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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, M, O, P, R, S

1.2.2 Testing Laboratory 2

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY SAN JOSE, CA
Test Lab Location	18855 Adams Ct, Morgan Hill, CA 95037 USA United States Tel. +1.408.538.5600 / Fax +1.410.290.6654
Accreditation Info.	Lab Code. (ISED): 22831
	CAB Identifier (NIST): US0211
	ISO/IEC 17025 (A2LA): CERT #2041.02
	
Measurement system No.	AM10, AM13, AM16

1.2.3 Testing Laboratory 3

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY SUWON, LTD.
Test Lab Location	Yongin-si, Gyeonggi-do, 16954, South Korea Tel. +82.31.660.7391 / Fax +82)31-660-7318
Accreditation Info.	Lab Code. (ISED): 26168
	CAB Identifier (NIST): KR0169
	ISO/IEC 17025 (A2LA): CERT #2041.04
	
Measurement system No.	K2, K3, K6

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

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2 DEVICE UNDER TEST

2.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 26	Voice/Data	814.7 - 848.3 MHz
LTE Band 5	Voice/Data	824.7 - 848.3 MHz
LTE Band 66	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n66	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2	Voice/Data	1852.5 - 1907.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n77	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3975 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2462 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
UWB	Data	6489.6 - 7987.2 MHz

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2.1 Data Referencing

Reference Device		Variant Device	Key differences
FCC ID: A3LSMF966U		FCC ID: A3LSMF966B	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 data
NII	5 GHz WIFI	Y	See RF Exposure Report Section 13.3 and 13.4 for spot-check data
6CD	6 GHz WIFI	Y/N	See RF Exposure Report Section 13.5 and 13.6 for spot-check and Section 14.1 and 14.2 tested data
DSS	2.4 GHz BT	Y/N	See RF Exposure Report Section 13.7 and 13.8 for spot-check and Section 12.1 and 12.2 tested data

Per manufacturer declaration, there are two portable handset devices FCC ID: A3LSMF966U and FCC ID: A3LSMF966B, with high degree of similarity, reference model FCC ID: A3LSMF966U and variant model FCC ID: A3LSMF966B. 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: A3LSMF966B. 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: A3LSMF966B. 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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2.2 Time-Averaging Algorithm for RF Exposure Compliance

2.2.1 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 2.11– 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) 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 $\min\{P_{limit} * multi_tx_factor * 10^{(sub6 \text{ device uncertainty}/10)}, P_{max}\}$ in simultaneous transmission evaluations.

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. WLAN MIMO P_{max} and P_{limit} are defined per antenna chain.
5. Bluetooth MIMO P_{max} and P_{limit} are defined per Dual Configuration.

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/C - Head	F/O - Grip	F/C - Grip
Averaging Volume				1g	1g/10g	1g	1g	1g
Spacing				13mm, 10mm, 0mm	10mm, 5mm, 0mm	0mm	0mm	0mm
DSI				0	1	3	4	5
Technology/Band	Antenna	Antenna Group	P _{max}	P _{limit}	P _{limit}	P _{limit}	P _{limit}	P _{limit}
GSM 850	A, A+C	AG0	25.3	18.8	27.4	37.1	18.8	27.4
GSM 850	E	AG1	25.3	17.8	29.8	31.2	17.8	29.8
GSM 1900	B	AG0	22.1	11.8	18.3	30.2	11.8	18.3
UMTS 850	A, A+C	AG0	24.3	18.0	25.3	30.5	18.0	25.3
UMTS 850	E	AG1	24.3	19.0	27.3	29.2	19.0	27.3
UMTS 1750	G	AG1	23.5	21.0	16.0	18.0	11.0	16.0
UMTS 1900	B	AG0	23.8	12.0	18.0	30.1	12.0	18.0
LTE Band 12/17	A, A+C	AG0	24.2	18.5	26.5	30.6	18.5	26.5
LTE Band 12/17	E	AG1	24.2	18.0	25.3	29.8	18.0	25.3
LTE Band 13	A, A+C	AG0	24.5	18.5	26.5	30.9	18.5	26.5
LTE Band 13	E	AG1	24.5	18.0	26.1	27.6	18.0	26.1
LTE Band 26	A, A+C	AG0	24.5	18.0	25.6	30.6	18.0	25.6
LTE Band 26/5	E	AG1	24.0	19.0	26.5	30.1	19.0	26.5
LTE Band 5	A, A+C	AG0	24.0	18.0	25.6	30.6	18.0	25.6
LTE Band 66/4	B	AG0	24.5	12.0	18.0	29.6	12.0	18.0
LTE Band 66/4	G	AG1	24.5	21.0	17.0	19.5	11.0	17.0
LTE Band 25/2	B	AG0	24.0	12.0	17.5	30.1	12.0	17.5
LTE Band 25/2	G	AG1	24.0	21.0	17.0	19.5	10.5	17.0
LTE Band 41 PC3	B	AG0	22.0	11.0	17.5	34.8	11.0	17.5
LTE Band 41 PC3	G	AG1	22.0	19.0	16.5	16.0	8.5	16.5
LTE Band 41 PC2	B	AG0	21.9	11.0	17.5	34.8	11.0	17.5
LTE Band 41 PC2	G	AG1	21.9	19.0	16.5	16.0	8.5	16.5
NR Band n71	A, A+C	AG0	24.0	18.5	25.5	30.9	18.5	25.5
NR Band n71	E	AG1	24.0	18.5	26.0	30.0	18.5	26.0
NR Band n5	A, A+C	AG0	24.0	18.0	26.4	30.3	18.0	26.4
NR Band n5	E	AG1	24.0	19.0	26.7	30.4	19.0	26.7
NR Band n66	B	AG0	23.5	12.0	18.0	29.9	12.0	18.0
NR Band n66	G	AG1	23.5	21.0	17.0	19.5	11.0	17.0
NR Band n25/2	B	AG0	23.0	12.0	17.5	30.8	12.0	17.5
NR Band n25/2	G	AG1	23.0	21.0	17.0	19.5	10.5	17.0
NR Band n41 PC3 (Path 1)	G	AG1	24.0	19.0	16.5	16.0	9.0	16.5
NR Band n41 PC3 (Path 1)	B	AG0	20.0	11.0	17.5	32.3	11.0	17.5
NR Band n41 PC3 (Path 1)	H	AG1	20.5	7.0	14.0	14.0	7.0	14.0
NR Band n41 PC3 (Path 1)	D	AG0	18.5	7.0	14.0	14.0	7.0	14.0
NR Band n41 PC3 (Path 2)	B	AG0	24.0	11.0	17.5	32.3	11.0	17.5
NR Band n41 PC3 (Path 2)	G	AG1	21.5	14.0	14.0	14.0	9.0	14.0
NR Band n41 PC3 (Path 2)	D	AG0	23.5	7.0	14.0	14.0	7.0	14.0
NR Band n41 PC3 (Path 2)	H	AG1	16.0	7.0	8.0	8.0	7.0	8.0
NR Band n77 PC2	F	AG1	26.0	9.5	18.5	20.0	9.5	18.5
NR Band n77 PC2	C	AG0	20.0	7.0	14.0	14.0	7.0	14.0
NR Band n77 PC2	G	AG1	24.5	7.0	14.0	14.0	7.0	14.0
NR Band n77 PC2	A	AG0	19.0	7.0	14.0	14.0	7.0	14.0
2.4 GHz WIFI	H	AG1	19.0	12.0	17.0	29.5	12.0	17.0
2.4 GHz WIFI	F	AG1	19.0	12.0	17.0	24.9	12.0	17.0
2.4 GHz WIFI	MIMO	AG1	19.0	12.0	17.0	23.8	12.0	17.0
5 GHz WIFI	F	AG1	17.0	9.0	16.0	27.2	9.0	16.0
5 GHz WIFI	E	AG1	17.0	9.0	16.0	19.5	9.0	16.0
5 GHz WIFI	MIMO	AG1	17.0	9.0	16.0	18.2	9.0	16.0
6 GHz WIFI	F	AG1	16.0	9.0	14.0	26.3	9.0	14.0
6 GHz WIFI	E	AG1	16.0	9.0	14.0	21.0	9.0	14.0
6 GHz WIFI	MIMO	AG1	16.0	9.0	14.0	20.3	9.0	14.0
2.4 GHz Bluetooth	H	AG1	18.0	11.9	21.1	30.3	11.9	21.8
2.4 GHz Bluetooth	F	AG1	18.0	11.4	23.1	25.0	11.4	23.1
2.4 GHz Bluetooth	MIMO	AG1	16.5	13.4	24.2	25.6	13.4	24.2

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2.3 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.

2.4 Nominal and Maximum Output Power Specifications

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

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

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2.4.1 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	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (F/O - Body)	Max Allowed Power	29.0	29.0	26.0	24.2	23.0	27.5	26.0	24.0	23.0
	Nominal	28.0	28.0	25.0	23.2	22.0	26.5	25.0	23.0	22.0
DSI = 1 (F/C - Body)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 3 (F/C - Head)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 4 (F/O - Grip)	Max Allowed Power	29.0	29.0	26.0	24.2	23.0	27.5	26.0	24.0	23.0
	Nominal	28.0	28.0	25.0	23.2	22.0	26.5	25.0	23.0	22.0
DSI = 5 (F/C - Grip)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
GSM/GPRS/EDGE 850										
Antenna E										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Pmax	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (F/O - Body)	Max Allowed Power	28.0	28.0	25.0	23.2	22.0	27.5	25.0	23.2	22.0
	Nominal	27.0	27.0	24.0	22.2	21.0	26.5	24.0	22.2	21.0
DSI = 1 (F/C - Body)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 3 (F/C - Head)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 4 (F/O - Grip)	Max Allowed Power	28.0	28.0	25.0	23.2	22.0	27.5	25.0	23.2	22.0
	Nominal	27.0	27.0	24.0	22.2	21.0	26.5	24.0	22.2	21.0
DSI = 5 (F/C - Grip)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
GSM/GPRS/EDGE 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	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	30.0	30.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 0 (F/O - Body)	Max Allowed Power	22.0	22.0	19.0	17.2	16.0	22.0	19.0	17.2	16.0
	Nominal	21.0	21.0	18.0	16.2	15.0	21.0	18.0	16.2	15.0
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 = 3 (F/C - Head)	Max Allowed Power	31.0	31.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	30.0	30.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 4 (F/O - Grip)	Max Allowed Power	22.0	22.0	19.0	17.2	16.0	22.0	19.0	17.2	16.0
	Nominal	21.0	21.0	18.0	16.2	15.0	21.0	18.0	16.2	15.0
DSI = 5 (F/C - Grip)	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

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	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
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 = 3 (F/C - Head)	Max Allowed Power	25.3	24.3	24.3	24.3
	Nominal	24.3	23.3	23.3	23.3
DSI = 4 (F/O - Grip)	Max Allowed Power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
DSI = 5 (F/C - Grip)	Max Allowed Power	25.3	24.3	24.3	24.3
	Nominal	24.3	23.3	23.3	23.3
UMTS Band 5 (850 MHz)					
Antenna E					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Pmax	Max Allowed Power	25.3	24.3	24.3	24.3
	Nominal	24.3	23.3	23.3	23.3
DSI = 0 (F/O - Body)	Max Allowed Power	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0
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 = 3 (F/C - Head)	Max Allowed Power	25.3	24.3	24.3	24.3
	Nominal	24.3	23.3	23.3	23.3
DSI = 4 (F/O - Grip)	Max Allowed Power	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0
DSI = 5 (F/C - Grip)	Max Allowed Power	25.3	24.3	24.3	24.3
	Nominal	24.3	23.3	23.3	23.3
UMTS Band 4 (1750 MHz)					
Antenna G					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Pmax	Max Allowed Power	24.5	23.5	23.5	23.5
	Nominal	23.5	22.5	22.5	22.5
DSI = 0 (F/O - Body)	Max Allowed Power	22.0	21.0	21.0	21.0
	Nominal	21.0	20.0	20.0	20.0
DSI = 1 (F/C - Body)	Max Allowed Power	17.0	16.0	16.0	16.0
	Nominal	16.0	15.0	15.0	15.0
DSI = 3 (F/C - Head)	Max Allowed Power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
DSI = 4 (F/O - Grip)	Max Allowed Power	12.0	11.0	11.0	11.0
	Nominal	11.0	10.0	10.0	10.0
DSI = 4 (F/O - Grip)	Max Allowed Power	17.0	16.0	16.0	16.0
	Nominal	16.0	15.0	15.0	15.0
UMTS Band 2 (1900 MHz)					
Antenna B					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Pmax	Max Allowed Power	24.8	23.8	23.8	23.8
	Nominal	23.8	22.8	22.8	22.8
DSI = 0 (F/O - Body)	Max Allowed Power	13.0	12.0	12.0	12.0
	Nominal	12.0	11.0	11.0	11.0
DSI = 1 (F/C - Body)	Max Allowed Power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
DSI = 3 (F/C - Head)	Max Allowed Power	24.8	23.8	23.8	23.8
	Nominal	23.8	22.8	22.8	22.8
DSI = 4 (F/O - Grip)	Max Allowed Power	13.0	12.0	12.0	12.0
	Nominal	12.0	11.0	11.0	11.0
DSI = 5 (F/C - Grip)	Max Allowed Power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0

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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 = 3 (F/C - Head)	DSI = 4 (F/O - Grip)	DSI = 5 (F/C - Grip)
LTE Band 12	A, A+C	Max Allowed Power	25.2	19.5	25.2	25.2	19.5	25.2
		Nominal	24.2	18.5	24.2	24.2	18.5	24.2
LTE Band 12	E	Max Allowed Power	25.2	19.0	25.2	25.2	19.0	25.2
		Nominal	24.2	18.0	24.2	24.2	18.0	24.2
LTE Band 17	A, A+C	Max Allowed Power	25.2	19.5	25.2	25.2	19.5	25.2
		Nominal	24.2	18.5	24.2	24.2	18.5	24.2
LTE Band 17	E	Max Allowed Power	25.2	19.0	25.2	25.2	19.0	25.2
		Nominal	24.2	18.0	24.2	24.2	18.0	24.2
LTE Band 13	A, A+C	Max Allowed Power	25.5	19.5	25.5	25.5	19.5	25.5
		Nominal	24.5	18.5	24.5	24.5	18.5	24.5
LTE Band 13	E	Max Allowed Power	25.5	19.0	25.5	25.5	19.0	25.5
		Nominal	24.5	18.0	24.5	24.5	18.0	24.5
LTE Band 26	A, A+C	Max Allowed Power	25.5	19.0	25.5	25.5	19.0	25.5
		Nominal	24.5	18.0	24.5	24.5	18.0	24.5
LTE Band 26	E	Max Allowed Power	25.0	20.0	25.0	25.0	20.0	25.0
		Nominal	24.0	19.0	24.0	24.0	19.0	24.0
LTE Band 5	A, A+C	Max Allowed Power	25.0	19.0	25.0	25.0	19.0	25.0
		Nominal	24.0	18.0	24.0	24.0	18.0	24.0
LTE Band 5	E	Max Allowed Power	25.0	20.0	25.0	25.0	20.0	25.0
		Nominal	24.0	19.0	24.0	24.0	19.0	24.0
LTE Band 66	B	Max Allowed Power	25.5	13.0	19.0	25.5	13.0	19.0
		Nominal	24.5	12.0	18.0	24.5	12.0	18.0
LTE Band 66	G	Max Allowed Power	25.5	22.0	18.0	20.5	12.0	18.0
		Nominal	24.5	21.0	17.0	19.5	11.0	17.0
LTE Band 4	B	Max Allowed Power	25.5	13.0	19.0	25.5	13.0	19.0
		Nominal	24.5	12.0	18.0	24.5	12.0	18.0
LTE Band 4	G	Max Allowed Power	25.5	22.0	18.0	20.5	12.0	18.0
		Nominal	24.5	21.0	17.0	19.5	11.0	17.0
LTE Band 25	B	Max Allowed Power	25.0	13.0	18.5	25.0	13.0	18.5
		Nominal	24.0	12.0	17.5	24.0	12.0	17.5
LTE Band 25	G	Max Allowed Power	25.0	22.0	18.0	20.5	11.5	18.0
		Nominal	24.0	21.0	17.0	19.5	10.5	17.0
LTE Band 2	B	Max Allowed Power	25.0	13.0	18.5	25.0	13.0	18.5
		Nominal	24.0	12.0	17.5	24.0	12.0	17.5
LTE Band 2	G	Max Allowed Power	25.0	22.0	18.0	20.5	11.5	18.0
		Nominal	24.0	21.0	17.0	19.5	10.5	17.0
LTE Band 41 PC3	B	Max Allowed Power	25.0	14.0	20.5	25.0	14.0	20.5
		Nominal	24.0	13.0	19.5	24.0	13.0	19.5
LTE Band 41 PC3	G	Max Allowed Power	25.0	22.0	19.5	19.0	11.5	19.5
		Nominal	24.0	21.0	18.5	18.0	10.5	18.5
LTE Band 41 PC2	B	Max Allowed Power	26.5	15.6	22.1	26.5	15.6	22.1
		Nominal	25.5	14.6	21.1	25.5	14.6	21.1
LTE Band 41 PC2	G	Max Allowed Power	26.5	23.6	21.1	20.6	13.1	21.1
		Nominal	25.5	22.6	20.1	19.6	12.1	20.1

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

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)					
			Pmax	DSI = 0 (F/O - Body)	DSI = 1 (F/C - Body)	DSI = 3 (F/C - Head)	DSI = 4 (F/O - Grip)	DSI = 5 (F/C - Grip)
NR Band n71	A, A+C	Max Allowed Power	25.0	19.5	25.0	25.0	19.5	25.0
		Nominal	24.0	18.5	24.0	24.0	18.5	24.0
NR Band n71	E	Max Allowed Power	25.0	19.5	25.0	25.0	19.5	25.0
		Nominal	24.0	18.5	24.0	24.0	18.5	24.0
NR Band n5	A, A+C	Max Allowed Power	25.0	19.0	25.0	25.0	19.0	25.0
		Nominal	24.0	18.0	24.0	24.0	18.0	24.0
NR Band n5	E	Max Allowed Power	25.0	20.0	25.0	25.0	20.0	25.0
		Nominal	24.0	19.0	24.0	24.0	19.0	24.0
NR Band n66	B	Max Allowed Power	24.5	13.0	19.0	24.5	13.0	19.0
		Nominal	23.5	12.0	18.0	23.5	12.0	18.0
NR Band n66	G	Max Allowed Power	24.5	22.0	18.0	20.5	12.0	18.0
		Nominal	23.5	21.0	17.0	19.5	11.0	17.0
NR Band n25	B	Max Allowed Power	24.0	13.0	18.5	24.0	13.0	18.5
		Nominal	23.0	12.0	17.5	23.0	12.0	17.5
NR Band n25	G	Max Allowed Power	24.0	22.0	18.0	20.5	11.5	18.0
		Nominal	23.0	21.0	17.0	19.5	10.5	17.0
NR Band n2	B	Max Allowed Power	24.0	13.0	18.5	24.0	13.0	18.5
		Nominal	23.0	12.0	17.5	23.0	12.0	17.5
NR Band n2	G	Max Allowed Power	24.0	22.0	18.0	20.5	11.5	18.0
		Nominal	23.0	21.0	17.0	19.5	10.5	17.0
NR Band n41 PC3 (Path 1)	G	Max Allowed Power	25.0	20.0	17.5	17.0	10.0	17.5
		Nominal	24.0	19.0	16.5	16.0	9.0	16.5
NR Band n41 PC3 (Path 1)	B	Max Allowed Power	21.0	12.0	18.5	21.0	12.0	18.5
		Nominal	20.0	11.0	17.5	20.0	11.0	17.5
NR Band n41 PC3 (Path 1)	H	Max Allowed Power	21.5	8.0	15.0	15.0	8.0	15.0
		Nominal	20.5	7.0	14.0	14.0	7.0	14.0
NR Band n41 PC3 (Path 1)	D	Max Allowed Power	19.5	8.0	15.0	15.0	8.0	15.0
		Nominal	18.5	7.0	14.0	14.0	7.0	14.0
NR Band n41 PC3 (Path 2)	B	Max Allowed Power	25.0	12.0	18.5	25.0	12.0	18.5
		Nominal	24.0	11.0	17.5	24.0	11.0	17.5
NR Band n41 PC3 (Path 2)	G	Max Allowed Power	22.5	15.0	15.0	15.0	10.0	15.0
		Nominal	21.5	14.0	14.0	14.0	9.0	14.0
NR Band n41 PC3 (Path 2)	D	Max Allowed Power	24.5	8.0	15.0	15.0	8.0	15.0
		Nominal	23.5	7.0	14.0	14.0	7.0	14.0
NR Band n41 PC3 (Path 2)	H	Max Allowed Power	17.0	8.0	9.0	9.0	8.0	9.0
		Nominal	16.0	7.0	8.0	8.0	7.0	8.0
NR Band n77 PC2	F	Max Allowed Power	27.0	10.5	19.5	21.0	10.5	19.5
		Nominal	26.0	9.5	18.5	20.0	9.5	18.5
NR Band n77 PC2	C	Max Allowed Power	21.0	8.0	15.0	15.0	8.0	15.0
		Nominal	20.0	7.0	14.0	14.0	7.0	14.0
NR Band n77 PC2	G	Max Allowed Power	25.5	8.0	15.0	15.0	8.0	15.0
		Nominal	24.5	7.0	14.0	14.0	7.0	14.0
NR Band n77 PC2	A	Max Allowed Power	20.0	8.0	15.0	15.0	8.0	15.0
		Nominal	19.0	7.0	14.0	14.0	7.0	14.0

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

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2.4.2 2.4 GHz WLAN Output Power

The table below is applicable in the following conditions:

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

IEEE 802.11 Multiband Output Power (mW)																																	IEEE 802.11 WLAN Output Power (mW)																																
BSS1																BSS2																BSS3																BSS4																	
Antenna 1								Antenna 2								Antenna 3								Antenna 4								Antenna 5								Antenna 6								Antenna 7								Antenna 8									
Max		Norm		Max		Norm		Max		Norm		Max		Norm		Max		Norm		Max		Norm		Max		Norm		Max		Norm		Max		Norm		Max		Norm		Max		Norm		Max		Norm																			
20.0		18.0		18.0		17.0		18.0		17.0		18.0		17.0		18.0		17.0		18.0		17.0		18.0		17.0		18.0		17.0		18.0		17.0		18.0		17.0		18.0		17.0		18.0		17.0																			
45.12		43.12		43.12		42.12		43.12		42.12		43.12		42.12		43.12		42.12		43.12		42.12		43.12		42.12		43.12		42.12		43.12		42.12		43.12		42.12		43.12		42.12		43.12		42.12																			
2.4 GHz WLAN																																	5 GHz WLAN																																

The table below is applicable in the following conditions:

- DSI = 1 (F/C Body), DSI = 5 (F/C Grip)

IEEE 802.11 Multiband Output Power (mW)																																		IEEE 802.11 WLAN Output Power (mW)																																	
BSS1																	BSS2																	BSS3																	BSS4																
Module	Antenna 1								Antenna 2								Antenna 3								Antenna 4								Antenna 5								Antenna 6								Antenna 7								Antenna 8										
	+5				-5				+5				-5				+5				-5				+5				-5				+5				-5				+5				-5				+5				-5														
	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm																											
2.4 GHz WLAN	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0																									
	45.12	43.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12																								

The table below is applicable in the following conditions:

- DSI = 0 (F/O Body), DSI = 4 (F/O Grip)

IEEE 802.11 Multiband Output Power (mW)																																IEEE 802.11 WLAN Output Power (mW)																																
Module	BSS1																BSS2																BSS3																BSS4															
	Antenna 1								Antenna 2								Antenna 3								Antenna 4								Antenna 5								Antenna 6								Antenna 7								Antenna 8							
	v		w		w(dB)		w(dB)		v		w		w(dB)		w(dB)		v		w		w(dB)		w(dB)		v		w		w(dB)		w(dB)		v		w		w(dB)		w(dB)																									
Maximum / Nominal Power	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm																										
2.4 GHz WLAN	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0																										
	45.12	43.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12	43.12	42.12																										

2.4.3 5 GHz WLAN Output Power

The table below is applicable in the following conditions:

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

Module	Band	IEEE 802.11 Multiband Output Power (mW)																																IEEE 802.11 WLAN Output Power (mW)																															
		BSS1																BSS2																BSS3 in MIMO																															
		Antenna 1								Antenna 2								Antenna 3								Antenna 4								Antenna 5								Antenna 6								Antenna 7								Antenna 8							
		a		b		c		d		e (20)		f (20)		g		h		i		j (20)		k (20 + 570C)		l (20 + 570C, 520A)		m (20 + 570C, 520A)		n (20 + 570C, 520A)		o (20 + 570C, 520A)		p (20 + 570C, 520A)		q (20 + 570C, 520A)		r (20 + 570C, 520A)		s (20 + 570C, 520A)																											
Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm																										
5 GHz (WIFI, 20MHz BW)	UNB-1	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0																									
	UNB-2A	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0																									
	UNB-2C	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0																									
	UNB-3	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0																									
5 GHz (WIFI, 40MHz BW)	UNB-4	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0																									
	UNB-1	18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0																			
	UNB-2A	18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0																			
	UNB-2C	18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0																			
5 GHz (WIFI, 80MHz BW)	UNB-3	18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0																			
	UNB-4	18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0				18.0				17.0																			
	UNB-1	11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0																			
	UNB-2A	11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0																			
5 GHz (WIFI, 160MHz BW)	UNB-2C	11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0																			
	UNB-3	11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0																			
	UNB-4	11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0																			
	UNB-10A	11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0																			
5 GHz (WIFI, 320MHz BW)	UNB-2C	11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0																			
	UNB-3A	11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0																			
	UNB-4	11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0																			
	UNB-10A	11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0				11.0																			

The table below is applicable in the following conditions:

- DSI = 1 (F/C Body), DSI = 5 (F/C Grip)

[illegible]

The table below is applicable in the following conditions:

- DSI = 0 (F/O Body), DSI = 4 (F/O Grip)

[illegible]

2.4.4 6 GHz WLAN Output Power

The table below is applicable in the following conditions:

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

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	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	
		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-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	
	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	
6 GHz WiFi (80MHz BW) - SP	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	
	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	
6 GHz WiFi (160MHz BW) - SP	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	
	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	
6 GHz WiFi (320MHz BW) - SP	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-5					15.0	14.0					15.0	14.0					15.0	14.0	

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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 ch. 2:	10.0 10.0	11.0 ch. 2:	10.0 10.0	11.0	10.0	11.0 ch. 2:	10.0 10.0	11.0 ch. 2:	10.0 10.0	11.0	10.0	11.0 ch. 2:	10.0 10.0	11.0 ch. 2:	10.0 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						
	UNII-7			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						
6 GHz WiFi (80MHz BW) - LPI	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						
	UNII-7			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0						
	UNII-8			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0						
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						
	UNII-7			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						
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						
	UNII-7					15.0	14.0					15.0	14.0						
	UNII-8					15.0	14.0					15.0	14.0						
Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
Maximum / Nominal Power		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)	
6 GHz WiFi (20MHz BW) - VLP	UNII-5	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
6 GHz WiFi (40MHz BW) - VLP	UNII-5			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							
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							
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							
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							

The table below is applicable in the following conditions:

- DSI = 1 (F/C Body), DSI = 5 (F/C Grip)

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 ch. 2: 12.0	14.0 11.0	15.0 ch. 2: 10.0	14.0 9.0	15.0 ch. 2: 10.0	14.0 9.0	15.0 ch. 2: 12.0	14.0 11.0	15.0 ch. 2: 10.0	14.0 9.0	15.0 ch. 2: 10.0	14.0 9.0	15.0 ch. 2: 12.0	14.0 11.0	15.0 ch. 2: 10.0	14.0 9.0	15.0 ch. 2: 10.0	14.0 9.0
	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
	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
	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
	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
	15.0			14.0	15.0	14.0	15.0			14.0	15.0	14.0							

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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

The table below is applicable in the following conditions:

- DSI = 0 (F/O Body), DSI = 4 (F/O Grip)

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	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
	UNII-7	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
6 GHz WiFi (40MHz BW) - SP	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
6 GHz WiFi (80MHz BW) - SP	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
6 GHz WiFi (160MHz BW) - SP	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
6 GHz WiFi (320MHz BW) - SP	UNII-5					10.0	9.0					10.0	9.0					10.0	9.0
	UNII-7					10.0	9.0					10.0	9.0					10.0	9.0

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		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	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
	UNII-6	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
	UNII-7	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
	UNII-8	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
6 GHz WiFi (40MHz BW) - LPI	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-6			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
	UNII-8			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
6 GHz WiFi (80MHz BW) - LPI	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-6			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
	UNII-8			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
6 GHz WiFi (160MHz BW) - LPI	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-6			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
	UNII-8			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
6 GHz WiFi (320MHz BW) - LPI	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-6			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
	UNII-8			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
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						
6 GHz WiFi (80MHz BW) - VLP	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
6 GHz WiFi (160MHz BW) - VLP	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						
6 GHz WiFi (320MHz BW) - VLP	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0
	UNII-7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0						

2.4.5 2.4 GHz Maximum Bluetooth Output Power

The table below is applicable in the following conditions:

- P_{max}, DSI = 1 (F/C Body), DSI = 3 (F/C Head), DSI = 5 (F/C Grip)

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Dual Antenna	
		Antenna H		Antenna F		MIMO	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	20.0	19.0	20.0	19.0	18.5	17.5
Bluetooth EDR	2Mbps	16.0	15.0	16.5	15.5	15.5	14.5
Bluetooth EDR	3Mbps	16.0	15.0	16.5	15.5	15.5	14.5
Bluetooth LE	1Mbps	19.5	18.5	19.5	18.5	18.0	17.0
Bluetooth LE	2Mbps	19.5	18.5	19.5	18.5	18.0	17.0
Bluetooth LE	125kbps	12.0	11.0	12.0	11.0	N/A	N/A
Bluetooth LE	500kbps	12.0	11.0	12.0	11.0	N/A	N/A

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The table below is applicable in the following conditions:

- DSI = 0 (F/O Body), DSI = 4 (F/O Grip)

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Each Chain in Dual Mode	
		Antenna H		Antenna F		MIMO	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	13.5	12.5	13.0	12.0	12.0	11.0
Bluetooth EDR	2Mbps	13.5	12.5	13.0	12.0	12.0	11.0
Bluetooth EDR	3Mbps	13.5	12.5	13.0	12.0	12.0	11.0
Bluetooth LE	1Mbps	13.5	12.5	13.0	12.0	12.0	11.0
Bluetooth LE	2Mbps	13.5	12.5	13.0	12.0	12.0	11.0
Bluetooth LE	125kbps	11.5	10.5	12.0	11.0	N/A	N/A
Bluetooth LE	500kbps	11.5	10.5	12.0	11.0	N/A	N/A

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2.5 DUT Antenna Locations

The overall dimensions of this device are > 9 x 5 cm. A diagram showing the location of the device antennas can be found in DUT Antenna Diagram & SAR Test Setup Photographs Appendix. 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, A+C	Yes	Yes	No	Yes	Yes	No
B	Yes	Yes	No	Yes	No	Yes
C	Yes	Yes	No	Yes	Yes	Yes
D	Yes	Yes	No	No	Yes	No
E	Yes	Yes	Yes	No	Yes	No
F	Yes	Yes	Yes	No	No	Yes
G	Yes	Yes	Yes	No	Yes	Yes
H	Yes	Yes	No	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 and MIMO, 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, A+C	Yes	No	Yes	Yes	Yes	Yes
B	Yes	No	Yes	Yes	Yes	Yes
C	Yes	No	Yes	Yes	Yes	Yes
D	Yes	No	Yes	Yes	Yes	Yes
E	Yes	No	Yes	Yes	Yes	Yes
F	Yes	No	Yes	Yes	Yes	Yes
G	Yes	No	Yes	Yes	Yes	Yes
H	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.

2.6 Near Field Communications (NFC) Antenna

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

2.7 Simultaneous Transmission Capabilities

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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 Transmitt Configuration	Head	Body/Worn Accessory	Wireless Router	Phablet	Body	Notes
1	GSM voice + 2.4 GHz Bluetooth SISO	Yes*	Yes	N/A	Yes	Yes	^ Bluetooth Tethering is considered for Antenna H
2	GSM voice + 2.4 GHz Bluetooth MIMO	Yes	Yes	N/A	Yes	Yes	
3	GSM voice + 2.4 GHz WLAN SISO	Yes	Yes	N/A	Yes	Yes	
4	GSM voice + 2.4 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	
5	GSM voice + 5 GHz WLAN SISO	Yes	Yes	N/A	Yes	Yes	
6	GSM voice + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	
7	GSM voice + 6 GHz WLAN SISO	Yes	Yes	N/A	Yes	Yes	
8	GSM voice + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	
9	GSM voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN SISO	Yes	Yes	N/A	Yes	Yes	
10	GSM voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	
11	GSM voice + 2.4 GHz WLAN MIMO + 6 GHz WLAN SISO	Yes	Yes	N/A	Yes	Yes	
12	GSM voice + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	
13	GSM voice + 2.4 GHz WLAN SISO + 5 GHz WLAN SISO	Yes	Yes	N/A	Yes	Yes	
14	GSM voice + 2.4 GHz WLAN SISO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	
15	GSM voice + 2.4 GHz WLAN SISO + 6 GHz WLAN SISO	Yes	Yes	N/A	Yes	Yes	
16	GSM voice + 2.4 GHz WLAN SISO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	
17	GSM voice + 2.4 GHz Bluetooth SISO + 5 GHz WLAN SISO	Yes*	Yes	N/A	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	^ 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	^ 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	^ 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	
22	GSM voice + 2.4 GHz Bluetooth MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	
23	GSM voice + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN SISO	Yes	Yes	N/A	Yes	Yes	
24	GSM voice + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	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	^ 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	^ 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	^ 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	^ Bluetooth Tethering is considered
29	UMTS/LTE/NR + 2.4 GHz Bluetooth SISO	Yes*	Yes	N/A	Yes	Yes	^ Bluetooth Tethering is considered for Antenna H
30	UMTS/LTE/NR + 2.4 GHz Bluetooth MIMO	Yes	Yes	N/A	Yes	Yes	
31	UMTS/LTE/NR + 2.4 GHz WLAN SISO	Yes	Yes	Yes	Yes	Yes	
32	UMTS/LTE/NR + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	
33	UMTS/LTE/NR + 5 GHz WLAN SISO	Yes	Yes	Yes	Yes	Yes	
34	UMTS/LTE/NR + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	
35	UMTS/LTE/NR + 6 GHz WLAN SISO	Yes	Yes	Yes	Yes	Yes	
36	UMTS/LTE/NR + 6 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	
37	UMTS/LTE/NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN SISO	Yes	Yes	Yes	Yes	Yes	
38	UMTS/LTE/NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	
39	UMTS/LTE/NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN SISO	Yes	Yes	Yes	Yes	Yes	
40	UMTS/LTE/NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	
41	UMTS/LTE/NR + 2.4 GHz WLAN SISO + 5 GHz WLAN SISO	Yes	Yes	Yes	Yes	Yes	
42	UMTS/LTE/NR + 2.4 GHz WLAN SISO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	
43	UMTS/LTE/NR + 2.4 GHz WLAN SISO + 6 GHz WLAN SISO	Yes	Yes	Yes	Yes	Yes	
44	UMTS/LTE/NR + 2.4 GHz WLAN SISO + 6 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	
45	UMTS/LTE/NR + 2.4 GHz Bluetooth SISO + 5 GHz WLAN SISO	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	^ 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	^ 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	^ 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	
50	UMTS/LTE/NR + 2.4 GHz Bluetooth MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	
51	UMTS/LTE/NR + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN SISO	Yes	Yes	N/A	Yes	Yes	
52	UMTS/LTE/NR + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	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	^ 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	^ 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	^ 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	^ Bluetooth Tethering is considered
57	LTE + NR	Yes	Yes	N/A	Yes	Yes	
58	LTE + NR + 2.4 GHz Bluetooth SISO	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	
60	LTE + NR + 2.4 GHz WLAN SISO	Yes	Yes	Yes	Yes	Yes	
61	LTE + NR + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	
62	LTE + NR + 5 GHz WLAN SISO	Yes	Yes	Yes	Yes	Yes	
63	LTE + NR + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	
64	LTE + NR + 6 GHz WLAN SISO	Yes	Yes	Yes	Yes	Yes	
65	LTE + NR + 6 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	
66	LTE + NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN SISO	Yes	Yes	N/A	Yes	Yes	
67	LTE + NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	
68	LTE + NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN SISO	Yes	Yes	N/A	Yes	Yes	
69	LTE + NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	
70	LTE + NR + 2.4 GHz WLAN SISO + 5 GHz WLAN SISO	Yes	Yes	N/A	Yes	Yes	
71	LTE + NR + 2.4 GHz WLAN SISO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	
72	LTE + NR + 2.4 GHz WLAN SISO + 6 GHz WLAN SISO	Yes	Yes	Yes	Yes	Yes	
73	LTE + NR + 2.4 GHz WLAN SISO + 6 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	
74	LTE + NR + 2.4 GHz Bluetooth SISO + 5 GHz WLAN SISO	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	^ Bluetooth Tethering is considered for Antenna H
76	LTE + NR + 2.4 GHz Bluetooth SISO + 6 GHz WLAN SISO	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	^ 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	
79	LTE + NR + 2.4 GHz Bluetooth MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	
80	LTE + NR + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN SISO	Yes	Yes	N/A	Yes	Yes	
81	LTE + NR + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	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	^ 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	^ 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	^ 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	^ Bluetooth Tethering is considered
86	GPS/EDGE + 2.4 GHz Bluetooth SISO	N/A	N/A	N/A	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	
88	GPS/EDGE + 2.4 GHz WLAN SISO	N/A	N/A	N/A	Yes	Yes	
89	GPS/EDGE + 2.4 GHz WLAN MIMO	N/A	N/A	N/A	Yes	Yes	
90	GPS/EDGE + 5 GHz WLAN SISO	N/A	N/A	N/A	Yes	Yes	
91	GPS/EDGE + 5 GHz WLAN MIMO	N/A	N/A	N/A	Yes	Yes	
92	GPS/EDGE + 6 GHz WLAN SISO	N/A	N/A	N/A	Yes	Yes	
93	GPS/EDGE + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	Yes	
94	GPS/EDGE + 2.4 GHz WLAN MIMO + 5 GHz WLAN SISO	N/A	N/A	N/A	Yes	Yes	
95	GPS/EDGE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	N/A	N/A	N/A	Yes	Yes	
96	GPS/EDGE + 2.4 GHz WLAN MIMO + 6 GHz WLAN SISO	N/A	N/A	N/A	Yes	Yes	
97	GPS/EDGE + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	Yes	
98	GPS/EDGE + 2.4 GHz WLAN SISO + 5 GHz WLAN SISO	N/A	N/A	N/A	Yes	Yes	
99	GPS/EDGE + 2.4 GHz WLAN SISO + 5 GHz WLAN MIMO	N/A	N/A	N/A	Yes	Yes	
100	GPS/EDGE + 2.4 GHz WLAN SISO + 6 GHz WLAN SISO	N/A	N/A	N/A	Yes	Yes	
101	GPS/EDGE + 2.4 GHz Bluetooth SISO + 5 GHz WLAN SISO	N/A	N/A	Yes*	Yes	Yes	^ Bluetooth Tethering is considered for Antenna H
102	GPS/EDGE + 2.4 GHz Bluetooth SISO + 5 GHz WLAN MIMO	N/A	N/A	Yes*	Yes	Yes	^ Bluetooth Tethering is considered for Antenna H
103	GPS/EDGE + 2.4 GHz Bluetooth SISO + 6 GHz WLAN SISO	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 MIMO	N/A	N/A	Yes*	Yes	Yes	^ Bluetooth Tethering is considered for Antenna H
105	GPS/EDGE + 2.4 GHz Bluetooth MIMO + 5 GHz WLAN SISO	N/A	N/A	N/A	Yes	Yes	
106	GPS/EDGE + 2.4 GHz Bluetooth MIMO + 5 GHz WLAN MIMO	N/A	N/A	N/A	Yes	Yes	
107	GPS/EDGE + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN SISO	N/A	N/A	N/A	Yes	Yes	
108	GPS/EDGE + 2.4 GHz Bluetooth MIMO + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	Yes	
109	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	
110	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	
111	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	
112	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	
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	

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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.

2.8 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A, U-NII-2C, 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.

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

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This device can transmit with antenna switching for bands/modes on antennas A, B, E, 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 2.4.1 of this report.

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

This device uses two transmit pathways for n41 operations (Path 1 and Path 2). For each exposure condition, the pathway with the highest target power was fully evaluated. Conducted powers for the other path were additionally evaluated to ensure they are not more than 0.5dB higher than the tested path.

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

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.

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

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

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

2.9 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 648474 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

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2.10 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 12 and Section 13.

