053	0.822	1.076	0.504	0.565	Plot #	17.8	17.8	16.0
ANSI/IEEE C95.3 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 13-8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Reported SAR from Reference Model 10g [W/kg]	Adjusted 10g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (10g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EF5 PLimit [dBm]
Phantom	5 GHz WIFI IEEE 802.11n	40	OFDM	F	0973M	96.87	-0.07	5270.00	54	U-NII-2A	13.5	17.0	16.43	Top	0	0.620	1.143	1.032	0.613	0.852	0.674	0.168		23.1	23.1	16.0
ANSI/IEEE C95.3 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Phantom 4.0 W/kg (mW/g) averaged over 10 grams												

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Table 13-9

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]	Reported SAR from Reference Model 10g [W/kg]	Adjusted 10g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phantom	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	097344	94.83	-0.10	5610.00	122	U-NI-2C	29.3	17.0	15.90	Top	0	0.532	1.288	1.051	0.722	1.465	0.794	0.199		22.3	22.3	16.0
ANSI/IEEE C63.19-2 SAFETY LIMIT Spatial Peak															Phantom 4.0 W/kg (mW/g) averaged over 10 grams											
Uncontrolled Exposure/General Population																										

13.3 5 GHz WIFI MIMO Spot-check Verification for Data Referencing

Table 13-10 F/C Head | Plot A53

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]	Reported SAR from Reference Model 1g [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	5 GHz WiFi / IEEE 802.11ac	40	OFDM	MIMO	097334	97.82	-0.64	5755.00	133	U-NI-5	27.0	18.0	17.48	18.0	17.43	Right Tilt	0	0.340	1.022	1.002	0.425	0.805	0.322	0.326	Plot	21.7	21.7	18.9
ANSI/IEEE C63.19-2 SAFETY LIMIT Spatial Peak															Body 1.6 W/kg (mW/g) averaged over 1 gram													
Uncontrolled Exposure/General Population																												

Note: To achieve the 21 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18 dBm.

Table 13-11

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]	Reported SAR from Reference Model 1g [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	EFS Plimit [dBm]
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	097334	99.14	-0.09	5580.00	138	U-NI-2C	58.5	17.0	15.79	17.0	15.65	Back	5	0.624	1.365	1.009	0.859	1.186	0.965	0.591		17.6	16.0
ANSI/IEEE C63.19-2 SAFETY LIMIT Spatial Peak															Body 1.6 W/kg (mW/g) averaged over 1 gram												
Uncontrolled Exposure/General Population																											

Note: To achieve the 20 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17 dBm.

Table 13-12 | Plot A56

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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Reported SAR from Reference Model 10g [W/kg]	Adjusted 10g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phantom	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	097334	99.14	-0.23	5610.00	122	U-NI-2C	58.5	17.0	15.63	17.0	15.49	Top	0	0.614	1.375	1.009	0.849	1.370	0.934	0.233	Plot	21.6	21.6	16.0
ANSI/IEEE C63.19-2 SAFETY LIMIT Spatial Peak															Phantom 4.0 W/kg (mW/g) averaged over 10 grams													
Uncontrolled Exposure/General Population																												

Note: To achieve the 20 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17 dBm.

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Table 13-13 Ant F F/C Head

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]	Reported SAR from Reference Model 1g [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]	
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	F	097064	99.27	-0.04	5965.00	3	16.3	17.0	16.61	Right Tilt	0	0.089	1.094	1.007	0.098	0.090	0.834	0.834	0.521		27.0	27.0	26.3
ANSI/IEEE C63.19-2 SAFETY LIMIT Spatial Peak															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 APO [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m ² (4cm ²)]	Reported APO from Reference Model 1g [W/m ² (4cm ²)]	Adjusted APO [W/m ² (4cm ²)]	Reported APO with Multi Tx Factor [W/m ² (4cm ²)]	APO Exposure Ratio with Multi Tx Factor	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	F	097064	99.27	-0.04	5965.00	3	16.3	17.0	16.61	Right Tilt	0	0.481	1.094	1.007	0.530	0.549	4.510	4.510	0.226		30.7	30.7	26.3

Table 13-14 Ant E F/C Head | Plot A58

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]	Reported SAR from Reference Model 1g [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]	
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	E	097064	99.56	-0.03	5965.00	3	16.3	17.0	16.42	Right Tilt	0	0.274	1.143	1.004	0.314	0.389	0.790	0.790	0.494	Plot	22.0	22.0	21.0
ANSI/IEEE C63.19-2 SAFETY LIMIT Spatial Peak																										
Uncontrolled Exposure/General Population																										
1.6 W/kg [mW/g] averaged over 1 gram																										
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APO [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m ² (4cm ²)]	Reported APO from Reference Model 1g [W/m ² (4cm ²)]	Adjusted APO [W/m ² (4cm ²)]	Reported APO with Multi Tx Factor [W/m ² (4cm ²)]	APO Exposure Ratio with Multi Tx Factor	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	E	097064	99.56	-0.03	5965.00	3	16.3	17.0	16.42	Right Tilt	0	2.140	1.143	1.004	2.674	2.896	6.716	6.716	0.596	Plot	23.7	23.7	21.0

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Table 13-15

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]	Reported SAR from Reference Model 1g [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	F	0979M	99.56	-0.12	6005.00	111	68.1	15.0	14.30	Back	5	0.324	1.175	1.004	0.382	0.486	0.382	0.263		19.1	19.1	14.0
ANS/IEEE CS1.1.1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																									
Body 1.6 W/kg (mW/g) averaged over 1 gram																									
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	Reported SAR from Reference Model 1g [W/kg]	Adjusted APO [W/m² (4cm²)]	APD Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	F	0979M	99.56	-0.12	6005.00	111	68.1	15.0	14.30	Back	5	2.130	1.175	1.004	2.513	3.108	2.513	0.139		22.0	22.0	14.0

Table 13-16 | Plot A60

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]	Reported SAR from Reference Model 1g [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.01	6025.00	15	68.1	15.0	14.30	Back	5	0.444	1.175	1.007	0.525	0.501	0.525	0.361	Plot	17.7	17.7	14.0
ANS/IEEE CS1.1.1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																									
Body 1.6 W/kg (mW/g) averaged over 1 gram																									
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	Reported SAR from Reference Model 1g [W/kg]	Adjusted APO [W/m² (4cm²)]	APD Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.01	6025.00	15	68.1	15.0	14.30	Back	5	2.950	1.175	1.007	3.491	3.276	3.491	0.183	Plot	20.5	20.5	14.0

Table 13-17

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]	Reported SAR from Reference Model 10g [W/kg]	Adjusted 10g SAR [W/kg]	Adjusted 10g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (10g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Phubbit	6 GHz WiFi / IEEE 802.11ax	160	OFDM	F	0979M	99.56	-0.04	6345.00	79	68.1	15.0	14.21	Top	0	0.276	1.199	1.004	0.332	0.669	0.332	0.365	0.061		23.7	23.7	14.0
ANS/IEEE CS1.1.1982 - SAFETY LIMIT 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)]	Reported SAR from Reference Model 10g [W/kg]	Adjusted APO [W/m² (4cm²)]	Adjusted 10g SAR with Multi Tx Factor (10g SAR)	APD Exposure Ratio with Multi Tx Factor (10g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Phubbit	6 GHz WiFi / IEEE 802.11ax	160	OFDM	F	0979M	99.56	-0.04	6345.00	79	68.1	15.0	14.21	Top	0	6.520	1.199	1.004	7.849	15.726	7.849	8.634	0.431		17.0	17.0	14.0

Table 13-18 | Plot A61

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]	Reported SAR from Reference Model 10g [W/kg]	Adjusted 10g SAR [W/kg]	Adjusted 10g SAR with Multi Tx Factor (10g SAR)	Exposure Ratio with Multi Tx Factor (10g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Phubbit	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.03	6025.00	15	68.1	15.0	14.30	Top	0	0.436	1.175	1.007	0.556	0.550	0.556	0.568	0.142	Plot	21.8	21.8	14.0
ANS/IEEE CS1.1.1982 - SAFETY LIMIT 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)]	Reported SAR from Reference Model 10g [W/kg]	Adjusted APO [W/m² (4cm²)]	Adjusted 10g SAR with Multi Tx Factor (10g SAR)	APD Exposure Ratio with Multi Tx Factor (10g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Phubbit	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0979M	99.27	0.03	6025.00	15	68.1	15.0	14.30	Top	0	10.200	1.175	1.007	12.069	12.768	12.609	13.276	0.663	Plot	15.1	15.1	14.0

13.5 6E WIFI MIMO Spot-check Verification for Data Referencing

Table 13-19 F/C Head

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]	Reported SAR from Reference Model 1g [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Tx Factor (1g SAR)	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	MIMO	0979M	99.49	-0.05	6685.00	147	32.5	17.0	16.45	17.0	16.45	Right Tilt	0	0.241	1.035	1.005	0.275	0.492	0.188	0.188	0.188		22.6	22.6	20.1
Spatial Peak Uncontrolled Exposure/General Population																												
1.6 W/kg (mW/g) averaged over 1 gram																												

Note: To achieve the 20 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum average power of 17 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 APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	Reported SAR from Reference Model 1g [W/kg]	Adjusted APO [W/m² (4cm²)]	Adjusted 1g SAR with Multi Tx Factor (1g SAR)	APD Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	MIMO	0979M	99.49	-0.05	6685.00	147	32.5	17.0	16.45	17.0	16.45	Right Tilt	0	1.680	1.035	1.005	1.936	2.834	4.098	4.098	0.205		25.1	25.1	20.1

Note: To achieve the 20 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum average power of 17 dBm.