2.11 Bibliography

Report Type	Report Serial Number
RF Exposure Part 2 Test Report	1M2504220019-25.A3L
RF Exposure Compliance Summary Report	1M2504220019-27.A3L
RF Exposure Part 0 Test Report	1M2504220019-24.A3L
A3LSMF966U: RF Exposure Part 1 Test Report	1M2502210015-01.A3L

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3 LTE AND NR INFORMATION

LTE Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	LTE Band 12: 699.7 - 715.3 MHz				
	LTE Band 17: 706.5 - 713.5 MHz				
	LTE Band 13: 779.5 - 784.5 MHz				
	LTE Band 26: 814.7 - 848.3 MHz				
	LTE Band 5: 824.7 - 848.3 MHz				
	LTE Band 66: 1710.7 - 1779.3 MHz				
	LTE Band 4: 1710.7 - 1754.3 MHz				
	LTE Band 25: 1850.7 - 1914.3 MHz				
	LTE Band 2: 1850.7 - 1909.3 MHz				
	LTE Band 41: 2498.5 - 2687.5 MHz				
Channel Bandwidths	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz				
	LTE Band 5: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 12: 1.4 MHz		699.7 (23017)	707.5 (23095)		715.3 (23173)
LTE Band 12: 3 MHz		700.5 (23025)	707.5 (23095)		714.5 (23165)
LTE Band 12: 5 MHz		701.5 (23035)	707.5 (23095)		713.5 (23155)
LTE Band 12: 10 MHz		704 (23060)	710.5 (23095)		711 (23130)
LTE Band 17: 5 MHz		706.5 (23755)	710 (23790)		713.5 (23825)
LTE Band 17: 10 MHz		709 (23780)	710 (23790)		711 (23800)
LTE Band 13: 5 MHz		779.5 (23205)	782 (23230)		784.5 (23255)
LTE Band 13: 10 MHz		(N/A)	782 (23230)		(N/A)
LTE Band 26: 1.4 MHz		814.7 (26697)	831.5 (26865)		848.3 (27033)
LTE Band 26: 3 MHz		815.5 (26705)	831.5 (26865)		847.5 (27025)
LTE Band 26: 5 MHz		816.5 (26715)	831.5 (26865)		846.5 (27015)
LTE Band 26: 10 MHz		819 (26740)	831.5 (26865)		844 (26990)
LTE Band 26: 15 MHz		821.5 (26765)	831.5 (26865)		841.5 (26965)
LTE Band 5: 1.4 MHz		824.7 (20407)	836.5 (20525)		848.3 (20643)
LTE Band 5: 3 MHz		825.5 (20415)	836.5 (20525)		847.5 (20635)
LTE Band 5: 5 MHz		826.5 (20425)	836.5 (20525)		846.5 (20625)
LTE Band 5: 10 MHz		829 (20450)	836.5 (20525)		844 (20600)
LTE Band 66: 1.4 MHz		1710.7 (131979)	1745 (132322)		1779.3 (132665)
LTE Band 66: 3 MHz		1711.5 (131987)	1745 (132322)		1778.5 (132657)
LTE Band 66: 5 MHz		1712.5 (131997)	1745 (132322)		1777.5 (132647)
LTE Band 66: 10 MHz		1715 (132022)	1745 (132322)		1775 (132622)
LTE Band 66: 15 MHz		1717.5 (132047)	1745 (132322)		1772.5 (132597)
LTE Band 66: 20 MHz		1720 (132072)	1745 (132322)		1770 (132572)
LTE Band 4: 1.4 MHz		1710.7 (19957)	1732.5 (20175)		1754.3 (20393)
LTE Band 4: 3 MHz		1711.5 (19965)	1732.5 (20175)		1753.5 (20385)
LTE Band 4: 5 MHz		1712.5 (19975)	1732.5 (20175)		1752.5 (20375)
LTE Band 4: 10 MHz		1715 (20000)	1732.5 (20175)		1750 (20350)
LTE Band 4: 15 MHz		1717.5 (20025)	1732.5 (20175)		1747.5 (20325)
LTE Band 4: 20 MHz		1720 (20050)	1732.5 (20175)		1745 (20300)
LTE Band 25: 1.4 MHz		1850.7 (26047)	1882.5 (26365)		1914.3 (26683)
LTE Band 25: 3 MHz		1851.5 (26055)	1882.5 (26365)		1913.5 (26675)
LTE Band 25: 5 MHz		1852.5 (26065)	1882.5 (26365)		1912.5 (26665)
LTE Band 25: 10 MHz		1855 (26090)	1882.5 (26365)		1910 (26640)
LTE Band 25: 15 MHz		1857.5 (26115)	1882.5 (26365)		1907.5 (26615)
LTE Band 25: 20 MHz		1860 (26140)	1882.5 (26365)		1905 (26590)
LTE Band 2: 1.4 MHz		1850.7 (18607)	1880 (18900)		1909.3 (19193)
LTE Band 2: 3 MHz		1851.5 (18615)	1880 (18900)		1908.5 (19185)
LTE Band 2: 5 MHz		1852.5 (18625)	1880 (18900)		1907.5 (19175)
LTE Band 2: 10 MHz		1855 (18650)	1880 (18900)		1905 (19150)
LTE Band 2: 15 MHz		1857.5 (18675)	1880 (18900)		1902.5 (19125)
LTE Band 2: 20 MHz		1860 (18700)	1880 (18900)		1900 (19100)
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
UE Category	UL UE Cat 18, DL UE Cat 20				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO features as shown in the RF Conducted Powers section of this report and the Downlink LTE CA RF Conducted Powers Appendix. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eCIC, eMBMS, Wifi Offloading, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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Form Factor	NR Information				
Frequency Range of each NR transmission band	Portable Handset				
	NR Band n71: 665.5 - 695.5 MHz				
	NR Band n5: 826.5 - 846.5 MHz				
	NR Band n66: 1712.5 - 1777.5 MHz				
	NR Band n25: 1852.5 - 1912.5 MHz				
	NR Band n2: 1852.5 - 1907.5 MHz				
	NR Band n41: 2501.01 - 2685 MHz				
Channel Bandwidths	NR Band n77: 3455.01 - 3544.98 MHz; 3705 - 3975 MHz				
	NR Band n77 DoD: 3455.01 - 3544.98 MHz				
	NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz				
	NR Band n5: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n66: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz, 45 MHz				
	NR Band n25: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz				
	NR Band n2: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz				
Channel Numbers and Frequencies (MHz)	NR Band n41: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz, 45 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz				
	NR Band n77: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz				
	NR Band n77 DoD: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz				
	NR Band n71: 5 MHz				
	NR Band n71: 10 MHz				
	NR Band n71: 15 MHz				
	NR Band n71: 20 MHz				
NR Band n71: 25 MHz					
NR Band n71: 30 MHz					
NR Band n71: 35 MHz					
NR Band n5: 5 MHz					
NR Band n5: 10 MHz					
NR Band n5: 15 MHz					
NR Band n5: 20 MHz					
NR Band n66: 5 MHz					
NR Band n66: 10 MHz					
NR Band n66: 15 MHz					
NR Band n66: 20 MHz					
NR Band n66: 25 MHz					
NR Band n66: 30 MHz					
NR Band n66: 35 MHz					
NR Band n66: 40 MHz					
NR Band n66: 45 MHz					
NR Band n25: 5 MHz					
NR Band n25: 10 MHz					
NR Band n25: 15 MHz					
NR Band n25: 20 MHz					
NR Band n25: 25 MHz					
NR Band n25: 30 MHz					
NR Band n25: 35 MHz					
NR Band n25: 40 MHz					
NR Band n2: 5 MHz					
NR Band n2: 10 MHz					
NR Band n2: 15 MHz					
NR Band n2: 20 MHz					
NR Band n2: 25 MHz					
NR Band n2: 30 MHz					
NR Band n2: 35 MHz					
NR Band n2: 40 MHz					
NR Band n41: 10 MHz					
NR Band n41: 15 MHz					
NR Band n41: 20 MHz					
NR Band n41: 25 MHz					
NR Band n41: 30 MHz					
NR Band n41: 35 MHz					
NR Band n41: 40 MHz					
NR Band n41: 45 MHz					
NR Band n41: 50 MHz					
NR Band n41: 60 MHz					
NR Band n41: 70 MHz					
NR Band n41: 80 MHz					
NR Band n41: 90 MHz					
NR Band n41: 100 MHz					
NR Band n77 DoD: 10 MHz					
NR Band n77 DoD: 15 MHz					
NR Band n77 DoD: 20 MHz					
NR Band n77 DoD: 25 MHz					
NR Band n77 DoD: 30 MHz					
NR Band n77 DoD: 40 MHz					
NR Band n77 DoD: 50 MHz					
NR Band n77 DoD: 60 MHz					
NR Band n77 DoD: 70 MHz					
NR Band n77 DoD: 80 MHz					
NR Band n77 DoD: 90 MHz					
NR Band n77 DoD: 100 MHz					
NR Band n77: 10 MHz					
NR Band n77: 15 MHz					
NR Band n77: 20 MHz					
NR Band n77: 25 MHz					
NR Band n77: 30 MHz					
NR Band n77: 40 MHz					
NR Band n77: 50 MHz					
NR Band n77: 60 MHz					
NR Band n77: 70 MHz					
NR Band n77: 80 MHz					
NR Band n77: 90 MHz					
NR Band n77: 100 MHz					
SCS for NR Band n71, n5, n66, n25, n2					
SCS for NR Band n41, n77, n77 DoD					
Modulations Supported in UL					
A-MPR (Additional MPR) disabled for SAR Testing?					
EN-DC and NR Carrier Aggregation Possible Combinations					
LTE Anchor Bands for NR Band n71					
LTE Anchor Bands for NR Band n5					
LTE Anchor Bands for NR Band n66					
LTE Anchor Bands for NR Band n25					
LTE Anchor Bands for NR Band n2					
LTE Anchor Bands for NR Band n41					
LTE Anchor Bands for NR Band n77					
LTE Anchor Bands for NR Band n77 DoD					
DFT-s-OFDM: m/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM					
CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM					
YES					
The technical description includes all the possible carrier aggregation combinations					
2/4/6					
2/6					
2/5/12/13					
12/13					
4/5/12/13/66					
2/4/5/12/26/66					
2/5/12/13/66					
2/5/12/13/66					
15 kHz					
30 kHz					

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4 INTRODUCTION

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

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

4.1 SAR Definition

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

Equation 4-1
SAR Mathematical Equation

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

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

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

where:

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

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

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5 DOSIMETRIC ASSESSMENT

5.1 Measurement Procedure

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

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

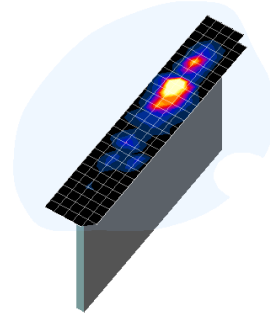


Figure 5-1
Sample SAR Area Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

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6 DEFINITION OF REFERENCE POINTS

6.1 EAR REFERENCE POINT

Figure 6-2 shows the front, back and side views of the SAM Twin Phantom. The point “M” is the reference point for the center of the mouth, “LE” is the left ear reference point (ERP), and “RE” is the right ERP. The ERP is 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 6-1. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (see Figure 6-1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning [5].

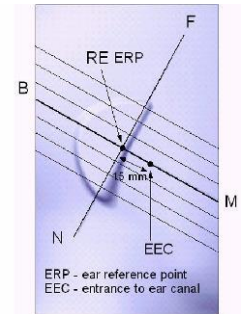


Figure 6-1
Close-Up Side view
of ERP

6.2 HANDSET REFERENCE POINTS

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the acoustic output located along the “vertical centerline” on the front of the device aligned to the “ear reference point” (See Figure 6-3). The acoustic output was then located at the same level as the center of the ear reference point. The test device was positioned so that the “vertical centerline” was bisecting the front surface of the handset at its top and bottom edges, positioning the “ear reference point” on the outer surface of the both the left and right head phantoms on the ear reference point.



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

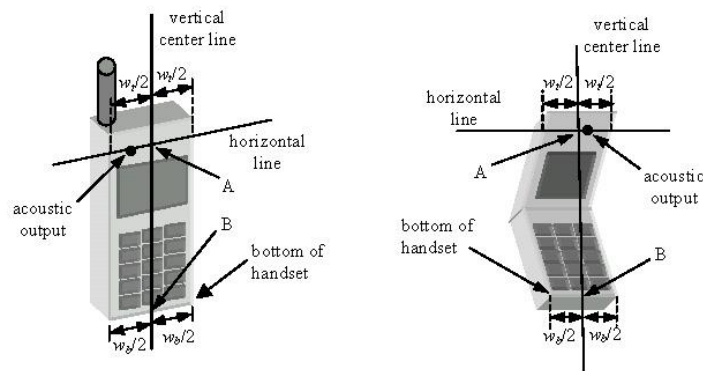


Figure 6-3
Handset Vertical Center & Horizontal Line Reference Points

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7 TEST CONFIGURATION POSITIONS

7.1 Device Holder

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

7.2 Positioning for Cheek

1. The test device was positioned with the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 7-1), such that the plane defined by the vertical center line and the horizontal line of the phone is approximately parallel to the sagittal plane of the phantom.

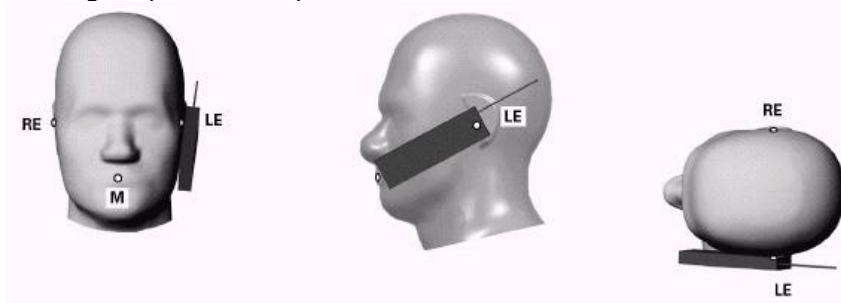


Figure 7-1 Front, Side and Top View of Cheek Position

2. The handset was translated towards the phantom along the line passing through RE & LE until the handset touches the pinna.
3. While maintaining the handset in this plane, the handset was rotated around the LE-RE line until the vertical centerline was in the reference plane.
4. The phone was then rotated around the vertical centerline until the phone (horizontal line) was symmetrical with respect to the line NF.
5. While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE, and maintaining the device contact with the ear, the device was rotated about the NF line until any point on the handset made contact with a phantom point below the ear (cheek) (See Figure 7-2).

7.3 Positioning for Ear / 15° Tilt

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

1. While maintaining the orientation of the phone, the phone was retracted parallel to the reference plane far enough to enable a rotation of the phone by 15 degrees.
2. The phone was then rotated around the horizontal line by 15 degrees.
3. While maintaining the orientation of the phone, the phone was moved parallel to the reference plane until any part of the handset touched the head. (In this position, point A was located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact was at any location other than the pinna, the angle of the phone would then be reduced. In this situation, the tilted position was obtained when any part of the phone was in contact of the ear as well as a second part of the phone was in contact with the head (see Figure 7-2).

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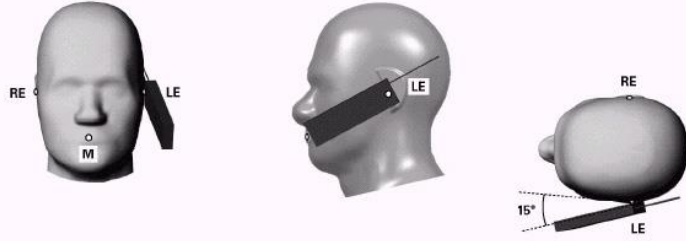


Figure 7-2 Front, Side and Top View of Ear/15° Tilt Position

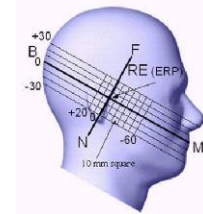


Figure 7-3 Side view w/ relevant markings

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

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

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 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.

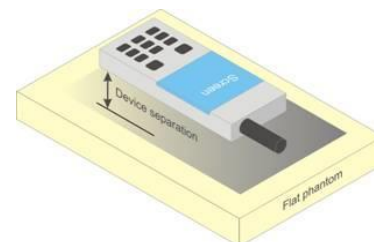


Figure 7-4 Sample Body-Worn Diagram

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.

7.11 Head SAR Evaluation for Foldable Device

In accordance with FCC KDB 616217 D04 and the April 2025 Interim Simplified RF Exposure Guidance, it is determined that 1g SAR measurements performed at 0 mm separation using a flat phantom are sufficient to evaluate 1g Head SAR for devices supporting next to the ear voice operations. For foldable phone form factors, where the earpiece may be located on the opposite side of the screen when unfolded, 1g SAR tested at 0 mm on the earpiece surface using the flat phantom fulfills the Head SAR evaluation requirement.

7.12 Adaptive Frame Switching (AFS) Considerations

This device supports Adaptive Frame Switching (AFS) for low-band operation (700 MHz and 800 MHz). Depending on device conditions, the transmission path dynamically switches between Ant A only and Ant A + Ant C configurations to optimize performance. AFS is controlled by the Hall effect sensor (for folder open/close detection) and the grip sensor. In the folder open state, the device always defaults to the Ant A + Ant C configuration. In the folder closed state, the device may use either Ant A or Ant A + Ant C, depending on grip detection. Since Ant A is not used in the folder open state under either normal or fallback operation, SAR testing for Ant A in the folder open state is not required.

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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), whichever is lower.

10.1 GSM Conducted Powers

Table 10-1

Measured P_{max} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip) 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	32.46	32.16	30.78	28.67	26.40	26.28	24.57	22.44	21.42
	190	31.68	31.83	30.90	28.71	26.01	25.86	24.62	22.57	21.45
	251	32.22	32.28	30.74	28.53	26.20	26.39	24.52	22.33	21.42

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	23.26	22.96	24.59	24.24	23.22	17.08	18.38	18.01	18.24
	190	22.48	22.63	24.71	24.28	22.83	16.66	18.43	18.14	18.27
	251	23.02	23.08	24.55	24.10	23.02	17.19	18.33	17.90	18.24

GSM 850	Frame Avg.Targets:	23.30	23.30	25.31	25.07	24.32	17.80	18.81	18.57	18.82
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Table 10-2
Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) 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	27.26	27.32	24.28	22.58	21.26	26.28	24.57	22.44	21.42
	190	27.01	27.01	24.30	22.69	21.41	25.86	24.62	22.57	21.45
	251	27.21	27.11	24.17	22.57	21.33	26.39	24.52	22.33	21.42

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	18.06	18.12	18.09	18.15	18.08	17.08	18.38	18.01	18.24
	190	17.81	17.81	18.11	18.26	18.23	16.66	18.43	18.14	18.27
	251	18.01	17.91	17.98	18.14	18.15	17.19	18.33	17.90	18.24

GSM 850	Frame Avg.Targets:	18.80	18.80	18.81	18.77	18.82	17.30	18.81	18.57	18.82
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Table 10-3
Measured P_{max} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip) for GSM 850 Ant E

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	32.04	32.35	30.98	28.87	26.21	26.02	24.68	22.61	21.54
	190	32.05	32.35	30.98	28.88	26.41	25.98	24.70	22.51	21.43
	251	31.81	32.18	30.75	28.63	26.01	25.88	24.90	22.48	21.50

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	22.84	23.15	24.79	24.44	23.03	16.82	18.49	18.18	18.36
	190	22.85	23.15	24.79	24.45	23.23	16.78	18.51	18.08	18.25
	251	22.61	22.98	24.56	24.20	22.83	16.68	18.71	18.05	18.32

GSM 850	Frame Avg.Targets:	23.30	23.30	25.31	25.07	24.32	17.80	18.81	18.57	18.82
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Table 10-4
Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) for GSM 850 Ant E

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	26.66	26.64	23.56	22.05	20.70	25.69	24.09	21.94	20.82
	190	26.84	26.84	23.61	21.95	20.59	26.28	24.19	22.18	20.99
	251	26.43	26.42	23.36	22.46	21.09	26.08	24.02	21.98	20.89

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	17.46	17.44	17.37	17.62	17.52	16.49	17.90	17.51	17.64
	190	17.64	17.64	17.42	17.52	17.41	17.08	18.00	17.75	17.81
	251	17.23	17.22	17.17	18.03	17.91	16.88	17.83	17.55	17.71

GSM 850	Frame Avg.Targets:	17.80	17.80	17.81	17.77	17.82	17.30	18.81	18.57	18.82
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Table 10-5
Measured P_{max} for DSI = 3 (F/C 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	29.83	29.79	27.52	25.71	23.71	24.90	23.27	21.79	20.85
	661	29.35	29.27	26.96	25.26	23.57	25.10	23.61	21.30	20.46
	810	29.21	29.14	27.13	25.34	23.55	24.80	23.53	21.21	20.32

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	20.63	20.59	21.33	21.28	20.53	15.70	17.08	17.36	17.67
	661	20.15	20.07	20.77	20.83	20.39	15.90	17.42	16.87	17.28
	810	20.01	19.94	20.94	20.91	20.37	15.60	17.34	16.78	17.14

GSM 1900	Frame Avg.Targets:	20.30	20.30	21.31	21.57	21.32	16.30	17.31	17.07	17.82
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Table 10-6
Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip) 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	27.54	27.46	24.21	22.40	21.22	24.55	23.49	21.55	20.72
	661	26.99	26.89	23.67	21.70	20.75	24.88	23.45	21.12	20.33
	810	26.98	26.91	23.65	21.89	20.88	24.81	23.34	21.12	20.29

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	18.34	18.26	18.02	17.97	18.04	15.35	17.30	17.12	17.54
	661	17.79	17.69	17.48	17.27	17.57	15.68	17.26	16.69	17.15
	810	17.78	17.71	17.46	17.46	17.70	15.61	17.15	16.69	17.11

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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Table 10-7
Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/C Grip) 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	20.50	20.55	17.35	15.65	14.68	20.17	17.49	15.55	14.76
	661	20.20	20.27	17.01	15.38	14.58	20.01	17.42	15.57	14.82
	810	20.25	20.28	17.19	15.50	14.37	21.01	17.45	15.68	14.67

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	11.30	11.35	11.16	11.22	11.50	10.97	11.30	11.12	11.58
	661	11.00	11.07	10.82	10.95	11.40	10.81	11.23	11.14	11.64
	810	11.05	11.08	11.00	11.07	11.19	11.81	11.26	11.25	11.49

GSM 1900	Frame Avg Targets:	11.80	11.80	11.81	11.77	11.82	11.80	11.81	11.77	11.82
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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 10-8

Measured P_{max} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip) 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	24.36	24.17	24.03	-
99		12.2 kbps AMR	24.31	24.13	24.02	-
6	HSDPA	Subtest 1	23.32	23.13	23.00	0
6		Subtest 2	23.31	23.18	23.02	0
6		Subtest 3	22.84	22.68	22.51	0.5
6		Subtest 4	22.82	22.67	22.51	0.5
6	HSUPA	Subtest 1	23.34	23.18	23.04	0
6		Subtest 2	21.34	21.17	21.05	2
6		Subtest 3	22.35	22.17	22.04	1
6		Subtest 4	21.36	21.16	21.03	2
6		Subtest 5	23.29	23.15	23.02	0
8	DC-HSDPA	Subtest 1	23.36	23.12	22.99	0
8		Subtest 2	23.33	23.16	23.00	0
8		Subtest 3	22.82	22.65	22.48	0.5
8		Subtest 4	22.83	22.64	22.48	0.5

Table 10-9

Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) 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	17.88	17.65	17.55	-
99		12.2 kbps AMR	17.87	17.70	17.55	-
6	HSDPA	Subtest 1	16.84	16.69	16.57	0
6		Subtest 2	16.89	16.73	16.57	0
6		Subtest 3	16.36	16.19	16.06	0.5
6		Subtest 4	16.36	16.21	16.06	0.5
6	HSUPA	Subtest 1	16.91	16.69	16.57	0
6		Subtest 2	14.88	14.73	14.59	2
6		Subtest 3	15.88	15.73	15.61	1
6		Subtest 4	14.89	14.69	14.60	2
6		Subtest 5	16.91	16.74	16.61	0
8	DC-HSDPA	Subtest 1	16.84	16.72	16.54	0
8		Subtest 2	16.89	16.73	16.56	0
8		Subtest 3	16.39	16.20	16.07	0.5
8		Subtest 4	16.39	16.22	16.09	0.5

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Table 10-10
Measured P_{max} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip) for UMTS 850 Ant E

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	23.87	23.71	23.54	-
99		12.2 kbps AMR	23.91	23.69	23.54	-
6	HSDPA	Subtest 1	22.94	22.69	22.46	0
6		Subtest 2	22.94	22.70	22.46	0
6		Subtest 3	22.41	22.21	21.96	0.5
6		Subtest 4	22.43	22.18	21.96	0.5
6	HSUPA	Subtest 1	22.90	22.71	22.51	0
6		Subtest 2	20.87	20.66	20.46	2
6		Subtest 3	21.92	21.70	21.48	1
6		Subtest 4	20.91	20.71	20.45	2
6		Subtest 5	22.88	22.79	22.68	0
8	DC-HSDPA	Subtest 1	22.90	22.87	22.78	0
8		Subtest 2	22.88	22.85	22.81	0
8		Subtest 3	22.33	22.37	22.41	0.5
8		Subtest 4	22.38	22.36	22.35	0.5

Table 10-11
Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) for UMTS 850 Ant E

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	19.66	19.46	19.41	-
99		12.2 kbps AMR	19.33	19.16	19.01	-
6	HSDPA	Subtest 1	18.51	18.43	18.38	0
6		Subtest 2	18.47	18.37	18.34	0
6		Subtest 3	17.98	17.76	17.51	0.5
6		Subtest 4	18.00	17.74	17.50	0.5
6	HSUPA	Subtest 1	18.42	18.37	18.41	0
6		Subtest 2	16.46	16.22	16.30	2
6		Subtest 3	17.51	17.25	17.30	1
6		Subtest 4	16.40	16.37	16.29	2
6		Subtest 5	18.41	18.32	18.22	0
8	DC-HSDPA	Subtest 1	18.41	18.35	18.33	0
8		Subtest 2	18.47	18.30	18.35	0
8		Subtest 3	18.17	18.22	18.20	0.5
8		Subtest 4	18.22	18.23	18.18	0.5

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Table 10-12
Measured P_{limit} for DSI = 0 (F/O Body) for UMTS 1750 Ant G

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	
99	WCDMA	12.2 kbps RMC	20.70	20.88	20.72	-
99		12.2 kbps AMR	20.65	20.75	20.70	-
6	HSDPA	Subtest 1	20.23	20.26	20.13	0
6		Subtest 2	20.17	20.27	20.15	0
6		Subtest 3	19.67	19.75	19.62	0.5
6		Subtest 4	19.69	19.71	19.60	0.5
6	HSUPA	Subtest 1	20.11	20.24	20.12	0
6		Subtest 2	18.15	18.21	18.09	2
6		Subtest 3	19.10	19.24	19.05	1
6		Subtest 4	18.11	18.23	18.06	2
6		Subtest 5	20.18	20.25	20.10	0
8	DC-HSDPA	Subtest 1	20.18	20.25	20.09	0
8		Subtest 2	20.14	20.25	20.09	0
8		Subtest 3	19.65	19.74	19.58	0.5
8		Subtest 4	19.64	19.72	19.59	0.5

Table 10-13
Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip) for UMTS 1750 Ant G

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	
99	WCDMA	12.2 kbps RMC	15.69	15.58	15.48	-
99		12.2 kbps AMR	15.66	15.53	15.48	-
6	HSDPA	Subtest 1	15.21	15.28	15.13	0
6		Subtest 2	15.22	15.27	15.13	0
6		Subtest 3	14.71	14.76	14.66	0.5
6		Subtest 4	14.72	14.76	14.62	0.5
6	HSUPA	Subtest 1	15.21	15.27	15.12	0
6		Subtest 2	13.19	13.27	13.10	2
6		Subtest 3	14.18	14.23	14.14	1
6		Subtest 4	13.17	13.27	13.09	2
6		Subtest 5	15.17	15.29	15.13	0
8	DC-HSDPA	Subtest 1	15.23	15.29	15.14	0
8		Subtest 2	15.21	15.28	15.15	0
8		Subtest 3	14.77	14.78	14.65	0.5
8		Subtest 4	14.73	14.77	14.65	0.5

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Table 10-14
Measured P_{limit} for DSI = 3 (F/C Head) for UMTS 1750 Ant G

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	
99	WCDMA	12.2 kbps RMC	17.70	17.62	17.50	-
99		12.2 kbps AMR	17.68	17.61	17.50	-
6	HSDPA	Subtest 1	17.09	17.19	17.06	0
6		Subtest 2	17.10	17.21	17.05	0
6		Subtest 3	16.69	16.64	16.53	0.5
6		Subtest 4	16.60	16.16	16.54	0.5
6	HSUPA	Subtest 1	17.11	17.14	17.01	0
6		Subtest 2	15.10	15.12	15.02	2
6		Subtest 3	16.06	16.15	16.04	1
6		Subtest 4	15.13	15.17	15.04	2
6		Subtest 5	17.15	17.16	17.06	0
8	DC-HSDPA	Subtest 1	17.10	17.17	17.07	0
8		Subtest 2	17.11	17.20	17.03	0
8		Subtest 3	16.61	16.70	16.54	0.5
8		Subtest 4	16.61	16.70	16.55	0.5

Table 10-15
Measured P_{limit} for DSI = 4 (F/O Grip) for UMTS 1750 Ant G

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	
99	WCDMA	12.2 kbps RMC	10.92	11.04	10.98	-
99		12.2 kbps AMR	10.91	11.02	11.00	-
6	HSDPA	Subtest 1	10.21	10.12	10.17	0
6		Subtest 2	10.17	10.12	10.15	0
6		Subtest 3	9.69	9.63	9.60	0.5
6		Subtest 4	9.70	9.64	9.63	0.5
6	HSUPA	Subtest 1	10.16	10.11	10.13	0
6		Subtest 2	8.19	8.15	8.14	2
6		Subtest 3	9.20	9.12	9.09	1
6		Subtest 4	8.17	8.14	8.11	2
6		Subtest 5	10.14	10.12	10.12	0
8	DC-HSDPA	Subtest 1	10.22	10.14	10.15	0
8		Subtest 2	10.21	10.15	10.15	0
8		Subtest 3	9.72	9.65	9.64	0.5
8		Subtest 4	9.71	9.64	9.65	0.5

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Table 10-16
Measured P_{max} for DSI = 3 (F/C Head) for UMTS 1900 Ant B

3GPP Release Version	Mode	3GPP 34.121 Subtest	PCS Band [dBm]			3GPP MPR [dB]
			9262	9400	9538	
99	WCDMA	12.2 kbps RMC	23.69	23.50	23.49	-
99		12.2 kbps AMR	23.71	23.46	23.46	-
6	HSDPA	Subtest 1	22.89	22.64	22.66	0
6		Subtest 2	22.90	22.61	22.62	0
6		Subtest 3	22.38	22.11	22.12	0.5
6		Subtest 4	22.36	22.10	22.10	0.5
6	HSUPA	Subtest 1	22.90	22.67	22.65	0
6		Subtest 2	20.80	20.72	20.70	2
6		Subtest 3	21.89	21.67	21.74	1
6		Subtest 4	21.00	20.73	20.69	2
6		Subtest 5	22.95	22.68	22.65	0
8	DC-HSDPA	Subtest 1	22.90	22.64	22.66	0
8		Subtest 2	22.92	22.65	22.57	0
8		Subtest 3	22.38	22.15	22.10	0.5
8		Subtest 4	22.35	22.13	22.12	0.5

Table 10-17
Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) for UMTS 1900 Ant B

3GPP Release Version	Mode	3GPP 34.121 Subtest	PCS Band [dBm]			3GPP MPR [dB]
			9262	9400	9538	
99	WCDMA	12.2 kbps RMC	11.94	11.80	11.71	-
99		12.2 kbps AMR	11.95	11.77	11.73	-
6	HSDPA	Subtest 1	10.71	10.56	10.46	0
6		Subtest 2	10.73	10.51	10.42	0
6		Subtest 3	10.20	10.01	9.91	0.5
6		Subtest 4	10.24	9.84	9.95	0.5
6	HSUPA	Subtest 1	10.74	10.53	10.47	0
6		Subtest 2	8.71	8.50	8.45	2
6		Subtest 3	9.71	9.53	9.47	1
6		Subtest 4	8.74	8.54	8.49	2
6		Subtest 5	10.74	10.53	10.51	0
8	DC-HSDPA	Subtest 1	10.70	10.58	10.52	0
8		Subtest 2	10.74	10.56	10.48	0
8		Subtest 3	10.23	10.07	9.98	0.5
8		Subtest 4	10.24	10.07	10.01	0.5

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Table 10-18
Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip) for UMTS 1900 Ant B

3GPP Release Version	Mode	3GPP 34.121 Subtest	PCS Band [dBm]			3GPP MPR [dB]
			9262	9400	9538	
99	WCDMA	12.2 kbps RMC	17.76	17.60	17.75	-
99		12.2 kbps AMR	17.70	17.52	17.75	-
6	HSDPA	Subtest 1	17.09	16.85	16.82	0
6		Subtest 2	17.08	16.82	16.78	0
6		Subtest 3	16.55	16.35	16.29	0.5
6		Subtest 4	16.56	16.29	16.30	0.5
6	HSUPA	Subtest 1	17.10	16.88	16.92	0
6		Subtest 2	14.97	14.78	14.98	2
6		Subtest 3	15.98	15.77	15.85	1
6		Subtest 4	15.03	14.99	14.80	2
6		Subtest 5	16.98	16.78	16.71	0
8	DC-HSDPA	Subtest 1	16.92	16.69	16.73	0
8		Subtest 2	16.90	16.66	16.67	0
8		Subtest 3	16.41	16.30	16.31	0.5
8		Subtest 4	16.41	16.35	16.27	0.5

DC-HSDPA considerations

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

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

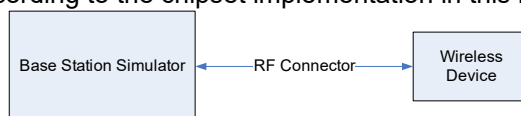


Figure 10-2
Power Measurement Setup

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10.3 LTE Conducted Powers

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

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

10.3.1 LTE Band 12

Table 10-19

LTE Band 12 Ant A, A+C Measured P_{Max} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

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	23.82	0	0
	1	25	24.02		0
	1	49	24.06		0
	25	0	22.98	0-1	1
	25	12	23.06		1
	25	25	23.07		1
	50	0	23.04		1
16QAM	1	0	23.09	0-1	1
	1	25	23.38		1
	1	49	23.10		1
	25	0	21.91	0-2	2
	25	12	22.02		2
	25	25	22.05		2
	50	0	22.00		2
64QAM	1	0	21.95	0-2	2
	1	25	22.21		2
	1	49	22.02		2
	25	0	20.91	0-3	3
	25	12	21.05		3
	25	25	21.02		3
	50	0	21.00		3
256QAM	1	0	18.96	0-5	5
	1	25	19.16		5
	1	49	19.08		5
	25	0	18.89		5
	25	12	19.02		5
	25	25	18.94		5
	50	0	18.95		5

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Table 10-20
LTE Band 12 Ant A, A+C Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

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	18.38	0	0
	1	25	18.57		0
	1	49	18.46		0
	25	0	18.37	0-1	0
	25	12	18.54		0
	25	25	18.46		0
	50	0	18.48		0
16QAM	1	0	18.55	0-1	0
	1	25	18.48		0
	1	49	18.34		0
	25	0	18.18	0-2	0
	25	12	18.28		0
	25	25	18.21		0
	50	0	18.28		0
64QAM	1	0	18.36	0-2	0
	1	25	18.39		0
	1	49	18.47		0
	25	0	18.18	0-3	0
	25	12	18.32		0
	25	25	18.22		0
	50	0	18.20		0
256QAM	1	0	18.20	0-5	0
	1	25	18.21		0
	1	49	18.34		0
	25	0	18.20		0
	25	12	18.21		0
	25	25	18.20		0
	50	0	18.22		0

Table 10-21
LTE Band 12 Ant E Measured P_{Max} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

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	23.74	0	0
	1	25	23.94		0
	1	49	23.95		0
	25	0	22.82	0-1	1
	25	12	22.94		1
	25	25	22.95		1
	50	0	22.87		1
16QAM	1	0	23.06	0-1	1
	1	25	23.23		1
	1	49	23.09		1
	25	0	21.81	0-2	2
	25	12	21.92		2
	25	25	21.88		2
	50	0	21.92		2
64QAM	1	0	21.91	0-2	2
	1	25	22.11		2
	1	49	22.04		2
	25	0	20.88	0-3	3
	25	12	20.93		3
	25	25	20.86		3
	50	0	20.91		3
256QAM	1	0	18.86	0-5	5
	1	25	19.05		5
	1	49	18.94		5
	25	0	18.82		5
	25	12	18.94		5
	25	25	18.86		5
	50	0	18.84		5

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Table 10-22
LTE Band 12 Ant E Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

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	18.21	0	0
	1	25	18.36		0
	1	49	18.43		0
	25	0	18.37	0-1	0
	25	12	18.47		0
	25	25	18.40		0
	50	0	18.41		0
	50	0	18.41		0
16QAM	1	0	18.64	0-1	0
	1	25	18.72		0
	1	49	18.65		0
	25	0	18.38	0-2	0
	25	12	18.45		0
	25	25	18.49		0
	50	0	18.37		0
	50	0	18.37		0
64QAM	1	0	18.48	0-2	0
	1	25	18.56		0
	1	49	18.59		0
	25	0	18.32	0-3	0
	25	12	18.45		0
	25	25	18.47		0
	50	0	18.52		0
	50	0	18.52		0
256QAM	1	0	18.27	0-5	0
	1	25	18.53		0
	1	49	18.45		0
	25	0	18.35		0
	25	12	18.51		0
	25	25	18.46		0
	50	0	18.51		0
	50	0	18.51		0

10.3.2 LTE Band 13

Table 10-23
LTE Band 13 Ant A, A+C Measured P_{Max} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

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	24.48	0	0
	1	25	24.40		0
	1	49	24.29		0
	25	0	23.48	0-1	1
	25	12	23.35		1
	25	25	23.34		1
	50	0	23.34		1
	50	0	23.34		1
16QAM	1	0	23.74	0-1	1
	1	25	23.61		1
	1	49	23.38		1
	25	0	22.55	0-2	2
	25	12	22.40		2
	25	25	22.29		2
	50	0	22.38		2
	50	0	22.38		2
64QAM	1	0	22.64	0-2	2
	1	25	22.45		2
	1	49	22.38		2
	25	0	21.48	0-3	3
	25	12	21.37		3
	25	25	21.36		3
	50	0	21.30		3
	50	0	21.30		3
256QAM	1	0	19.61	0-5	5
	1	25	19.58		5
	1	49	19.32		5
	25	0	19.49		5
	25	12	19.35		5
	25	25	19.28		5
	50	0	19.31		5
	50	0	19.31		5

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Table 10-24
LTE Band 13 Ant A, A+C Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

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	18.45	0	0
	1	25	18.39		0
	1	49	18.17		0
	25	0	18.43	0-1	0
	25	12	18.32		0
	25	25	18.16		0
	50	0	18.33		0
16QAM	1	0	18.64	0-1	0
	1	25	18.59		0
	1	49	18.47		0
	25	0	18.50	0-2	0
	25	12	18.40		0
	25	25	18.16		0
	50	0	18.32		0
64QAM	1	0	18.59	0-2	0
	1	25	18.52		0
	1	49	18.30		0
	25	0	18.44	0-3	0
	25	12	18.36		0
	25	25	18.29		0
	50	0	18.34		0
256QAM	1	0	18.58	0-5	0
	1	25	18.43		0
	1	49	18.28		0
	25	0	18.43		0
	25	12	18.33		0
	25	25	18.33		0
	50	0	18.29		0

Table 10-25
LTE Band 13 Ant E Measured P_{Max} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

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	24.77	0	0
	1	25	24.73		0
	1	49	24.56		0
	25	0	23.71	0-1	1
	25	12	23.58		1
	25	25	23.50		1
	50	0	23.58		1
16QAM	1	0	23.95	0-1	1
	1	25	23.64		1
	1	49	23.72		1
	25	0	22.74	0-2	2
	25	12	22.57		2
	25	25	22.52		2
	50	0	22.63		2
64QAM	1	0	23.05	0-2	2
	1	25	22.65		2
	1	49	22.55		2
	25	0	21.72	0-3	3
	25	12	21.55		3
	25	25	21.48		3
	50	0	21.64		3
256QAM	1	0	19.83	0-5	5
	1	25	19.66		5
	1	49	19.51		5
	25	0	19.70		5
	25	12	19.56		5
	25	25	19.48		5
	50	0	19.53		5

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Table 10-26
LTE Band 13 Ant E Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

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	18.79	0	0
	1	25	19.00		0
	1	49	18.54		0
	25	0	18.88	0-1	0
	25	12	18.83		0
	25	25	18.70		0
	50	0	18.85		0
16QAM	1	0	18.93	0-1	0
	1	25	18.97		0
	1	49	18.82		0
	25	0	18.95	0-2	0
	25	12	18.79		0
	25	25	18.72		0
	50	0	18.72		0
64QAM	1	0	18.96	0-2	0
	1	25	18.88		0
	1	49	18.68		0
	25	0	18.90	0-3	0
	25	12	18.79		0
	25	25	18.70		0
	50	0	18.73		0
256QAM	1	0	18.99	0-5	0
	1	25	18.92		0
	1	49	18.66		0
	25	0	18.89		0
	25	12	18.86		0
	25	25	18.72		0
	50	0	18.81		0

10.3.3 LTE Band 26

Table 10-27
LTE Band 26 Ant A, A+C Measured P_{Max} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.60	0	0
	1	36	24.45		0
	1	74	24.42		0
	36	0	23.49	0-1	1
	36	18	23.40		1
	36	37	23.37		1
	75	0	23.37		1
16QAM	1	0	23.38	0-1	1
	1	36	23.61		1
	1	74	23.65		1
	36	0	22.51	0-2	2
	36	18	22.45		2
	36	37	22.39		2
	75	0	22.41		2
64QAM	1	0	22.69	0-2	2
	1	36	22.76		2
	1	74	22.47		2
	36	0	21.45	0-3	3
	36	18	21.48		3
	36	37	21.44		3
	75	0	21.46		3
256QAM	1	0	19.51	0-5	5
	1	36	19.52		5
	1	74	19.36		5
	36	0	19.44		5
	36	18	19.42		5
	36	37	19.29		5
	75	0	19.43		5

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Table 10-28
LTE Band 26 Ant A, A+C Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz) Conducted Power [dBm]		
QPSK	1	0	17.76	0	0
	1	36	17.89		0
	1	74	17.64		0
	36	0	17.78	0-1	0
	36	18	17.72		0
	36	37	17.61		0
	75	0	17.71		0
	75	0	17.71		0
16QAM	1	0	17.79	0-1	0
	1	36	17.89		0
	1	74	17.81		0
	36	0	17.80	0-2	0
	36	18	17.72		0
	36	37	17.73		0
	75	0	17.72		0
	75	0	17.72		0
64QAM	1	0	18.02	0-2	0
	1	36	17.96		0
	1	74	17.75		0
	36	0	17.82	0-3	0
	36	18	17.85		0
	36	37	17.72		0
	75	0	17.73		0
	75	0	17.73		0
256QAM	1	0	18.06	0-5	0
	1	36	17.87		0
	1	74	17.80		0
	36	0	17.78		0
	36	18	17.80		0
	36	37	17.72		0
	75	0	17.77		0
	75	0	17.77		0

Table 10-29
LTE Band 26 Ant E Measured P_{Max} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz) Conducted Power [dBm]		
QPSK	1	0	24.69	0	0
	1	36	24.85		0
	1	74	24.20		0
	36	0	23.44	0-1	1
	36	18	23.34		1
	36	37	23.23		1
	75	0	23.34		1
	75	0	23.34		1
16QAM	1	0	23.51	0-1	1
	1	36	23.99		1
	1	74	23.30		1
	36	0	22.44	0-2	2
	36	18	22.40		2
	36	37	22.30		2
	75	0	22.38		2
	75	0	22.38		2
64QAM	1	0	22.65	0-2	2
	1	36	22.67		2
	1	74	22.43		2
	36	0	21.49	0-3	3
	36	18	21.33		3
	36	37	21.23		3
	75	0	21.36		3
	75	0	21.36		3
256QAM	1	0	19.53	0-5	5
	1	36	19.55		5
	1	74	19.37		5
	36	0	19.38		5
	36	18	19.35		5
	36	37	19.20		5
	75	0	19.36		5
	75	0	19.36		5

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Table 10-30
LTE Band 26 Ant E Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz) Conducted Power [dBm]		
QPSK	1	0	19.64	0	0
	1	36	19.60		0
	1	74	19.39		0
	36	0	19.62		0
	36	18	19.53	0-1	0
	36	37	19.47		0
	75	0	19.50		0
	75	0	19.50		0
16QAM	1	0	19.91	0-1	0
	1	36	19.93		0
	1	74	19.53		0
	36	0	19.69		0
	36	18	19.57	0-2	0
	36	37	19.49		0
	75	0	19.55		0
	75	0	19.55		0
64QAM	1	0	19.78	0-2	0
	1	36	19.74		0
	1	74	19.64		0
	36	0	19.67		0
	36	18	19.65	0-3	0
	36	37	19.49		0
	75	0	19.60		0
	75	0	19.60		0
256QAM	1	0	19.64	0-5	0
	1	36	19.64		0
	1	74	19.26		0
	36	0	19.43		0
	36	18	19.26		0
	36	37	19.26		0
	75	0	19.33		0
	75	0	19.33		0

10.3.4 LTE Band 66

Table 10-31
LTE Band 66 Ant B Measured P_{Max} for DSI = 3 (F/C 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	24.13	23.88	23.66	0	0
	1	50	24.12	23.85	23.61		0
	1	99	23.98	23.88	23.83		0
	50	0	23.08	22.94	22.72	0-1	1
	50	25	23.07	22.93	22.79		1
	50	50	23.00	22.85	22.74		1
	100	0	23.06	22.86	22.75		1
16QAM	1	0	23.34	23.09	23.06	0-1	1
	1	50	23.42	23.00	23.05		1
	1	99	23.22	22.86	22.89		1
	50	0	22.11	21.92	21.74	0-2	2
	50	25	22.11	21.89	21.79		2
	50	50	22.04	21.84	21.72		2
	100	0	22.06	21.87	21.77		2
64QAM	1	0	22.12	22.11	22.05	0-2	2
	1	50	22.21	22.05	21.88		2
	1	99	22.12	22.03	22.04		2
	50	0	21.11	20.94	20.71	0-3	3
	50	25	21.10	20.94	20.80		3
	50	50	21.05	20.86	20.74		3
	100	0	21.05	20.87	20.73		3
256QAM	1	0	19.06	19.06	18.83	0-5	5
	1	50	19.12	19.06	18.80		5
	1	99	19.09	18.92	18.70		5
	50	0	19.10	18.91	18.70		5
	50	25	19.08	18.90	18.77		5
	50	50	19.02	18.82	18.72		5
	100	0	19.05	18.87	18.79		5

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Table 10-32
LTE Band 66 Ant B Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

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	17.43	17.18	17.23	0	0
	1	50	17.41	17.14	17.14		0
	1	99	17.39	17.11	17.21		0
	50	0	17.50	17.18	17.25	0-1	0
	50	25	17.37	17.15	17.24		0
	50	50	17.37	17.08	17.19		0
	100	0	17.36	17.10	17.21		0
16QAM	1	0	17.47	17.37	17.45	0-1	0
	1	50	17.73	17.23	17.46		0
	1	99	17.41	17.22	17.62		0
	50	0	17.53	17.19	17.19	0-2	0
	50	25	17.47	17.11	17.21		0
	50	50	17.42	17.17	17.36		0
	100	0	17.45	17.14	17.22		0
64QAM	1	0	17.49	17.19	17.40	0-2	0
	1	50	17.92	17.21	17.43		0
	1	99	17.56	17.33	17.49		0
	50	0	17.51	17.09	17.22	0-3	0
	50	25	17.45	17.14	17.23		0
	50	50	17.44	17.18	17.25		0
	100	0	17.45	17.12	17.25		0
256QAM	1	0	17.38	17.05	17.19	0-5	0
	1	50	17.58	17.18	17.49		0
	1	99	17.37	17.36	17.45		0
	50	0	17.56	17.19	17.15		0
	50	25	17.46	17.19	17.25		0
	50	50	17.34	17.14	17.35		0
	100	0	17.51	17.07	17.35		0

Table 10-33
LTE Band 66 Ant B Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

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	11.55	11.09	11.58	0	0
	1	50	11.60	11.10	11.34		0
	1	99	11.45	11.36	11.57		0
	50	0	11.52	11.15	11.27	0-1	0
	50	25	11.53	11.14	11.38		0
	50	50	11.45	11.12	11.37		0
	100	0	11.51	11.12	11.32		0
16QAM	1	0	11.61	11.33	11.43	0-1	0
	1	50	11.80	11.42	11.50		0
	1	99	11.61	11.57	11.71		0
	50	0	11.63	11.15	11.26	0-2	0
	50	25	11.55	11.19	11.33		0
	50	50	11.51	11.18	11.51		0
	100	0	11.37	11.14	11.32		0
64QAM	1	0	11.70	11.31	11.19	0-2	0
	1	50	11.78	11.32	11.46		0
	1	99	11.60	11.39	11.64		0
	50	0	11.50	11.18	11.31	0-3	0
	50	25	11.58	11.24	11.27		0
	50	50	11.48	11.22	11.46		0
	100	0	11.50	11.21	11.32		0
256QAM	1	0	11.58	11.17	11.31	0-5	0
	1	50	11.63	11.35	11.52		0
	1	99	11.55	11.28	11.60		0
	50	0	11.51	11.18	11.30		0
	50	25	11.51	11.15	11.35		0
	50	50	11.52	11.15	11.45		0
	100	0	11.47	11.06	11.37		0

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Table 10-34
LTE Band 66 Ant G Measured P_{limit} for DSI = 3 (F/C 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	19.25	18.93	18.92	0	0
	1	50	19.26	18.92	18.90		0
	1	99	19.10	18.82	18.81		0
	50	0	19.32	19.13	18.90	0-1	0
	50	25	19.22	19.10	18.93		0
	50	50	19.15	19.00	18.79		0
	100	0	19.18	19.09	18.89		0
16QAM	1	0	19.39	19.34	19.20	0-1	0
	1	50	19.37	19.27	19.26		0
	1	99	19.22	19.18	19.14		0
	50	0	19.32	19.11	18.94	0-2	0
	50	25	19.23	19.11	18.97		0
	50	50	19.16	19.00	18.82		0
	100	0	19.19	19.08	18.92		0
64QAM	1	0	19.45	19.27	19.11	0-2	0
	1	50	19.48	19.39	19.11		0
	1	99	19.26	19.17	18.97		0
	50	0	19.30	19.16	18.94	0-3	0
	50	25	19.23	19.15	18.95		0
	50	50	19.16	19.03	18.88		0
	100	0	19.19	19.12	18.91		0
256QAM	1	0	19.45	19.11	19.09	0-5	0
	1	50	19.41	19.15	19.12		0
	1	99	19.21	19.01	18.89		0
	50	0	19.28	19.11	18.91		0
	50	25	19.22	19.12	18.94		0
	50	50	19.15	19.00	18.83		0
	100	0	19.21	19.09	18.93		0

Table 10-35
LTE Band 66 Ant G Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

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	17.65	17.51	17.44	0	0
	1	50	17.68	17.46	17.39		0
	1	99	17.44	17.38	17.29		0
	50	0	17.83	17.55	17.39	0-1	0
	50	25	17.70	17.53	17.42		0
	50	50	17.64	17.41	17.26		0
	100	0	17.65	17.50	17.32		0
16QAM	1	0	17.98	17.58	17.64	0-1	0
	1	50	17.99	17.70	17.68		0
	1	99	17.90	17.56	17.64		0
	50	0	17.84	17.55	17.41	0-2	0
	50	25	17.74	17.58	17.40		0
	50	50	17.68	17.46	17.27		0
	100	0	17.72	17.56	17.38		0
64QAM	1	0	17.98	17.63	17.54	0-2	0
	1	50	17.99	17.66	17.48		0
	1	99	17.81	17.56	17.53		0
	50	0	17.84	17.58	17.42	0-3	0
	50	25	17.73	17.56	17.44		0
	50	50	17.70	17.45	17.31		0
	100	0	17.70	17.58	17.39		0
256QAM	1	0	17.88	17.66	17.47	0-5	0
	1	50	17.89	17.70	17.49		0
	1	99	17.73	17.47	17.35		0
	50	0	17.84	17.56	17.39		0
	50	25	17.74	17.57	17.44		0
	50	50	17.68	17.45	17.30		0
	100	0	17.69	17.54	17.40		0

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Table 10-36
LTE Band 66 Ant G 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	20.70	20.36	20.33	0	0
	1	50	20.58	20.31	20.32		0
	1	99	20.47	20.23	20.21		0
	50	0	20.80	20.54	20.34	0-1	0
	50	25	20.68	20.52	20.33		0
	50	50	20.60	20.40	20.20		0
	100	0	20.61	20.49	20.34		0
16QAM	1	0	21.04	20.76	20.71	0-1	0
	1	50	21.05	20.79	20.69		0
	1	99	20.83	20.60	20.57		0
	50	0	20.81	20.52	20.36	0-2	0
	50	25	20.74	20.51	20.34		0
	50	50	20.66	20.38	20.26		0
	100	0	20.72	20.47	20.35		0
64QAM	1	0	21.02	20.72	20.47	0-2	0
	1	50	20.97	20.67	20.43		0
	1	99	20.83	20.54	20.39		0
	50	0	20.81	20.55	20.31	0-3	0
	50	25	20.73	20.53	20.32		0
	50	50	20.66	20.42	20.20		0
	100	0	20.70	20.49	20.34		0
256QAM	1	0	19.70	19.33	19.14	0-5	1.5
	1	50	19.67	19.40	19.12		1.5
	1	99	19.49	19.15	19.00		1.5
	50	0	19.53	19.23	19.07		1.5
	50	25	19.47	19.25	19.09		1.5
	50	50	19.40	19.11	18.95		1.5
	100	0	19.42	19.19	19.04		1.5

Table 10-37
LTE Band 66 Ant G Measured P_{limit} for DSI = 4 (F/O Grip)

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	11.70	11.35	11.11	0	0
	1	50	11.49	11.27	11.09		0
	1	99	11.30	11.16	11.06		0
	50	0	11.73	11.30	11.15	0-1	0
	50	25	11.72	11.29	11.17		0
	50	50	11.55	11.15	11.03		0
	100	0	11.69	11.27	11.14		0
16QAM	1	0	11.99	11.61	11.27	0-1	0
	1	50	11.91	11.66	11.21		0
	1	99	11.63	11.45	11.15		0
	50	0	11.75	11.32	11.18	0-2	0
	50	25	11.75	11.30	11.16		0
	50	50	11.60	11.18	11.07		0
	100	0	11.70	11.29	11.14		0
64QAM	1	0	12.00	11.50	11.35	0-2	0
	1	50	11.97	11.46	11.29		0
	1	99	11.69	11.32	11.21		0
	50	0	11.75	11.36	11.17	0-3	0
	50	25	11.77	11.31	11.18		0
	50	50	11.59	11.20	11.06		0
	100	0	11.73	11.30	11.19		0
256QAM	1	0	11.95	11.53	11.25	0-5	0
	1	50	11.85	11.40	11.33		0
	1	99	11.53	11.31	11.22		0
	50	0	11.74	11.34	11.18		0
	50	25	11.76	11.32	11.17		0
	50	50	11.60	11.22	11.10		0
	100	0	11.71	11.29	11.19		0

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10.3.5 LTE Band 25

Table 10-38
LTE Band 25 Ant B Measured P_{Max} for DSI = 3 (F/C Head)

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.89	23.65	23.63	0	0
	1	50	23.47	23.69	23.82		0
	1	99	23.54	23.77	23.88		0
	50	0	22.58	22.54	22.68	0-1	1
	50	25	22.70	22.59	22.64		1
	50	50	22.65	22.53	22.69		1
16QAM	100	0	22.53	22.41	22.51	0-1	1
	1	0	22.72	22.75	23.06		1
	1	50	22.38	22.66	23.01		1
	1	99	22.51	22.51	22.66	0-2	1
	50	0	21.54	21.36	21.71		2
	50	25	21.78	21.70	21.72		2
64QAM	50	50	21.66	21.68	21.84	0-2	2
	100	0	21.42	21.63	21.54		2
	1	0	21.62	21.74	21.48		0-2
	1	50	21.55	21.54	21.93	2	
	1	99	21.74	21.71	22.21	0-3	
	50	0	20.65	20.60	20.73		3
256QAM	50	25	20.65	20.69	20.76		0-3
	50	50	20.62	20.74	20.71	3	
	100	0	20.66	20.63	20.68	3	
	1	0	18.43	18.53	18.69	0-5	5
	1	50	18.80	18.75	18.79		5
	1	99	18.67	18.62	18.69		5
50	0	18.77	18.43	18.69	5		
50	25	18.66	18.64	18.64	5		
50	50	18.46	18.67	18.73	5		
	100	0	18.59	18.43	18.60		5

Table 10-39
LTE Band 25 Ant B Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.72	17.50	17.40	0	0
	1	50	17.46	17.26	17.34		0
	1	99	17.57	17.31	17.39		0
	50	0	17.50	17.24	17.28	0-1	0
	50	25	17.47	17.18	17.43		0
	50	50	17.44	17.44	17.42		0
	100	0	17.49	17.04	17.13	0	
16QAM	1	0	17.27	17.37	17.64	0-1	0
	1	50	17.18	17.19	17.94		0
	1	99	17.04	17.28	17.22		0
	50	0	17.27	17.24	17.22	0-2	0
	50	25	17.25	17.25	17.24		0
	50	50	17.12	17.25	17.37		0
	100	0	17.10	17.18	17.22	0	
64QAM	1	0	17.41	17.59	17.74	0-2	0
	1	50	17.13	17.19	17.41		0
	1	99	17.56	17.36	16.98		0
	50	0	17.33	17.14	17.13	0-3	0
	50	25	17.28	17.13	17.17		0
	50	50	17.28	17.07	17.32		0
	100	0	17.26	17.20	17.20	0	
256QAM	1	0	17.25	17.03	17.13	0-5	0
	1	50	17.36	17.16	17.29		0
	1	99	17.31	17.33	17.25		0
	50	0	17.30	17.09	17.25		0
	50	25	17.27	17.14	17.28		0
	50	50	17.28	17.16	17.30		0
	100	0	17.23	17.11	17.23		0

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Table 10-40
LTE Band 25 Ant B Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	11.60	11.48	11.44	0	0
	1	50	11.48	11.54	11.54		0
	1	99	11.50	11.49	11.53		0
	50	0	11.63	11.47	11.58	0-1	0
	50	25	11.66	11.65	11.61		0
	50	50	11.62	11.63	11.60		0
	100	0	11.59	11.47	11.41		0
16QAM	1	0	11.76	11.67	11.75	0-1	0
	1	50	11.78	11.87	11.83		0
	1	99	11.75	11.89	11.74		0
	50	0	11.80	11.51	11.62	0-2	0
	50	25	11.79	11.67	11.65		0
	50	50	11.72	11.65	11.75		0
	100	0	11.71	11.63	11.72		0
64QAM	1	0	11.66	11.47	11.75	0-2	0
	1	50	11.73	11.84	11.77		0
	1	99	11.80	11.72	11.71		0
	50	0	11.70	11.53	11.65	0-3	0
	50	25	11.69	11.60	11.57		0
	50	50	11.71	11.66	11.73		0
	100	0	11.63	11.50	11.53		0
256QAM	1	0	11.74	11.56	11.47	0-5	0
	1	50	11.84	11.69	11.57		0
	1	99	11.76	11.55	11.74		0
	50	0	11.68	11.47	11.55		0
	50	25	11.70	11.61	11.54		0
	50	50	11.67	11.59	11.64		0
	100	0	11.64	11.57	11.60		0

Table 10-41
LTE Band 25 Ant G Measured P_{limit} for DSI = 3 (F/C Head)

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.86	18.75	18.56	0	0
	1	50	18.94	18.73	18.53		0
	1	99	18.84	18.67	18.54		0
	50	0	18.97	18.78	18.75	0-1	0
	50	25	18.87	18.79	18.79		0
	50	50	18.82	18.71	18.78		0
	100	0	18.81	18.74	18.77		0
16QAM	1	0	19.26	18.89	19.00	0-1	0
	1	50	19.28	18.88	19.02		0
	1	99	19.22	18.81	18.95		0
	50	0	18.89	18.76	18.77	0-2	0
	50	25	18.89	18.77	18.77		0
	50	50	18.88	18.69	18.75		0
	100	0	18.86	18.74	18.77		0
64QAM	1	0	18.97	18.95	18.88	0-2	0
	1	50	19.08	18.92	19.02		0
	1	99	18.95	18.94	18.98		0
	50	0	18.89	18.78	18.76	0-3	0
	50	25	18.83	18.79	18.74		0
	50	50	18.81	18.70	18.74		0
	100	0	18.82	18.76	18.76		0
256QAM	1	0	18.70	18.64	18.56	0-5	0.5
	1	50	18.82	18.58	18.56		0.5
	1	99	18.52	18.43	18.40		0.5
	50	0	18.60	18.47	18.44		0.5
	50	25	18.56	18.52	18.47		0.5
	50	50	18.52	18.39	18.45		0.5
	100	0	18.57	18.48	18.48		0.5

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Table 10-42
LTE Band 25 Ant G Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.40	17.34	17.35	0	0
	1	50	17.48	17.38	17.40		0
	1	99	17.27	17.30	17.36		0
	50	0	17.54	17.42	17.37	0-1	0
	50	25	17.50	17.45	17.41		0
	50	50	17.46	17.33	17.38		0
	100	0	17.46	17.35	17.38		0
16QAM	1	0	17.76	17.54	17.75	0-1	0
	1	50	17.82	17.60	17.85		0
	1	99	17.69	17.50	17.65		0
	50	0	17.57	17.40	17.39	0-2	0
	50	25	17.47	17.41	17.40		0
	50	50	17.49	17.37	17.43		0
	100	0	17.47	17.40	17.38		0
64QAM	1	0	17.68	17.61	17.47	0-2	0
	1	50	17.69	17.51	17.61		0
	1	99	17.59	17.51	17.49		0
	50	0	17.57	17.42	17.38	0-3	0
	50	25	17.51	17.41	17.42		0
	50	50	17.53	17.38	17.40		0
	100	0	17.46	17.39	17.38		0
256QAM	1	0	17.51	17.50	17.48	0-5	0
	1	50	17.72	17.53	17.47		0
	1	99	17.46	17.41	17.40		0
	50	0	17.53	17.42	17.42		0
	50	25	17.51	17.42	17.44		0
	50	50	17.46	17.32	17.42		0
	100	0	17.44	17.42	17.42		0

Table 10-43
LTE Band 25 Ant G Measured P_{limit} for DSI = 0 (F/O Body)

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.65	20.66	20.69	0	0
	1	50	20.75	20.62	20.57		0
	1	99	20.62	20.64	20.65		0
	50	0	20.73	20.65	20.64	0-1	0
	50	25	20.67	20.66	20.67		0
	50	50	20.69	20.58	20.65		0
	100	0	20.67	20.62	20.67		0
16QAM	1	0	20.88	20.92	20.86	0-1	0
	1	50	20.85	20.83	21.08		0
	1	99	20.73	20.75	20.94		0
	50	0	20.75	20.64	20.65	0-2	0
	50	25	20.71	20.68	20.61		0
	50	50	20.67	20.55	20.64		0
	100	0	20.66	20.61	20.63		0
64QAM	1	0	20.83	20.83	20.7	0-2	0
	1	50	20.89	20.83	20.79		0
	1	99	20.8	20.84	20.7		0
	50	0	20.72	20.62	20.63	0-3	0
	50	25	20.72	20.69	20.62		0
	50	50	20.69	20.56	20.63		0
	100	0	20.68	20.65	20.63		0
256QAM	1	0	19.02	18.97	18.92	0-5	2
	1	50	19.17	18.98	19.03		2
	1	99	18.98	18.8	18.79		2
	50	0	18.97	18.83	18.8		2
	50	25	18.91	18.88	18.84		2
	50	50	18.9	18.78	18.82		2
	100	0	18.88	18.85	18.85		2

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Table 10-44
LTE Band 25 Ant G Measured P_{limit} for DSI = 4 (F/O Grip)

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	10.32	10.08	10.13	0	0
	1	50	10.36	10.04	10.14		0
	1	99	10.28	10.02	10.14		0
	50	0	10.43	10.26	10.17	0-1	0
	50	25	10.36	10.22	10.16		0
	50	50	10.32	10.15	10.10		0
	100	0	10.32	10.17	10.15		0
16QAM	1	0	10.45	10.51	10.41	0-1	0
	1	50	10.54	10.44	10.51		0
	1	99	10.39	10.40	10.47		0
	50	0	10.41	10.29	10.18	0-2	0
	50	25	10.40	10.23	10.19		0
	50	50	10.31	10.15	10.11		0
	100	0	10.33	10.21	10.19		0
64QAM	1	0	10.53	10.48	10.29	0-2	0
	1	50	10.58	10.49	10.33		0
	1	99	10.46	10.40	10.26		0
	50	0	10.45	10.27	10.20	0-3	0
	50	25	10.37	10.28	10.21		0
	50	50	10.35	10.23	10.15		0
	100	0	10.32	10.24	10.19		0
256QAM	1	0	10.50	10.34	10.24	0-5	0
	1	50	10.56	10.34	10.31		0
	1	99	10.36	10.19	10.11		0
	50	0	10.41	10.26	10.19		0
	50	25	10.39	10.25	10.23		0
	50	50	10.31	10.18	10.10		0
	100	0	10.34	10.23	10.21		0

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Table 10-45
LTE Band 41 PC3 Ant B Measured P_{Max} for DSI = 3 (F/C 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	23.75	23.45	23.78	23.99	23.81	0	0	
	1	50	23.74	23.45	23.78	23.98	23.84		0	
	1	99	23.68	23.44	23.75	23.85	23.66		0	
	50	0	22.79	22.56	22.76	23.02	22.99	0-1	1	
	50	25	22.81	22.57	22.83	23.01	22.97		1	
	50	50	22.69	22.54	22.80	22.86	22.84		1	
16QAM	100	0	22.71	22.51	22.79	22.98	22.94	0-1	1	
	1	0	22.92	22.67	22.75	23.10	23.14		1	
	1	50	22.95	22.55	22.77	23.06	23.11		1	
	1	99	22.79	22.55	22.67	22.90	22.81	0-2	1	
	50	0	21.82	21.56	21.76	22.05	21.97		2	
	50	25	21.84	21.61	21.85	22.02	21.98		2	
	50	50	21.69	21.55	21.82	21.86	21.86	2		
	100	0	21.74	21.54	21.80	21.95	21.95	2		
	64QAM	1	0	21.80	21.54	21.70	22.01	22.01	0-2	2
		1	50	21.78	21.50	21.71	21.96	22.11		2
1		99	21.71	21.60	21.67	21.83	21.85	2		
50		0	20.82	20.58	20.77	21.03	20.95	0-3	3	
50		25	20.85	20.59	20.84	21.00	20.94		3	
50		50	20.72	20.57	20.81	20.86	20.82		3	
100		0	20.71	20.52	20.82	20.99	20.95	3		
256QAM	1	0	18.60	18.36	18.67	18.96	18.87	0-5	5	
	1	50	18.63	18.48	18.83	18.90	18.83		5	
	1	99	18.49	18.36	18.67	18.68	18.67		5	
	50	0	18.73	18.51	18.76	19.01	18.95		5	
	50	25	18.78	18.52	18.83	19.01	18.93		5	
	50	50	18.68	18.50	18.77	18.83	18.80		5	
	100	0	18.67	18.57	18.84	18.95	18.94		5	

Table 10-46
LTE Band 41 PC2 Ant B Measured P_{Max} for DSI = 3 (F/C 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	25.40	25.00	25.14	24.95	25.34	0	0
	1	50	25.20	24.97	25.22	25.05	25.73		0
	1	99	25.14	24.92	25.11	25.02	25.64		0
	50	0	24.34	24.07	24.27	24.47	24.57	0-1	1
	50	25	24.36	24.12	24.33	24.54	24.48		1
	50	50	24.24	24.04	24.32	24.40	24.38		1
	100	0	24.20	24.04	24.31	24.48	24.46		1

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Table 10-47
LTE Band 41 PC3 Ant B Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

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	19.61	19.27	19.32	19.80	19.82	0	0
	1	50	19.48	19.04	19.44	19.66	19.44		0
	1	99	19.39	19.66	19.41	19.59	19.31		0
	50	0	19.53	19.21	19.43	19.65	19.75	0-1	0
	50	25	19.56	19.23	19.50	19.73	19.65		0
	50	50	19.41	19.21	19.46	19.71	19.52		0
	100	0	19.41	19.17	19.48	19.68	19.60		0
16QAM	1	0	19.55	19.24	19.47	19.72	19.77	0-1	0
	1	50	19.54	19.05	19.51	19.67	19.97		0
	1	99	19.51	19.22	19.34	19.61	19.72		0
	50	0	19.51	19.24	19.44	19.73	19.71	0-2	0
	50	25	19.51	19.25	19.78	19.70	19.67		0
	50	50	19.40	19.23	19.50	19.75	19.55		0
	100	0	19.37	19.19	19.51	19.66	19.64		0
64QAM	1	0	19.49	19.21	19.47	19.68	19.74	0-2	0
	1	50	19.56	19.33	19.43	19.71	19.84		0
	1	99	19.44	19.15	19.37	19.44	19.22		0
	50	0	19.49	19.22	19.44	19.74	19.69	0-3	0
	50	25	19.52	19.26	19.54	19.71	19.68		0
	50	50	19.38	19.23	19.61	19.54	19.54		0
	100	0	19.41	19.22	19.48	19.65	19.66		0
256QAM	1	0	18.77	18.32	18.73	18.90	18.96	0-5	0.5
	1	50	18.83	18.46	18.88	18.99	18.83		0.5
	1	99	18.60	18.31	18.77	18.75	18.99		0.5
	50	0	18.77	18.51	18.74	19.00	19.01		0.5
	50	25	18.82	18.56	18.84	19.00	18.98		0.5
	50	50	18.70	18.53	18.79	18.85	18.83		0.5
	100	0	18.66	18.54	18.78	19.01	18.99		0.5

Table 10-48
LTE Band 41 PC2 Ant B Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	21.08	20.87	21.01	21.38	21.37	0	0
	1	50	21.06	20.81	21.08	21.13	21.37		0
	1	99	20.93	20.88	21.01	21.13	21.13		0
	50	0	21.15	20.91	21.10	21.36	21.32	0-1	0
	50	25	21.20	20.92	21.19	21.35	21.32		0
	50	50	21.07	20.91	21.15	21.19	21.18		0
	100	0	21.02	20.89	21.14	21.32	21.26		0

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Table 10-49
LTE Band 41 PC3 Ant B Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

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	12.84	12.63	12.87	13.15	13.06	0	0
	1	50	12.80	12.63	12.91	13.05	13.04		0
	1	99	12.70	12.58	12.84	12.83	12.89		0
	50	0	12.97	12.71	12.92	13.19	13.13	0-1	0
	50	25	12.96	12.71	13.01	13.17	13.13		0
	50	50	12.87	12.70	12.96	13.02	12.98		0
	100	0	12.83	12.65	12.98	13.13	13.10		0
16QAM	1	0	13.07	12.71	12.84	13.23	13.07	0-1	0
	1	50	13.02	12.70	12.94	13.17	13.07		0
	1	99	12.92	12.55	12.84	13.06	12.90		0
	50	0	13.01	12.73	12.91	13.20	13.14	0-2	0
	50	25	12.97	12.72	13.02	13.17	13.15		0
	50	50	12.89	12.70	12.98	13.05	12.97		0
	100	0	12.83	12.68	12.97	13.15	13.12		0
64QAM	1	0	12.86	12.53	12.84	13.03	13.01	0-2	0
	1	50	12.82	12.48	12.86	13.12	13.00		0
	1	99	12.72	12.57	12.76	12.90	12.81		0
	50	0	12.99	12.69	12.90	13.19	13.17	0-3	0
	50	25	12.96	12.69	12.97	13.17	13.13		0
	50	50	12.85	12.71	12.94	13.02	12.97		0
	100	0	12.86	12.66	12.98	13.16	13.10		0
256QAM	1	0	12.75	12.54	12.86	13.18	13.07	0-5	0
	1	50	13.05	12.59	12.94	13.15	13.02		0
	1	99	12.75	12.46	12.85	12.90	12.93		0
	50	0	12.94	12.66	12.91	13.19	13.15		0
	50	25	12.98	12.70	12.99	13.17	13.15		0
	50	50	12.86	12.69	12.95	13.00	13.01		0
	100	0	12.84	12.68	12.99	13.15	13.13		0

Table 10-50
LTE Band 41 PC2 Ant B Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

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	14.54	14.33	14.63	14.84	14.73	0	0
	1	50	14.62	14.29	14.66	14.78	14.70		0
	1	99	14.47	14.25	14.59	14.59	14.64		0
	50	0	14.68	14.41	14.59	14.87	14.83	0-1	0
	50	25	14.66	14.39	14.68	14.84	14.80		0
	50	50	14.59	14.39	14.63	14.71	14.72		0
	100	0	14.56	14.37	14.64	14.83	14.77		0

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Table 10-51
LTE Band 41 PC3 Ant G Measured P_{limit} for DSI = 3 (F/C 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	17.42	17.51	17.40	17.54	17.70	0	0	
	1	50	17.46	17.54	17.40	17.52	17.80		0	
	1	99	17.45	17.56	17.24	17.43	17.62		0	
	50	0	17.43	17.55	17.58	17.64	17.81	0-1	0	
	50	25	17.52	17.58	17.47	17.67	17.77		0	
	50	50	17.51	17.59	17.44	17.52	17.69		0	
16QAM	100	0	17.48	17.51	17.48	17.60	17.79	0-1	0	
	1	0	17.48	17.54	17.61	17.55	17.60		0	
	1	50	17.51	17.52	17.70	17.70	17.59		0	
	1	99	17.46	17.54	17.60	17.41	17.50	0-2	0	
	50	0	17.45	17.52	17.57	17.64	17.80		0	
	50	25	17.49	17.56	17.48	17.63	17.82		0	
64QAM	50	50	17.48	17.61	17.42	17.49	17.70	0-2	0	
	100	0	17.50	17.52	17.46	17.60	17.78		0	
	1	0	17.34	17.35	17.53	17.51	17.63		0-2	0
	1	50	17.41	17.52	17.51	17.52	17.76	0		
	1	99	17.44	17.48	17.35	17.35	17.53	0		
	50	0	17.42	17.55	17.56	17.63	17.78	0-3	0	
50	25	17.51	17.51	17.49	17.65	17.78	0			
50	50	17.49	17.62	17.43	17.52	17.70	0			
256QAM	100	0	17.46	17.50	17.48	17.59	17.76	0-3	0	
	1	0	17.23	17.37	17.53	17.48	17.63		0-5	0
	1	50	17.37	17.59	17.58	17.59	17.71			0
	1	99	17.38	17.50	17.33	17.38	17.64	0		
	50	0	17.40	17.50	17.56	17.63	17.79	0		
	50	25	17.56	17.58	17.47	17.60	17.83	0		
50	50	17.48	17.62	17.44	17.51	17.67	0			
100	0	17.50	17.54	17.45	17.62	17.77	0			

Table 10-52
LTE Band 41 PC2 Ant G Measured P_{limit} for DSI = 3 (F/C 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	19.13	19.23	19.35	19.31	19.48	0	0
	1	50	19.16	19.26	19.30	19.26	19.56		0
	1	99	19.11	19.26	19.16	19.23	19.38		0
	50	0	19.15	19.24	19.32	19.39	19.57	0-1	0
	50	25	19.26	19.30	19.26	19.40	19.58		0
	50	50	19.23	19.39	19.19	19.27	19.45		0
	100	0	19.22	19.30	19.21	19.35	19.55		0

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Table 10-53
LTE Band 41 PC3 Ant G Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	18.96	19.04	19.03	18.97	19.23	0	0
	1	50	18.96	19.11	19.08	19.00	19.35		0
	1	99	18.92	19.10	18.86	18.89	19.15		0
	50	0	18.94	19.09	19.17	19.20	19.35	0-1	0
	50	25	19.04	19.14	19.09	19.18	19.36		0
	50	50	19.03	19.16	19.03	19.07	19.23		0
	100	0	19.03	19.06	19.07	19.14	19.33		0
16QAM	1	0	19.10	19.10	19.05	19.23	19.27	0-1	0
	1	50	19.15	19.16	18.99	19.33	19.33		0
	1	99	19.24	19.21	18.88	19.11	19.24		0
	50	0	18.97	19.09	19.11	19.18	19.35	0-2	0
	50	25	19.11	19.14	19.04	19.17	19.33		0
	50	50	19.06	19.18	18.99	19.07	19.21		0
	100	0	19.08	19.07	18.99	19.18	19.35		0
64QAM	1	0	19.01	19.09	19.02	19.03	19.18	0-2	0
	1	50	18.89	19.17	19.03	19.12	19.21		0
	1	99	19.03	19.07	18.77	18.88	19.13		0
	50	0	18.99	19.11	19.14	19.18	19.34	0-3	0
	50	25	19.09	19.11	19.04	19.17	19.35		0
	50	50	19.05	19.18	18.98	19.05	19.25		0
	100	0	19.04	19.07	19.04	19.20	19.31		0
256QAM	1	0	18.31	18.34	18.49	18.60	18.71	0-5	0
	1	50	18.52	18.63	18.56	18.63	18.80		0
	1	99	18.35	18.57	18.37	18.46	18.55		0
	50	0	18.40	18.53	18.62	18.66	18.81		0
	50	25	18.55	18.58	18.55	18.65	18.86		0
	50	50	18.53	18.65	18.48	18.53	18.74		0
	100	0	18.50	18.55	18.54	18.63	18.80		0

Table 10-54
LTE Band 41 PC2 Ant G Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

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	20.74	20.87	20.81	20.85	21.06	0	0
	1	50	20.74	20.90	20.73	20.90	21.10		0
	1	99	20.69	20.94	20.64	20.74	20.99		0
	50	0	20.72	20.83	20.86	20.91	21.12	0-1	0
	50	25	20.82	20.87	20.79	20.92	21.10		0
	50	50	20.87	20.92	20.73	20.81	21.00		0
	100	0	20.76	20.90	20.75	20.93	21.06		0

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Table 10-55
LTE Band 41 PC3 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	20.47	20.58	20.57	20.60	20.74	0	0
	1	50	20.52	20.62	20.57	20.58	20.88		0
	1	99	20.44	20.64	20.38	20.43	20.69		0
	50	0	20.48	20.58	20.64	20.67	20.89	0-1	0
	50	25	20.58	20.63	20.55	20.69	20.85		0
	50	50	20.55	20.69	20.48	20.54	20.75		0
	100	0	20.56	20.59	20.52	20.65	20.86		0
16QAM	1	0	20.48	20.62	20.49	20.66	20.85	0-1	0
	1	50	20.70	20.68	20.58	20.85	20.89		0
	1	99	20.65	20.70	20.33	20.71	20.64		0
	50	0	20.45	20.61	20.62	20.71	20.83	0-2	0
	50	25	20.60	20.61	20.55	20.69	20.85		0
	50	50	20.56	20.67	20.50	20.60	20.74		0
	100	0	20.52	20.59	20.52	20.69	20.83		0
64QAM	1	0	20.45	20.55	20.58	20.57	20.81	0-2	0
	1	50	20.44	20.54	20.57	20.57	20.80		0
	1	99	20.49	20.61	20.36	20.66	20.59		0
	50	0	20.44	20.61	20.62	20.69	20.85	0-3	0
	50	25	20.58	20.61	20.56	20.67	20.85		0
	50	50	20.54	20.67	20.49	20.58	20.73		0
	100	0	20.53	20.55	20.54	20.65	20.85		0
256QAM	1	0	18.27	18.42	18.52	18.57	18.69	0-5	2
	1	50	18.51	18.57	18.52	18.65	18.75		2
	1	99	18.44	18.53	18.39	18.48	18.59		2
	50	0	18.42	18.53	18.63	18.65	18.82		2
	50	25	18.54	18.55	18.54	18.69	18.81		2
	50	50	18.49	18.65	18.47	18.54	18.71		2
	100	0	18.49	18.56	18.53	18.62	18.80		2

Table 10-56
LTE Band 41 PC2 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	22.24	22.35	22.27	22.39	22.55	0	0
	1	50	22.25	22.43	22.26	22.36	22.62		0
	1	99	22.25	22.42	22.16	22.21	22.50		0
	50	0	22.23	22.40	22.42	22.47	22.63	0-1	0
	50	25	22.36	22.36	22.32	22.46	22.64		0
	50	50	22.30	22.46	22.26	22.32	22.50		0
	100	0	22.29	22.37	22.33	22.44	22.61		0

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Table 10-57
LTE Band 41 PC3 Ant G Measured P_{limit} for DSI = 4 (F/O Grip)

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	10.20	10.40	10.32	10.34	10.43	0	0
	1	50	10.25	10.40	10.29	10.32	10.55		0
	1	99	10.25	10.39	10.15	10.22	10.40		0
	50	0	10.27	10.48	10.41	10.44	10.56	0-1	0
	50	25	10.34	10.51	10.40	10.44	10.55		0
	50	50	10.35	10.45	10.28	10.31	10.42		0
	100	0	10.33	10.48	10.36	10.39	10.52		0
16QAM	1	0	10.27	10.36	10.46	10.44	10.43	0-1	0
	1	50	10.21	10.39	10.48	10.34	10.45		0
	1	99	10.23	10.38	10.42	10.21	10.28		0
	50	0	10.23	10.50	10.41	10.42	10.53	0-2	0
	50	25	10.33	10.49	10.40	10.42	10.54		0
	50	50	10.32	10.41	10.27	10.29	10.42		0
	100	0	10.28	10.46	10.40	10.42	10.57		0
64QAM	1	0	10.40	10.52	10.28	10.21	10.38	0-2	0
	1	50	10.43	10.47	10.37	10.32	10.45		0
	1	99	10.27	10.59	10.14	10.16	10.36		0
	50	0	10.48	10.62	10.44	10.42	10.55	0-3	0
	50	25	10.54	10.57	10.43	10.45	10.57		0
	50	50	10.55	10.66	10.32	10.34	10.44		0
	100	0	10.51	10.54	10.41	10.43	10.55		0
256QAM	1	0	10.30	10.47	10.66	10.52	10.71	0-5	0
	1	50	10.46	10.65	10.54	10.57	10.74		0
	1	99	10.33	10.62	10.30	10.40	10.62		0
	50	0	10.39	10.51	10.57	10.63	10.79		0
	50	25	10.51	10.58	10.48	10.65	10.76		0
	50	50	10.49	10.61	10.42	10.51	10.67		0
	100	0	10.50	10.53	10.45	10.58	10.74		0

Table 10-58
LTE Band 41 PC2 Ant G Measured P_{limit} for DSI = 4 (F/O Grip)

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	12.05	12.24	12.09	12.15	12.34	0	0
	1	50	12.01	12.29	12.15	12.10	12.35		0
	1	99	12.09	12.25	11.94	12.10	12.25		0
	50	0	12.00	12.24	12.22	12.22	12.37	0-1	0
	50	25	12.10	12.28	12.22	12.26	12.36		0
	50	50	12.07	12.17	12.07	12.15	12.23		0
	100	0	12.06	12.24	12.16	12.23	12.33		0

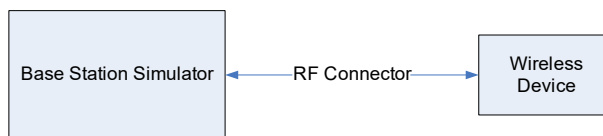


Figure 10-3
Power Measurement Setup

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10.4 NR Conducted Powers

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

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

10.4.1 NR Band n71

Table 10-59

NR Band n71 Ant A, A+C Measured P_{Max} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

NR Band n71 35 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.65	0	0.0
	1	94	23.62		0.0
	1	186	23.18		0.0
	90	0	22.72	0-1	1.0
	90	49	23.80	0	0.0
	90	98	22.42	0-1	1.0
	180	0	22.57		1.0
DFT-s-OFDM 16QAM	1	1	22.59	0-1	1.0
CP-OFDM QPSK	1	1	22.20	0-1.5	1.5