Note: To achieve the 20 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17 dBm.

Note: To achieve the 20 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17 dBm.

Table 13-20

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]	Reported SAR from Reference Model 1g [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	0979M	99.56	-0.06	6825.00	175	136.1	15.0	13.90	15.0	14.13	Back	5	0.327	1.288	1.004	0.423	0.799	0.423	0.290		18.7	18.7	14.0
ANS/IEEE CS1.1.1982 - SAFETY LIMIT																Body											
Spatial Peak																1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population																averaged over 1 gram											
Note: To achieve the 18 dB minimum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15 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 APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	Reported SAR from Reference Model 1g [W/kg]	Adjusted APO [W/m² (4cm²)]	APD Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	EFS Pinch [dBm]
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	0979M	99.56	-0.06	6825.00	175	136.1	15.0	13.90	15.0	14.13	Back	5	2.340	1.288	1.004	3.026	5.787	3.026	0.166		21.1	21.1	14.0

Note: To achieve the 18 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15 dBm.

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Table 13-21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Dens. [mW/kg]	Frequency [MHz]	Channel #	Date Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [cm]	Measured SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported SAR [W/kg]	Reported SAR from Reference Model [W/kg]	Adjusted SAR [W/kg]	Adjusted SAR with Multi-Tx Factor [W/kg]	Exposure Ratio with Multi-Tx Factor [dB]	Plot #	Peak [dBm]	Overall Peak [dBm]	EIS Peak [dBm]
Phablet	6 GHz Wi-Fi (IEEE 802.11ax)	160	OFDM	MIMO	051764	99.56	0.00	6085.00	207	58.5	25.0	13.80	15.0	14.13	Top	0	0.045	1.038	1.004	0.057	0.058	0.457	0.503	0.125		22.3	22.3	14.0
Uncontrolled Exposure/General Population																												
Note: To achieve the 18 dBm maximum allowed MMRP power shown in the documentation, each antenna transmits at a maximum allowed power of 15 dBm.																												
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Dens. [mW/kg]	Frequency [MHz]	Channel #	Date Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [cm]	Measured APD [W/kg (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/kg (4cm²)]	Reported APD from Reference Model [W/kg (4cm²)]	Adjusted APD [W/kg (4cm²)]	Adjusted APD with Multi-Tx Factor [W/kg (4cm²)]	APD Exposure Ratio with Multi-Tx Factor [dB]	Plot #	Peak [dBm]	Overall Peak [dBm]	EIS Peak [dBm]
Phablet	6 GHz Wi-Fi (IEEE 802.11ax)	160	OFDM	MIMO	051764	99.56	0.00	6085.00	207	58.5	25.0	13.80	15.0	14.13	Top	0	0.060	1.118	1.004	0.066	0.066	0.571	0.666	0.193		15.7	15.7	14.0
Note: To achieve the 18 dBm maximum allowed MMRP power shown in the documentation, each antenna transmits at a maximum allowed power of 15 dBm.																												

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 D04v01.
- 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 D04v01.
- Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 5 mm was considered to ensure compliance with all body-worn accessories available in the marketplace.
- 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 15 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" when it is in the closed configuration 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 16 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 was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
- Per October 2020 TCB Workshop notes, absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
- Per FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of device with the device touching the phantom when the device is in the open configuration. The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.

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16. When testing Body-worn/Hotspot/Phablet exposure conditions, the DUT is in closed configuration. When testing Body exposure conditions, the DUT is in an open configuration. When testing Head exposure conditions, the DUT is in an open/closed configuration.
17. For Bluetooth MIMO and 2.4 GHz WLAN MIMO back side testing, the device was tested with a right tilt (Configuration 1) and top tilt (Configuration 2) to ensure both antenna hotspots are recorded and the most conservative SAR measurement is taken.

GSM Test Notes:

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

UMTS Notes:

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

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 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 D04v01, when the reported 1g SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for LTE B41/48, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.

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.

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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 D04v01, when the reported NR Band n41 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations and > 1.5 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
7. SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.
8. For final implementation, NR Band n41, 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.

WLAN Notes:

1. For held-to-ear, hotspot, and phablet operations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g evaluations, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 9.6.5 for more information.
3. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 9.6.6 for more information.
4. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D04v01 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Multi-TX and Antenna SAR Considerations Appendix for complete analysis.
5. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
6. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to 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.

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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 in the closed configuration and tablet in the open configuration based on expected usage conditions.
2. Per FCC guidance, SAR was performed using 6.5 GHz/8GHz probe calibration factor for UWB.