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Table 10-60
NR Band n71 Ant A, A+C Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

NR Band n71 35 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.09	0	0.0
	1	94	18.08		0.0
	1	186	17.64		0.0
	90	0	18.14	0-1	0.0
	90	49	18.24	0	0.0
	90	98	17.86	0-1	0.0
	180	0	17.98		0.0
DFT-s-OFDM 16QAM	1	1	18.05	0-1	0.0
CP-OFDM QPSK	1	1	18.27	0-1.5	0.0

Table 10-61
NR Band n71 Ant E Measured P_{Max} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

NR Band n71 35 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.63	0	0.0
	1	94	23.38		0.0
	1	186	23.06		0.0
	90	0	22.51	0-1	1.0
	90	49	23.35	0	0.0
	90	98	22.13	0-1	1.0
	180	0	22.23		1.0
DFT-s-OFDM 16QAM	1	1	22.60	0-1	1.0
CP-OFDM QPSK	1	1	22.41	0-1.5	1.5

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Table 10-62
NR Band n71 Ant E Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

NR Band n71 35 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.31	0	0.0
	1	94	18.19		0.0
	1	186	18.01		0.0
	90	0	18.17	0-1	0.0
	90	49	18.18	0	0.0
	90	98	18.10	0-1	0.0
	180	0	18.15		0.0
DFT-s-OFDM 16QAM	1	1	18.33	0-1	0.0
CP-OFDM QPSK	1	1	18.58	0-1.5	0.0

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10.4.2 NR Band n5

Table 10-63

NR Band n5 Ant A, A+C Measured P_{Max} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

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	23.88	0	0.0
	1	53	23.98		0.0
	1	104	23.81		0.0
	50	0	22.81	0-1	1.0
	50	28	24.03	0	0.0
	50	56	22.83	0-1	1.0
	100	0	22.90		1.0
DFT-s-OFDM 16QAM	1	1	23.38	0-1	1.0
CP-OFDM QPSK	1	1	22.46	0-1.5	1.5

Table 10-64

NR Band n5 Ant A, A+C Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

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	17.80	0	0.0
	1	53	17.73		0.0
	1	104	17.79		0.0
	50	0	17.77	0-1	0.0
	50	28	17.75	0	0.0
	50	56	17.76	0-1	0.0
	100	0	17.75		0.0
DFT-s-OFDM 16QAM	1	1	18.15	0-1	0.0
CP-OFDM QPSK	1	1	17.88	0-1.5	0.0

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Table 10-65

NR Band n5 Ant E Measured P_{Max} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

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	23.77	0	0.0
	1	53	23.62		0.0
	1	104	23.63		0.0
	50	0	22.73	0-1	1.0
	50	28	23.87	0	0.0
	50	56	22.65	0-1	1.0
	100	0	22.76		1.0
DFT-s-OFDM 16QAM	1	1	23.35	0-1	1.0
CP-OFDM QPSK	1	1	22.16	0-1.5	1.5

Table 10-66

NR Band n5 Ant E Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

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	19.68	0	0.0
	1	53	19.72		0.0
	1	104	19.46		0.0
	50	0	19.55	0-1	0.0
	50	28	19.73	0	0.0
	50	56	19.34	0-1	0.0
	100	0	19.65		0.0
DFT-s-OFDM 16QAM	1	1	20.07	0-1	0.0
CP-OFDM QPSK	1	1	19.55	0-1.5	0.0

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10.4.3 NR Band n66

Table 10-67
NR Band n66 Ant B Measured P_{Max} for DSI = 3 (F/C Head)

NR Band n66 45 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.74	0	0.0
	1	121	23.59		0.0
	1	240	23.60		0.0
	120	0	22.73	0-1	1.0
	120	61	23.62	0	0.0
	120	122	22.59	0-1	1.0
	240	0	22.61		1.0
DFT-s-OFDM 16QAM	1	1	23.09	0-1	1.0
CP-OFDM QPSK	1	1	22.18	0-1.5	1.5

Table 10-68
NR Band n66 Ant B Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

NR Band n66 45 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.77	0	0.0
	1	121	17.67		0.0
	1	240	17.63		0.0
	120	0	17.86	0-1	0.0
	120	61	17.51	0	0.0
	120	122	17.65	0-1	0.0
	240	0	17.73		0.0
DFT-s-OFDM 16QAM	1	1	18.10	0-1	0.0
CP-OFDM QPSK	1	1	17.78	0-1.5	0.0

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Table 10-69
NR Band n66 Ant B Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

NR Band n66 45 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.01	0	0.0
	1	121	11.82		0.0
	1	240	11.79		0.0
	120	0	12.02	0-1	0.0
	120	61	11.91	0	0.0
	120	122	11.80	0-1	0.0
	240	0	11.85		0.0
DFT-s-OFDM 16QAM	1	1	12.47	0-1	0.0
CP-OFDM QPSK	1	1	11.93	0-1.5	0.0

Table 10-70
NR Band n66 Ant G Measured P_{limit} for DSI = 3 (F/C Head)

NR Band n66 45 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.95	0	0.0
	1	121	19.70		0.0
	1	240	19.75		0.0
	120	0	19.90	0-1	0.0
	120	61	19.72	0	0.0
	120	122	19.72	0-1	0.0
	240	0	19.78		0.0
DFT-s-OFDM 16QAM	1	1	20.38	0-1	0.0
CP-OFDM QPSK	1	1	19.92	0-1.5	0.0

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Table 10-71
NR Band n66 Ant G Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

NR Band n66 45 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.39	0	0.0
	1	121	16.41		0.0
	1	240	16.42		0.0
	120	0	16.22	0-1	0.0
	120	61	16.25	0	0.0
	120	122	16.53	0-1	0.0
	240	0	16.41		0.0
DFT-s-OFDM 16QAM	1	1	16.89	0-1	0.0
CP-OFDM QPSK	1	1	16.78	0-1.5	0.0

Table 10-72
NR Band n66 Ant G Measured P_{limit} for DSI = 0 (F/O Body)

NR Band n66 45 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.46	0	0.0
	1	121	21.05		0.0
	1	240	21.01		0.0
	120	0	21.26	0-1	0.0
	120	61	21.19	0	0.0
	120	122	21.15	0-1	0.0
	240	0	21.04		0.0
DFT-s-OFDM 16QAM	1	1	21.58	0-1	0.0
CP-OFDM QPSK	1	1	21.41	0-1.5	0.0

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Table 10-73
NR Band n66 Ant G Measured P_{limit} for DSI = 4 (F/O Grip)

NR Band n66 45 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	10.57	0	0.0
	1	121	10.54		0.0
	1	240	10.39		0.0
	120	0	10.90	0-1	0.0
	120	61	10.55	0	0.0
	120	122	10.51	0-1	0.0
	240	0	10.55		0.0
DFT-s-OFDM 16QAM	1	1	11.05	0-1	0.0
CP-OFDM QPSK	1	1	10.64	0-1.5	0.0

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10.4.4 NR Band n25

Table 10-74
NR Band n25 Ant B Measured P_{Max} for DSI = 3 (F/C Head)

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	22.98	0	0.0
	1	108	22.74		0.0
	1	214	22.66		0.0
	108	0	21.81	0-1	1.0
	108	54	22.85	0	0.0
	108	108	21.60	0-1	1.0
	216	0	21.69		1.0
DFT-s-OFDM 16QAM	1	1	22.14	0-1	1.0
CP-OFDM QPSK	1	1	21.24	0-1.5	1.5

Table 10-75
NR Band n25 Ant B Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.60	0	0.0
	1	108	16.50		0.0
	1	214	16.57		0.0
	108	0	16.61	0-1	0.0
	108	54	16.51	0	0.0
	108	108	16.53	0-1	0.0
	216	0	16.59		0.0
DFT-s-OFDM 16QAM	1	1	16.52	0-1	0.0
CP-OFDM QPSK	1	1	16.64	0-1.5	0.0

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Table 10-76
NR Band n25 Ant B Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.76	0	0.0
	1	108	11.68		0.0
	1	214	11.61		0.0
	108	0	11.66	0-1	0.0
	108	54	11.69	0	0.0
	108	108	11.68	0-1	0.0
	216	0	11.68		0.0
DFT-s-OFDM 16QAM	1	1	12.05	0-1	0.0
CP-OFDM QPSK	1	1	11.66	0-1.5	0.0

Table 10-77
NR Band n25 Ant G Measured P_{limit} for DSI = 3 (F/C Head)

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.54	0	0.0
	1	108	19.40		0.0
	1	214	19.43		0.0
	108	0	19.43	0-1	0.0
	108	54	19.37	0	0.0
	108	108	19.39	0-1	0.0
	216	0	19.39		0.0
DFT-s-OFDM 16QAM	1	1	19.97	0-1	0.0
CP-OFDM QPSK	1	1	19.52	0-1.5	0.0

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Table 10-78
NR Band n25 Ant G Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.91	0	0.0
	1	108	16.94		0.0
	1	214	16.74		0.0
	108	0	16.87	0-1	0.0
	108	54	16.89	0	0.0
	108	108	16.75	0-1	0.0
	216	0	16.83		0.0
DFT-s-OFDM 16QAM	1	1	17.34	0-1	0.0
CP-OFDM QPSK	1	1	16.95	0-1.5	0.0

Table 10-79
NR Band n25 Ant G Measured P_{limit} for DSI = 0 (F/O Body)

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.89	0	0.0
	1	108	20.49		0.0
	1	214	20.57		0.0
	108	0	20.81	0-1	0.0
	108	54	20.74	0	0.0
	108	108	20.51	0-1	0.0
	216	0	20.79		0.0
DFT-s-OFDM 16QAM	1	1	21.32	0-1	0.0
CP-OFDM QPSK	1	1	20.88	0-1.5	0.0

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Table 10-80
NR Band n25 Ant G Measured P_{limit} for DSI = 4 (F/O Grip)

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	9.68	0	0.0
	1	108	9.58		0.0
	1	214	9.73		0.0
	108	0	9.61	0-1	0.0
	108	54	9.70	0	0.0
	108	108	9.56	0-1	0.0
	216	0	9.65		0.0
DFT-s-OFDM 16QAM	1	1	10.07	0-1	0.0
CP-OFDM QPSK	1	1	9.76	0-1.5	0.0

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10.4.5 NR Band n41 Path 1

Table 10-81
NR Band n41 PC3 Path 1 Ant G Measured P_{Limit} for DSI = 3 (F/C 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	16.34	0	0.0
	1	137	16.52		0.0
	1	271	16.44		0.0
	135	0	16.48	0-1	0.0
	135	69	16.47	0	0.0
	135	138	16.37	0-1	0.0
	270	0	16.40		0.0
DFT-s-OFDM 16QAM	1	1	16.44	0-1	0.0
CP-OFDM QPSK	1	1	16.50	0-1.5	0.0

Table 10-82
NR Band n41 PC3 Path 1 Ant G Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

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	16.35	0	0.0
	1	137	16.36		0.0
	1	271	16.21		0.0
	135	0	16.34	0-1	0.0
	135	69	16.35	0	0.0
	135	138	16.19	0-1	0.0
	270	0	16.33		0.0
DFT-s-OFDM 16QAM	1	1	16.33	0-1	0.0
CP-OFDM QPSK	1	1	16.44	0-1.5	0.0

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Table 10-83
NR Band n41 PC3 Path 1 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	19.06	0	0.0
	1	137	19.11		0.0
	1	271	18.95		0.0
	135	0	19.06	0-1	0.0
	135	69	19.02	0	0.0
	135	138	18.96	0-1	0.0
	270	0	19.03		0.0
DFT-s-OFDM 16QAM	1	1	19.07	0-1	0.0
CP-OFDM QPSK	1	1	19.14	0-1.5	0.0

Table 10-84
NR Band n41 PC3 Path 1 Ant G Measured P_{limit} for DSI = 4 (F/O Grip)

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	9.18	0	0.0
	1	137	9.23		0.0
	1	271	9.34		0.0
	135	0	9.20	0-1	0.0
	135	69	9.22	0	0.0
	135	138	9.19	0-1	0.0
	270	0	9.01		0.0
DFT-s-OFDM 16QAM	1	1	9.14	0-1	0.0
CP-OFDM QPSK	1	1	9.39	0-1.5	0.0

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Table 10-85
NR Band n41 PC3 Path 1 Ant B Measured P_{limit} for DSI = 3 (F/C Head)

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant B	20.57

Table 10-86
NR Band n41 PC3 Path 1 Ants H and D Measured P_{Limit} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant B	17.47
SRS #3 Ant H	14.02
SRS #4 Ant D	14.13

Table 10-87
NR Band n41 PC3 Path 1 Ants B, H and D Measured P_{Limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant B	10.91
SRS #3 Ant H	7.12
SRS #4 Ant D	7.36

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10.4.6 NR Band n41 Path 2

Table 10-88
NR Band n41 PC3 Path 2 Ant B Measured P_{Max} for DSI = 3 (F/C 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	23.39	0	0.0
	1	137	23.66		0.0
	1	271	23.77		0.0
	135	0	22.45	0-1	1.0
	135	69	23.57	0	0.0
	135	138	22.69	0-1	1.0
	270	0	22.60		1.0
DFT-s-OFDM 16QAM	1	1	22.30	0-1	1.0
CP-OFDM QPSK	1	1	22.04	0-1.5	1.5

Table 10-89
NR Band n41 PC3 Path 2 Ant B Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

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	17.41	0	0.0
	1	137	17.78		0.0
	1	271	17.94		0.0
	135	0	17.65	0-1	0.0
	135	69	17.72	0	0.0
	135	138	18.00	0-1	0.0
	270	0	17.80		0.0
DFT-s-OFDM 16QAM	1	1	17.44	0-1	0.0
CP-OFDM QPSK	1	1	17.68	0-1.5	0.0

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Table 10-90
NR Band n41 PC3 Path 2 Ant B Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

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	11.00	0	0.0
	1	137	11.30		0.0
	1	271	11.44		0.0
	135	0	11.09	0-1	0.0
	135	69	11.29	0	0.0
	135	138	11.39	0-1	0.0
	270	0	11.29		0.0
DFT-s-OFDM 16QAM	1	1	10.89	0-1	0.0
CP-OFDM QPSK	1	1	10.97	0-1.5	0.0

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Table 10-91

NR Band n41 PC3 Path 2 Ants G Measured P_{Limit} for DSI = 0 (F/O Body), DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant G	14.51

Table 10-92

NR Band n41 PC3 Path 2 Ants G Measured P_{Limit} for DSI = 4 (F/O Grip)

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant G	9.01

Table 10-93

NR Band n41 PC3 Path 2 Ants H and D Measured P_{Limit} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #3 Ant D	14.04
SRS #4 Ant H	8.26

Table 10-94

NR Band n41 PC3 Path 2 Ants H and D Measured P_{Limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #3 Ant D	7.16
SRS #4 Ant H	7.24

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10.4.7 NR Band n77

Table 10-95
NR Band n77 DoD Ant F Measured P_{Limit} for DSI = 3 (F/C Head)

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.16	0	0.0
	1	137	20.05		0.0
	1	271	20.18		0.0
	135	0	20.18	0-1	0.0
	135	69	20.09	0	0.0
	135	138	20.14	0-1	0.0
	270	0	20.13		0.0
DFT-s-OFDM 16QAM	1	1	20.12	0-1	0.0
CP-OFDM QPSK	1	1	20.19	0-1.5	0.0

Table 10-96
NR Band n77 Ant F Measured P_{Limit} for DSI = 3 (F/C Head)

NR Band n77 100 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz) Conducted Power [dBm]	662000 (3930 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.31	20.09	0	0.0
	1	137	19.03	19.91		0.0
	1	271	19.27	19.88		0.0
	135	0	19.17	20.03	0-1	0.0
	135	69	19.04	19.95	0	0.0
	135	138	19.10	19.98	0-1	0.0
	270	0	19.18	19.95		0.0
DFT-s-OFDM 16QAM	1	1	19.17	20.15	0-1	0.0
CP-OFDM QPSK	1	1	19.41	20.21	0-1.5	0.0

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Table 10-97
NR Band n77 DoD Ant F Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.69	0	0.0
	1	137	18.71		0.0
	1	271	18.87		0.0
	135	0	18.86	0-1	0.0
	135	69	18.70	0	0.0
	135	138	18.83	0-1	0.0
	270	0	18.84		0.0
DFT-s-OFDM 16QAM	1	1	18.79	0-1	0.0
CP-OFDM QPSK	1	1	18.82	0-1.5	0.0

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Table 10-98
NR Band n77 Ant F Measured P_{limit} for DSI = 1 (F/C Body) and/or DSI = 5 (F/C Grip)

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	17.78	18.65	0	0.0
	1	137	17.52	18.61		0.0
	1	271	17.61	18.66		0.0
	135	0	17.82	18.65	0-1	0.0
	135	69	17.64	18.60	0	0.0
	135	138	17.67	18.64	0-1	0.0
	270	0	17.77	18.63		0.0
DFT-s-OFDM 16QAM	1	1	17.91	18.52	0-1	0.0
CP-OFDM QPSK	1	1	18.15	18.28	0-1.5	0.0

Table 10-99
NR Band n77 DoD Ant F Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	9.94	0	0.0
	1	137	9.81		0.0
	1	271	10.12		0.0
	135	0	10.00	0-1	0.0
	135	69	9.92	0	0.0
	135	138	10.04	0-1	0.0
	270	0	9.94		0.0
DFT-s-OFDM 16QAM	1	1	10.01	0-1	0.0
CP-OFDM QPSK	1	1	10.13	0-1.5	0.0

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Table 10-100
NR Band n77 Ant F Measured P_{limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.27	10.09	0	0.0
	1	137	8.93	10.06		0.0
	1	271	9.04	10.03		0.0
	135	0	9.07	10.15	0-1	0.0
	135	69	8.94	10.05	0	0.0
	135	138	8.99	10.00	0-1	0.0
	270	0	9.02	10.08		0.0
DFT-s-OFDM 16QAM	1	1	9.34	10.19	0-1	0.0
CP-OFDM QPSK	1	1	9.38	10.11	0-1.5	0.0

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Table 10-101

NR Band n77 DoD Ants C, G and A Measured P_{Limit} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant C	14.88
SRS #3 Ant G	14.71
SRS #4 Ant A	14.07

Table 10-102

NR Band n77 Ants G and A Measured P_{Limit} for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip)

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant C	13.42	13.88
SRS #3 Ant G	13.09	13.90
SRS #4 Ant A	14.54	14.09

Table 10-103

NR Band n77 DoD Ants C, G and A Measured P_{Limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant C	7.50
SRS #3 Ant G	7.88
SRS #4 Ant A	6.99

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Table 10-104
NR Band n77 Ants G and A Measured P_{Limit} for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip)

NR Band n77		
100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant C	6.01	6.12
SRS #3 Ant G	6.08	6.60
SRS #4 Ant A	7.52	7.58

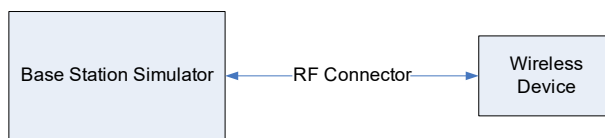


Figure 10-4
Power Measurement Setup – NR FDD

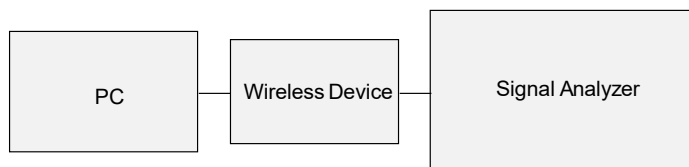


Figure 10-5
Power Measurement Setup – NR TDD

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10.5 WLAN Conducted Powers

Table 10-105
2.4 GHz WLAN Measured P_{Max} Average RF Power for 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	19.15
2437	6		19.20
2462	11		19.50
2.4GHz WIFI (20MHz 802.11g SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.90
2437	6		17.02
2462	11		16.50
2.4GHz WIFI (20MHz 802.11n SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.90
2437	6		17.05
2462	11		16.45
2.4GHz WIFI (20MHz 802.11ac SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.89
2437	6		17.05
2462	11		16.40
2.4GHz WIFI (20MHz 802.11ax SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.22
2437	6		17.41
2462	11		16.95
2.4GHz WIFI (20MHz 802.11be SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.21
2437	6		17.43
2462	11		16.90

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Table 10-106
2.4 GHz WLAN Measured P_{Max} Average RF Power for 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	19.88
2437	6		19.71
2462	11		19.72
2.4GHz WIFI (20MHz 802.11g SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.14
2437	6		17.42
2462	11		17.50
2.4GHz WIFI (20MHz 802.11n SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.19
2437	6		17.47
2462	11		17.02
2.4GHz WIFI (20MHz 802.11ac SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.15
2437	6		17.45
2462	11		17.02
2.4GHz WIFI (20MHz 802.11ax SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.58
2437	6		17.36
2462	11		17.33
2.4GHz WIFI (20MHz 802.11be SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.44
2437	6		19.21
2462	11		19.28

Table 10-107
2.4 GHz WLAN Measured P_{Max} Average RF Power for DSI = 3 (F/C Head) – MIMO

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT H	ANT F	MIMO
2412	1	Average	19.20	19.37	22.30
2437	6		19.14	19.46	22.31
2462	11		19.49	19.26	22.39

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Table 10-108

2.4 GHz WLAN Measured P_{Max} Average RF Power for DSI = 1 (F/C Body), and/or DSI = 5 (F/C Grip) – Ant H

2.4GHz WIFI (20MHz 802.11b SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.09
2437	6		17.19
2462	11		17.40
2.4GHz WIFI (20MHz 802.11g SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.00
2437	6		17.08
2462	11		16.38
2.4GHz WIFI (20MHz 802.11n SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.98
2437	6		17.10
2462	11		16.50
2.4GHz WIFI (20MHz 802.11ac SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.85
2437	6		17.03
2462	11		16.55
2.4GHz WIFI (20MHz 802.11ax SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.25
2437	6		17.40
2462	11		16.95
2.4GHz WIFI (20MHz 802.11be SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.22
2437	6		17.42
2462	11		16.90

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Table 10-109
2.4 GHz WLAN Measured P_{Max} Average RF Power for DSI = 1 (F/C Body), and/or DSI = 5 (F/C Grip) – Ant F

2.4GHz WIFI (20MHz 802.11b SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.60
2437	6		17.63
2462	11		17.49
2.4GHz WIFI (20MHz 802.11g SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.26
2437	6		17.06
2462	11		17.09
2.4GHz WIFI (20MHz 802.11n SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.30
2437	6		17.09
2462	11		17.12
2.4GHz WIFI (20MHz 802.11ac SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.28
2437	6		17.08
2462	11		17.11
2.4GHz WIFI (20MHz 802.11ax SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.68
2437	6		17.50
2462	11		17.12
2.4GHz WIFI (20MHz 802.11be SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.65
2437	6		17.48
2462	11		17.53

Table 10-110
2.4 GHz WLAN Measured P_{Max} Average RF Power for DSI = 1 (F/C Body), and/or DSI = 5 (F/C Grip) – MIMO

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT H	ANT F	MIMO
2412	1	Average	17.09	17.60	20.36
2437	6		17.05	17.54	20.31
2462	11		17.39	17.30	20.36

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Table 10-111

2.4 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) – Ant H

2.4GHz WIFI (20MHz 802.11b SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.30
2437	6		12.28
2462	11		12.48
2.4GHz WIFI (20MHz 802.11g SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.00
2437	6		12.12
2462	11		11.45
2.4GHz WIFI (20MHz 802.11n SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.00
2437	6		12.14
2462	11		11.50
2.4GHz WIFI (20MHz 802.11ac SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.95
2437	6		12.11
2462	11		11.49
2.4GHz WIFI (20MHz 802.11ax SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.30
2437	6		12.00
2462	11		11.95
2.4GHz WIFI (20MHz 802.11be SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.29
2437	6		12.50
2462	11		11.97

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Table 10-112

2.4 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) – Ant F

2.4GHz WIFI (20MHz 802.11b SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.18
2437	6		12.04
2462	11		12.23
2.4GHz WIFI (20MHz 802.11g SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.25
2437	6		12.44
2462	11		12.36
2.4GHz WIFI (20MHz 802.11n SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.28
2437	6		12.47
2462	11		12.40
2.4GHz WIFI (20MHz 802.11ac SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.30
2437	6		12.43
2462	11		12.36
2.4GHz WIFI (20MHz 802.11ax SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.65
2437	6		12.33
2462	11		12.39
2.4GHz WIFI (20MHz 802.11be SISO ANT F)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.64
2437	6		12.29
2462	11		12.35

Table 10-113

2.4 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) - MIMO

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT H	ANT F	MIMO
2412	1	Average	12.25	12.64	15.46
2437	6		12.30	12.55	15.44
2462	11		12.59	12.38	15.50

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Table 10-114
5 GHz WLAN Measured P_{Max} Average RF Power for DSI = 3 (F/C Head) – Ant F

5GHz WIFI (80MHz 802.11ac SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.09
	5610	122	17.09
	5690	138	17.03
5GHz WIFI (80MHz 802.11ax SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.34
	5610	122	17.40
	5690	138	17.50
5GHz WIFI (80MHz 802.11be SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.40
	5610	122	17.45
	5690	138	17.51

Table 10-115
5 GHz WLAN Measured P_{Max} Average RF Power for DSI = 3 (F/C Head) – Ant E

5GHz WIFI (80MHz 802.11ac SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.50
	5610	122	17.10
	5690	138	17.05
5GHz WIFI (80MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.55
	5610	122	17.90
	5690	138	17.41
5GHz WIFI (80MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.50
	5610	122	17.90
	5690	138	17.51

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Table 10-116
5 GHz WLAN Measured P_{Max} Average RF Power for DSI = 3 (F/C Head) – MIMO
5GHz WIFI (40MHz 802.11n MIMO)

Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT F	ANT E	MIMO
UNII-1	5190	38	9.50	9.00	12.27
	5230	46	17.70	17.45	20.59
UNII-2A	5270	54	17.22	17.65	20.45
	5310	62	10.20	11.28	13.78
UNII-2C	5510	102	12.70	13.49	16.12
	5590	118	17.86	17.76	20.82
	5630	126	17.73	17.59	20.67
	5710	142	17.75	17.00	20.40
UNII-3	5755	151	17.99	17.39	20.71
	5795	159	17.00	17.40	20.21
UNII-4	5835	167	17.99	17.39	20.71
	5875	175	17.65	17.04	20.37

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Table 10-117

5 GHz WLAN Measured P_{Max} Average RF Power for DSI = 1 (F/C Body), and/or DSI = 5 (F/C Grip) – Ant F

5GHz WIFI (40MHz 802.11n SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	10.45
	5230	46	16.53
UNII-2A	5270	54	16.66
	5310	62	11.28
UNII-3	5755	151	16.98
	5795	159	16.95
UNII-4	5835	167	16.99
	5875	175	16.98
5GHz WIFI (40MHz 802.11ac SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	9.30
	5230	46	15.72
UNII-2A	5270	54	15.75
	5310	62	9.90
UNII-3	5755	151	15.20
	5795	159	15.13
UNII-4	5835	167	15.30
	5875	175	15.28
5GHz WIFI (40MHz 802.11ax SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	10.84
	5230	46	16.87
UNII-2A	5270	54	16.99
	5310	62	11.26
UNII-3	5755	151	16.91
	5795	159	16.96
UNII-4	5835	167	16.98
	5875	175	16.96
5GHz WIFI (40MHz 802.11be SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	10.85
	5230	46	16.86
UNII-2A	5270	54	16.77
	5310	62	11.49
UNII-3	5755	151	16.70
	5795	159	16.74
UNII-4	5835	167	16.62
	5875	175	16.76

5GHz WIFI (80MHz 802.11ac SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.09
	5610	122	16.08
	5690	138	16.02
5GHz WIFI (80MHz 802.11ax SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.49
	5610	122	16.40
	5690	138	16.43
5GHz WIFI (80MHz 802.11be SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.49
	5610	122	16.40
	5690	138	16.45

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Table 10-118

5 GHz WLAN Measured P_{Max} Average RF Power for DSI = 1 (F/C Body), and/or DSI = 5 (F/C Grip) – Ant E

5GHz WIFI (40MHz 802.11n SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	10.12
	5230	46	16.63
UNII-2A	5270	54	16.83
	5310	62	11.49
UNII-3	5755	151	16.70
	5795	159	16.72
UNII-4	5835	167	16.78
	5875	175	16.85
5GHz WIFI (40MHz 802.11ac SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	9.10
	5230	46	15.20
UNII-2A	5270	54	15.30
	5310	62	9.79
UNII-3	5755	151	15.30
	5795	159	15.26
UNII-4	5835	167	15.22
	5875	175	15.10
5GHz WIFI (40MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	10.07
	5230	46	16.08
UNII-2A	5270	54	16.18
	5310	62	10.69
UNII-3	5755	151	16.24
	5795	159	16.24
UNII-4	5835	167	16.19
	5875	175	16.00
5GHz WIFI (20MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	10.29
	5230	46	16.49
UNII-2A	5270	54	16.46
	5310	62	10.50
UNII-3	5755	151	16.00
	5795	159	16.12
UNII-4	5835	167	16.02
	5875	175	16.28
5GHz WIFI (80MHz 802.11ac SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.14
	5610	122	16.37
	5690	138	16.01
5GHz WIFI (80MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.31
	5610	122	16.63
	5690	138	16.52
5GHz WIFI (80MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	13.35
	5610	122	16.72
	5690	138	16.23

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Table 10-119
5 GHz WLAN Measured P_{Max} Average RF Power for DSI = 1 (F/C Body), and/or DSI = 5 (F/C Grip) – MIMO

5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT F	ANT E	MIMO
UNII-1	5210	42	10.19	10.17	13.19
UNII-2A	5290	58	9.80	10.22	13.03
UNII-2C	5530	106	13.21	13.54	16.39
	5610	122	16.16	16.66	19.43
	5690	138	16.12	16.54	19.35
UNII-3	5775	155	13.95	14.69	17.35
UNII-4	5885	171	13.90	14.98	17.48

5GHz WIFI (40MHz 802.11n MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT F	ANT E	MIMO
UNII-1	5190	38	10.67	9.70	13.22
	5230	46	16.66	16.18	19.44
UNII-2A	5270	54	16.70	16.92	19.82
	5310	62	10.86	11.47	14.19
UNII-3	5755	151	16.99	16.61	19.81
	5795	159	16.98	16.66	19.83
UNII-4	5835	167	16.50	16.30	19.41
	5875	175	16.99	16.83	19.92

Table 10-120
5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) – Ant F

5GHz WIFI (80MHz 802.11ac SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	9.13
UNII-2A	5290	58	9.20
UNII-2C	5530	106	9.13
	5610	122	8.90
	5690	138	9.03
UNII-3	5775	155	8.90
UNII-4	5885	171	8.95

5GHz WIFI (80MHz 802.11ax SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	9.99
UNII-2A	5290	58	9.94
UNII-2C	5530	106	9.51
	5610	122	9.22
	5690	138	9.08
UNII-3	5775	155	9.24
UNII-4	5885	171	9.40

5GHz WIFI (80MHz 802.11be SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	9.99
UNII-2A	5290	58	9.39
UNII-2C	5530	106	9.53
	5610	122	9.22
	5690	138	9.06
UNII-3	5775	155	9.29
UNII-4	5885	171	9.42

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Table 10-121

5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) – Ant E

5GHz WIFI (80MHz 802.11ac SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	9.34
UNII-2A	5290	58	9.34
UNII-2C	5530	106	9.38
	5610	122	9.13
	5690	138	9.24
UNII-3	5775	155	9.36
UNII-4	5885	171	9.75
5GHz WIFI (80MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.70
UNII-2A	5290	58	9.00
UNII-2C	5530	106	9.52
	5610	122	9.47
	5690	138	9.18
UNII-3	5775	155	9.26
UNII-4	5885	171	9.14
5GHz WIFI (80MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.68
UNII-2A	5290	58	9.04
UNII-2C	5530	106	9.57
	5610	122	9.50
	5690	138	9.16
UNII-3	5775	155	9.28
UNII-4	5885	171	9.21

Table 10-122

5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) - MIMO

5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT F	ANT E	MIMO
UNII-1	5210	42	8.95	9.16	12.07
UNII-2A	5290	58	8.99	9.22	12.12
UNII-2C	5530	106	9.00	9.68	12.36
	5610	122	8.70	9.60	12.18
	5690	138	8.92	9.53	12.25
UNII-3	5775	155	8.90	9.68	12.32
UNII-4	5885	171	8.60	9.59	12.13

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Table 10-123

6 GHz WLAN Measured P_{Max} Average RF Power for DSI = 3 (F/C Head) – Ant F

6GHz WIFI (40MHz 802.11ax SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5965	3	16.38
	6285	67	16.35
UNII-7	6685	147	16.60
6GHz WIFI (40MHz 802.11be SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5965	3	16.64
	6285	67	16.89
UNII-7	6685	147	16.69
6GHz WIFI (80MHz 802.11ax SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-6	6465	103	15.90
UNII-8	7025	215	15.30
6GHz WIFI (80MHz 802.11be SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-6	6465	103	15.88
UNII-8	7025	215	15.35

Table 10-124

6 GHz WLAN Measured P_{Max} Average RF Power for DSI = 3 (F/C Head) – Ant E

6GHz WIFI (40MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5965	3	16.71
	6285	67	16.64
UNII-7	6685	147	16.45
6GHz WIFI (40MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5965	3	16.17
	6285	67	16.54
UNII-7	6685	147	16.05
6GHz WIFI (80MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-6	6465	103	15.25
UNII-8	7025	215	15.50
6GHz WIFI (80MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-6	6465	103	15.28
UNII-8	7025	215	15.50

Table 10-125

6 GHz WLAN Measured P_{Max} Average RF Power for DSI = 3 (F/C Head) – MIMO

6GHz WIFI (40MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT F	ANT E	MIMO
UNII-5	5965	3	15.55	16.75	19.20
	6165	43	15.80	16.79	19.33
	6285	67	15.90	16.65	19.30
	6405	91	16.00	16.55	19.29
UNII-7	6565	123	16.14	16.58	19.38
	6685	147	16.70	16.74	19.73
	6725	155	16.50	16.95	19.74
	6845	179	15.70	16.86	19.33

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Table 10-126
6 GHz WLAN Measured P_{Max} Average RF Power for DSI = 1 (F/C Body), and/or DSI = 5 (F/C Grip) – Ant F

6GHz WIFI (160MHz 802.11ax SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	14.23
	6185	47	14.20
	6345	79	14.29
UNII-6	6505	111	14.88
UNII-7	6665	143	14.45
	6825	175	14.35
UNII-8	6985	207	14.33
6GHz WIFI (160MHz 802.11be SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	14.37
	6185	47	14.20
	6345	79	14.16
UNII-6	6505	111	14.25
UNII-7	6665	143	14.20
	6825	175	14.45
UNII-8	6985	207	13.70

Table 10-127
6 GHz WLAN Measured P_{Max} Average RF Power for DSI = 1 (F/C Body), and/or DSI = 5 (F/C Grip) – Ant E

6GHz WIFI (160MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	14.88
	6185	47	14.57
	6345	79	14.30
UNII-6	6505	111	14.35
UNII-7	6665	143	14.75
	6825	175	14.70
UNII-8	6985	207	14.82
6GHz WIFI (160MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	13.50
	6185	47	14.23
	6345	79	14.46
UNII-6	6505	111	14.00
UNII-7	6665	143	13.70
	6825	175	14.10
UNII-8	6985	207	14.35

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Table 10-128

6 GHz WLAN Measured P_{Max} Average RF Power for DSI = 1 (F/C Body), and/or DSI = 5 (F/C Grip) – MIMO

6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT F	ANT E	MIMO
UNII-5	6025	15	13.70	14.90	17.35
	6185	47	13.75	14.51	17.16
	6345	79	13.85	14.28	17.08
UNII-7	6665	143	14.00	14.78	17.42
	6825	175	13.50	14.80	17.21
6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT F	ANT E	MIMO
UNII-6	6505	111	14.99	14.22	17.63
UNII-8	6985	207	13.80	14.75	17.31

Table 10-129

6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) – Ant F

6GHz WIFI (160MHz 802.11ax SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	9.03
	6185	47	9.44
	6345	79	9.53
UNII-6	6505	111	9.82
UNII-7	6665	143	9.13
	6825	175	9.08
UNII-8	6985	207	9.28
6GHz WIFI (160MHz 802.11be SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	9.39
	6185	47	9.20
	6345	79	9.18
UNII-6	6505	111	9.60
UNII-7	6665	143	9.20
	6825	175	9.48
UNII-8	6985	207	9.05

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Table 10-130

6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) – Ant E

6GHz WIFI (160MHz 802.11ax SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	9.80
	6185	47	9.56
	6345	79	9.19
UNII-6	6505	111	9.55
UNII-7	6665	143	9.99
	6825	175	9.94
UNII-8	6985	207	9.98
6GHz WIFI (160MHz 802.11be SISO ANT F)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	8.50
	6185	47	9.20
	6345	79	9.45
UNII-6	6505	111	9.27
UNII-7	6665	143	9.02
	6825	175	9.28
UNII-8	6985	207	9.31

Table 10-131

6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) - MIMO

6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT F	ANT E	MIMO
UNII-5	6025	15	8.54	9.80	12.23
	6185	47	8.95	9.65	12.32
	6345	79	9.00	9.09	12.06
UNII-7	6665	143	9.25	9.99	12.65
	6825	175	9.19	9.99	12.62
6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT F	ANT E	MIMO
UNII-6	6505	111	9.86	9.08	12.50
UNII-8	6985	207	8.50	9.97	12.31

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

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

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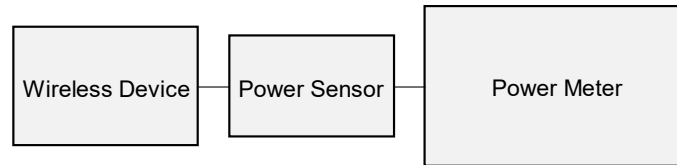


Figure 10-6
Power Measurement Setup

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10.6 Bluetooth Conducted Powers

Table 10-132

Bluetooth Measured P_{max} Average RF Power for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip) – Ant H

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	19.74	94.189
2441	1.0	39	19.42	87.498
2480	1.0	78	18.09	64.417

Table 10-133

Bluetooth Measured P_{max} Average RF Power for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip) – Ant F

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	19.75	94.406
2441	1.0	39	19.99	99.770
2480	1.0	78	19.06	80.538

Table 10-134

Bluetooth Measured P_{max} Average RF Power for DSI = 1 (F/C Body), DSI = 3 (F/C Head), and/or DSI = 5 (F/C Grip) – MIMO

Frequency [MHz]	Data Rate [Mbps]	Channel No.	ANT1 Avg Conducted Power		ANT2 Avg Conducted Power		Dual Avg Conducted Power	
			[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1.0	0	13.99	25.061	15.23	33.343	17.66	58.404
2441	1.0	39	14.55	28.510	14.93	31.117	17.75	59.627
2480	1.0	78	11.96	15.704	14.80	30.200	16.62	45.903

Table 10-135

Bluetooth Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) – Ant H

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	10.71	11.776
2441	1.0	39	11.50	14.125
2480	1.0	78	9.70	9.333

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Table 10-136

Bluetooth Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) – Ant F

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	11.10	12.882
2441	1.0	39	11.80	15.136
2480	1.0	78	10.30	10.715

Table 10-137

Bluetooth Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) – MIMO

Frequency [MHz]	Data Rate [Mbps]	Channel No.	ANT1 Avg Conducted Power		ANT2 Avg Conducted Power		Dual Avg Conducted Power	
			[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1.0	0	11.34	13.614	11.27	13.397	14.32	27.011
2441	1.0	39	11.96	15.704	11.85	15.311	14.92	31.015
2480	1.0	78	9.63	9.183	10.24	10.568	12.96	19.752

Table 10-140

Bluetooth LE Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) – Ant H

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	125 kbps	0	LE	10.90	12.303
2440	125 kbps	19	LE	11.13	12.972
2480	125 kbps	39	LE	9.15	8.222
2402	500 kbps	0	LE	11.14	13.002
2440	500 kbps	19	LE	11.33	13.583
2480	500 kbps	39	LE	9.17	8.260
2402	1 Mbps	0	LE	12.07	16.106
2440	1 Mbps	19	LE	12.54	17.947
2480	1 Mbps	39	LE	11.03	12.677
2402	2 Mbps	0	LE	11.21	13.213
2440	2 Mbps	19	LE	11.96	15.704
2480	2 Mbps	39	LE	10.10	10.233

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Table 10-141

Bluetooth LE Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) – Ant F

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	125 kbps	0	LE	11.43	13.900
2440	125 kbps	19	LE	11.68	14.723
2480	125 kbps	39	LE	10.67	11.668
2402	500 kbps	0	LE	11.31	13.521
2440	500 kbps	19	LE	11.81	15.171
2480	500 kbps	39	LE	10.58	11.429
2402	1 Mbps	0	LE	11.65	14.622
2440	1 Mbps	19	LE	12.25	16.788
2480	1 Mbps	39	LE	11.55	14.289
2402	2 Mbps	0	LE	11.43	13.900
2440	2 Mbps	19	LE	11.89	15.453
2480	2 Mbps	39	LE	11.31	13.521