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14 POWER DENSITY DATA SUMMARY

14.1 6 GHz WIFI Power Density Closed Results

Table 14-1 | Plot A73

MEASUREMENT RESULTS																									
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power 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 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6505.00	111	802.11ax	OFDM	160	15.00	14.08	N/A	N/A	0.13	2	F	0973M	68.05	Back	99.96	0.125	-	1.554	1.236	1.004	2.470	4.763	2.910	5.812	
5965.00	3	802.11ax	OFDM	40	17.00	16.61	N/A	N/A	-0.16	2	F	0973M	16.25	Front	99.27	0.125	-	1.554	1.094	1.007	0.423	0.724	0.477	0.817	
6345.00	79	802.11ax	OFDM	160	15.00	14.21	N/A	N/A	0.31	2	F	0973M	68.05	Top	99.96	0.125	-	1.554	1.199	1.004	1.730	3.236	2.950	5.519	
6025.00	15	802.11ax	OFDM	160	N/A	N/A	15.00	14.30	-0.14	2	E	0973M	68.05	Back	99.27	0.125	-	1.554	1.175	1.007	1.250	2.298	1.620	2.979	
5965.00	3	802.11ax	OFDM	40	N/A	N/A	17.00	16.42	-0.13	2	E	0973M	16.25	Front	99.96	0.125	-	1.554	1.143	1.004	1.910	2.693	1.770	3.195	
6025.00	15	802.11ax	OFDM	160	N/A	N/A	15.00	14.30	0.04	2	E	0973M	68.05	Top	99.27	0.125	0.996	1.554	1.175	1.007	2.790	5.130	3.420	6.288	Plot
6025.00	15	802.11ax	OFDM	160	N/A	N/A	15.00	14.30	-0.05	9.95	E	0973M	68.05	Top	99.27	0.125	0.557	1.554	1.175	1.007	0.822	1.511	0.863	1.624	
5965.00	175	802.11ax	OFDM	160	15.00	13.90	15.00	14.13	-0.13	2	MIMO	0973M	136.11	Back	99.96	0.125	-	1.554	1.288	1.004	2.280	4.582	2.600	5.225	
6885.00	3	802.11ax	OFDM	40	17.00	16.61	17.00	16.55	-0.03	2	MIMO	0973M	32.5	Front	99.49	0.125	-	1.554	1.109	1.005	1.860	3.222	2.120	3.672	
6985.00	207	802.11ax	OFDM	160	15.00	13.80	15.00	14.12	0.07	2	MIMO	0973M	136.11	Top	99.96	0.125	-	1.554	1.318	1.004	1.720	3.537	2.100	4.318	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population												Power Density 10 W/m² averaged over 4 cm²													

14.2 6 GHz WIFI Power Density Open Results

Table 14-2 | Plot A74

MEASUREMENT RESULTS																									
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) (dBm)	Conducted Power (Ant 1) (dBm)	Maximum Allowed Power (Ant 2) (dBm)	Conducted Power (Ant 2) (dBm)	Power Drift (dB)	Spacing (cm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	IPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6985.00	207	802.11ax	OFDM	160	15.00	13.80	N/A	N/A	0.02	2	F	0979M	68.1	Top	99.96	0.125	1.670	1.554	1.318	1.004	3.040	6.251	3.450	7.094	
6985.00	207	802.11ax	OFDM	160	15.00	13.80	N/A	N/A	0.04	8.58	F	0979M	68.1	Top	99.96	0.125	1.680	1.554	1.318	1.004	1.280	2.632	1.360	2.797	
5965.00	3	802.11ax	OFDM	40	17.00	16.61	N/A	N/A	0.12	2	F	0973M	16.3	Back	99.27	0.125	-	1.554	1.094	1.007	1.340	2.294	1.450	2.482	
6025.00	15	802.11ax	OFDM	160	N/A	N/A	15.0	14.30	-0.08	2	E	0979M	68.1	Top	99.27	0.125	-	1.554	1.175	1.007	2.330	4.284	3.890	7.153	Plot
5965.00	3	802.11ax	OFDM	40	N/A	N/A	17.0	16.42	-0.15	2	E	0973M	16.3	Back	99.96	0.125	-	1.554	1.143	1.004	1.660	2.960	2.110	3.763	
6025.00	15	802.11ax	OFDM	160	15.00	14.12	15.0	14.35	-0.20	2	MIMO	0979M	58.5	Top	99.96	0.125	-	1.554	1.225	1.004	1.910	3.651	3.620	6.919	
5965.00	3	802.11ax	OFDM	40	17.00	16.61	17.00	16.55	0.14	2	MIMO	0973M	32.5	Back	99.49	0.125	-	1.554	1.109	1.005	1.180	2.044	2.190	3.793	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population															Power Density 10 W/m² averaged over 4 cm²										