Table 10-141

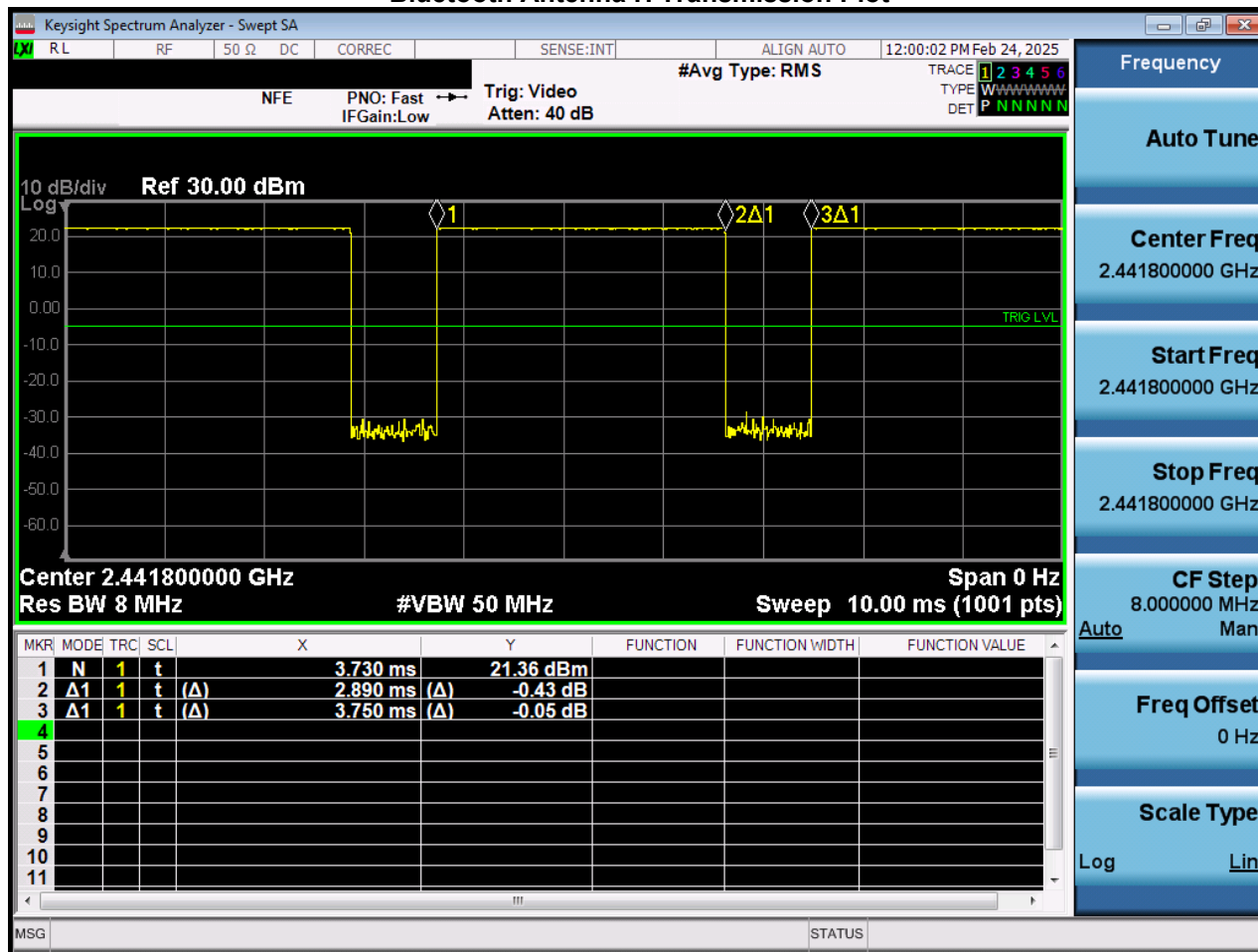
Bluetooth LE Measured P_{Limit} Average RF Power for DSI = 0 (F/O Body) and/or DSI = 4 (F/O Grip) – MIMO

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Bluetooth Mode	ANT1 Peak Conducted Power		ANT2 Peak Conducted Power		Dual Peak Conducted Power	
						[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1 Mbps	GFSK	ePA	0	LE	10.42	11.015	11.14	13.002	13.81	24.017
2440	1 Mbps	GFSK	ePA	19	LE	11.11	12.912	11.37	13.709	14.25	26.621
2480	1 Mbps	GFSK	ePA	39	LE	11.06	12.764	10.21	10.495	13.67	23.260
2402	2 Mbps	GFSK	iPA	0	LE	10.66	11.641	11.31	13.521	14.01	25.162
2440	2 Mbps	GFSK	iPA	19	LE	11.42	13.868	11.60	14.454	14.52	28.322
2480	2 Mbps	GFSK	iPA	39	LE	10.32	10.765	10.55	11.350	13.45	22.115

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Figure 10-7
Bluetooth Antenna H Transmission Plot



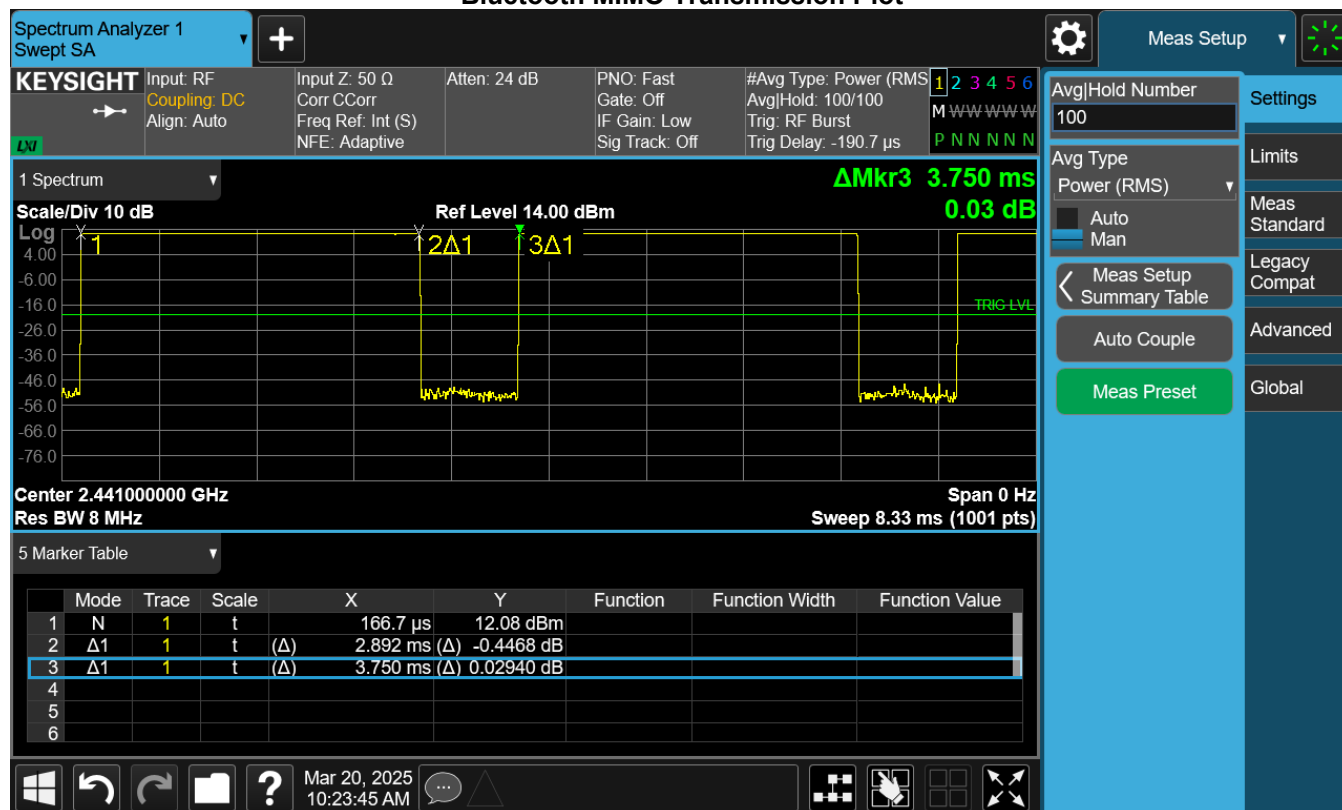
Equation 10-1
Bluetooth Antenna H Duty Cycle Calculation

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

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Figure 10-9
Bluetooth MIMO Transmission Plot



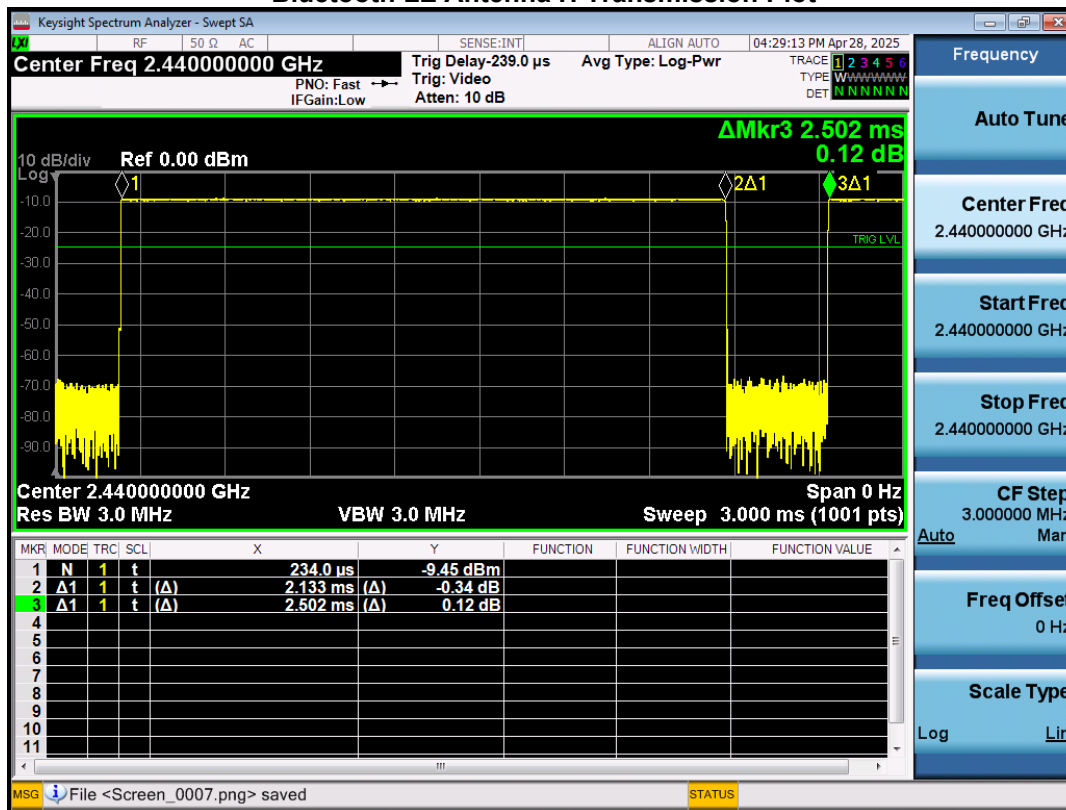
Equation 10-3

Bluetooth MIMO Duty Cycle Calculation

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

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Figure 10-10
Bluetooth LE Antenna H Transmission Plot



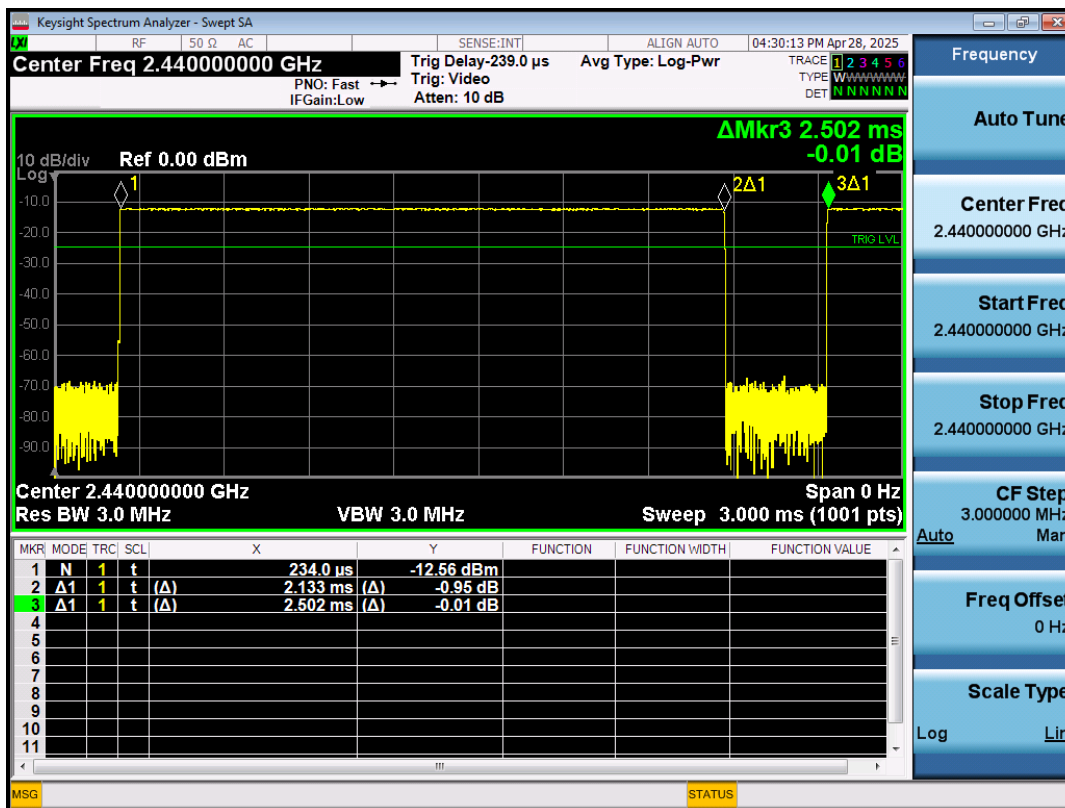
Equation 10-4
Bluetooth LE Antenna H Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.133\text{ms}}{2.502\text{ms}} * 100\% = 85.25\%$$

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Figure 10-11
Bluetooth LE Antenna J Transmission Plot



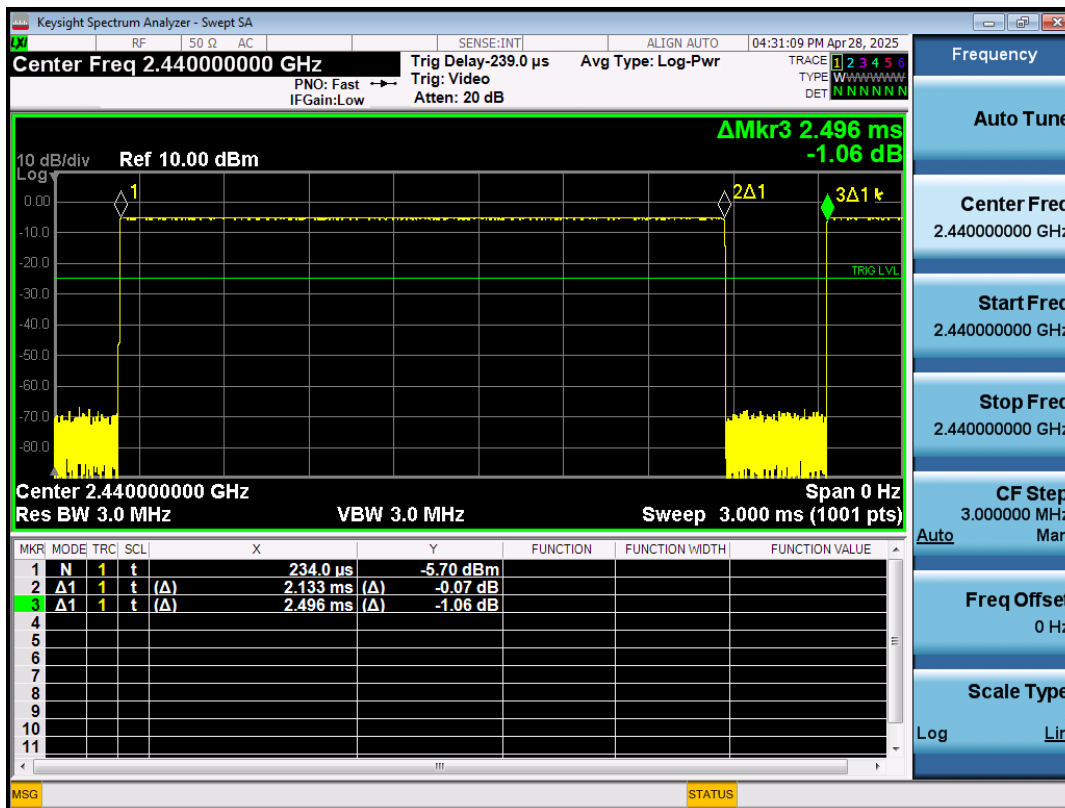
Equation 10-5
Bluetooth LE Antenna J Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.133\text{ms}}{2.502\text{ms}} * 100\% = 85.25\%$$

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Figure 10-12
Bluetooth LE MIMO Transmission Plot



Equation 10-6
Bluetooth LE MIMO Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.133\text{ms}}{2.496\text{ms}} * 100\% = 85.46\%$$

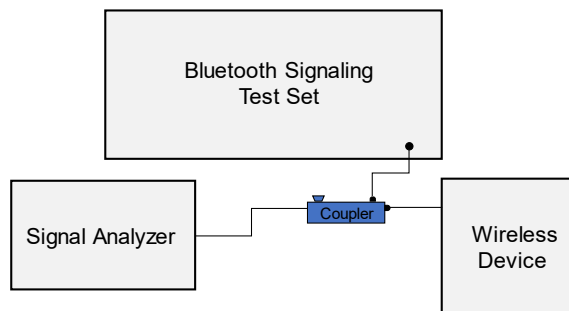


Figure 10-13
Power Measurement Setup

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11 SYSTEM VERIFICATION

11.1 Tissue Verification

Table 11-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
03/17/2025	30 Head	22.4	12	0.787	53.043	0.750	55.000	4.93%	-3.56%
			13	0.787	53.509	0.750	55.000	4.93%	-2.71%
			14	0.787	53.764	0.750	55.000	4.93%	-2.25%
			680	0.889	40.456	0.888	42.305	0.11%	-4.37%
03/10/2025	750 Head	22.7	695	0.894	40.420	0.889	42.227	0.56%	-4.28%
			710	0.898	40.382	0.890	42.149	0.90%	-4.19%
			725	0.903	40.332	0.891	42.071	1.35%	-4.13%
			750	0.911	40.247	0.894	41.942	1.90%	-4.04%
			770	0.917	40.184	0.895	41.838	2.46%	-3.95%
			785	0.922	40.144	0.896	41.760	2.90%	-3.87%
			800	0.927	40.103	0.897	41.682	3.34%	-3.79%
			680	0.845	41.967	0.888	42.305	-4.84%	-0.80%
			695	0.850	41.898	0.889	42.227	-4.39%	-0.78%
			710	0.855	41.837	0.890	42.149	-3.93%	-0.74%
03/19/2025	750 Head	20.8	725	0.861	41.771	0.891	42.071	-3.37%	-0.71%
			750	0.870	41.684	0.894	41.942	-2.68%	-0.62%
			770	0.877	41.623	0.895	41.838	-2.01%	-0.51%
			785	0.883	41.579	0.896	41.760	-1.45%	-0.43%
			800	0.888	41.534	0.897	41.682	-1.00%	-0.36%
			680	0.874	41.557	0.888	42.305	-1.58%	-1.77%
			695	0.878	41.504	0.889	42.227	-1.24%	-1.71%
			700	0.880	41.490	0.889	42.201	-1.01%	-1.68%
			710	0.884	41.459	0.890	42.149	-0.67%	-1.64%
			725	0.889	41.416	0.891	42.071	-0.22%	-1.56%
03/30/2025	750 Head	22.4	750	0.898	41.355	0.894	41.942	0.45%	-1.40%
			770	0.905	41.287	0.895	41.838	1.12%	-1.32%
			785	0.909	41.232	0.896	41.760	1.45%	-1.26%
			800	0.914	41.186	0.897	41.682	1.90%	-1.19%
			680	0.850	43.532	0.888	42.305	-4.28%	2.90%
			695	0.855	43.493	0.889	42.227	-3.82%	3.00%
			710	0.860	43.451	0.890	42.149	-3.37%	3.09%
			725	0.866	43.398	0.891	42.071	-2.81%	3.15%
			750	0.874	43.312	0.894	41.942	-2.24%	3.27%
			770	0.880	43.246	0.895	41.838	-1.68%	3.37%
04/02/2025	750 Head	20.9	785	0.885	43.193	0.896	41.760	-1.23%	3.43%
			800	0.890	43.147	0.897	41.682	-0.78%	3.51%
			680	0.869	42.164	0.888	42.305	-2.14%	-0.33%
			695	0.873	42.114	0.889	42.227	-1.80%	-0.27%
			710	0.878	42.073	0.890	42.149	-1.35%	-0.18%
			725	0.882	42.025	0.891	42.071	-1.01%	-0.11%
			750	0.890	41.941	0.894	41.942	-0.45%	0.00%
			770	0.896	41.877	0.895	41.838	0.11%	0.09%
			785	0.901	41.838	0.896	41.760	0.56%	0.19%
			800	0.905	41.804	0.897	41.682	0.89%	0.29%
04/21/2025	750 Head	24.7	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%
			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	0.859	40.039	0.898	41.594	-4.34%	-3.74%
			820	0.861	40.038	0.899	41.578	-4.23%	-3.70%
03/17/2025	835 Head	19.2	835	0.868	40.008	0.900	41.500	-3.56%	-3.60%
			850	0.874	39.949	0.916	41.500	-4.59%	-3.74%
			815	0.861	43.573	0.898	41.594	-4.12%	4.76%
			820	0.863	43.554	0.899	41.578	-4.00%	4.75%
03/17/2025	835 Head	22.8	835	0.870	43.500	0.900	41.500	-3.33%	4.82%
			850	0.877	43.453	0.916	41.500	-4.26%	4.71%
			815	0.921	41.539	0.898	41.594	2.56%	-0.13%
			820	0.924	41.534	0.899	41.578	2.78%	-0.11%
03/19/2025	835 Head	21.1	835	0.932	41.515	0.900	41.500	3.56%	0.04%
			850	0.940	41.501	0.916	41.500	2.62%	0.00%
			815	0.887	43.239	0.898	41.594	-1.22%	3.95%
			820	0.890	43.230	0.899	41.578	-1.00%	3.97%
03/19/2025	835 Head	23.0	835	0.897	43.207	0.900	41.500	-0.33%	4.11%
			850	0.905	43.194	0.916	41.500	-1.20%	4.08%
			815	0.857	40.439	0.898	41.594	-4.57%	-2.78%
			820	0.859	40.423	0.899	41.578	-4.45%	-2.78%
03/27/2025	835 Head	23.0	835	0.864	40.398	0.900	41.500	-4.00%	-2.66%
			850	0.871	40.396	0.916	41.500	-4.91%	-2.66%
			815	0.897	41.584	0.898	41.594	-0.11%	-0.02%
			820	0.899	41.570	0.899	41.578	0.00%	-0.02%
04/07/2025	835 Head	24.7	835	0.904	41.520	0.900	41.500	0.44%	0.05%
			850	0.909	41.476	0.916	41.500	-0.76%	-0.06%

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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 Frequency (MHz)	TARGET Conductivity σ (S/m)	TARGET Dielectric Constant ε	% dev σ	% dev ε
03/12/2025	1750 Head	21.8	1700	1.313	40.240	1.343	40.145	-2.22%	0.49%	
			1710	1.319	40.243	1.345	40.141	-2.19%	0.47%	
			1720	1.328	40.209	1.351	40.130	-2.18%	0.47%	
			1745	1.342	40.261	1.358	40.087	-1.90%	0.43%	
			1750	1.345	40.251	1.371	40.079	-1.90%	0.43%	
			1770	1.357	40.095	1.380	40.047	-1.68%	0.40%	
			1790	1.360	40.170	1.394	40.016	-1.79%	0.38%	
			1700	1.308	39.224	1.343	40.145	-2.61%	-2.12%	
			1750	1.311	39.248	1.345	40.141	-2.63%	-2.13%	
			1710	1.313	39.278	1.349	40.136	-2.60%	-2.14%	
03/17/2025	1750 Head	20.5	1720	1.319	39.278	1.351	40.130	-2.58%	-2.15%	
			1745	1.337	39.208	1.358	40.087	-2.47%	-1.93%	
			1750	1.338	39.190	1.371	40.079	-2.47%	-2.20%	
			1770	1.350	39.172	1.380	40.047	-2.39%	-2.19%	
			1790	1.361	39.139	1.394	40.016	-2.27%	-2.19%	
			1700	1.288	38.241	1.343	40.145	-4.02%	-4.05%	
			1750	1.292	38.239	1.345	40.141	-3.94%	-4.02%	
			1710	1.290	39.016	1.349	40.136	-3.93%	-4.02%	
			1720	1.292	39.000	1.351	40.130	-3.94%	-4.05%	
			1745	1.315	38.148	1.351	40.087	-3.55%	-4.09%	
03/22/2025	1750 Head	19.3	1750	1.321	38.438	1.371	40.079	-3.65%	-4.09%	
			1770	1.333	38.444	1.383	40.047	-3.62%	-4.05%	
			1790	1.345	38.362	1.394	40.016	-3.62%	-4.13%	
			1700	1.284	41.148	1.343	40.145	-4.39%	3.27%	
			1750	1.291	41.149	1.345	40.141	-4.31%	3.26%	
			1710	1.290	41.440	1.349	40.136	-4.30%	3.25%	
			1720	1.297	41.420	1.351	40.130	-4.27%	3.22%	
			1745	1.313	41.373	1.358	40.087	-4.02%	3.27%	
			1750	1.310	41.363	1.371	40.079	-4.08%	3.20%	
			1770	1.328	41.150	1.383	40.047	-3.88%	3.19%	
04/16/2025	1750 Head	21.5	1790	1.340	41.088	1.394	40.016	-3.87%	3.18%	
			1700	1.310	40.013	1.343	40.145	-1.73%	-0.33%	
			1750	1.322	40.002	1.345	40.141	-1.71%	-0.35%	
			1710	1.324	39.992	1.349	40.136	-1.78%	-0.36%	
			1720	1.328	39.976	1.351	40.130	-1.80%	-0.37%	
			1745	1.343	39.914	1.358	40.087	-1.79%	-0.43%	
			1750	1.347	39.904	1.371	40.079	-1.75%	-0.44%	
			1770	1.360	39.864	1.383	40.047	-1.64%	-0.45%	
			1790	1.372	39.838	1.394	40.016	-1.58%	-0.45%	
			1700	1.350	40.018	1.343	40.145	0.62%	1.83%	
04/21/2025	1750 Head	21.5	1750	1.353	40.000	1.345	40.141	-1.12%	-0.79%	
			1710	1.333	38.821	1.349	40.136	-1.11%	-0.78%	
			1720	1.336	38.808	1.351	40.130	-1.18%	-0.80%	
			1745	1.352	39.780	1.358	40.087	-1.17%	-0.80%	
			1750	1.350	39.768	1.371	40.079	-1.17%	-0.80%	
			1770	1.367	39.727	1.383	40.047	-1.16%	-0.80%	
			1790	1.370	39.698	1.394	40.016	-1.08%	-0.80%	
			1700	1.350	40.018	1.343	40.145	0.62%	1.83%	
			1750	1.353	40.000	1.345	40.141	-1.12%	-0.79%	
			1710	1.304	40.000	1.349	40.136	0.69%	1.80%	
04/23/2025	1750 Head	24.0	1720	1.301	40.001	1.351	40.130	0.62%	1.88%	
			1745	1.318	40.004	1.358	40.087	0.91%	1.88%	
			1750	1.378	40.000	1.371	40.079	0.91%	1.88%	
			1770	1.385	40.000	1.383	40.047	0.40%	1.88%	
			1790	1.401	40.000	1.394	40.016	0.80%	1.88%	
			1850	1.410	40.000	1.400	40.000	0.71%	1.75%	
			1880	1.420	40.000	1.420	40.000	1.14%	1.69%	
			1890	1.420	40.000	1.420	40.000	2.07%	1.68%	
			1900	1.443	40.044	1.420	40.000	3.07%	1.61%	
			1950	1.440	40.038	1.420	40.000	3.29%	1.60%	
03/10/2025	1900 Head	21.3	1910	1.450	40.032	1.400	40.000	3.57%	1.58%	
			1920	1.467	40.024	1.400	40.000	4.07%	1.59%	
			1950	1.395	39.035	1.400	40.000	-0.38%	-2.41%	
			1980	1.401	39.016	1.400	40.000	0.07%	-2.46%	
			1990	1.410	39.000	1.400	40.000	1.00%	-2.54%	
			1900	1.420	39.957	1.400	40.000	1.88%	-3.61%	
			1905	1.428	39.993	1.400	40.000	2.00%	-2.67%	
			1910	1.431	39.944	1.400	40.000	2.11%	-2.44%	
			1920	1.430	39.911	1.400	40.000	2.67%	-2.67%	
			1950	1.410	40.233	1.400	40.000	1.36%	2.89%	
03/17/2025	1900 Head	20.5	1980	1.425	40.218	1.400	40.000	7.79%	0.55%	
			1980	1.430	40.187	1.400	40.000	2.77%	0.47%	
			1990	1.425	40.150	1.400	40.000	2.64%	0.50%	
			1900	1.405	40.147	1.400	40.000	0.93%	0.37%	
			1920	1.400	40.140	1.400	40.000	4.14%	0.39%	
			1950	1.405	40.124	1.400	40.000	4.64%	0.37%	
			1950	1.370	40.241	1.400	40.000	-1.60%	0.69%	
			1980	1.385	40.118	1.400	40.000	-0.67%	0.73%	
			1990	1.390	40.090	1.400	40.000	-0.07%	0.75%	
			1900	1.414	40.208	1.400	40.000	1.00%	0.73%	
03/19/2025	1900 Head	21.5	1910	1.417	40.200	1.400	40.000	1.21%	0.74%	
			1910	1.420	40.207	1.400	40.000	1.43%	0.74%	
			1920	1.427	40.208	1.400	40.000	1.83%	0.75%	
			1950	1.380	39.240	1.400	40.000	-1.29%	-4.45%	
			1980	1.388	39.229	1.400	40.000	-0.68%	-4.44%	
			1990	1.400	39.194	1.400	40.000	0.00%	-4.81%	
			1900	1.412	39.180	1.400	40.000	0.88%	-4.90%	
			1905	1.410	39.162	1.400	40.000	1.07%	-4.82%	
			1910	1.410	39.138	1.400	40.000	1.29%	-4.64%	
			1920	1.425	39.125	1.400	40.000	7.79%	-4.69%	
03/22/2025	1900 Head	19.3	1950	1.382	39.099	1.400	40.000	-1.29%	-2.25%	
			1980	1.380	39.090	1.400	40.000	-0.68%	-2.26%	
			1990	1.390	39.070	1.400	40.00	-0.26%	-2.27%	
			1900	1.395	39.050	1.400	40.000	0.36%	-2.28%	
			1920	1.400	39.030	1.400	40.000	1.36%	-2.29%	
			1950	1.405	39.010	1.400	40.000	3.57%	-2.30%	
			1980	1.410	38.990	1.400	40.000	3.57%	-2.31%	
			1990	1.415	38.970	1.400	40.000	3.57%	-2.32%	
			1900	1.420	38.950	1.400	40.000	3.57%	-2.33%	
			1920	1.425	38.930	1.400	40.000	3.57%	-2.34%	
03/24/2025	1900 Head	21.0	1920	1.405	40.140	1.400	40.000	1.21%	0.74%	
			1920	1.410	40.147	1.400	40.000	1.43%	0.74%	
			1950	1.380	39.240	1.400	40.000	-1.29%	-4.45%	
			1980	1.388	39.229	1.400	40.000	-0.68%	-4.44%	
			1990	1.400	39.194	1.400	40.000	0.00%	-4.81%	
			1900	1.412	39.180	1.400	40.000	0.88%	-4.90%	
			1905	1.410	39.162	1.400	40.000	1.07%	-4.82%	
			1910	1.410	39.138	1.400	40.000	1.29%	-4.64%	
			1920	1.425	39.125	1.400	40.000	7.79%	-4.69%	
			1950	1.405	40.233	1.400	40.000	1.36%	2.89%	
04/16/2025	1900 Head	23.2	1950	1.410	40.240	1.400	40.000	0.68%	2.42%	
			1950	1.415	40.247	1.400	40.000	1.07%	2.44%	
			1980	1.420	40.220	1.400	40.000	1.43%	2.46%	
			1980	1.425	40.227	1.400	40.000	1.83%	2.48%	
			1990	1.430	40.200	1.400	40.000	2.22%	2.50%	
			1900	1.435	40.180	1.400	40.000	2.61%	2.52%	
			1920	1.440	40.160	1.400	40.000	3.00%	2.54%	
			1950	1.445	40.140	1.400	40.000	3.39%	2.56%	
			1980	1.450	40.120	1.400	40.000	3.78%	2.58%	
			1990	1.455	40.100	1.400	40.000	4.17%	2.60%	
04/22/2025	1900 Head	20.7	1980	1.427	40.314	1.400	40.000	4.50%	1.61%	
			1990	1.432	40.321	1.400	40.000	4.90%	1.62%	
			1900	1.437	40.328	1.400	40.000	5.30%	1.63%	
			1910	1.442	40.335	1.400	40.000	5.70%	1.64%	
			1920	1.447	40.342	1.400	40.000	6.10%	1.65%	
			1950	1.452	40.349	1.400	40.000	6.50%	1.66%	
			1980	1.457	40.356	1.400	40.000	6.90%	1.67%	
			1990	1.462	40.363	1.400	40.000	7.30%	1.68%	
			1900	1.467	40.370	1.400	40.000	7.70%	1.69%	
			1910	1.472	40.377	1.400	40.000	8.10%	1.70%	
04/28/2025	1900 Head	21.5	1950	1.424	40.318	1.400	40.000	4.77%	1.60%	
			1950	1.429	40.325	1.400	40.000	5.17%	1.61%	
			1980	1.434	40.332	1.400	40.000	5.57%	1.62%	
			1980	1.439	40.339	1.400	40.000	5.97%	1.63%	
			1990	1.444	40.346	1.400	40.000	6.37%	1.64%	
			1900	1.449	40.353	1.400	40.000	6.77%	1.65%	
			1910	1.454	40.360	1.400	40.000	7.17%	1.66%	
			1920	1.459	40.367	1.400	40.000	7.57%	1.67%	
			1950	1.464	40.374	1.400	40.000	7.97%	1.68%	
			1980	1.469	40.381	1.400	40.000	8.37%	1.69%	
04/29/2025	1900 Head	23.2	1980	1.436	40.386	1.400	40.000	5.04%	1.58%	
			1990	1.441	40.393	1.400	40.000	5.44%	1.59%	
			1900	1.446	40.399	1.400	40.000	5.84%	1.60%	
			1910	1.451	40.406	1.400	40.000	6.24%	1.61%	
			1920	1.456	40.413	1.400	40.000	6.64%	1.62%	
			1950	1.461	40.420	1.400	40.000	7.04%	1.63%	
			1980	1.466	40.427	1.400	40.000	7.44%	1.64%	
			1990	1.471	40.434	1.400	40.000	7.84%	1.65%	
			1900	1.476	40.441	1.400	40.000	8.24%	1.66%	
			1910	1.481	40.448	1.400	40.000	8.64%	1.67%	
04/30/2025	1900 Head									

Table 11-3
Measured Head Tissue Properties

Calibrated for Tissue Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Frequency, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
03/17/2025	2450 Head	20.0	2300	1.712	38.325	1.670	39.500	2.81%	-2.97%
			2310	1.720	38.315	1.679	39.480	2.44%	-3.95%
			2320	1.727	38.301	1.687	39.460	2.37%	-3.94%
			2400	1.768	38.164	1.756	39.289	1.62%	-2.88%
			2450	1.825	38.053	1.800	39.200	1.36%	-2.82%
			2480	1.848	38.031	1.833	39.162	0.62%	-2.85%
			2500	1.866	38.006	1.855	39.136	0.59%	-2.88%
			2510	1.875	37.995	1.866	39.123	0.48%	-2.88%
			2535	1.896	37.968	1.893	39.092	0.17%	-2.90%
			2550	1.906	37.936	1.909	39.073	-0.16%	-2.91%
			2560	1.913	37.914	1.920	39.060	-0.36%	-2.92%
			2590	1.948	37.836	1.964	39.009	-0.87%	-2.97%
			2600	1.959	37.795	2.018	38.945	-1.39%	-3.06%
			2680	2.013	37.688	2.051	38.907	-1.85%	-3.11%
			2700	2.030	37.655	2.073	38.882	-2.07%	-3.16%
03/19/2025	2450 Head	19.7	2300	1.717	38.349	1.670	39.500	2.81%	-3.91%
			2310	1.725	38.340	1.679	39.480	2.74%	-3.89%
			2320	1.732	38.328	1.687	39.460	2.67%	-3.87%
			2400	1.765	38.163	1.756	39.289	2.22%	-2.82%
			2450	1.833	38.108	1.800	39.200	1.63%	-2.79%
			2480	1.856	38.040	1.833	39.162	1.29%	-2.87%
			2500	1.873	38.008	1.855	39.136	0.97%	-2.88%
			2510	1.881	37.993	1.866	39.123	0.80%	-2.89%
			2535	1.903	37.968	1.893	39.092	0.53%	-2.91%
			2560	1.914	37.933	1.909	39.073	-0.26%	-2.92%
			2590	1.932	37.828	1.964	39.009	-0.61%	-3.03%
			2600	1.943	37.787	2.018	38.945	-1.24%	-3.10%
			2680	2.018	37.686	2.051	38.907	-1.61%	-3.14%
			2700	2.032	37.647	2.073	38.882	-1.98%	-3.18%
			04/03/2025	2450 Head	21.8	2300	1.682	40.286	1.670
2310	1.690	40.214				1.679	39.480	0.66%	1.87%
2320	1.697	40.256				1.687	39.460	0.59%	1.92%
2400	1.768	40.154				1.756	39.289	0.11%	2.20%
2450	1.758	40.058				1.800	39.200	-0.22%	2.27%
2480	1.819	40.059				1.833	39.162	-0.76%	2.28%
2500	1.835	40.026				1.855	39.136	-1.08%	2.27%
2510	1.843	40.041				1.866	39.123	-0.22%	2.27%
2535	1.861	39.951				1.893	39.092	-1.68%	2.27%
2550	1.875	39.905				1.909	39.073	-1.78%	2.28%
2560	1.883	39.953				1.920	39.060	-1.93%	2.29%
2590	1.908	39.785				2.018	38.945	-2.46%	2.19%
2600	1.918	39.744				2.051	38.907	-2.66%	2.18%
2680	1.981	39.725				2.051	38.907	-3.41%	2.10%
2700	1.998	39.677				2.073	38.882	-3.71%	2.04%
04/16/2025	2450 Head	24.0	2300	1.675	38.651	1.670	39.500	0.30%	-1.15%
			2310	1.686	38.618	1.679	39.480	0.39%	-1.18%
			2320	1.696	38.595	1.687	39.460	0.53%	-1.22%
			2400	1.785	38.281	1.756	39.289	0.65%	-0.87%
			2450	1.839	38.088	1.800	39.200	2.17%	-0.84%
			2480	1.875	37.978	1.833	39.162	2.29%	-0.95%
			2500	1.897	37.969	1.855	39.136	2.26%	-1.14%
			2510	1.908	37.872	1.866	39.123	2.25%	-1.20%
			2535	1.935	37.789	1.893	39.092	2.22%	-1.38%
			2560	1.964	37.701	1.909	39.073	2.36%	-1.57%
			2590	1.987	37.658	1.920	39.060	2.45%	-1.59%
			2600	2.014	37.528	1.964	39.009	2.55%	-1.80%
			2650	2.088	37.390	2.018	38.945	2.53%	-4.22%
			2680	2.108	37.344	2.051	38.907	2.66%	-4.43%
			2700	2.127	37.111	2.073	38.882	2.60%	-4.55%
04/17/2025	2450 Head	21.5	2300	1.678	38.161	1.670	39.500	0.48%	-0.88%
			2310	1.688	38.130	1.679	39.480	0.42%	-0.84%
			2320	1.693	38.136	1.687	39.460	0.36%	-0.82%
			2400	1.751	38.033	1.756	39.289	-0.28%	-0.65%
			2450	1.785	38.062	1.800	39.200	-0.72%	-0.61%
			2480	1.809	38.019	1.833	39.162	-1.31%	-0.62%
			2500	1.826	38.080	1.855	39.136	-1.56%	-0.64%
			2510	1.834	38.073	1.866	39.123	-1.71%	-0.64%
			2535	1.854	38.026	1.893	39.092	-2.06%	-0.60%
			2550	1.865	38.014	1.909	39.073	-2.30%	-0.68%
			2560	1.874	38.000	1.920	39.060	-2.40%	-0.67%
			2590	1.908	37.936	1.964	39.009	-2.85%	-0.70%
			2600	1.946	37.850	2.018	38.945	-3.57%	-0.76%
			2680	1.972	37.803	2.051	38.907	-3.85%	-0.78%
			2700	1.988	37.768	2.073	38.882	-4.10%	-0.87%
04/21/2025	2450 Head	21.7	2300	1.683	38.155	1.670	39.500	0.79%	-3.41%
			2310	1.690	38.138	1.679	39.480	0.66%	-3.40%
			2320	1.698	38.121	1.687	39.460	0.65%	-3.39%
			2400	1.727	38.032	1.756	39.289	0.06%	-0.20%
			2450	1.798	37.953	1.800	39.200	-0.11%	-3.18%
			2480	1.816	37.914	1.833	39.162	-0.62%	-3.19%
			2500	1.833	37.877	1.855	39.136	-1.19%	-3.22%
			2510	1.840	37.857	1.866	39.123	-1.39%	-3.24%
			2535	1.862	37.812	1.893	39.092	-1.64%	-3.27%
			2550	1.875	37.794	1.909	39.073	-1.79%	-3.27%
			2560	1.883	37.781	1.920	39.060	-1.85%	-3.27%
			2590	1.913	37.707	1.964	39.009	-2.60%	-3.34%
			2600	1.955	37.610	2.018	38.945	-3.12%	-3.43%
			2680	1.979	37.566	2.051	38.907	-3.57%	-3.45%
			2700	1.995	37.527	2.073	38.882	-3.76%	-3.48%
04/21/2025	2450 Head	20.7	2300	1.683	38.661	1.670	39.500	0.78%	0.41%
			2310	1.691	38.663	1.679	39.480	0.71%	0.42%
			2320	1.699	38.627	1.687	39.460	0.71%	0.42%
			2400	1.759	38.532	1.756	39.289	0.17%	0.62%
			2450	1.801	38.458	1.800	39.200	0.06%	0.66%
			2480	1.823	38.420	1.833	39.162	-0.95%	0.66%
			2500	1.837	38.377	1.855	39.136	-0.97%	0.62%
			2510	1.845	38.368	1.866	39.123	-1.12%	0.60%
			2535	1.868	38.314	1.893	39.092	-1.32%	0.57%
			2550	1.882	38.257	1.909	39.073	-1.41%	0.57%
			2560	1.890	38.288	1.920	39.060	-1.56%	0.58%
			2590	1.921	38.214	1.964	38.998	-2.19%	0.53%
			2600	1.955	38.117	2.018	38.945	-2.63%	0.44%
			2680	1.989	38.078	2.051	38.907	-3.02%	0.43%
			2700	2.005	38.038	2.073	38.882	-3.28%	0.40%
05/14/2025	2450 Head	19.9	2300	1.736	38.623	1.670	39.500	3.95%	-2.22%
			2310	1.745	38.605	1.679	39.480	3.83%	-2.22%
			2320	1.754	38.593	1.687	39.460	3.87%	-2.20%
			2400	1.810	38.417	1.756	39.289	1.08%	-1.14%
			2450	1.857	38.379	1.800	39.200	3.17%	-1.09%
			2480	1.875	38.330	1.833	39.162	2.29%	-1.12%
			2500	1.890	38.288	1.855	39.136	1.89%	-1.22%
			2510	1.900	38.238	1.866	39.123	1.82%	-1.26%
			2535	1.929	38.195	1.893	39.092	1.90%	-1.29%
			2550	1.945	38.151	1.909	39.073	2.01%	-1.31%
			2560	1.954	38.156	1.920	39.060	2.08%	-1.32%
			2590	1.980	38.106	1.964	39.009	2.81%	-1.21%
			2600	2.005	38.054	2.018	38.945	2.69%	-1.40%
			2680	2.056	37.977	2.051	38.907	2.94%	-1.29%
			2700	2.066	37.940	2.073	38.882	-0.34%	-2.42%
04/03/2025	3600 Head	20.0	2300	2.059	38.041	2.073	39.162	-0.63%	-0.03%
			2350	2.051	38.151	2.109	39.100	-3.91%	4.33%
			3450	2.742	39.684	2.861	37.886	-4.16%	4.21%
			3500	2.784	39.473	2.913	37.929	-4.43%	4.07%
			3600	2.837	39.441	2.964	37.871	-4.28%	4.03%
			3650	2.845	39.432	2.914	37.860	-3.43%	4.15%
			3680	2.877	39.318	3.015	37.814	-5.58%	3.98%
			3690	2.931	39.065	3.066	37.792	-5.91%	3.94%
			3800	2.962	38.957	3.107	37.711	-4.67%	3.94%
			3700	2.974	38.910	3.117	37.700	-4.59%	3.90%
			3750	2.994	38.860	3.160	37.642	-4.58%	3.91%
			3850	3.181	38.851	3.223	37.471	-2.47%	3.68%
			3930	3.212	38.808	3.353	37.437	-4.21%	3.66%
			4100	3.437	38.699	3.508	37.246	-4.07%	3.68%

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
04/08/2025	3600 Head	19.4	3300	2.638	36.951	2.708	38.157	-2.58%	2.08%
			3350	2.683	36.861	2.759	38.100	-2.75%	2.00%
			3450	2.777	36.670	2.861	37.888	-2.94%	1.80%
			3500	2.822	36.591	2.913	37.929	-3.12%	1.75%
			3550	2.868	36.488	2.964	37.871	-3.24%	1.66%
			3560	2.876	36.489	2.974	37.860	-3.23%	1.66%
			3600	2.918	36.408	3.015	37.814	-3.22%	1.57%
			3650	2.966	36.334	3.066	37.757	-3.26%	1.53%
			3690	3.008	36.246	3.107	37.711	-3.25%	1.42%
			3700	3.017	36.230	3.117	37.700	-3.21%	1.41%
			3750	3.063	36.167	3.169	37.643	-3.34%	1.39%
			3900	3.216	37.891	3.323	37.471	-3.22%	1.12%
			3930	3.252	37.858	3.353	37.437	-3.01%	1.12%
			4100	3.429	37.572	3.528	37.243	-2.81%	0.88%
			4150	3.482	37.507	3.579	37.188	-2.71%	0.86%
			3300	2.608	39.298	2.708	38.157	-3.65%	2.91%
			3350	2.653	39.172	2.759	38.100	-3.84%	2.81%
			3450	2.747	38.989	2.861	37.988	-3.98%	2.64%
			3500	2.793	38.916	2.913	37.929	-4.12%	2.60%
			3550	2.841	38.827	2.964	37.871	-4.15%	2.52%
04/13/2025	3600 Head	19.5	3560	2.852	38.507	2.974	37.860	-4.10%	2.50%
			3600	2.891	38.442	3.015	37.814	-4.11%	2.45%
			3650	2.937	38.371	3.066	37.757	-4.21%	2.42%
			3690	2.979	38.584	3.107	37.711	-4.12%	2.31%
			3700	2.986	38.567	3.117	37.700	-4.11%	2.30%
			3750	3.031	38.496	3.169	37.643	-4.35%	2.27%
			3900	3.188	38.235	3.323	37.471	-4.66%	2.04%
			3930	3.222	38.194	3.353	37.437	-3.91%	2.02%
			4100	3.400	37.937	3.528	37.243	-3.63%	1.86%
			4150	3.459	37.846	3.579	37.188	-3.35%	1.77%
			5150	4.516	35.966	4.608	36.050	-1.95%	-0.23%
			5160	4.526	35.934	4.618	36.040	-1.99%	-0.29%
			5170	4.534	35.895	4.629	36.030	-2.05%	-0.37%
			5180	4.540	35.855	4.635	36.009	-1.88%	-0.43%
			5190	4.563	35.833	4.645	35.998	-1.77%	-0.46%
			5200	4.577	35.824	4.655	35.988	-1.68%	-0.45%
			5210	4.591	35.822	4.666	35.975	-1.61%	-0.43%
			5220	4.599	35.813	4.676	35.963	-1.65%	-0.42%
			5240	4.614	35.781	4.696	35.940	-1.75%	-0.44%
			5250	4.622	35.758	4.706	35.929	-1.78%	-0.45%
04/21/2025	5200-5800 Head	20.5	5260	4.630	35.733	4.717	35.917	-1.84%	-0.51%
			5270	4.641	35.711	4.727	35.906	-1.82%	-0.54%
			5280	4.658	35.688	4.737	35.894	-1.67%	-0.57%
			5290	4.673	35.662	4.748	35.883	-1.58%	-0.62%
			5300	4.688	35.632	4.758	35.871	-1.47%	-0.67%
			5310	4.703	35.619	4.768	35.860	-1.43%	-0.67%
			5320	4.711	35.617	4.778	35.849	-1.40%	-0.65%
			5500	4.914	35.268	4.983	35.643	-0.99%	-1.05%
			5510	4.931	35.257	4.973	35.632	-0.84%	-1.05%
			5520	4.947	35.260	4.983	35.620	-0.72%	-1.01%
			5530	4.965	35.266	4.994	35.609	-0.76%	-0.96%
			5540	4.960	35.256	5.004	35.597	-0.88%	-0.96%
			5550	4.965	35.228	5.014	35.586	-0.98%	-1.01%
			5560	4.974	35.193	5.024	35.574	-1.00%	-1.07%
			5580	5.000	35.143	5.045	35.551	-0.89%	-1.15%
			5600	5.040	35.098	5.065	35.529	-0.49%	-1.21%
			5610	5.065	35.086	5.076	35.518	-0.41%	-1.22%
			5620	5.065	35.079	5.086	35.505	-0.35%	-1.20%
			5640	5.080	35.057	5.106	35.483	-0.51%	-1.20%
			5660	5.097	35.010	5.127	35.460	-0.59%	-1.27%
			5670	5.111	34.988	5.137	35.449	-0.51%	-1.30%
			5680	5.125	34.971	5.147	35.437	-0.43%	-1.32%
			5690	5.139	34.953	5.158	35.426	-0.37%	-1.34%
			5700	5.151	34.931	5.168	35.414	-0.33%	-1.36%
			5710	5.164	34.917	5.178	35.403	-0.27%	-1.37%
			5720	5.175	34.900	5.188	35.391	-0.25%	-1.39%
			5745	5.202	34.852	5.214	35.363	-0.23%	-1.45%
			5750	5.208	34.840	5.219	35.357	-0.21%	-1.46%
			5755	5.213	34.834	5.224	35.351	-0.21%	-1.46%
			5765	5.222	34.822	5.234	35.340	-0.23%	-1.47%
			5775	5.230	34.803	5.245	35.329	-0.29%	-1.49%
			5785	5.243	34.789	5.255	35.317	-0.23%	-1.50%
			5795	5.254	34.764	5.265	35.305	-0.21%	-1.53%
			5805	5.266	34.746	5.275	35.294	-0.17%	-1.55%
			5825	5.290	34.707	5.296	35.271	-0.11%	-1.60%
			5835	5.301	34.686	5.305	35.230	-0.08%	-1.54%
			5845	5.310	34.664	5.315	35.210	-0.09%	-1.55%
			5850	5.315	34.654	5.320	35.200	-0.09%	-1.55%
			5855	5.319	34.650	5.325	35.197	-0.11%	-1.55%
			5875	5.343	34.612	5.347	35.183	-0.07%	-1.62%
			5885	5.353	34.592	5.357	35.177	-0.07%	-1.66%
			5905	5.376	34.563	5.379	35.163	-0.06%	-1.71%
04/15/2025	6000 Head	21.3	6000	5.462	35.269	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	5.528	34.988	5.580	34.968	-0.91%	-0.09%
			6185	5.658	34.817	5.699	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%
			6665	6.254	33.925	6.265	34.302	-0.18%	-1.10%
			6675	6.267	33.897	6.273	34.280	-0.26%	-1.03%
			6685	6.267	33.926	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%	-1.46%
			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%
			7580	7.868	31.783	7.816	32.724	0.67%	-2.88%
			8000	7.893	31.850	7.840	32.700	0.68%	-2.74%

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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
04/21/2025	6000 Head	20.6	6000	5.564	35.365	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	5.965	34.905	5.816	34.758	2.61%	0.14%
			6305	5.982	34.738	5.840	34.734	2.43%	0.01%
			6345	6.051	34.696	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%
			6665	6.446	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	6.470	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	8.015	31.767	7.816	32.724	2.58%	-2.92%
			8000	8.085	31.696	7.840	32.700	2.68%	-2.46%
			8000	5.430	35.325	5.480	35.100	-0.75%	0.73%
04/25/2025	6000 Head	22.1	6025	5.620	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	34.864	5.840	34.734	-0.05%	0.32%
			6345	5.908	34.774	5.887	34.686	0.36%	0.25%
			6475	6.040	34.627	6.041	34.530	0.13%	0.28%
			6485	6.055	34.604	6.052	34.518	0.05%	0.25%
			6500	6.066	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%
			6665	6.302	34.284	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	6.696	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	0.79%	-1.76%
			8000	5.410	35.145	5.480	35.100	-1.11%	0.13%
04/30/2025	6000 Head	22.0	6025	5.594	34.915	5.510	35.070	-0.11%	-0.44%
			6065	5.529	34.980	5.557	35.022	-0.50%	-0.12%
			6075	5.532	34.956	5.569	35.010	-0.66%	-0.15%
			6085	5.537	34.911	5.580	34.998	-0.77%	-0.25%
			6185	5.651	34.759	5.698	34.878	-0.82%	-0.34%
			6275	5.779	34.816	5.805	34.770	-0.45%	-0.44%
			6285	5.787	34.581	5.816	34.758	-0.50%	-0.51%
			6305	5.805	34.506	5.840	34.734	-0.58%	-0.66%
			6345	5.878	34.474	5.887	34.686	-0.15%	-0.61%
			6475	6.015	34.305	6.041	34.530	-0.43%	-0.65%
			6485	6.019	34.294	6.052	34.518	-0.55%	-0.68%
			6500	6.028	34.221	6.070	34.500	-0.69%	-0.81%
			6505	6.032	34.193	6.076	34.494	-0.72%	-0.87%
			6545	6.116	34.107	6.122	34.446	-0.10%	-0.98%
			6665	6.271	33.966	6.265	34.302	0.10%	-0.98%
			6675	6.272	33.975	6.273	34.290	-0.02%	-0.92%
			6685	6.272	33.962	6.285	34.278	-0.21%	-0.92%
			6715	6.294	33.799	6.319	34.242	-0.40%	-1.29%
			6785	6.387	33.791	6.400	34.158	-0.20%	-1.07%
			6825	6.417	33.610	6.447	34.110	-0.47%	-1.47%
			6985	6.617	33.442	6.633	33.918	-0.24%	-1.40%
			6995	6.624	33.410	6.644	33.906	-0.30%	-1.46%
			7000	6.628	33.391	6.650	33.900	-0.33%	-1.50%
			7005	6.633	33.365	6.656	33.894	-0.35%	-1.56%
			7025	6.656	33.284	6.680	33.870	-0.36%	-1.73%
			7500	7.203	32.474	7.240	33.300	-0.51%	-2.48%
			7980	7.803	31.748	7.816	32.724	-0.17%	-2.98%
			8000	7.866	31.867	7.840	32.700	0.33%	-2.55%

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 11-6
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 4cm ² APD (W/m ²)	1W Target 4cm ² APD (W/m ²)	1W Normalized 4cm ² APD (W/m ²)	Deviation 4cm ² APD (%)
G	13	HEAD	03/17/2025	23.5	22.4	1.00	4002	7551	1333	0.54	0.52	0.54	3.08%	0.33	0.33	0.33	2.15%	0.00	0.00	N/A	N/A
G	750	HEAD	03/10/2025	23.9	22.7	0.20	1161	7551	1323	1.73	8.36	8.65	3.47%	1.13	5.41	5.65	4.44%	N/A	N/A	N/A	N/A
O	750	HEAD	03/19/2025	19.2	19.8	0.20	1161	3914	728	1.75	8.36	8.75	4.67%	1.17	5.41	5.85	8.13%	N/A	N/A	N/A	N/A
P	750	HEAD	03/30/2025	22.0	22.4	0.20	1054	7571	859	1.80	8.68	9.00	3.69%	1.19	5.61	5.95	6.06%	N/A	N/A	N/A	N/A
P	750	HEAD	04/02/2025	20.5	20.9	0.20	1054	7571	859	1.68	8.68	8.40	-3.23%	1.11	5.61	5.55	-1.07%	N/A	N/A	N/A	N/A
P	750	HEAD	04/09/2025	20.2	20.3	0.20	1054	7571	859	1.68	8.68	8.40	-3.23%	1.14	5.61	5.70	1.60%	N/A	N/A	N/A	N/A
O	750	HEAD	04/21/2025	21.9	23.5	0.20	1054	3914	728	1.77	8.68	8.85	1.96%	1.18	5.61	5.90	5.17%	N/A	N/A	N/A	N/A
K2	835	HEAD	03/16/2025	22.3	21.3	0.20	46180	7565	1466	2.10	9.94	10.50	5.63%	1.38	6.45	6.90	6.98%	N/A	N/A	N/A	N/A
P	835	HEAD	03/17/2025	19.0	19.2	0.20	46133	7571	859	1.93	9.94	9.65	-2.92%	1.29	6.49	6.45	-0.62%	N/A	N/A	N/A	N/A
E	835	HEAD	03/17/2025	25.0	22.8	0.20	46133	7409	1334	1.84	9.94	9.20	-7.44%	1.21	6.49	6.05	-6.78%	N/A	N/A	N/A	N/A
H	835	HEAD	03/19/2025	23.7	21.9	0.20	46132	7417	665	1.99	9.84	9.95	1.12%	1.30	6.40	6.50	1.56%	N/A	N/A	N/A	N/A
E	835	HEAD	03/19/2025	23.8	21.5	0.20	46132	7409	1334	2.06	9.84	10.30	4.67%	1.25	6.40	6.75	5.47%	N/A	N/A	N/A	N/A
E	835	HEAD	03/27/2025	22.9	23.0	0.20	46132	7409	1334	2.08	9.84	10.40	5.69%	1.36	6.40	6.80	6.25%	N/A	N/A	N/A	N/A
S	835	HEAD	04/07/2025	22.6	23.3	0.20	46133	7803	1583	2.00	9.94	10.00	0.60%	1.33	6.49	6.65	2.47%	N/A	N/A	N/A	N/A
M	835	HEAD	05/05/2025	20.7	20.7	0.20	46132	7661	1558	2.07	9.84	10.35	5.18%	1.38	6.40	6.90	7.81%	N/A	N/A	N/A	N/A
C	835	HEAD	05/09/2025	24.5	22.5	0.20	46133	7713	1530	1.96	9.94	9.80	-1.41%	1.29	6.49	6.45	-0.62%	N/A	N/A	N/A	N/A
K3	1750	HEAD	03/12/2025	21.4	21.8	0.10	1051	7558	1364	3.47	37.00	34.70	-6.22%	1.85	18.50	18.50	-5.13%	N/A	N/A	N/A	N/A
AM16	1750	HEAD	03/17/2025	20.1	19.0	0.10	1104	7552	1676	3.60	35.60	36.00	1.12%	1.93	18.80	19.30	2.66%	N/A	N/A	N/A	N/A
P	1750	HEAD	03/22/2025	20.0	19.3	0.10	1150	7571	859	3.59	36.40	35.90	-1.37%	1.97	19.40	19.70	1.55%	N/A	N/A	N/A	N/A
K3	1750	HEAD	03/23/2025	21.9	20.8	0.10	1051	7558	1364	3.53	37.00	35.30	-4.59%	1.89	19.50	18.90	-3.08%	N/A	N/A	N/A	N/A
AM16	1750	HEAD	03/31/2025	21.9	20.5	0.10	1104	7552	1676	3.73	35.60	37.30	4.78%	2.00	18.80	20.00	6.38%	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
J	1750	HEAD	04/21/2025	23.1	21.5	0.10	1148	7406	1677	3.81	36.90	38.30	3.79%	2.04	19.60	20.40	4.08%	N/A	N/A	N/A	N/A
J	1750	HEAD	04/23/2025	23.7	22.6	0.10	1148	7406	1677	3.78	36.90	37.80	2.44%	2.00	19.60	20.00	2.04%	N/A	N/A	N/A	N/A
K3	1900	HEAD	03/10/2025	21.0	21.3	0.10	56141	7558	1364	4.05	40.30	40.50	0.50%	2.09	21.00	20.90	-0.48%	N/A	N/A	N/A	N/A
AM16	1900	HEAD	03/17/2025	20.1	19.0	0.10	56180	7552	1676	3.85	39.20	38.50	-1.79%	2.01	20.60	20.10	-2.43%	N/A	N/A	N/A	N/A
R	1900	HEAD	03/19/2025	21.3	19.7	0.10	56080	7570	1638	4.31	39.60	43.10	8.84%	2.25	20.70	22.50	8.70%	N/A	N/A	N/A	N/A
K3	1900	HEAD	03/19/2025	22.1	21.5	0.10	56141	7558	1364	4.11	40.30	41.10	1.99%	2.12	21.00	21.20	0.95%	N/A	N/A	N/A	N/A
P	1900	HEAD	03/22/2025	20.0	19.3	0.10	56080	7571	859	4.27	39.60	42.70	7.83%	2.26	20.70	22.60	9.18%	N/A	N/A	N/A	N/A
K6	1900	HEAD	03/24/2025	21.6	21.0	0.10	56141	7402	1502	4.02	40.30	40.20	-0.25%	2.10	21.00	21.00	0.00%	N/A	N/A	N/A	N/A
E	1900	HEAD	03/30/2025	24.8	23.0	0.10	56080	7409	1334	4.24	39.60	42.40	7.07%	2.25	20.70	22.50	8.70%	N/A	N/A	N/A	N/A
AM16	1900	HEAD	04/02/2025	21.5	19.0	0.10	56180	7552	1676	3.83	39.20	38.30	-2.30%	2.00	20.60	20.00	-2.91%	N/A	N/A	N/A	N/A
J	1900	HEAD	04/09/2025	24.0	22.2	0.10	56080	7406	1677	4.19	39.60	41.90	5.81%	2.15	20.70	21.50	3.86%	N/A	N/A	N/A	N/A
E	1900	HEAD	04/16/2025	23.1	22.9	0.10	56080	7409	1334	4.19	39.60	41.90	5.81%	2.18	20.70	21.80	5.31%	N/A	N/A	N/A	N/A
J	1900	HEAD	04/16/2025	23.3	21.4	0.10	56080	7406	1677	4.31	39.60	43.10	8.84%	2.23	20.70	22.30	7.73%	N/A	N/A	N/A	N/A
AM10	2450	HEAD	04/16/2025	21.3	22.8	0.10	750	3837	793	5.64	52.60	56.40	7.22%	2.52	24.50	25.20	2.86%	N/A	N/A	N/A	N/A
C	2450	HEAD	04/17/2025	21.9	21.5	0.10	981	7713	1530	4.86	51.80	48.60	-6.18%	2.29	24.30	22.90	-5.76%	N/A	N/A	N/A	N/A
P	2450	HEAD	04/21/2025	22.2	22.0	0.10	719	7571	859	5.26	52.20	52.60	0.77%	2.46	24.60	24.60	0.00%	N/A	N/A	N/A	N/A
C	2450	HEAD	04/21/2025	22.4	20.7	0.10	981	7713	1530	5.08	51.80	50.80	-1.93%	2.39	24.30	23.90	-1.65%	N/A	N/A	N/A	N/A
O	2450	HEAD	05/14/2025	20.5	19.9	0.10	797	7718	1407	5.20	52.20	52.00	0.00%	2.43	24.60	24.30	-0.41%	N/A	N/A	N/A	N/A
AM13	2600	HEAD	03/17/2025	19.8	19.5	0.10	1068	7682	1683	5.55	56.50	55.50	-1.77%	2.48	25.40	24.80	-2.36%	N/A	N/A	N/A	N/A
AM13	2600	HEAD	03/19/2025	20.4	19.2	0.10	1042	7682	1683	5.49	55.80	54.90	-1.61%	2.47	24.90	24.70	-0.80%	N/A	N/A	N/A	N/A
O	2600	HEAD	04/03/2025	23.0	21.4	0.10	1064	3914	728	5.92	56.40	59.20	4.96%	2.67	25.20	26.70	5.95%	N/A	N/A	N/A	N/A
AM10	2800	HEAD	04/16/2025	21.3	22.8	0.10	1042	3837	793	5.25	55.80	52.50	-5.91%	2.26	24.90	22.60	-9.24%	N/A	N/A	N/A	N/A
P	2800	HEAD	04/21/2025	22.2	22.0	0.10	1071	7571	859	5.39	56.50	53.90	-4.60%	2.43	25.40	24.30	-4.33%	N/A	N/A	N/A	N/A
H	3500	HEAD	04/03/2025	21.3	21.5	0.10	1097	7417	665	6.04	65.40	60.40	-7.65%	2.33	24.70	23.30	-5.67%	N/A	N/A	N/A	N/A
H	3500	HEAD	04/08/2025	23.0	21.2	0.10	1097	7417	665	6.77	65.40	67.70	3.52%	2.61	24.70	26.10	5.67%	N/A	N/A	N/A	N/A
H	3500	HEAD	04/13/2025	22.7	21.2	0.10	1097	7417	665	6.65	65.40	66.50	1.68%	2.56	24.70	25.60	3.64%	N/A	N/A	N/A	N/A
H	3700	HEAD	04/03/2025	21.3	21.5	0.10	1067	7417	665	6.27	66.90	62.70	-6.28%	2.35	24.30	23.50	-3.29%	N/A	N/A	N/A	N/A
H	3700	HEAD	04/08/2025	23.0	21.2	0.10	1067	7417	665	6.54	66.90	65.40	-2.24%	2.44	24.30	24.40	0.41%	N/A	N/A	N/A	N/A
H	3700	HEAD	04/13/2025	22.7	21.2	0.10	1067	7417	665	6.34	66.90	63.40	-5.23%	2.36	24.30	23.60	-2.88%	N/A	N/A	N/A	N/A
H	3900	HEAD	04/03/2025	21.3	21.5	0.10	1056	7417	665	6.63	68.20	66.30	-2.79%	2.34	23.80	23.40	-1.68%	N/A	N/A	N/A	N/A
H	3900	HEAD	04/08/2025	23.0	21.2	0.10	1056	7417	665	6.81	68.20	68.10	-0.15%	2.42	23.80	24.20	1.68%	N/A	N/A	N/A	N/A
H	3900	HEAD	04/13/2025	22.7	21.2	0.10	1056	7417	665	6.77	68.20	67.70	-0.73%	2.40	23.80	24.00	0.84%	N/A	N/A	N/A	N/A
S	5250	HEAD	04/21/2025	21.7	20.5	0.05	1191	7803	1583	4.01	78.90	80.20	1.65%	1.18	22.70	23.60	3.96%	N/A	N/A	N/A	N/A
S	5600	HEAD	04/21/2025	21.7	20.5	0.05	1191	7803	1583	4.09	83.00	81.80	-1.45%	1.20	23.90	24.00	0.42%	N/A	N/A	N/A	N/A
S	5750	HEAD	04/21/2025	21.7	20.5	0.05	1191	7803	1583	3.83	78.90	76.60	-2.92%	1.12	22.40	22.40	0.00%	N/A	N/A	N/A	N/A
S	5850	HEAD	04/21/2025	21.7	20.5	0.05	1191	7803	1583	3.82	78.80	76.40	-3.05%	1.11	22.50	22.20	-1.33%	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	298.00	292.40	-1.88%	1.31	55.20	52.40	-5.07%	31.80	1350.00	1272.00	-5.78%
R	6500	HEAD	04/21/2025	23.0	22.1	0.03	1018	7570	1638	7.15	292.00	286.00	-2.05%	1.34	53.90	53.60	-0.56%	32.30	1310.00	1292.00	-1.37%
R	8000	HEAD	04/25/2025	23.0	22.1	0.03	1007	7570	1638	7.07	262.00	382.80	7.94%	1.19	44.70	47.60	6.49%	28.90			

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.

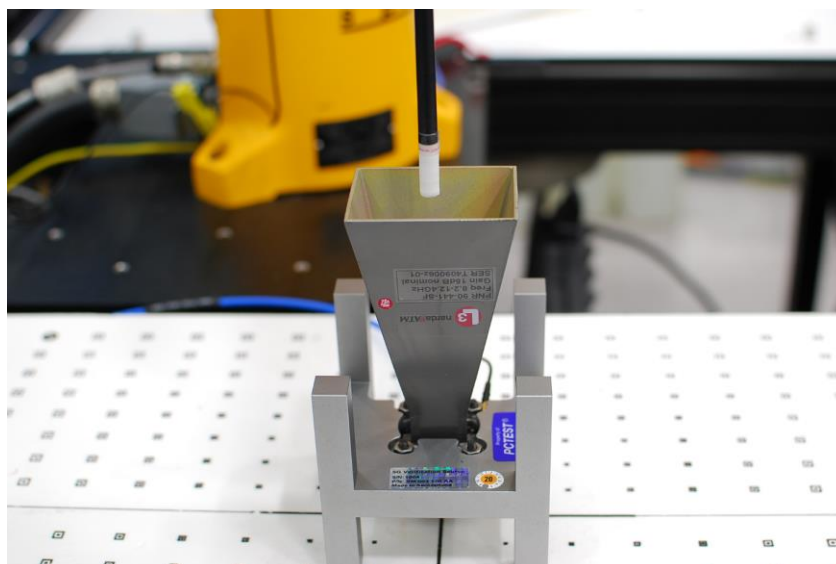


Figure 11-3
System Verification Setup Photo

Table 11-7
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	04/21/2025	1002	9389	93.3	48.70	54.60	-0.45	48.50	54.90	-0.45
Q	10	04/27/2025	1002	9389	93.3	49.50	54.60	-0.38	49.30	54.90	-0.38
Q	10	05/13/2025	1002	9389	93.3	47.00	54.60	-0.60	46.80	54.90	-0.61

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

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12 SAR DATA SUMMARY

12.1 GSM 850 Standalone SAR

Table 12-1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	Max Allowed Power (dBm)	Conducted Power (dBm)	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR (W/kg)	Adjusted 1g SAR (W/kg)	Exposure Ratio (1g SAR)	Plot #	Piimit (dBm)	Overall Piimit (dBm)	EFS Piimit (dBm)
Head	GSM 850	GSM	A+C	0337M	1-8.3	0.10	824.20	128	33.5	32.46	Right Cheek	0	0.007	1.271	0.009	0.169	0.106		44.8		
Head	GSM 850	GSM	A+C	0337M	1-8.3	0.04	824.20	128	33.5	32.46	Right Tilt	0	0.004	1.271	0.005	0.097	0.061		47.2	44.8	37.1
Head	GSM 850	GSM	A+C	0337M	1-8.3	0.15	824.20	128	33.5	32.46	Left Cheek	0	0.005	1.271	0.006	0.121	0.076		46.2		
Head	GSM 850	GSM	A+C	0337M	1-8.3	0.01	824.20	128	33.5	32.46	Left Tilt	0	0.003	1.271	0.004	0.073	0.046		48.4		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak											Head										
Uncontrolled Exposure/General Population											1.6 W/kg (mW/g) averaged over 1 gram										

Table 12-2

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Piimit [dBm]	Overall Piimit [dBm]	EFS Piimit [dBm]
Head	GSM 850	GSM	A	0320M	1-8.3	0.02	824.20	128	33.5	32.46	Right Cheek	0	0.017	1.271	0.022	0.412	0.258		40.9		
Head	GSM 850	GSM	A	0320M	1-8.3	0.08	824.20	128	33.5	32.46	Right Tilt	0	0.010	1.271	0.013	0.242	0.151		43.2	40.9	37.1
Head	GSM 850	GSM	A	0320M	1-8.3	0.04	824.20	128	33.5	32.46	Left Cheek	0	0.015	1.271	0.019	0.363	0.227		41.4		
Head	GSM 850	GSM	A	0320M	1-8.3	0.06	824.20	128	33.5	32.46	Left Tilt	0	0.009	1.271	0.011	0.218	0.136		43.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-3 | 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]	Exposure Ratio (1g SAR)	Plot #	Piimit [dBm]	Overall Piimit [dBm]	EFS Piimit [dBm]
Head	GSM 850	GSM	E	0320M	1-8.3	0.02	836.60	190	33.5	32.05	Right Cheek	0	0.074	1.396	0.103	0.506	0.316		34.1		
Head	GSM 850	GSM	E	0320M	1-8.3	0.00	836.60	190	33.5	32.05	Right Tilt	0	0.051	1.396	0.071	0.349	0.218		35.7	31.2	31.2
Head	GSM 850	GSM	E	0320M	1-8.3	0.04	836.60	190	33.5	32.05	Left Cheek	0	0.145	1.396	0.202	0.992	0.620	Plot	31.2		
Head	GSM 850	GSM	E	0320M	1-8.3	0.02	836.60	190	33.5	32.05	Left Tilt	0	0.094	1.396	0.131	0.643	0.402		33.1		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 12-4 | 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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	A+C	0337M	1-2.76	0.01	836.60	190	30.5	28.71	Back	5	0.480	1.510	0.725	0.978	0.611	Plot	27.4		
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	A+C	0337M	1-2.76	0.04	836.60	190	30.5	28.71	Front	5	0.168	1.510	0.254	0.342	0.214		32.0	27.4	
Hotspot	GPRS 850	GPRS 3 Tx Slots	A+C	0337M	1-2.76	-0.04	836.60	190	30.5	28.71	Bottom	10	0.131	1.510	0.198	0.267	0.167		33.1	27.4	27.4
Hotspot	GPRS 850	GPRS 3 Tx Slots	A+C	0337M	1-2.76	-0.02	836.60	190	30.5	28.71	Right	10	0.327	1.510	0.494	0.666	0.416		29.1		
Hotspot	GPRS 850	GPRS 3 Tx Slots	A+C	0337M	1-2.76	-0.21	836.60	190	30.5	28.71	Left	10	0.096	1.510	0.145	0.196	0.123		34.4		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body								
Spatial Peak													1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population													averaged over 1 gram								

Table 12-5

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EFS Limit [dBm]
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0320M	1-2.76	0.07	836.60	190	30.5	28.71	Back	5	0.198	1.510	0.299	0.403	0.252		31.3		
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0320M	1-2.76	0.08	836.60	190	30.5	28.71	Front	5	0.055	1.510	0.083	0.112	0.070		36.8	31.3	27.4
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0320M	1-2.76	-0.11	836.60	190	30.5	28.71	Bottom	10	0.036	1.510	0.054	0.073	0.046		38.7		
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0320M	1-2.76	-0.14	836.60	190	30.5	28.71	Right	10	0.064	1.510	0.097	0.130	0.081		36.2		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) FIVE MINUTE AVERAGE									

Table 12-6

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Piimit [dBm]	Overall Piimit [dBm]	EFS Piimit [dBm]
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	E	0320M	1-2.76	-0.12	836.60	190	30.5	28.88	Back	5	0.291	1.452	0.423	0.991	0.619		29.8		
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	E	0320M	1-2.76	-0.12	836.60	190	30.5	28.88	Front	5	0.070	1.452	0.102	0.238	0.149		35.9	29.8	29.8
Hotspot	GPRS 850	GPRS 3 Tx Slots	E	0320M	1-2.76	-0.17	836.60	190	30.5	28.88	Top	10	0.068	1.452	0.099	0.231	0.144		36.1		
Hotspot	GPRS 850	GPRS 3 Tx Slots	E	0320M	1-2.76	-0.11	836.60	190	30.5	28.88	Right	10	0.088	1.452	0.128	0.300	0.188		35.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body								
Spatial Peak													1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population													averaged over 1 gram								

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Table 12-7| 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	GPRS 850	GPRS 4 Tx Slots	A+C	0337M	1:2.076	-0.02	836.60	190	23.0	21.41	Back	0	0.487	1.442	0.717	0.717	0.789	0.493		21.2		
Body	GPRS 850	GPRS 4 Tx Slots	A+C	0337M	1:2.076	0.04	836.60	190	23.0	21.41	Top	0	0.041	1.442	0.059	0.059	0.065	0.041		32.1		
Body	GPRS 850	GPRS 4 Tx Slots	A+C	0337M	1:2.076	-0.04	836.60	190	23.0	21.41	Bottom	0	0.458	1.442	0.660	0.660	0.726	0.454		21.6		
Body	GPRS 850	GPRS 4 Tx Slots	A+C	0337M	1:2.076	0.06	824.20	128	23.0	21.26	Right	0	0.473	1.493	0.706	0.706	0.777	0.485		21.3		
Body	GPRS 850	GPRS 4 Tx Slots	A+C	0337M	1:2.076	0.01	836.60	190	23.0	21.41	Right	0	0.585	1.442	0.858	0.858	0.944	0.590	Plot	20.4		
Body	GPRS 850	GPRS 4 Tx Slots	A+C	0343M	1:2.076	0.01	848.80	251	23.0	21.33	Right	0	0.480	1.469	0.705	0.705	0.776	0.485		21.3		
Body	GPRS 850	GPRS 4 Tx Slots	A+C	0337M	1:2.076	0.05	836.60	190	23.0	21.41	Left	0	0.018	1.442	0.026	0.026	0.029	0.018		35.6		
ANSI/IEEE CS5.1.1992 - SAFETY LIMIT												Body 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak Uncontrolled Exposure/General Population																						

Table 12-8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	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	GPRS 850	GPRS 4 Tx Slots	E	0337M	1:2.076	-0.02	848.80	251	22.0	21.09	Back	0	0.231	1.233	0.285	0.285	0.314	0.156		24.2		
Body	GPRS 850	GPRS 4 Tx Slots	E	0337M	1:2.076	-0.09	848.80	251	22.0	21.09	Top	0	0.401	1.233	0.494	0.494	0.543	0.340		21.8		
Body	GPRS 850	GPRS 4 Tx Slots	E	0337M	1:2.076	0.03	848.80	251	22.0	21.09	Bottom	0	0.005	1.233	0.006	0.006	0.007	0.004		40.9		
Body	GPRS 850	GPRS 4 Tx Slots	E	0337M	1:2.076	0.01	848.80	251	22.0	21.09	Right	0	0.348	1.233	0.429	0.429	0.472	0.295		22.4		
Body	GPRS 850	GPRS 4 Tx Slots	E	0337M	1:2.076	-0.21	848.80	251	22.0	21.09	Left	0	0.012	1.233	0.015	0.015	0.017	0.010		37.1		
ANSI/IEEE CS5.1.1992 - SAFETY LIMIT												Body 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak Uncontrolled Exposure/General Population																						

12.2 GSM 1900 Standalone SAR

Table 12-9| 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]
Head	GSM 1900	GSM	B	0337M	1:8.3	-0.20	1850.20	512	31.0	29.83	Right Cheek	0	0.032	1.309	0.042	0.290	0.181		35.5			
Head	GSM 1900	GSM	B	0337M	1:8.3	-0.10	1850.20	512	31.0	29.83	Right Tilt	0	0.026	1.309	0.034	0.235	0.147		36.4			
Head	GSM 1900	GSM	B	0337M	1:8.3	0.02	1850.20	512	31.0	29.83	Left Cheek	0	0.065	1.065	0.408	0.408	0.428	0.295	Plot	34.0		
Head	GSM 1900	GSM	B	0337M	1:8.3	0.04	1850.20	512	31.0	29.83	Left Tilt	0	0.029	1.309	0.038	0.263	0.164		36.0			
ANSI/IEEE CS5.1.1992 - SAFETY LIMIT												Head 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																						

Table 12-10| 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]
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	B	0337M	1:2.076	0.02	1850.20	512	22.5	21.22	Back	5	0.715	1.343	0.960	0.960	1.056	0.660		19.4		
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	B	0337M	1:2.076	0.15	1880.00	661	22.5	20.75	Back	5	0.748	1.406	1.121	1.121	1.234	0.771	Plot	18.8		
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	B	0337M	1:2.076	0.01	1909.80	810	22.5	20.89	Back	5	0.593	1.452	0.861	0.861	0.947	0.592		19.9		
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	B	0320M	1:2.076	0.09	1850.20	512	22.5	21.22	Front	5	0.182	1.343	0.244	0.244	0.268	0.168		25.4		
Hotspot	GPRS 1900	GPRS 4 Tx Slots	B	0320M	1:2.076	-0.09	1850.20	512	22.5	21.22	Bottom	10	0.368	1.343	0.492	0.492	0.541	0.339		22.4		
Hotspot	GPRS 1900	GPRS 4 Tx Slots	B	0320M	1:2.076	-0.01	1850.20	512	22.5	21.22	Left	10	0.038	1.343	0.051	0.051	0.056	0.035		32.2		
ANSI/IEEE CS5.1.1992 - SAFETY LIMIT												Body 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak Uncontrolled Exposure/General Population																						

Table 12-11| 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]
Body	GPRS 1900	GPRS 4 Tx Slots	B	0320M	1:2.076	0.09	1850.20	512	16.0	14.68	Back	0	0.667	1.355	0.904	0.904	0.994	0.622		13.2		
Body	GPRS 1900	GPRS 4 Tx Slots	B	0320M	1:2.076	0.02	1880.00	661	16.0	14.58	Back	0	0.511	1.387	0.736	0.736	0.810	0.506		14.1		
Body	GPRS 1900	GPRS 4 Tx Slots	B	0320M	1:2.076	0.02	1909.80	810	16.0	14.37	Back	0	0.528	1.455	0.768	0.768	0.845	0.528		13.9		
Body	GPRS 1900	GPRS 4 Tx Slots	B	0320M	1:2.076	0.06	1850.20	512	16.0	14.68	Top	0	0.001	1.355	0.001	0.001	0.001	0.001		41.4		
Body	GPRS 1900	GPRS 4 Tx Slots	B	0320M	1:2.076	-0.07	1850.20	512	16.0	14.68	Bottom	0	0.823	1.355	1.115	1.115	1.227	0.707	Plot	12.8		
Body	GPRS 1900	GPRS 4 Tx Slots	B	0320M	1:2.076	-0.01	1880.00	661	16.0	14.58	Bottom	0	0.680	1.387	0.943	0.943	1.037	0.648		13.0		
Body	GPRS 1900	GPRS 4 Tx Slots	B	0320M	1:2.076	0.01	1909.80	810	16.0	14.37	Bottom	0	0.663	1.455	0.965	0.965	1.062	0.663		12.9		
Body	GPRS 1900	GPRS 4 Tx Slots	B	0320M	1:2.076	0.02	1850.20	512	16.0	14.68	Right	0	0.045	1.355	0.061	0.061	0.067	0.042		24.9		
Body	GPRS 1900	GPRS 4 Tx Slots	B	0320M	1:2.076	0.08	1850.20	512	16.0	14.68	Left	0	0.011	1.355	0.015	0.015	0.017	0.010		31.0		
ANSI/IEEE CS5.1.1992 - SAFETY LIMIT												Body 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak Uncontrolled Exposure/General Population																						

12.3 UMTS 850 Standalone SAR

Table 12-12

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	UMTS 850	RMC	A+C	0343M	1:1	0.02	826.40	4132	25.3	24.36	Right Cheek	0	0	0.130	1.242	0.161	0.534	0.334		33.2		
Head	UMTS 850	RMC	A+C	0343M	1:1	-0.04	826.40	4132	25.3	24.36	Right Tilt	0	0	0.012	1.242	0.088	0.292	0.183		35.6		
Head	UMTS 850	RMC	A+C	0343M	1:1	-0.07	826.40	4132	25.3	24.36	Left Cheek	0	0	0.026	1.242	0.119	0.395	0.247		34.5		
Head	UMTS 850	RMC	A+C	0343M	1:1	0.00	826.40	4132	25.3	24.36	Left Tilt	0	0	0.064	1.242	0.079	0.263	0.164		36.2		
ANSI/IEEE CS5.1.1992 - SAFETY LIMIT												Head 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak Uncontrolled Exposure/General Population																						