14.3 UWB Power Density Closed Results

Table 14-3 | Plot A75

MEASUREMENT RESULTS															
Frequency (MHz)	Channel	Mode	Power Drift (dB)	Spacing (mm)	Antenna Config.	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	0.00	2	G	0959M	Back	0.125	0.322	1.554	0.129	0.200	0.131	0.204	
6489.60	5	CW	-0.13	9.24	G	0959M	Back	0.125	0.314	1.554	0.124	0.193	0.172	0.267	Plot
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population						Power Density 10 W/m² averaged over 4 cm²									

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14.4 UWB Power Density Open Results

Table 14-4 | PlotA76

MEASUREMENT RESULTS															
Frequency (MHz)	Channel	Mode	Power Drift (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Side	Grid Step (λ)	iPD (W/m ²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)	Plot #
6489.60	5	CW	0.00	2	G	0959M	Right	0.125	0.431	1.554	0.223	0.347	0.237	0.368	Plot
6489.60	5	CW	0.12	9.24	G	0959M	Right	0.125	0.343	1.554	0.155	0.241	0.160	0.249	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population						Power Density 10 W/m ² averaged over 4 cm ²									

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.
10. Based on FCC KDB 388624 D02, the incident Power Density (IPD) evaluations were performed on the test configuration that exhibited the highest SAR during the SAR evaluations, for frequencies between 6000 MHz and 8500 MHz.

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15 SAR MEASUREMENT VARIABILITY

15.1 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 15-1
Closed 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)
1750	1745.00	349000	NR Band n66, 40 MHz Bandwidth	DFT-s-OFDM QPSK, 216 RB 0 RB Offset	Left	Tilt	G	1.020	1.010	1.01	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 15-2
Open 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)
2450	2437.00	6	2.4 GHz WiFi/IEEE 802.11b	DSSS	Right	Cheek	F	0.827	0.824	1.00	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 15-3
Closed 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)
835	836.50	20525	LTE Band 5 (Cell), 10 MHz Bandwidth	QPSK, 1 RB, 25 RB Offset	Back	5 mm	A+C	0.860	0.811	1.06	N/A	N/A	N/A
2600	2592.99	518598	NR Band n41, 100 MHz Bandwidth	CP-OFDM QPSK, 1 RB, 1 RB offset	Back	5 mm	G	1.050	0.956	1.10	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram						

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15.2 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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16 ADDITIONAL TESTING PER FCC GUIDANCE

16.1 Tuner Testing

Per April 2019 and October 2024 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 the tuner states and ensure that the condition leading to the largest SAR has been captured, the follow checklist procedure was applied.

1. For each combination and with auto-tune mechanism turned on, the highest measured SAR configuration was determined and the auto-tune state was recorded.
2. A single point time-sweep measurement was performed at the peak SAR location determined by the area scan of the configuration.
3. The auto-tune mechanism was turned off and one random state from the 144 possible states was selected. The single point time-sweep measurement was repeated at the randomly selected tune state. The single point SAR of the randomly selected tune-state must be less than or equal to the recorded single point SAR of the auto-tune state.
4. The auto-tune mechanism was turned back on and the single point time-sweep measurement was repeated. The auto-tune state was recovered and previous auto-tune single point SAR should be equivalent to that measured in step 2.

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

Table 16-1
UMTS Supplemental Closed Head SAR Data

Supplemental Head SAR Data		Supplemental Head SAR Data	
UMTS B5 Ant A		UMTS B5 Ant A+C	
RMC		RMC	
Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	836.60	Frequency (MHz)	836.60
Channel	4183	Channel	4183
Measured 1g SAR (W/kg)	0.239	Measured 1g SAR (W/kg)	0.204
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 20 F0)	0.236	Auto-tune (State 20 F0)	0.207
Random (State 20 E1)	0.230	Random (State 1F A5)	0.189
Auto-tune (State 20 F0)	0.237	Auto-tune (State 20 F0)	0.204

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Table 16-2
UMTS Supplemental Open Head SAR Data

Supplemental Head SAR Data	
UMTS B5 A+C	
RMC	
Test Position	Left Cheek
Frequency (MHz)	836.60
Channel	4183
Measured 1g SAR (W/kg)	0.307
Average Value of Time Sweep (W/kg)	
Auto-tune (State 20 F0)	0.299
Random (State 1 87)	0.022
Auto-tune (State 20 F0)	0.299