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Table 12-13

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	UMTS 850	RMC	A	0343M	1:1	0.01	826.40	4132	25.3	24.36	Right Cheek	0	9	0.064	1.242	0.079	0.263	0.164		36.2	36.0	30.5
Head	UMTS 850	RMC	A	0343M	1:1	0.03	826.40	4132	25.3	24.36	Right Tip	0	100	0.043	1.242	0.053	0.177	0.111		38.0		
Head	UMTS 850	RMC	A	0343M	1:1	0.01	826.40	4132	25.3	24.36	Left Cheek	0	9	0.067	1.242	0.083	0.275	0.172		36.0		
Head	UMTS 850	RMC	A	0343M	1:1	0.07	826.40	4132	25.3	24.36	Left Tip	0	9	0.041	1.242	0.051	0.169	0.106		38.2		
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 12-14| 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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	UMTS 850	RMC	E	0343M	1:1	0.01	826.40	4132	25.3	23.87	Right Cheek	0	0.147	1.390	0.204	0.502	0.314		32.1		
Head	UMTS 850	RMC	E	0343M	1:1	0.00	826.40	4132	25.3	23.87	Right Tip	0	0.116	1.390	0.161	0.396	0.248		33.2	29.2	29.2
Head	UMTS 850	RMC	E	0343M	1:1	0.06	826.40	4132	25.3	23.87	Left Cheek	0	0.291	1.390	0.404	0.993	0.621	Plot	29.2		
Head	UMTS 850	RMC	E	0343M	1:1	0.08	826.40	4132	25.3	23.87	Left Tip	0	0.239	1.390	0.332	0.815	0.509		30.0		
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 12-15| 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]	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+C	0056M	1:1	-0.20	826.40	4132	25.3	24.36	Back	5	9	0.794	1.242	0.986	0.986	0.616	Plot	25.3		
Body-worn/Hotspot	UMTS 850	RMC	A+C	0056M	1:1	-0.20	836.60	4183	25.3	24.17	Back	5	0	0.741	1.297	0.961	0.961	0.601			25.4	
Body-worn/Hotspot	UMTS 850	RMC	A+C	0056M	1:1	-0.16	846.60	4233	25.3	24.03	Back	5	0	0.652	1.340	0.874	0.874	0.546			25.8	
Body-worn/Hotspot	UMTS 850	RMC	A+C	0343M	1:1	-0.06	826.40	4132	25.3	24.36	Front	5	0	0.212	1.242	0.263	0.263	0.164			31.0	25.3
Hotspot	UMTS 850	RMC	A+C	0343M	1:1	-0.04	826.40	4132	25.3	24.36	Bottom	10	0	0.143	1.242	0.178	0.178	0.111			32.8	
Hotspot	UMTS 850	RMC	A+C	0343M	1:1	-0.04	826.40	4132	25.3	24.36	Right	10	0	0.154	1.242	0.440	0.440	0.275			28.8	
Hotspot	UMTS 850	RMC	A+C	0343M	1:1	-0.01	826.40	4132	25.3	24.36	Left	10	0	0.108	1.242	0.134	0.134	0.084			34.0	
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 12-16

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 (SAR Ratio)	Plot #	Plimit (dBm)	Overall Plimit (dBm)	EPS Plimit (dBm)
Body-worn/hotspot	UMTS 850	RMC	A	0311M	1:1	-0.07	826.40	4132	25.3	24.36	Back	5	64	0.550	1.242	0.683	0.683	0.427		26.9		
Body-worn/hotspot	UMTS 850	RMC	A	0343M	1:1	-0.07	826.40	4132	25.3	24.36	Front	5	9	0.152	1.242	0.189	0.189	0.118		32.5	26.9	25.3
Hotspot	UMTS 850	RMC	A	0343M	1:1	-0.04	826.40	4132	25.3	24.36	Bottom	10	100	0.093	1.242	0.116	0.116	0.073		34.6		
Hotspot	UMTS 850	RMC	A	0343M	1:1	-0.01	826.40	4132	25.3	24.36	Right	10	100	0.145	1.242	0.180	0.180	0.113		32.7		
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 12-17

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	UMTS 850	RMC	E	0343M	1:1	-0.05	826.40	4132	25.3	23.87	Back	5	0.451	1.390	0.627	0.994	0.621		27.3		
Body-worn/Hotspot	UMTS 850	RMC	E	0343M	1:1	0.04	826.40	4132	25.3	23.87	Front	5	0.123	1.390	0.171	0.271	0.169		32.9	27.3	27.3
Hotspot	UMTS 850	RMC	E	0343M	1:1	0.06	826.40	4132	25.3	23.87	Top	10	0.111	1.390	0.154	0.245	0.153		33.4		
Hotspot	UMTS 850	RMC	E	0343M	1:1	-0.01	826.40	4132	25.3	23.87	Right	10	0.078	1.390	0.108	0.172	0.108		34.5		
ANSI/IEEE CS9.1.1992 - SAFETY LIMIT																					
Spatial Peak												Body									
Uncontrolled Exposure/General Population												1.6 W/kg (mW/g)									
												averaged over 1 gram									

Table 12-18

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	0343M	1:1	-0.05	826.40	4132	19.0	17.88	Back	0	0	0.698	1.294	0.903	0.903	0.993	0.620			19.4	
Body	UMTS 850	RMC	A+C	0343M	1:1	0.04	836.60	4183	19.0	17.65	Back	0	45	0.727	1.365	0.992	0.992	1.091	0.682			19.0	
Body	UMTS 850	RMC	A+C	0343M	1:1	0.00	846.60	4233	19.0	17.55	Back	0	45	0.711	1.396	1.076	1.076	1.184	0.740			18.6	
Body	UMTS 850	RMC	A+C	0343M	1:1	-0.03	826.40	4132	19.0	17.88	Top	0	9	0.022	1.294	0.028	0.028	0.031	0.020			34.4	
Body	UMTS 850	RMC	A+C	0343M	1:1	-0.10	826.40	4132	19.0	17.88	Bottom	0	9	0.461	1.294	0.597	0.597	0.657	0.410			21.2	18.6
Body	UMTS 850	RMC	A+C	0343M	1:1	0.01	826.40	4132	19.0	17.88	Right	0	108	0.776	1.294	1.004	1.004	1.104	0.691			18.9	
Body	UMTS 850	RMC	A+C	0343M	1:1	0.13	836.60	4183	19.0	17.65	Right	0	108	0.780	1.365	1.065	1.065	1.172	0.733			18.7	
Body	UMTS 850	RMC	A+C	0343M	1:1	0.01	846.60	4233	19.0	17.55	Right	0	108	0.766	1.396	1.069	1.069	1.176	0.735			18.7	
Body	UMTS 850	RMC	A+C	0343M	1:1	-0.05	826.40	4132	19.0	17.88	Left	0	108	0.026	1.294	0.034	0.034	0.037	0.023			33.7	
ANSI/IEEE CS6.1-1992 - SAFETY LIMIT														Body									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

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Table 12-19| Plot A9

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	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	UMTS 850	RMC	E	0343M	1:1	0.02	826.40	4132	20.0	19.66	Back	0	0.749	1.081	0.810	0.810	0.891	0.557		20.9		
Body	UMTS 850	RMC	E	0343M	1:1	0.02	836.60	4183	20.0	19.46	Back	0	0.762	1.132	0.863	0.863	0.949	0.593		20.6		
Body	UMTS 850	RMC	E	0343M	1:1	0.04	846.60	4233	20.0	19.41	Back	0	0.727	1.146	0.833	0.833	0.916	0.573		20.7		
Body	UMTS 850	RMC	E	0832M	1:1	-0.07	826.40	4232	20.0	19.66	Top	0	0.889	1.081	0.961	0.961	1.057	0.661		20.1		
Body	UMTS 850	RMC	E	0832M	1:1	0.03	836.60	4383	20.0	19.46	Top	0	1.070	1.232	1.211	1.211	1.332	0.833	Plot	19.1		
Body	UMTS 850	RMC	E	0832M	1:1	0.08	846.60	4233	20.0	19.41	Top	0	0.656	1.146	0.752	0.752	0.827	0.517		21.2	19.1	19.0
Body	UMTS 850	RMC	E	0343M	1:1	0.01	826.40	4132	20.0	19.66	Bottom	0	0.013	1.081	0.014	0.014	0.015	0.020		38.5		
Body	UMTS 850	RMC	E	0832M	1:1	-0.01	826.40	4132	20.0	19.66	Right	0	0.932	1.081	1.007	1.007	1.108	0.692		19.9		
Body	UMTS 850	RMC	E	0832M	1:1	0.04	836.60	4383	20.0	19.46	Right	0	0.922	1.132	1.044	1.044	1.148	0.718		19.8		
Body	UMTS 850	RMC	E	0832M	1:1	0.07	846.60	4233	20.0	19.41	Right	0	0.885	1.146	1.014	1.014	1.115	0.697		19.9		
Body	UMTS 850	RMC	E	0343M	1:1	0.00	826.40	4132	20.0	19.66	Left	0	0.028	1.081	0.030	0.030	0.033	0.021		35.1		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT												Body										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

12.4 UMTS 1750 Standalone SAR

Table 12-20| Plot A10

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 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 #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Head	UMTS 1750	RMC	G	0055M	1:1	0.01	1732.40	1312	19.0	17.70	Right Cheek	0	0.544	1.349	0.734	0.734	0.807	0.505		20.3		
Head	UMTS 1750	RMC	G	0055M	1:1	0.01	1732.40	1312	19.0	17.70	Right Tilt	0	0.742	1.349	1.001	1.001	1.101	0.689		18.9		
Head	UMTS 1750	RMC	G	0055M	1:1	0.00	1732.40	1412	19.0	17.62	Right Tilt	0	0.807	1.374	1.109	1.109	1.220	0.762		18.5		
Head	UMTS 1750	RMC	G	0055M	1:1	-0.02	1752.60	1513	19.0	17.50	Right Tilt	0	0.802	1.413	1.133	1.133	1.246	0.779		18.4		
Head	UMTS 1750	RMC	G	0055M	1:1	0.05	1732.40	1312	19.0	17.70	Left Cheek	0	0.613	1.349	0.827	0.827	0.910	0.569		19.8		
Head	UMTS 1750	RMC	G	0055M	1:1	0.02	1732.40	1412	19.0	17.62	Left Cheek	0	0.677	1.374	0.930	0.930	1.023	0.629		19.3		
Head	UMTS 1750	RMC	G	0055M	1:1	-0.02	1752.60	1513	19.0	17.50	Left Cheek	0	0.666	1.413	0.941	0.941	1.035	0.647		19.2		
Head	UMTS 1750	RMC	G	0055M	1:1	0.05	1732.40	1312	19.0	17.70	Left Tilt	0	0.751	1.349	1.013	1.013	1.114	0.696		18.9		
Head	UMTS 1750	RMC	G	0055M	1:1	0.03	1732.40	1412	19.0	17.62	Left Tilt	0	0.835	1.374	1.147	1.147	1.262	0.789		18.4		
Head	UMTS 1750	RMC	G	0055M	1:1	0.04	1752.60	1513	19.0	17.50	Left Tilt	0	0.855	1.413	1.208	1.208	1.329	0.831	Plot	18.1		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT													Head									
Spatial Peak													1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population													averaged over 1 gram									

Table 12-21| Plot A11

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	Max Allowed Power (dBm)	Conducted Power (dBm)	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR (W/kg)	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	UMTS 1750	RMC	G	0055M	1:1	-0.04	1732.40	1312	17.0	15.69	Back	5	0.802	1.352	1.084	1.084	1.192	0.746		16.6		
Body-worn/Hotspot	UMTS 1750	RMC	G	0055M	1:1	-0.01	1732.40	1412	17.0	15.58	Back	5	0.851	1.387	1.185	1.180	1.298	0.812	Plot	16.2		
Body-worn/Hotspot	UMTS 1750	RMC	G	0055M	1:1	0.00	1752.60	1513	17.0	15.48	Back	5	0.842	1.419	1.195	1.195	1.315	0.822		16.2		
Body-worn/Hotspot	UMTS 1750	RMC	G	0055M	1:1	-0.02	1732.40	1312	17.0	15.69	Front	5	0.247	1.352	0.334	0.334	0.367	0.230		21.7	16.2	16.0
Hotspot	UMTS 1750	RMC	G	0055M	1:1	0.01	1732.40	1312	17.0	15.69	Top	10	0.440	1.352	0.460	0.460	0.506	0.317		20.3		
Hotspot	UMTS 1750	RMC	G	0055M	1:1	0.05	1732.40	1312	17.0	15.69	Right	30	0.042	1.352	0.057	0.057	0.063	0.040		29.4		
Hotspot	UMTS 1750	RMC	G	0055M	1:1	0.04	1712.40	1312	17.0	15.69	Left	30	0.026	1.352	0.035	0.035	0.039	0.024		31.5		
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 12-22

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 #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Body	UMTS 1750	RMC	G	0055M	1:1	0.03	1732.40	1412	22.0	20.88	Back	10	0.260	1.294	0.236	0.236	0.270	0.221		26.7		
Body	UMTS 1750	RMC	G	0055M	1:1	0.02	1732.40	1412	22.0	20.88	Top	10	0.164	1.294	0.212	0.212	0.233	0.156		28.7		
Body	UMTS 1750	RMC	G	0055M	1:1	0.09	1732.40	1412	22.0	20.88	Bottom	0	0.009	1.294	0.012	0.012	0.013	0.009		41.3	26.7	21.0
Body	UMTS 1750	RMC	G	0055M	1:1	-0.09	1732.40	1412	22.0	20.88	Right	0	0.172	1.294	0.223	0.223	0.245	0.153		28.5		
Body	UMTS 1750	RMC	G	0055M	1:1	0.01	1732.40	1412	22.0	20.88	Left	0	0.036	1.294	0.047	0.047	0.052	0.032		35.3		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT													Body									
Spatial Peak													1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population													averaged over 1 gram									

Table 12-23| 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]	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 #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Body	UMTS 1750	RMC	G	0055M	1:1	0.01	1732.40	1412	12.0	11.04	Back	0	0.606	1.247	0.756	0.756	0.832	0.520		13.2		
Body	UMTS 1750	RMC	G	0055M	1:1	0.01	1732.40	1312	12.0	10.92	Top	0	0.501	1.282	0.642	0.642	0.706	0.441		13.9		
Body	UMTS 1750	RMC	G	0055M	1:1	-0.02	1732.40	1412	12.0	11.04	Top	0	0.762	1.247	0.950	0.950	1.045	0.633	Plot	12.2	11.0	
Body	UMTS 1750	RMC	G	0055M	1:1	0.00	1752.60	1513	12.0	10.98	Top	0	0.652	1.265	0.825	0.825	0.908	0.568		12.8		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT												Body										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

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12.5 UMTS 1900 Standalone SAR

Table 12-24| Plot A13

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	UMTS 1900	RMC	B	0311M	1:1	0.08	1852.40	9262	24.8	23.69	Right Cheek	0	0.096	1.291	0.124	0.420	0.263		33.8		
Head	UMTS 1900	RMC	B	0311M	1:1	0.07	1852.40	9262	24.8	23.69	Right Tilt	0	0.051	1.291	0.066	0.223	0.139		36.6		
Head	UMTS 1900	RMC	B	0311M	1:1	0.09	1852.40	9262	24.8	23.69	Left Cheek	0	0.103	1.291	0.133	0.451	0.282	Plot	33.5		
Head	UMTS 1900	RMC	B	0311M	1:1	0.06	1852.40	9262	24.8	23.69	Left Tilt	0	0.059	1.291	0.076	0.258	0.161		35.9		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 12-25| Plot A14

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 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	UMTS 1900	RMC	B	0337M	1:1	0.00	1852.40	9262	19.0	17.76	Back	5	0.812	1.330	1.080	1.080	1.188	0.743		18.6		
Body-worn/Hotspot	UMTS 1900	RMC	B	0337M	1:1	0.01	1880.00	9400	19.0	17.60	Back	5	0.807	1.380	1.114	1.114	1.225	0.766		18.5		
Body-worn/Hotspot	UMTS 1900	RMC	B	0337M	1:1	0.18	1907.60	9538	19.0	17.75	Back	5	0.885	1.334	1.181	1.181	1.299	0.812	Plot	18.2		
Body-worn/Hotspot	UMTS 1900	RMC	B	0311M	1:1	0.02	1852.40	9262	19.0	17.76	Front	5	0.456	1.330	0.606	0.606	0.667	0.417		21.1		
Hotspot	UMTS 1900	RMC	B	0311M	1:1	-0.01	1852.40	9262	19.0	17.76	Bottom	10	0.521	1.330	0.693	0.693	0.762	0.476		20.5		
Hotspot	UMTS 1900	RMC	B	0311M	1:1	0.00	1852.40	9262	19.0	17.76	Left	10	0.070	1.330	0.093	0.093	0.102	0.064		29.3		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 12-26| Plot A15

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 #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body	UMTS 1900	RMC	B	0311M	1:1	0.01	1852.40	9262	13.0	11.94	Back	0	0.904	1.276	1.154	1.154	1.269	0.793	Plot	12.3		
Body	UMTS 1900	RMC	B	0311M	1:1	-0.01	1880.00	9400	13.0	11.80	Back	0	0.871	1.318	1.148	1.148	1.263	0.780		12.3		
Body	UMTS 1900	RMC	B	0311M	1:1	0.00	1907.60	9538	13.0	11.71	Back	0	0.852	1.346	1.147	1.147	1.262	0.789		12.4		
Body	UMTS 1900	RMC	B	0311M	1:1	-0.07	1852.40	9262	13.0	11.94	Top	0	0.008	1.276	0.010	0.010	0.011	0.007		32.9		
Body	UMTS 1900	RMC	B	0311M	1:1	0.02	1852.40	9262	13.0	11.94	Bottom	0	0.810	1.276	1.034	1.034	1.137	0.711		12.8		
Body	UMTS 1900	RMC	B	0311M	1:1	0.01	1880.00	9400	13.0	11.80	Bottom	0	0.818	1.318	1.078	1.078	1.186	0.741		12.6		
Body	UMTS 1900	RMC	B	0311M	1:1	0.00	1907.60	9538	13.0	11.71	Bottom	0	0.797	1.346	1.073	1.073	1.180	0.738		12.6		
Body	UMTS 1900	RMC	B	0311M	1:1	0.18	1852.40	9262	13.0	11.94	Right	0	0.024	1.276	0.031	0.031	0.034	0.021		28.1		
Body	UMTS 1900	RMC	B	0311M	1:1	0.10	1852.40	9262	13.0	11.94	Left	0	0.012	1.276	0.015	0.015	0.017	0.010		31.1		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram											

12.6 LTE Band 12 Standalone SAR

Table 12-27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	LTE Band 12	10	QPSK	A/C	0361M	1:1	0.05	707.50	23095	0.0	25.2	24.06	1	48	Right Cheek	0	45	0.126	1.300	0.164	0.568	0.355		33.0		
Head	LTE Band 12	10	QPSK	A/C	0361M	1:1	0.16	707.50	23095	1.0	24.2	23.07	25	25	Right Cheek	0	45	0.102	1.297	0.132	0.578	0.361		32.9		
Head	LTE Band 12	10	QPSK	A/C	0361M	1:1	-0.10	707.50	23095	0.0	25.2	24.06	1	48	Right Tilt	0	11	0.076	1.300	0.099	0.343	0.214		35.2		
Head	LTE Band 12	10	QPSK	A/C	0361M	1:1	0.09	707.50	23095	1.0	24.2	23.07	25	25	Right Tilt	0	11	0.057	1.297	0.074	0.323	0.202		35.5		
Head	LTE Band 12	10	QPSK	A/C	0361M	1:1	0.16	707.50	23095	0.0	25.2	24.06	1	48	Left Cheek	0	11	0.069	1.300	0.095	0.311	0.194		35.6		32.9
Head	LTE Band 12	10	QPSK	A/C	0361M	1:1	-0.04	707.50	23095	1.0	24.2	23.07	25	25	Left Cheek	0	11	0.064	1.297	0.081	0.302	0.208		35.0		
Head	LTE Band 12	10	QPSK	A/C	0361M	1:1	-0.01	707.50	23095	0.0	25.2	24.06	1	48	Left Tilt	0	9	0.053	1.300	0.069	0.289	0.149		36.8		
Head	LTE Band 12	10	QPSK	A/C	0361M	1:1	0.13	707.50	23095	1.0	24.2	23.07	25	25	Left Tilt	0	9	0.037	1.297	0.016	0.068	0.043		42.2		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT											Head															
Spatial Peak											1.6 W/kg (mW/g)															
Uncontrolled Exposure/General Population											averaged over 1 gram															

Table 12-28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	LTE Band 12	10	QPSK	A	0361M	1:1	-0.13	707.50	23095	0.0	25.2	24.06	1	48	Right Cheek	0	9	0.077	1.300	0.100	0.347	0.217		35.1		
	LTE Band 12	10	QPSK	A	0361M	1:1	0.09	707.50	23095	1.0	24.2	23.07	25	25	Right Cheek	0	9	0.057	1.297	0.074	0.323	0.202		35.5		
	LTE Band 12	10	QPSK	A	0361M	1:1	-0.07	707.50	23095	0.0	25.2	24.06	1	48	Right Tilt	0	9	0.051	1.300	0.066	0.330	0.144		36.9		
	LTE Band 12	10	QPSK	A	0361M	1:1	0.06	707.50	23095	1.0	24.2	23.07	25	25	Right Tilt	0	9	0.039	1.297	0.051	0.221	0.138		37.1		
	LTE Band 12	10	QPSK	A	0361M	1:1	0.03	707.50	23095	0.0	25.2	24.06	1	48	Left Cheek	0	103	0.051	1.300	0.066	0.309	0.144		36.9		
	LTE Band 12	10	QPSK	A	0361M	1:1	0.01	707.50	23095	1.0	24.2	23.07	25	25	Left Cheek	0	109	0.057	1.297	0.048	0.309	0.131		37.3		
	LTE Band 12	10	QPSK	A	0361M	1:1	-0.21	707.50	23095	0.0	25.2	24.06	1	48	Left Tilt	0	67	0.035	1.300	0.046	0.158	0.099		38.6		
	LTE Band 12	10	QPSK	A	0361M	1:1	-0.04	707.50	23095	1.0	24.2	23.07	25	25	Left Tilt	0	67	0.025	1.297	0.032	0.142	0.089		39.0		
	ANSI/IEEE CS1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram														

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Table 12-29| Plot A16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Head	LTE Band 12	10	QPSK	E	0363M	1:1	-0.05	707.50	23095	0.0	25.2	23.95	1	49	Right Cheek	0	0.188	1.334	0.184	0.331	0.332		32.5		
Head	LTE Band 12	10	QPSK	F	0363M	1:1	-0.02	707.50	23095	1.0	24.2	22.65	25	25	Right Cheek	0	0.132	1.334	0.149	0.342	0.339		32.4		
Head	LTE Band 12	10	QPSK	F	0363M	1:1	-0.06	707.50	23095	0.0	25.2	23.95	1	49	Right Tilt	0	0.171	1.334	0.165	0.465	0.291		33.1		
Head	LTE Band 12	10	QPSK	F	0363M	1:1	0.09	707.50	23095	1.0	24.2	22.95	25	25	Right Tilt	0	0.096	1.334	0.128	0.465	0.291		33.1		
Head	LTE Band 12	10	QPSK	F	0320M	1:1	0.12	707.50	23095	0.0	25.2	23.95	1	49	Left Cheek	0	0.258	1.334	0.344	0.992	0.620	Plot	29.8		
Head	LTE Band 12	10	QPSK	F	0320M	1:1	0.01	707.50	23095	1.0	24.2	22.95	25	25	Left Cheek	0	0.089	1.334	0.271	0.983	0.654		29.8		
Head	LTE Band 12	10	QPSK	F	0320M	1:1	-0.13	707.50	23095	0.0	25.2	23.95	1	49	Left Tilt	0	0.245	1.334	0.327	0.942	0.589		30.0		
Head	LTE Band 12	10	QPSK	F	0320M	1:1	0.03	707.50	23095	1.0	24.2	22.95	25	25	Left Tilt	0	0.082	1.334	0.258	0.930	0.581		30.1		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-30

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Body-worn/Hotspot	LTE Band 12	10	QPSK	A/C	0363M	1:1	-0.05	707.50	23095	0.0	25.2	24.06	1	49	Back	5	10	0.558	1.300	0.738	0.996	0.623		26.2		
Body-worn/Hotspot	LTE Band 12	10	QPSK	A/C	0363M	1:1	-0.10	707.50	23095	1.0	24.2	23.07	25	25	Back	5	10	0.453	1.297	0.588	0.998	0.624		26.5		
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0320M	1:1	-0.04	707.50	23095	0.0	25.2	24.06	1	49	Front	5	0	0.187	1.300	0.245	0.938	0.305		33.1		
Body-worn/Hotspot	LTE Band 12	10	QPSK	A/C	0363M	1:1	-0.03	707.50	23095	1.0	24.2	23.07	25	25	Front	5	0	0.151	1.297	0.196	0.931	0.298		31.2		
Hotspot	LTE Band 12	10	QPSK	A/C	0363M	1:1	-0.06	707.50	23095	0.0	25.2	24.06	1	49	Bottom	10	46	0.198	1.300	0.198	0.228	0.364		32.1	26.5	
Hotspot	LTE Band 12	10	QPSK	A/C	0363M	1:1	-0.04	707.50	23095	1.0	24.2	23.07	25	25	Bottom	10	46	0.119	1.297	0.154	0.262	0.164		28.3	26.5	
Hotspot	LTE Band 12	10	QPSK	A/C	0363M	1:1	0.08	707.50	23095	0.0	25.2	24.06	1	49	Right	10	10	0.372	1.300	0.484	0.652	0.408		32.1		
Hotspot	LTE Band 12	10	QPSK	A/C	0363M	1:1	-0.08	707.50	23095	1.0	24.2	23.07	25	25	Right	10	10	0.291	1.297	0.377	0.641	0.401		34.1		
Hotspot	LTE Band 12	10	QPSK	A/C	0363M	1:1	0.15	707.50	23095	0.0	25.2	24.06	1	49	Left	10	10	0.899	1.300	0.170	0.174	0.109		34.1		
Hotspot	LTE Band 12	10	QPSK	A/C	0314M	1:1	0.03	707.50	23095	1.0	24.2	23.07	25	25	Left	10	10	0.074	1.297	0.096	0.163	0.102		34.1		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																										

Table 12-31

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0363M	1:1	-0.03	707.50	23095	0.0	25.2	24.06	1	49	Back	5	0	0.349	1.300	0.454	0.612	0.381		28.6		
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0363M	1:1	-0.09	707.50	23095	1.0	24.2	23.07	25	25	Back	5	0	0.274	1.297	0.355	0.624	0.378		28.6		
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0320M	1:1	-0.04	707.50	23095	0.0	25.2	24.06	1	49	Front	5	0	0.117	1.300	0.152	0.295	0.178		33.1		
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0320M	1:1	0.03	707.50	23095	1.0	24.2	23.07	25	25	Front	5	0	0.091	1.297	0.108	0.200	0.125		33.4		
Hotspot	LTE Band 12	10	QPSK	A	0363M	1:1	-0.14	707.50	23095	0.0	25.2	24.06	1	49	Bottom	10	67	0.061	1.300	0.070	0.107	0.087		36.3		
Hotspot	LTE Band 12	10	QPSK	A	0320M	1:1	-0.03	707.50	23095	1.0	24.2	23.07	25	25	Bottom	10	67	0.047	1.297	0.061	0.104	0.065		36.3		
Hotspot	LTE Band 12	10	QPSK	A/C	0320M	1:1	0.10	707.50	23095	0.0	25.2	24.06	1	49	Right	10	0	0.151	1.300	0.196	0.265	0.166		32.2		
Hotspot	LTE Band 12	10	QPSK	A	0363M	1:1	0.02	707.50	23095	1.0	24.2	23.07	25	25	Right	10	0	0.115	1.297	0.149	0.253	0.158		32.4		
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 12-32| Plot A17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	0363M	1:1	-0.03	707.50	23095	0.0	25.2	23.95	1	49	Back	5	0.708	1.334	0.944	0.966	0.604	Plot	25.3		
Body-worn/Hotspot	LTE Band 12	10	QPSK	F	0363M	1:1	-0.02	707.50	23095	1.0	24.2	22.95	25	25	Back	5	0.571	1.334	0.762	0.981	0.613		25.4		
Body-worn/Hotspot	LTE Band 12	10	QPSK	A/C	0363M	1:1	-0.06	707.50	23095	0.0	25.2	22.87	50	0	Back	5	0.553	1.334	0.751	0.988	0.605		25.4		
Body-worn/Hotspot	LTE Band 12	10	QPSK	F	0320M	1:1	0.05	707.50	23095	0.0	25.2	23.95	1	49	Front	5	0.147	1.334	0.196	0.201	0.126		32.2		
Body-worn/Hotspot	LTE Band 12	10	QPSK	F	0320M	1:1	-0.02	707.50	23095	1.0	24.2	22.95	25	25	Front	5	0.113	1.334	0.151	0.194	0.121		32.4		
Hotspot	LTE Band 12	10	QPSK	F	0320M	1:1	-0.17	707.50	23095	0.0	25.2	23.95	1	49	Top	10	0.208	1.334	0.267	0.273	0.171		30.9	25.3	
Hotspot	LTE Band 12	10	QPSK	F	0320M	1:1	-0.14	707.50	23095	1.0	24.2	22.95	25	25	Top	10	0.151	1.334	0.201	0.259	0.162		31.1		
Hotspot	LTE Band 12	10	QPSK	F	0363M	1:1	-0.06	707.50	23095	0.0	25.2	23.95	1	49	Right	10	0.126	1.334	0.150	0.220	0.162		36.1		
Hotspot	LTE Band 12	10	QPSK	F	0320M	1:1	0.01	707.50	23095	1.0	24.2	22.95	25	25	Right	10	0.088	1.334	0.144	0.443	0.277		28.8		
ANSI/CIS CR-1 1992 - SAFETY LIMIT																	Body								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

Table 12-33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi-Tx Factor [W/kg]	Exposure Ratio with Multi-Tx Factor [g/kg]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Body	LTE Band 12	10	QPSK	A/C	0319M	1:1	-0.02	707.50	23095	0.0	19.5	18.17	1	25	Back	0	10	0.820	1.239	1.016	1.016	1.118	0.09	19.4			
Body	LTE Band 12	10	QPSK	A/C	0319M	1:1	-0.07	707.50	23095	0.0	19.5	18.14	25	12	Back	0	10	0.867	1.247	1.006	1.006	1.107	0.09	19.4			
Body	LTE Band 12	10	QPSK	A/C	0319M	1:1	0.03	707.50	23095	0.0	19.5	18.49	50	0	Back	0	10	0.794	1.265	1.004	1.004	1.104	0.09	19.4			
Body	LTE Band 12	10	QPSK	A/C	0319M	1:1	-0.05	707.50	23095	0.0	19.5	18.17	1	25	Top	0	22	0.010	1.239	0.012	0.012	0.011	0.009	18.5			
Body	LTE Band 12	10	QPSK	A/C	0319M	1:1	0.08	707.50	23095	0.0	19.5	18.14	25	12	Top	0	22	0.010	1.247	0.012	0.012	0.011	0.009	18.5			
Body	LTE Band 12	10	QPSK	A/C	0319M	1:1	-0.05	707.50	23095	0.0	19.5	18.17	1	25	Bottom	0	10	0.849	1.239	0.792	0.792	0.871	0.05	20.5			
Body	LTE Band 12	10	QPSK	A/C	0319M	1:1	-0.06	707.50	23095	0.0	19.5	18.14	25	12	Bottom	0	10	0.827	1.247	0.782	0.782	0.860	0.05	20.5		19.1	
Body	LTE Band 12	10	QPSK	A/C	0319M	1:1	-0.03	707.50	23095	0.0	19.5	18.49	50	0	Bottom	0	10	0.827	1.265	0.793	0.793	0.872	0.05	20.5		18.5	
Body	LTE Band 12	10	QPSK	A/C	0319M	1:1	-0.07	707.50	23095	0.0	19.5	18.17	1	25	Right	0	108	0.866	1.239	1.071	1.071	1.180	0.08	19.8			
Body	LTE Band 12	10	QPSK	A/C	0319M	1:1	-0.03	707.50	23095	0.0	19.5	18.14	25	12	Right	0	108	0.839	1.247	1.045	1.045	1.150	0.08	19.8			
Body	LTE Band 12	10	QPSK	A/C	0319M	1:1	-0.07	707.50	23095	0.0	19.5	18.17	1	25	Left	0	108	0.860	1.247	1.071	1.071	1.180	0.08	19.8			
Body	LTE Band 12	10	QPSK	A/C	0319M	1:1	-0.04	707.50	23095	0.0	19.5	18.17	1	25	Left	0	22	0.010	1.239	0.022	0.022	0.024	0.015	16.0			
Body	LTE Band 12	10	QPSK	A/C	0319M	1:1	0.08	707.50	23095	0.0	19.5	18.14	25	12	Left	0	22	0.017	1.247	0.021	0.021	0.023	0.014	16.2			
ACSI/IEC62311-1202 - SAFETY Limit																		1.6 W/kg (mW/kg)									
Uncontrolled Exposure (General Population)																		generated over 1.0 sec									



12.7 LTE Band 13 Standalone SAR

Table 12-35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.06	782.00	23230	0.0	25.5	24.48	1	0	Right Cheek	0	108	0.039	1.265	0.139	0.482	0.301	34.0			
Head	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.04	782.00	23230	1.0	24.5	24.48	25	0	Right Cheek	0	63	0.055	1.265	0.118	0.323	0.321	33.7			
Head	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.06	782.00	23230	0.0	25.5	24.48	1	0	Right TIR	0	0	0.039	1.265	0.092	0.339	0.400	35.8			
Head	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.07	782.00	23230	1.0	24.5	24.48	25	0	Right TIR	0	0	0.062	1.265	0.078	0.340	0.324	35.5			
Head	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.06	782.00	23230	0.0	25.5	24.48	1	0	Left Cheek	0	0	0.055	1.265	0.095	0.329	0.308	35.7			
Head	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.05	782.00	23230	1.0	24.5	24.48	25	0	Left Cheek	0	0	0.059	1.265	0.075	0.326	0.304	35.7			
Head	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.02	782.00	23230	0.0	25.5	24.48	1	0	Left TIR	0	0	0.031	1.265	0.014	0.308	0.300	44.0			
Head	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.03	782.00	23230	1.0	24.5	24.48	25	0	Left TIR	0	0	0.033	1.265	0.014	0.301	0.308	43.0			
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 13	10	QPSK	A	0361M	1:1	0.09	782.00	23230	0.0	25.5	24.48	1	0	Right Cheek	0	63	0.078	1.265	0.099	0.342	0.314	35.5			
Head	LTE Band 13	10	QPSK	A	0361M	1:1	-0.04	782.00	23230	1.0	24.5	24.48	25	0	Right Cheek	0	63	0.046	1.265	0.080	0.348	0.318	36.4			
Head	LTE Band 13	10	QPSK	A	0361M	1:1	-0.03	782.00	23230	0.0	25.5	24.48	1	0	Right TIR	0	63	0.066	1.265	0.083	0.389	0.381	36.2			
Head	LTE Band 13	10	QPSK	A	0361M	1:1	-0.04	782.00	23230	1.0	24.5	24.48	25	0	Right TIR	0	63	0.046	1.265	0.080	0.389	0.381	36.2			
Head	LTE Band 13	10	QPSK	A	0361M	1:1	-0.10	782.00	23230	0.0	25.5	24.48	1	0	Left Cheek	0	63	0.057	1.265	0.072	0.350	0.356	36.9			
Head	LTE Band 13	10	QPSK	A	0361M	1:1	-0.07	782.00	23230	1.0	24.5	24.48	25	0	Left Cheek	0	63	0.043	1.265	0.054	0.317	0.348	37.1			
Head	LTE Band 13	10	QPSK	A	0361M	1:1	-0.02	782.00	23230	0.0	25.5	24.48	1	0	Left TIR	0	63	0.047	1.265	0.031	0.384	0.311	38.2			
Head	LTE Band 13	10	QPSK	A	0361M	1:1	-0.07	782.00	23230	1.0	24.5	24.48	25	0	Left TIR	0	63	0.032	1.265	0.040	0.377	0.311	38.4			
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-37) Plot A19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 13	10	QPSK	E	0363M	1:1	0.08	782.00	23230	0.0	25.5	24.77	1	0	Right Cheek	0	0.240	1.183	0.284	0.461	0.208		30.9		
Head	LTE Band 13	10	QPSK	E	0363M	1:1	-0.01	782.00	23230	1.0	24.5	24.77	25	0	Right Cheek	0	0.100	1.183	0.228	0.465	0.201		30.9		
Head	LTE Band 13	10	QPSK	E	0363M	1:1	0.03	782.00	23230	0.0	25.5	24.77	1	0	Right TIR	0	0.196	1.183	0.332	0.376	0.235		31.8		
Head	LTE Band 13	10	QPSK	E	0363M	1:1	-0.13	782.00	23230	1.0	24.5	24.77	25	0	Right TIR	0	0.185	1.183	0.377	0.377	0.236		31.8		
Head	LTE Band 13	10	QPSK	E	0320M	1:1	-0.09	782.00	23230	0.0	25.5	24.77	1	0	Left Cheek	0	0.020	1.183	0.097	0.369	0.606	Plot	27.6		
Head	LTE Band 13	10	QPSK	E	0320M	1:1	0.04	782.00	23230	1.0	24.5	23.31	25	0	Left Cheek	0	0.043	1.189	0.483	0.987	0.827		27.6	27.6	
Head	LTE Band 13	10	QPSK	E	0320M	1:1	-0.08	782.00	23230	0.0	25.5	24.77	1	0	Left TIR	0	0.086	1.183	0.457	0.743	0.463		28.9		
Head	LTE Band 13	10	QPSK	E	0320M	1:1	0.03	782.00	23230	1.0	24.5	23.31	25	0	Left TIR	0	0.300	1.189	0.360	0.735	0.459		28.9		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																		Head							
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	LTE Band 13	10	QPSK	A+C	0363M	1:1	0.06	782.00	23230	0.0	25.5	24.48	1	0	Back	5	118	0.551	1.265	0.672	0.846	0.528	27.2			
Body-worn/Hotspot	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.05	782.00	23230	1.0	24.5	24.48	25	0	Back	5	118	0.497	1.265	0.528	0.836	0.523	27.2			
Body-worn/Hotspot	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.14	782.00	23230	0.0	25.5	24.48	1	0	Front	5	82	0.205	1.265	0.259	0.336	0.304	31.3			
Body-worn/Hotspot	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.13	782.00	23230	1.0	24.5	24.48	25	0	Front	5	82	0.162	1.265	0.209	0.335	0.303	31.3			
Hotspot	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.05	782.00	23230	0.0	25.5	24.48	1	0	Bottom	10	118	0.149	1.265	0.189	0.217	0.148	32.2			
Hotspot	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.06	782.00	23230	0.0	25.5	24.48	25	0	Bottom	10	118	0.149	1.265	0.189	0.217	0.148	32.2			
Hotspot	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.03	782.00	23230	0.0	25.5	24.48	1	0	Right	10	108	0.056	1.265	0.450	0.567	0.354	28.9			
Hotspot	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.06	782.00	23230	1.0	24.5	24.48	25	0	Right	10	108	0.290	1.265	0.367	0.581	0.363	28.8			
Hotspot	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.03	782.00	23230	0.0	25.5	24.48	1	0	Left	10	36	0.088	1.265	0.111	0.140	0.088	31.0			
Hotspot	LTE Band 13	10	QPSK	A+C	0363M	1:1	-0.09	782.00	23230	1.0	24.5	24.48	25	0	Left	10	36	0.079	1.265	0.092	0.146	0.091	34.8			
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DTR [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	0361M	1:1	-0.03	782.00	23230	0.0	25.5	24.48	1	0	Back	5	63	0.139	1.265	0.482	0.818	0.336	27.1			
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	0361M	1:1	-0.03	782.00	23230	1.0	24.5	24.48	25	0	Back	5	63	0.439	1.265	0.941	0.858	0.336	27.1			
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	0320M	1:1	-0.02	782.00	23230	0.0	25.5	24.48	1	0	Front	5	27	0.195	1.245	0.247	0.310	0.394	31.5			
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	0320M	1:1	0.00	782.00	23230	1.0	24.5	24.48	25	0	Front	5	27	0.152	1.245	0.192	0.305	0.351	31.6			
Hotspot	LTE Band 13	10	QPSK	A	0320M	1:1	-0.02	782.00	23230	0.0	25.5	24.48	1	0	Bottom	10	27	0.136	1.245	0.147	0.185	0.116	33.8			
Hotspot	LTE Band 13	10	QPSK	A	0320M	1:1	-0.02	782.00	23230	1.0	24.5	24.48	25	0	Bottom	10	27	0.090	1.265	0.114	0.180	0.113	31.9			
Hotspot	LTE Band 13	10	QPSK	A	0320M	1:1	-0.06	782.00	23230	0.0	25.5	24.48	1	0	Right	10	27	0.085	1.265	0.246	0.295	0.284	31.8			
Hotspot	LTE Band 13	10	QPSK	A	0320M	1:1	-0.01	782.00	23230	1.0	24.5	24.48	25	0	Right	10	27	0.245	1.265	0.183	0.201	0.182	31.8			
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 12-40) Plot A20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Ex
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Table 12-41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	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 13	10	QPSK	A/C	0361M	1:1	0.06	782.00	23230	0.0	19.5	18.45	1	0	Back	0	45	0.750	1.274	0.963	0.963	1.030	0.862		19.0		
Body	LTE Band 13	10	QPSK	A/C	0361M	1:1	0.01	782.00	23230	0.0	19.5	18.41	25	0	Back	0	45	0.788	1.279	0.964	0.964	1.038	0.849		19.1		
Body	LTE Band 13	10	QPSK	A/C	0361M	1:1	0.01	782.00	23230	0.0	19.5	18.31	50	0	Back	0	45	0.713	1.309	0.933	0.933	1.026	0.841		19.7		
Body	LTE Band 13	10	QPSK	A/C	0361M	1:1	0.06	782.00	23230	0.0	19.5	18.45	1	0	Top	0	63	0.605	1.274	0.924	0.923	0.925	0.855		19.0		
Body	LTE Band 13	10	QPSK	A/C	0361M	1:1	0.01	782.00	23230	0.0	19.5	18.41	25	0	Top	0	63	0.622	1.279	0.928	0.928	0.931	0.858		19.1		
Body	LTE Band 13	10	QPSK	A/C	0361M	1:1	0.01	782.00	23230	0.0	19.5	18.45	1	0	Bottom	0	63	0.805	1.274	0.771	0.771	0.848	0.530		20.0		
Body	LTE Band 13	10	QPSK	A/C	0361M	1:1	0.01	782.00	23230	0.0	19.5	18.41	25	0	Bottom	0	63	0.615	1.279	0.787	0.787	0.866	0.543		20.1		
Body	LTE Band 13	10	QPSK	A/C	0361M	1:1	0.06	782.00	23230	0.0	19.5	18.45	1	0	Right	0	108	0.803	1.274	1.023	1.023	1.125	0.703		19.4		
Body	LTE Band 13	10	QPSK	A/C	0361M	1:1	0.01	782.00	23230	0.0	19.5	18.41	25	0	Right	0	108	0.808	1.279	1.005	1.005	1.150	0.708		19.5		
Body	LTE Band 13	10	QPSK	A/C	0361M	1:1	0.01	782.00	23230	0.0	19.5	18.31	50	0	Right	0	108	0.815	1.309	1.067	1.067	1.174	0.794		19.7		
Body	LTE Band 13	10	QPSK	A/C	0361M	1:1	0.06	782.00	23230	0.0	19.5	18.45	1	0	Left	0	63	0.618	1.274	0.923	0.923	0.925	0.855		19.0		
Body	LTE Band 13	10	QPSK	A/C	0361M	1:1	0.01	782.00	23230	0.0	19.5	18.41	25	0	Left	0	63	0.618	1.279	0.923	0.923	0.925	0.855		19.1		
AND/IEEE C94.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																											
Body 1.6 W/kg (mW/g) averaged over 1 gram																											