Table 16-3
LTE Supplemental Closed Head SAR Data

Supplemental Head SAR Data					
LTE B12 Ant A		LTE B13 Ant A		LTE B5 Ant A	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	836.50
Channel	23095	Channel	23230	Channel	20525
Measured 1g SAR (W/kg)	0.121	Measured 1g SAR (W/kg)	0.166	Measured 1g SAR (W/kg)	0.222
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 1F E1)	0.132	Auto-tune (State 20 E1)	0.143	Auto-tune (State 20 F0)	0.242
Random (State 20 D2)	0.114	Random (State D E1)	0.071	Random (State 0 87)	0.007
Auto-tune (State 1F E1)	0.132	Auto-tune (State 20 E1)	0.142	Auto-tune (State 20 F0)	0.235

Supplemental Head SAR Data					
LTE B12 Ant A+C		LTE B13 Ant A+C		LTE B5 Ant A+C	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	836.50
Channel	23095	Channel	23230	Channel	20525
Measured 1g SAR (W/kg)	0.122	Measured 1g SAR (W/kg)	0.123	Measured 1g SAR (W/kg)	0.212
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 1F E1)	0.121	Auto-tune (State 20 E1)	0.126	Auto-tune (State 20 A5)	0.220
Random (State 19 5A)	0.112	Random (State 3 C3)	0.021	Random (State 1 F0)	0.025
Auto-tune (State 1F E1)	0.126	Auto-tune (State 20 E1)	0.129	Auto-tune (State 20 A5)	0.212

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Table 16-4
LTE Supplemental Open Head SAR Data

Supplemental Head SAR Data					
LTE B12 Ant A+C		LTE B13 Ant A+C		LTE B5 Ant A+C	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Left Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	836.50
Channel	23095	Channel	23230	Channel	20525
Measured 1g SAR (W/kg)	0.177	Measured 1g SAR (W/kg)	0.213	Measured 1g SAR (W/kg)	0.247
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 20 E1)	0.194	Auto-tune (State 20 E1)	0.250	Auto-tune (State 20 F0)	0.282
Random (State D A5)	0.144	Random (State 1F C3)	0.237	Random (State 11 A5)	0.255
Auto-tune (State 20 E1)	0.193	Auto-tune (State 20 E1)	0.249	Auto-tune (State 20 F0)	0.282

Table 16-5
NR Supplemental Closed Head SAR Data

Supplemental Head SAR Data		Supplemental Head SAR Data	
NR Band n5 Ant A		NR Band n5 Ant A+C	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 1 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	836.50	Frequency (MHz)	836.50
Channel	167300	Channel	167300
Measured 1g SAR (W/kg)	0.191	Measured 1g SAR (W/kg)	0.189
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 20 F0)	0.199	Auto-tune (State 20 F0)	0.203
Random (State 8 F0)	0.097	Random (State 1F D2)	0.189
Auto-tune (State 20 F0)	0.202	Auto-tune (State 20 F0)	0.198

Table 16-6
NR Supplemental Open Head SAR Data

Supplemental Head SAR Data	
NR Band n5 Ant A+C	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset	
Test Position	Left Cheek
Frequency (MHz)	836.50
Channel	167300
Measured 1g SAR (W/kg)	0.197
Average Value of Time Sweep (W/kg)	
Auto-tune (State 20 F0)	0.188
Random (State 20 87)	0.133
Auto-tune (State 20 F0)	0.187

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Table 16-7
UMTS Supplemental Closed Body SAR Data

Supplemental Body SAR Data		Supplemental Body SAR Data	
UMTS B5 Ant A		UMTS B5 Ant A+C	
RMC		RMC	
Test Position	Back	Test Position	Back
Spacing	5 mm	Spacing	5 mm
Frequency (MHz)	826.40	Frequency (MHz)	836.60
Channel	4132	Channel	4183
Measured 1g SAR (W/kg)	0.765	Measured 1g SAR (W/kg)	0.679
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 20 C3)	0.872	Auto-tune (State 20 F0)	0.555
Random (State D F0)	0.517	Random (State 19 78)	0.435
Auto-Tune (State 20 C3)	0.871	Auto-Tune (State 20 F0)	0.555

Table 16-8
UMTS Supplemental Open Body SAR Data

Supplemental Body SAR Data	
UMTS B5 Ant A+C	
RMC	
Test Position	Back
Spacing	5 mm
Frequency (MHz)	826.40
Channel	4132
Measured 1g SAR (W/kg)	0.413
Average Value of Time Sweep (W/kg)	
Auto-tune (State 20 E1)	0.517
Random (State 1F A5)	0.476
Auto-Tune (State 20 E1)	0.515

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Table 16-9
LTE Supplemental Closed Body SAR Data

Supplemental Body SAR Data					
LTE B12 Ant A		LTE B13 Ant A		LTE B5 Ant A	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back
Spacing	5 mm	Spacing	5 mm	Spacing	5 mm
Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	836.50
Channel	23095	Channel	23230	Channel	20525
Measured 1g SAR (W/kg)	0.679	Measured 1g SAR (W/kg)	0.675	Measured 1g SAR (W/kg)	0.748
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 20 E1)	0.692	Auto-tune (State 20 C3)	0.778	Auto-tune (State 20 B4)	0.754
Random (State 8 C3)	0.291	Random (State 1 78)	0.034	Random (State 11 D2)	0.628
Auto-Tune (State 20 E1)	0.696	Auto-Tune (State 20 C3)	0.774	Auto-Tune (State 20 B4)	0.760

Supplemental Body SAR Data					
LTE B12 Ant A+C		LTE B13 Ant A+C		LTE B5 Ant A+C	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back
Spacing	5 mm	Spacing	5 mm	Spacing	5 mm
Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	836.50
Channel	23095	Channel	23230	Channel	20525
Measured 1g SAR (W/kg)	0.760	Measured 1g SAR (W/kg)	0.675	Measured 1g SAR (W/kg)	0.860
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 20 F0)	0.794	Auto-tune (State 20 3C)	0.813	Auto-tune (State 20 F0)	0.884
Random (State 11 F0)	0.519	Random (State 0 E1)	0.036	Random (State 20 C3)	0.651
Auto-Tune (State 20 F0)	0.794	Auto-Tune (State 20 3C)	0.820	Auto-Tune (State 20 F0)	0.882

Table 16-10
LTE Supplemental Open Body SAR Data

Supplemental Body SAR Data					
LTE B12 Ant A+C		LTE B13 Ant A+C		LTE B5 Ant A+C	
QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 25 RB, 0 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back
Spacing	5 mm	Spacing	5 mm	Spacing	5 mm
Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	836.50
Channel	23095	Channel	23230	Channel	20525
Measured 1g SAR (W/kg)	0.392	Measured 1g SAR (W/kg)	0.447	Measured 1g SAR (W/kg)	0.402
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 20 E1)	0.432	Auto-tune (State 20 C3)	0.538	Auto-tune (State 20 F0)	0.449
Random (State 11 B4)	0.188	Random (State 8 69)	0.176	Random (State 11 D2)	0.395
Auto-Tune (State 20 E1)	0.435	Auto-Tune (State 20 C3)	0.541	Auto-Tune (State 20 F0)	0.450

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Table 16-11
NR Supplemental Closed Body SAR Data

Supplemental Body SAR Data		Supplemental Body SAR Data	
NR Band n5 Ant A		NR Band n5 Ant A+C	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 1 RB Offset		DFTs-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 1 RB Offset	
Test Position	Back	Test Position	Back
Spacing	5 mm	Spacing	5 mm
Frequency (MHz)	836.50	Frequency (MHz)	836.50
Channel	167300	Channel	167300
Measured 1g SAR (W/kg)	0.657	Measured 1g SAR (W/kg)	0.697
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 20 F0)	0.845	Auto-tune (State 1F E1)	0.713
Random (State 0 69)	0.051	Random (State 20 78)	0.717
Auto-Tune (State 20 F0)	0.847	Auto-Tune (State 1F E1)	0.705

Table 16-12
NR Supplemental Open Body SAR Data

Supplemental Body SAR Data	
NR Band n5 Ant A+C	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset	
Test Position	Back
Spacing	5 mm
Frequency (MHz)	836.50
Channel	167300
Measured 1g SAR (W/kg)	0.858
Average Value of Time Sweep (W/kg)	
Auto-tune (State 20 F0)	1.080
Random (State 01 78)	0.150
Auto-Tune (State 20 F0)	1.080

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17 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	10/23/2024	Annual	10/23/2025	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2024	Annual	11/15/2025	MY45093078
Agilent	NS182A	MVG Vector Signal Generator	7/9/2024	Annual	7/9/2025	MY48180366
Agilent	NS182A	MVG Vector Signal Generator	12/5/2024	Annual	12/5/2025	US46240505
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB41450275
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	7/15/2024	Annual	7/15/2025	1138001
Anritsu	ML2496A	Power Meter	6/24/2024	Annual	6/24/2025	1840005
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	3/14/2025	Annual	3/14/2026	6262044715
Anritsu	MT8000A	Radio Communication Test Station	4/1/2025	Annual	4/1/2026	6261987983
Anritsu	MT8000A	Radio Communication Test Station	3/11/2025	Annual	3/11/2026	6272337439
Anritsu	MT8000A	Radio Communication Test Station	11/12/2024	Annual	11/12/2025	6272337405
Anritsu	MA24106A	USB Power Sensor	7/10/2024	Annual	7/10/2025	1827530
Mini-Circuits	PWR-4GHS	Power Sensor	6/12/2024	Annual	6/12/2025	1200107013
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Keysight Technologies	N9020A	MXA Signal Analyzer	7/8/2024	Annual	7/8/2025	MY48010233
Agilent	N9020A	MXA Signal Analyzer	6/14/2024	Annual	6/14/2025	MY56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/10/2024	Annual	7/10/2025	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	4/2/2024	Biennial	4/2/2026	1262
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/2/2024	Annual	10/2/2025	171000
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	4/3/2025	Annual	4/3/2026	167285
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	4/3/2025	Annual	4/3/2026	106578
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2/22/2025	Annual	2/22/2026	168527
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/6/2025	Annual	1/6/2026	150117
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	12/10/2024	Annual	12/10/2025	161616
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/5/2024	Annual	11/5/2025	1277
SPEAG	DAK3-3.5	Portable Dielectric Assessment Kit	8/7/2024	Annual	8/7/2025	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
SPEAG	CLA-13	Confined Loop Antenna	9/4/2024	Annual	9/4/2025	1002
SPEAG	D1750V2	1750 MHz SAR Dipole	1/13/2025	Annual	1/13/2026	1148
SPEAG	D1750V2	1750 MHz SAR Dipole	11/7/2024	Annual	11/7/2025	1150
SPEAG	D1900V2	1900 MHz SAR Dipole	2/7/2025	Annual	2/7/2026	5d148
SPEAG	D1900V2	1900 MHz SAR Dipole	8/8/2022	Triennial	8/8/2025	5d080
SPEAG	D2450V2	2450 MHz SAR Dipole	11/7/2024	Annual	11/7/2025	981
SPEAG	D2450V2	2450 MHz SAR Dipole	8/7/2024	Annual	8/7/2025	719
SPEAG	D2450V2	2450 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	797
SPEAG	D2600V2	2600 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	1071
SPEAG	D5GHzV2	5 GHz SAR Dipole	1/17/2024	Biennial	1/17/2026	1191
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	12/6/2024	Annual	12/6/2025	1018
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	2/4/2025	Annual	2/4/2026	1111
SPEAG	D8GHzV2	8 GHz SAR Dipole	3/6/2025	Annual	3/6/2026	1007
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	3/4/2025	Annual	3/4/2026	1002
SPEAG	D750V3	750 MHz SAR Dipole	10/7/2024	Annual	10/7/2025	1161
SPEAG	D750V3	750 MHz SAR Dipole	3/4/2025	Annual	3/4/2026	1054
SPEAG	D835V2	835 MHz SAR Dipole	3/4/2025	Annual	3/4/2026	4d047
SPEAG	D835V2	835 MHz SAR Dipole	1/18/2024	Biennial	1/18/2026	4d132
SPEAG	D835V2	835 MHz SAR Dipole	3/11/2024	Biennial	3/11/2026	4d133
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/13/2025	Annual	3/13/2026	859
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/11/2025	Annual	3/11/2026	1415
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2025	Annual	1/13/2026	1530
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/11/2024	Annual	6/11/2025	1558
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/7/2025	Annual	4/7/2026	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/9/2024	Annual	5/9/2025	1678
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/9/2024	Annual	5/9/2025	728
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/10/2024	Annual	12/10/2025	1450
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/8/2024	Annual	7/8/2025	1677
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/8/2024	Annual	7/8/2025	1583
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2024	Annual	9/10/2025	1449
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	2/7/2025	Annual	2/7/2026	1638
SPEAG	EX3DV4	SAR Probe	9/9/2024	Annual	9/9/2025	7670
SPEAG	EX3DV4	SAR Probe	3/7/2025	Annual	3/7/2026	7488
SPEAG	EX3DV4	SAR Probe	6/28/2024	Annual	6/28/2025	7803
SPEAG	EX3DV4	SAR Probe	11/11/2024	Annual	11/11/2025	7539
SPEAG	EX3DV4	SAR Probe	7/5/2024	Annual	7/5/2025	7406
SPEAG	EX3DV4	SAR Probe	4/8/2025	Annual	4/8/2026	7718
SPEAG	EX3DV4	SAR Probe	5/10/2024	Annual	5/10/2025	3914
SPEAG	EX3DV4	SAR Probe	6/14/2024	Annual	6/14/2025	7661
SPEAG	EX3DV4	SAR Probe	1/7/2025	Annual	1/7/2026	7713
SPEAG	EX3DV4	SAR Probe	5/8/2024	Annual	5/8/2025	7660
SPEAG	EX3DV4	SAR Probe	2/10/2025	Annual	2/10/2026	7570
SPEAG	EX3DV4	SAR Probe	4/7/2025	Annual	4/7/2026	7659
SPEAG	EX3DV4	SAR Probe	1/8/2025	Annual	1/8/2026	7571
SPEAG	EUmmWV3	EUmmWV3 Probe	1/8/2025	Annual	1/8/2026	9389

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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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18 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	191
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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19 CONCLUSION

19.1 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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