Table 12-42) Plot A21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]		Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	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 13	10	QPSK	E	0361M	1:1	0.08	782.00	23230	0.0	19.0	19.00	1	25	Back	0		0.752	1.000	0.792	0.792	0.871	0.545		20.0		
Body	LTE Band 13	10	QPSK	E	0361M	1:1	0.07	782.00	23230	0.0	19.0	18.98	25	0	Back	0		0.789	1.028	0.811	0.811	0.892	0.558		19.5		
Body	LTE Band 13	10	QPSK	E	0361M	1:1	0.08	782.00	23230	0.0	19.0	18.85	50	0	Back	0		0.774	1.035	0.801	0.801	0.881	0.551		19.9		
Body	LTE Band 13	10	QPSK	E	0361M	1:1	0.08	782.00	23230	0.0	19.0	19.00	1	25	Top	0		0.860	1.000	0.963	0.963	1.009	0.662		19.1		
Body	LTE Band 13	10	QPSK	E	0361M	1:1	0.05	782.00	23230	0.0	19.0	18.88	25	0	Top	0		0.881	1.028	1.008	1.008	1.109	0.693	Plot	18.9		
Body	LTE Band 13	10	QPSK	E	0361M	1:1	0.01	782.00	23230	0.0	19.0	18.85	50	0	Top	0		0.867	1.035	1.001	1.001	1.101	0.689		19.9		
Body	LTE Band 13	10	QPSK	E	0361M	1:1	0.05	782.00	23230	0.0	19.0	19.00	1	25	Bottom	0		0.912	1.000	0.922	0.912	0.913	0.609		18.9	18.0	
Body	LTE Band 13	10	QPSK	E	0361M	1:1	0.05	782.00	23230	0.0	19.0	18.88	25	0	Bottom	0		0.913	1.028	0.911	0.911	0.922	0.608		18.4		
Body	LTE Band 13	10	QPSK	E	0361M	1:1	0.01	782.00	23230	0.0	19.0	19.00	1	25	Right	0		0.932	1.000	0.932	0.932	0.933	0.592		21.0		
Body	LTE Band 13	10	QPSK	E	0361M	1:1	0.01	782.00	23230	0.0	19.0	18.88	25	0	Right	0		0.931	1.028	0.948	0.948	0.949	0.603		19.7	21.6	
Body	LTE Band 13	10	QPSK	E	0361M	1:1	0.12	782.00	23230	0.0	19.0	19.00	1	25	Left	0		0.919	1.000	0.919	0.919	0.921	0.513		16.2		
Body	LTE Band 13	10	QPSK	E	0361M	1:1	0.10	782.00	23230	0.0	19.0	18.88	25	0	Left	0		0.919	1.028	0.920	0.920	0.922	0.514		16.0		
AND/IEEE C94.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																											
Body 1.6 W/kg (mW/g) averaged over 1 gram																											

12.8 LTE Band 26 (Cell) Standalone SAR

Table 12-43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]	
Head	LTE Band 26	15	QPSK	A/C	0357M	1:1	0.05	831.500	26865	0.0	25.5	24.60	1	0	Right Cheek	0	108	0.124	1.230	0.153	0.494	0.309		33.6			
Head	LTE Band 26	15	QPSK	A/C	0357M	1:1	0.01	831.500	26865	0.0	24.5	23.49	36	0	Right Cheek	0	0	0.089	1.262	0.122	0.122	0.499	0.312		33.6		
Head	LTE Band 26	15	QPSK	A/C	0357M	1:1	0.06	831.500	26865	0.0	25.5	24.60	1	0	Right TIR	0	0	0.089	1.262	0.105	0.105	0.275	0.172		36.2		
Head	LTE Band 26	15	QPSK	A/C	0357M	1:1	0.07	831.500	26865	0.0	24.5	23.49	36	0	Right TIR	0	0	0.098	1.262	0.071	0.071	0.288	0.180		36.0		
Head	LTE Band 26	15	QPSK	A/C	0357M	1:1	0.15	831.500	26865	0.0	25.5	24.60	1	0	Left Cheek	0	108	0.084	1.230	0.103	0.134	0.209		35.3			
Head	LTE Band 26	15	QPSK	A/C	0357M	1:1	0.02	831.500	26865	0.0	24.5	23.49	36	0	Left Cheek	0	0	0.089	1.262	0.085	0.111	0.164		35.2			
Head	LTE Band 26	15	QPSK	A/C	0357M	1:1	0.03	831.500	26865	0.0	25.5	24.60	1	0	Left TIR	0	108	0.084	1.230	0.073	0.084	0.152		36.7			
Head	LTE Band 26	15	QPSK	A/C	0357M	1:1	0.01	831.500	26865	0.0	24.5	23.49	36	0	Left TIR	0	0	0.089	1.000	0.104	0.104	0.262	0.164		36.4		
AND/IEEE C94.1-1992 - SAFETY LIMIT																											
Spatial Peak																											
Uncontrolled Exposure/General Population																											
Head																											
1.6 W/kg (mW/g)																											
averaged over 1 gram																											

Table 12-44

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	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]	EFS PLimit [dBm]	
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.02	831.50	26865	0.0	25.5	24.60	1	0	Right Cheek	0	0	0.082	1.230	0.076	0.247	0.154		36.6			
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.01	831.50	26865	0.0	24.5	23.49	36	0	Right Cheek	0	0	0.089	1.262	0.064	0.261	0.164		36.2			
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.01	831.50	26865	0.0	25.5	24.60	1	0	Right TIR	0	0	0.089	1.230	0.047	0.153	0.094		38.8			
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.02	831.50	26865	0.0	24.5	23.49	36	0	Right TIR	0	0	0.079	1.262	0.037	0.149	0.091		38.0			
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.01	831.50	26865	0.0	25.5	24.60	1	0	Left Cheek	0	0	0.089	1.230	0.057	0.183	0.114		37.9			
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.01	831.50	26865	0.0	24.5	23.49	36	0	Left Cheek	0	0	0.089	1.262	0.047	0.150	0.119		37.8			
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.01	831.50	26865	0.0	25.5	24.60	1	0	Left TIR	0	0	0.089	1.230	0.044	0.149	0.091		38.4			
Head	LTE Band 26	15	QPSK	A	0357M	1:1	0.09	831.50	26865	0.0	24.5	23.49	36	0	Left TIR	0	0	0.089	1.262	0.038	0.154	0.096		38.7			
AND/IEEE C94.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																											

Table 12-47

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]	Turn state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body worn/Hotspot	LTE Band 26	15	QPSK	A	0311M	1.1	-0.09	831.50	26865	0.0	25.5	24.60	1	0	Back	5	64	0.606	1.230	0.745	0.763	0.477		26.7	26.7	25.6
Body worn/Hotspot	LTE Band 26	15	QPSK	A	0311M	1.1	-0.05	831.50	26865	1.0	24.5	23.49	36	0	Back	5	64	0.460	1.262	0.932	0.763	0.477		26.7		
Body worn/Hotspot	LTE Band 26	15	QPSK	A	0317M	1.1	0.00	831.50	26865	0.0	25.5	24.60	1	0	Front	5	18	0.136	1.230	0.167	0.311	0.307		32.6		
Body worn/Hotspot	LTE Band 26	15	QPSK	A	0317M	1.1	-0.10	831.50	26865	1.0	24.5	23.49	36	0	Front	5	18	0.117	1.262	0.148	0.180	0.119		32.6		
Hotspot	LTE Band 26	15	QPSK	A	0317M	1.1	0.08	831.50	26865	0.0	25.5	24.60	1	0	Bottom	10	100	0.098	1.230	0.212	0.229	0.027		34.6		
Hotspot	LTE Band 26	15	QPSK	A	0317M	1.1	0.03	831.50	26865	1.0	24.5	23.49	36	0	Bottom	10	100	0.076	1.262	0.096	0.127	0.029		34.6		
Hotspot	LTE Band 26	15	QPSK	A	0317M	1.1	0.20	831.50	26865	0.0	25.5	24.60	1	0	Right	10	5	0.124	1.230	0.153	0.156	0.088		33.6		
Hotspot	LTE Band 26	15	QPSK	A	0317M	1.1	-0.09	831.50	26865	1.0	24.5	23.49	36	0	Right	10	5	0.096	1.262	0.121	0.156	0.088		33.6		
ANS/IEEE CS1.1 1992 - SAFETY LIMIT																										
Spatial Peak																										
Uncorrelated Exposure/General Population																										
Body																										
1.6 W/kg (mW/g)																										
averaged over 1 gram																										

Table 12-48

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body worn/Hotspot	LTE Band 26	15	QPSK	E	0317M	1.1	0.08	831.50	26865	0.0	25.0	24.85	1	36	Back	5	0.675	1.035	0.699	0.987	0.617		26.5	26.5	
Body worn/Hotspot	LTE Band 26	15	QPSK	E	0317M	1.1	0.01	831.50	26865	1.0	24.0	23.44	36	0	Back	5	0.489	1.138	0.556	0.989	0.618		26.5	26.5	
Body worn/Hotspot	LTE Band 26	15	QPSK	E	0317M	1.1	-0.08	831.50	26865	0.0	25.0	24.85	1	36	Front	5	0.161	1.035	0.167	0.235	0.147		32.6	26.5	
Body worn/Hotspot	LTE Band 26	15	QPSK	E	0317M	1.1	-0.03	831.50	26865	1.0	24.0	23.44	36	0	Front	5	0.121	1.138	0.138	0.245	0.153		32.6	26.5	
Hotspot	LTE Band 26	15	QPSK	E	0317M	1.1	0.04	831.50	26865	0.0	25.0	24.85	1	36	Top	10	0.446	1.035	0.560	0.616	0.185		21.5	26.5	
Hotspot	LTE Band 26	15	QPSK	E	0317M	1.1	-0.07	831.50	26865	1.0	24.0	23.44	36	0	Top	10	0.085	1.138	0.102	0.182	0.114		33.6	26.5	
Hotspot	LTE Band 26	15	QPSK	E	0317M	1.1	0.01	831.50	26865	0.0	25.0	24.85	1	36	Right	10	0.041	1.035	0.042	0.060	0.028		38.7	26.5	
Hotspot	LTE Band 26	15	QPSK	E	0317M	1.1	-0.09	831.50	26865	1.0	24.0	23.44	36	0	Right	10	0.026	1.138	0.023	0.038	0.024		40.8	26.5	
ANS/IEEE CS1.1 1992 - SAFETY LIMIT																									
Spatial Peak																									
Uncorrelated 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 Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Turn 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 [g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	LTE Band 26	15	QPSK	Ave	0317M	1.1	-0.04	831.50	26865	0.0	19.0	17.89	1	36	Back	0	0	0.472	1.201	0.609	0.609	0.670	0.433		21.3	19.8	
Body	LTE Band 26	15	QPSK	Ave	0317M	1.1	-0.14	831.50	26865	0.0	19.0	17.78	36	0	Back	0	0	0.464	1.244	0.601	0.601	0.661	0.434		21.2	19.8	
Body	LTE Band 26	15	QPSK	Ave	0317M	1.1	-0.11	831.50	26865	0.0	19.0	17.89	1	36	Top	0	9	0.893	1.201	0.937	0.937	0.941	0.025		33.1	19.8	
Body	LTE Band 26	15	QPSK	Ave	0317M	1.1	-0.13	831.50	26865	0.0	19.0	17.78	36	0	Top	0	9	0.889	1.244	0.937	0.937	0.941	0.025		33.1	19.8	
Body	LTE Band 26	15	QPSK	Ave	0317M	1.1	0.00	831.50	26865	0.0	19.0	17.89	1	36	Bottom	0	0	0.434	1.201	0.560	0.560	0.616	0.185		21.5	19.8	
Body	LTE Band 26	15	QPSK	Ave	0317M	1.1	-0.08	831.50	26865	0.0	19.0	17.78	36	0	Bottom	0	0	0.432	1.244	0.545	0.545	0.600	0.175		21.6	19.8	
Body	LTE Band 26	15	QPSK	Ave	0317M	1.1	-0.17	831.50	26865	0.0	19.0	17.89	1	36	Right	0	109	0.835	1.201	0.835	0.835	0.887	0.100		19.8	19.8	
Body	LTE Band 26	15	QPSK	Ave	0317M	1.1	-0.20	831.50	26865	0.0	19.0	17.78	36	0	Right	0	109	0.863	1.244	0.825	0.825	0.868	0.106		19.8	19.8	
Body	LTE Band 26	15	QPSK	Ave	0317M	1.1	0.01	831.50	26865	0.0	19.0	17.73	75	0	Right	0	109	0.863	1.346	0.809	0.809	0.890	0.107		19.8	19.8	
Body	LTE Band 26	15	QPSK	Ave	0317M	1.1	-0.07	831.50	26865	0.0	19.0	17.89	1	36	Left	0	9	0.862	1.201	0.843	0.843	0.847	0.028		33.1	19.8	
Body	LTE Band 26	15	QPSK	Ave	0317M	1.1	0.05	831.50	26865	0.0	19.0	17.78	36	0	Left	0	9	0.832	1.244	0.842	0.842	0.846	0.028		33.1	19.8	
ANS/IEEE CS1.1 1992 - SAFETY LIMIT																		Spatial Peak									
Uncorrelated Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-50| Plot A24

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body	LTE Band 26	15	QPSK	E	0317M	1.1	-0.03	831.50	26865	0.0	20.0	19.64	1	0	Back	0	0.863	1.086	0.937	0.937	1.021	0.445		20.2	19.0	
Body	LTE Band 26	15	QPSK	E	0317M	1.1	-0.14	831.50	26865	0.0	20.0	19.62	36	0	Back	0	0.824	1.091	0.899	0.899	0.989	0.518		20.4	19.0	
Body	LTE Band 26	15	QPSK	E	0317M	1.1	-0.07	831.50	26865	0.0	20.0	19.50	75	0	Back	0	0.666	1.222	0.747	0.747	0.822	0.324		21.2	19.0	
Body	LTE Band 26	15	QPSK	E	1210M	1.1	0.00	831.50	26865	0.0	20.0	19.64	1	0	Top	0	1.000	1.086	1.151	1.151	1.266	0.701	Plot	19.3	19.0	
Body	LTE Band 26	15	QPSK	E	0317M	1.1	-0.13	831.50	26865	0.0	20.0	19.62	36	0	Top	0	0.976	1.091	1.060	1.060	1.176	0.733		19.4	19.0	
Body	LTE Band 26	15	QPSK	E	0317M	1.1	0.00	831.50	26865	0.0	20.0	19.50	75	0	Top	0	0.919	1.222	1.031	1.031	1.134	0.708		19.5	19.0	
Body	LTE Band 26	15	QPSK	E	0317M	1.1	-0.01	831.50	26865	0.0	20.0	19.64	1	0	Bottom	0	0.815	1.086	0.916	0.916	0.918	0.011		19.8	19.0	
Body	LTE Band 26	15	QPSK	E	0317M	1.1	0.06	831.50	26865	0.0	20.0	19.62	36	0	Bottom	0	0.816	1.091	0.920	0.920	0.924	0.014		19.8	19.0	
Body	LTE Band 26	15	QPSK	E	0317M	1.1	0.13	831.50	26865	0.0	20.0	19.44	1	0	Right	0	0.926	1.086	0.970	0.970	0.827	0.182		22.4	19.0	
Body	LTE Band 26	15	QPSK	E	0317M	1.1	-0.03	831.50	26865	0.0	20.0	19.62	36	0	Right	0	0.931	1.091	0.970	0.970	0.827	0.188		22.4	19.0	
Body	LTE Band 26	15	QPSK	E	0317M	1.1	-0.02	831.50	26865	0.0	20.0	19.44	1	0	Left	0	0.937	1.086	0.940	0.940	0.844	0.181		21.5	19.0	
Body	LTE Band 26	15	QPSK	E	0317M	1.1	0.10	831.50	26865	0.0	20.0	19.62	36	0	Left	0	0.937	1.091	0.940	0.940	0.844	0.188		21.5	19.0	
ANS/IEEE CS1.1 1992 - SAFETY LIMIT																										
Spatial Peak																										
Uncorrelated Exposure/General Population																										
1.6 W/kg (mW/g) averaged over 1 gram																										

Note: Blue entry represents variability measurement

12.9 LTE Band 66 (AWS)



Table 12-53

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [dB]	Frequency [MHz]	Channel #	MFR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	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]	RFSP Plimit [dBm]
Body worn/Hotspot	LTE Band 66	20	QPSK	B	0311M	1.1	-0.09	1720.00	132072	0.0	19.0	17.43	1	0	Back	5	0.699	1.435	1.003	1.003	1.003	0.690		18.9		
Body worn/Hotspot	LTE Band 66	20	QPSK	B	0311M	1.1	-0.1	1745.00	132132	0.0	19.0	17.44	1	0	Back	5	0.694	1.435	1.003	1.003	1.003	0.689		18.9		
Body worn/Hotspot	LTE Band 66	20	QPSK	B	0311M	1.1	-0.09	1770.00	132172	0.0	19.0	17.23	1	0	Back	5	0.772	1.399	1.160	1.160	1.176	0.798		18.3		
Body worn/Hotspot	LTE Band 66	20	QPSK	B	0311M	1.1	-0.09	1720.00	132072	0.0	19.0	17.50	50	0	Back	5	0.673	1.413	0.951	0.951	1.046	0.653		19.2		
Body worn/Hotspot	LTE Band 66	20	QPSK	B	0311M	1.1	-0.05	1745.00	132132	0.0	19.0	17.16	50	0	Back	5	0.651	1.521	0.900	0.900	1.026	0.643		19.0		
Body worn/Hotspot	LTE Band 66	20	QPSK	B	0311M	1.1	0.12	1770.00	132172	0.0	19.0	17.25	50	0	Back	5	0.790	1.486	1.185	1.185	1.304	0.815		18.2		
Body worn/Hotspot	LTE Band 66	20	QPSK	B	0311M	1.1	-0.1	1720.00	132072	0.0	19.0	17.36	100	0	Back	5	0.667	1.459	1.002	1.002	1.102	0.689		18.7		
Body worn/Hotspot	LTE Band 66	20	QPSK	B	0311M	1.1	-0.05	1720.00	132072	0.0	19.0	17.48	1	0	Front	5	0.528	1.495	0.927	0.927	0.980	0.524		23.8	18.2	18.0
Body worn/Hotspot	LTE Band 66	20	QPSK	B	0311M	1.1	-0.1	1720.00	132072	0.0	19.0	17.50	50	0	Front	5	0.519	1.413	0.909	0.909	0.940	0.512		24.0		
Hotspot	LTE Band 66	20	QPSK	B	0311M	1.1	-0.02	1720.00	132072	0.0	19.0	17.48	1	0	Bottom	10	0.540	1.455	0.948	0.948	0.927	0.545		23.1		
Hotspot	LTE Band 66	20	QPSK	B	0311M	1.1	0.00	1720.00	132072	0.0	19.0	17.50	50	0	Bottom	10	0.500	1.413	0.895	0.895	0.945	0.540		22.0		
Hotspot	LTE Band 66	20	QPSK	B	0311M	1.1	-0.20	1720.00	132072	0.0	19.0	17.43	1	0	Left	10	0.673	1.435	0.105	0.105	0.116	0.070		28.7		
Hotspot	LTE Band 66	20	QPSK	B	0311M	1.1	-0.02	1720.00	132072	0.0	19.0	17.50	50	0	Left	10	0.673	1.413	0.103	0.103	0.113	0.070		28.8		
ANSI/IEEE C95.3-1992 - SAFETY LIMIT																	Body 1.4 W/kg (mW/g) averaged over 1 gram									
Spatial Peak Uncontrolled Exposure/General Population																										

Table 12-54| Plot A26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [dB]	Frequency [MHz]	Channel #	MFR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	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]	RFSP Plimit [dBm]
Body worn/Hotspot	LTE Band 66	20	QPSK	G	0311M	1.1	-0.13	1720.00	132072	0.0	18.0	17.68	1	50	Back	5	0.824	1.076	0.887	0.887	0.976	0.609		18.5		
Body worn/Hotspot	LTE Band 66	20	QPSK	G	0311M	1.1	-0.09	1745.00	132132	0.0	18.0	17.51	1	0	Back	5	0.801	1.115	0.906	0.906	0.987	0.623		18.4		
Body worn/Hotspot	LTE Band 66	20	QPSK	G	0311M	1.1	-0.02	1770.00	132172	0.0	18.0	17.44	1	0	Back	5	0.794	1.118	0.904	0.904	0.984	0.622		18.4		
Body worn/Hotspot	LTE Band 66	20	QPSK	G	0311M	1.1	-0.13	1720.00	132072	0.0	18.0	17.83	50	0	Back	5	0.824	1.040	0.817	0.817	0.943	0.580		18.6		
Body worn/Hotspot	LTE Band 66	20	QPSK	G	0311M	1.1	-0.09	1745.00	132132	0.0	18.0	17.85	50	0	Back	5	0.806	1.099	0.894	0.894	0.981	0.581		18.4		
Body worn/Hotspot	LTE Band 66	20	QPSK	G	0311M	1.1	-0.02	1770.00	132172	0.0	18.0	17.42	50	25	Back	5	0.802	1.143	0.917	0.917	1.009	0.630		18.3		
Body worn/Hotspot	LTE Band 66	20	QPSK	G	0311M	1.1	0.12	1770.00	132172	0.0	18.0	17.48	100	0	Back	5	0.801	1.084	0.902	0.902	0.993	0.620		18.3		
Body worn/Hotspot	LTE Band 66	20	QPSK	G	0311M	1.1	0.04	1720.00	132072	0.0	18.0	17.68	1	50	Front	5	0.804	1.076	0.927	0.927	0.930	0.624		22.8	18.3	17.0
Body worn/Hotspot	LTE Band 66	20	QPSK	G	0311M	1.1	-0.11	1720.00	132072	0.0	18.0	17.83	50	0	Front	5	0.529	1.040	0.911	0.911	0.942	0.513		23.0		
Hotspot	LTE Band 66	20	QPSK	G	0311M	1.1	-0.05	1720.00	132072	0.0	18.0	17.48	1	50	Top	10	0.544	1.076	0.607	0.607	0.609	0.417		20.1		
Hotspot	LTE Band 66	20	QPSK	G	0311M	1.1	-0.01	1720.00	132072	0.0	18.0	17.83	50	0	Top	10	0.554	1.040	0.576	0.576	0.634	0.396		20.3		
Hotspot	LTE Band 66	20	QPSK	G	0311M	1.1	-0.05	1720.00	132072	0.0	18.0	17.48	1	50	Right	10	0.544	1.040	0.576	0.576	0.634	0.396		20.3		
Hotspot	LTE Band 66	20	QPSK	G	0311M	1.1	0.15	1720.00	132072	0.0	18.0	17.83	50	0	Right	10	0.577	1.040	0.580	0.580	0.608	0.505		20.5		
ANSI/IEEE C95.3-1992 - SAFETY LIMIT																	Body 1.4 W/kg (mW/g) averaged over 1 gram									
Spatial Peak Uncontrolled Exposure/General Population																										

Table 12-55

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [dB]	Frequency [MHz]	Channel #	MFR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	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]	RFSP Plimit [dBm]
Body	LTE Band 66	20	QPSK	B	0311M	1.1	0.01	1720.00	132072	0.0	13.0	11.60	1	50	Back	10	0.605	1.380	0.939	0.939	1.005	0.639		13.1		
Body	LTE Band 66	20	QPSK	B	0312M	1.1	-0.05	1745.00	132132	0.0	13.0	11.39	1	0	Back	10	0.684	1.459	0.998	0.998	1.058	0.686		13.0		
Body	LTE Band 66	20	QPSK	B	0311M	1.1	0.01	1770.00	132172	0.0	13.0	11.58	1	0	Back	10	0.734	1.387	1.018	1.018	1.120	0.709		12.9		
Body	LTE Band 66	20	QPSK	B	0311M	1.1	-0.01	1720.00	132072	0.0	13.0	11.53	50	0	Back	10	0.651	1.463	1.006	1.006	1.078	0.678		13.0		
Body	LTE Band 66	20	QPSK	B	0312M	1.1	-0.03	1745.00	132132	0.0	13.0	11.15	50	0	Back	10	0.657	1.531	1.006	1.006	1.107	0.692		12.9		
Body	LTE Band 66	20	QPSK	B	0328M	1.1	0.01	1770.00	132172	0.0	13.0	11.38	50	25	Back	10	0.718	1.482	1.043	1.043	1.147	0.717		12.8		
Body	LTE Band 66	20	QPSK	B	0311M	1.1	-0.01	1720.00	132072	0.0	13.0	11.53	100	0	Back	10	0.665	1.409	0.937	0.937	1.011	0.645		13.4		
Body	LTE Band 66	20	QPSK	B	0328M	1.1	0.01	1720.00	132072	0.0	13.0	11.60	50	Top	10	0.600	1.380	0.900	0.900	0.900	0.600		13.5			
Body	LTE Band 66	20	QPSK	B	0328M	1.1	0.05	1720.00	132072	0.0	13.0	11.53	50	25	Top	10	0.600	1.403	0.900	0.900	0.900	0.600		13.5		
Body	LTE Band 66	20	QPSK	B	0311M	1.1	-0.01	1720.00	132072	0.0	13.0	11.53	100	0	Bottom	10	0.713	1.380	0.904	0.904	1.002	0.677		13.0		
Body	LTE Band 66	20	QPSK	B	0311M	1.1	-0.06	1745.00	132132	0.0	13.0	11.36	1	99	Bottom	10	0.723	1.409	1.005	1.005	1.161	0.725		12.2		
Body	LTE Band 66	20	QPSK	B	0311M	1.1	-0.01	1770.00	132172	0.0	13.0	11.38	50	0	Bottom	10	0.711	1.387	1.007	1.007	1.179	0.717		12.4		
Body	LTE Band 66	20	QPSK	B	0311M	1.1	0.01	1720.00	132072	0.0	13.0	11.53	50	25	Bottom	10	0.717	1.403	1.006	1.006	1.107	0.692		12.9		
Body	LTE Band 66	20	QPSK	B	0311M	1.1	0.02	1745.00	132132	0.0	13.0	11.15	1	0	Bottom	10	0.720	1.531	1.102	1.102	1.212	0.748		12.5		
Body	LTE Band 66	20	QPSK	B	0311M	1.1	-0.01	1770.00	132172	0.0	13.0	11.38	50	25	Bottom	10	0.702	1.452	1.092	1.092	1.201	0.751		12.6		
Body	LTE Band 66	20	QPSK	B	0311M	1.1	-0.02	1770.00	132172	0.0	13.0	11.51	100	0	Bottom	10	0.748	1.409	1.054	1.054	1.159	0.725		12.2		
Body	LTE Band 66	20	QPSK	B	0311M	1.1	-0.09	1720.00	132072	0.0	13.0	11.60	50	0	Right	10	0.614	1.380	0.918	0.918	0.921	0.613		13.1		
Body	LTE Band 66	20	QPSK	B	0311M	1.1	0.02	1720.00	132072	0.0	13.0	11.53	50	25	Right	10	0.615	1.403	0.921	0.921	0.923	0.614		29.7		
Body	LTE Band 66	20	QPSK	B	0311M	1.1	0.07	1720.00	132072	0.0	13.0	11.60	50	50	Left	10	0.616	1.380	0.902	0.902	0.902	0.615		29.5		
Body	LTE Band 66	20	QPSK	B	0311M	1.1	-0.07	1720.00	132072	0.0	13.0	11.53	50	25	Left	10	0.615	1.403	0.921	0.921	0.923	0.614		29.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																										
Spatial Peak																										
Uncontrolled Exposure (General Population)																										
1.6 W/kg (mW/kg)																										
averaged over 1 gram																										



12.10 LTE Band 25 (PCS) Standalone SAR

Table 12-58

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	RF5 Plimt [dBm]
Head	LTE Band 25	20	QPSK	B	0357M	1.1	0.04	1860.00	26140	0.0	25.0	23.89	1	0	Right Cheek	0	0.112	1.291	0.145	0.468	0.263	33.3			
Head	LTE Band 25	20	QPSK	B	0357M	1.1	0.00	1860.00	26140	1.0	24.0	22.70	50	25	Right Cheek	0	0.060	1.349	0.111	0.495	0.269	33.1			
Head	LTE Band 25	20	QPSK	B	0357M	1.1	-0.06	1860.00	26140	0.0	25.0	23.89	1	0	Right Tilt	0	0.076	1.291	0.098	0.318	0.199	35.0			
Head	LTE Band 25	20	QPSK	B	0357M	1.1	0.08	1860.00	26140	1.0	24.0	22.20	50	25	Right Tilt	0	0.061	1.349	0.092	0.315	0.209	34.8			
Head	LTE Band 25	20	QPSK	B	0357M	1.1	0.01	1860.00	26140	0.0	25.0	23.89	1	0	Left Cheek	0	0.112	1.291	0.111	0.489	0.266	33.2			
Head	LTE Band 25	20	QPSK	B	0357M	1.1	-0.04	1860.00	26140	1.0	24.0	22.70	50	25	Left Cheek	0	0.102	1.349	0.118	0.560	0.350	32.6			
Head	LTE Band 25	20	QPSK	B	0357M	1.1	0.09	1860.00	26140	0.0	25.0	23.89	1	0	Left Tilt	0	0.068	1.291	0.072	0.234	0.146	36.4			
Head	LTE Band 25	20	QPSK	B	0357M	1.1	-0.17	1860.00	26140	1.0	24.0	22.70	50	25	Left Tilt	0	0.088	1.349	0.065	0.264	0.165	35.8			
ANSI/IEEE C63.5.1-1992 - SAFETY LIMIT																	Head								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

Table 12-59| Plot A28

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 [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	RF5 Plimt [dBm]
Head	LTE Band 25	20	QPSK	G	0357M	1.1	0.09	1860.00	26140	0.0	20.5	18.94	1	50	Right Cheek	0	0.286	1.432	0.410	0.410	0.431	0.282	24.3			19.5
Head	LTE Band 25	20	QPSK	G	0357M	1.1	0.09	1860.00	26140	0.0	20.5	18.97	50	0	Right Cheek	0	0.286	1.432	0.421	0.421	0.463	0.289	24.2			
Head	LTE Band 25	20	QPSK	G	0357M	1.1	-0.11	1860.00	26140	0.0	20.5	18.94	1	50	Right Tilt	0	0.286	1.432	0.421	0.421	0.463	0.289	24.2			
Head	LTE Band 25	20	QPSK	G	0357M	1.1	0.01	1860.00	26140	0.0	20.5	18.97	50	0	Right Tilt	0	0.533	1.432	0.744	0.744	0.818	0.512	21.2			
Head	LTE Band 25	20	QPSK	B	0357M	1.1	0.11	1860.00	26140	0.0	20.5	18.94	1	50	Left Cheek	0	0.286	1.432	0.433	0.433	0.465	0.291	24.1			
Head	LTE Band 25	20	QPSK	G	0357M	1.1	0.06	1860.00	26140	0.0	20.5	18.97	50	0	Left Cheek	0	0.447	1.432	0.636	0.636	0.700	0.438	22.4			
Head	LTE Band 25	20	QPSK	G	0357M	1.1	0.05	1860.00	26140	0.0	20.5	18.94	1	50	Left Tilt	0	0.548	1.432	0.785	0.785	0.864	0.540	21.5			
Head	LTE Band 25	20	QPSK	G	0357M	1.1	-0.06	1860.00	26140	0.0	20.5	18.97	50	0	Left Tilt	0	0.561	1.432	0.788	0.788	0.878	0.549	21.4			
ANSI/IEEE C63.5.1-1992 - SAFETY LIMIT																	Head									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 12-60| Plot A29

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 [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	RF5 Plimt [dBm]
Body worn/Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	0.09	1860.00	26140	0.0	18.5	17.72	1	0	Back	5	0.862	1.097	1.140	1.140	1.254	0.784	17.8			17.0
Body worn/Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	-0.11	1860.00	26140	0.0	18.5	17.18	1	0	Back	5	0.864	1.097	1.039	1.039	1.121	0.761	17.9			
Body worn/Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	0.07	1905.00	26590	0.0	18.5	17.40	1	0	Back	5	0.902	1.088	1.162	1.162	1.276	0.789	17.8			
Body worn/Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	0.13	1860.00	26140	0.0	18.5	17.50	50	0	Back	5	0.939	1.059	1.182	1.182	1.300	0.813	17.7			
Body worn/Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	-0.11	1860.00	26140	0.0	18.5	17.44	50	0	Back	5	0.939	1.059	1.182	1.182	1.300	0.813	17.7			
Body worn/Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	0.12	1905.00	26590	0.0	18.5	17.43	50	25	Back	5	0.888	1.079	1.149	1.149	1.264	0.790	17.8			
Body worn/Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	0.11	1860.00	26140	0.0	18.5	17.49	100	0	Back	5	0.898	1.061	1.194	1.194	1.311	0.811	17.7			
Body worn/Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	-0.03	1860.00	26140	0.0	18.5	17.72	1	0	Front	5	0.900	1.097	1.093	1.093	1.214	0.796	22.1			17.0
Body worn/Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	-0.03	1860.00	26140	0.0	18.5	17.50	50	0	Front	5	0.948	1.059	1.438	1.438	1.602	0.905	22.0			
Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	0.09	1860.00	26140	0.0	18.5	17.72	1	0	Bottom	10	0.897	1.097	1.097	1.097	1.209	0.785	20.5			
Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	-0.03	1860.00	26140	0.0	18.5	17.50	50	0	Bottom	10	0.493	1.059	0.621	0.621	0.683	0.437	20.5			
Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	0.07	1860.00	26140	0.0	18.5	17.72	1	0	Left	10	0.493	1.097	0.687	0.687	0.749	0.438	20.5			
Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	-0.03	1860.00	26140	0.0	18.5	17.50	50	0	Left	10	0.072	1.059	0.091	0.091	0.100	0.063	28.0			
ANSI/IEEE C63.5.1-1992 - SAFETY LIMIT																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	averaged over 1 gram									

Table 12-61

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 #	Plimt [dBm]	Overall Plimt [dBm]	RF5 Plimt [dBm]
Body worn/Hotspot	LTE Band 25	20	QPSK	G	0311M	1.1	0.04	1860.00	26140	0.0	18.0	17.48	1	50	Back	5	0.921	1.127	1.038	1.038	1.142	0.744	17.8			
Body worn/Hotspot	LTE Band 25	20	QPSK	G	0311M	1.1	0.17	1882.50	26390	0.0	18.0	17.18	1	50	Back	5	0.884	1.033	1.039	1.039	1.121	0.761	17.9			
Body worn/Hotspot	LTE Band 25	20	QPSK	G	0311M	1.1	-0.01	1900.00	26590	0.0	18.0	17.40	1	50	Back	5	0.916	1.148	1.040	1.037	1.031	0.645	18.2			
Body worn/Hotspot	LTE Band 25	20	QPSK	G	0311M	1.1	0.20	1860.00	26140	0.0	18.0	17.44	50	0	Back	5	0.942	1.112	1.048	1.048	1.153	0.721	17.7			
Body worn/Hotspot	LTE Band 25	20	QPSK	G	0311M	1.1	-0.08	1860.00	26140	0.0	18.0	17.45	50	25	Back	5	0.895	1.017	1.035	1.035	1.118	0.698	17.9			
Body worn/Hotspot	LTE Band 25	20	QPSK	G	0311M	1.1	0.07	1905.00	26590	0.0	18.0	17.41	50	25	Back	5	0.926	1.146	0.947	0.947	1.042	0.651	18.2			
Body worn/Hotspot	LTE Band 25	20	QPSK	G	0311M	1.1	0.05	1860.00	26140	0.0	18.0	17.46	100	0	Back	5	0.925	1.132	1.047	1.047	1.152	0.719	17.7			
Body worn/Hotspot	LTE Band 25	20	QPSK	G	0311M	1.1	0.09	1860.00	26140	0.0	18.0	17.48	1	50	Front	5	0.947	1.027	1.030	1.030	1.131	0.767	23.2			
Body worn/Hotspot	LTE Band 25	20	QPSK	G	0311M	1.1	0.08	1860.00	26140	0.0	18.0	17.54	50	0	Front	5	0.947	1.012	0.937	0.937	1.027	0.605	22.6			
Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	-0.01	1860.00	26140	0.0	18.0	17.48	1	50	Top	10	0.462	1.027	0.486	0.486	0.566	0.341	21.0			
Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	0.01	1860.00	26140	0.0	18.0	17.54	1	50	Top	10	0.482	1.027	0.487	0.487	0.568	0.341	21.1			
Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	0.01	1860.00	26140	0.0	18.0	17.48	1	50	Right	10	0.062	1.027	0.070	0.070	0.070	0.048	28.5			
Hotspot	LTE Band 25	20	QPSK	B	0311M	1.1	0.01	1860.00	26140	0.0	18.0	17.54	50	0	Right	10	0.060	1.112	0.067	0.067	0.074	0.046	28.7			
AND/EEC CS1.1 RB1 - SAFETY LMT																										
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure - General Population																	averaged over 1 gram									



Table 12-63| Plot A30

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 (Eq SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	RFSP Plimit [dBm]
Body	LTE Band 25	20	QPSK	G	0328M	1:1	-0.01	1860.00	26140	0.0	22.0	20.75	1	50	Back	10	0.914	1.034	1.219	1.219	1.341	0.838	Prot	21.1		
Body	LTE Band 25	20	QPSK	G	0328M	1:1	-0.01	1862.00	26140	0.0	22.0	20.66	1	0	Back	10	0.889	1.061	1.210	1.210	1.331	0.812		21.1		
Body	LTE Band 25	20	QPSK	G	0328M	1:1	-0.05	1905.00	26590	0.0	22.0	20.69	1	0	Back	10	0.880	1.052	1.185	1.185	1.279	0.800		21.1		
Body	LTE Band 25	20	QPSK	G	0328M	1:1	-0.01	1860.00	26140	0.0	22.0	20.73	50	0	Back	10	0.894	1.040	1.198	1.198	1.318	0.824		21.2		
Body	LTE Band 25	20	QPSK	G	0328M	1:1	-0.02	1862.00	26140	0.0	22.0	20.66	50	25	Back	10	0.875	1.061	1.195	1.195	1.300	0.818		21.2		
Body	LTE Band 25	20	QPSK	G	0328M	1:1	-0.01	1905.00	26590	0.0	22.0	20.67	50	25	Back	10	0.876	1.058	1.190	1.190	1.309	0.818		21.2		
Body	LTE Band 25	20	QPSK	G	0328M	1:1	-0.05	1860.00	26140	0.0	22.0	20.67	100	0	Back	10	0.880	1.058	1.209	1.209	1.280	0.842		21.2		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	-0.05	1860.00	26140	0.0	22.0	20.66	1	50	Top	13	0.930	1.034	1.254	1.254	1.387	0.793		21.3		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	0.00	1860.00	26140	0.0	22.0	20.73	50	0	Bottom	0	0.916	1.040	1.021	1.021	1.021	0.804		21.3		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	-0.05	1860.00	26140	0.0	22.0	20.73	50	0	Bottom	0	0.916	1.040	1.021	1.021	1.021	0.804		21.3		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	-0.02	1860.00	26140	0.0	22.0	20.75	1	50	Right	0	0.877	1.034	1.103	1.103	1.213	0.758		21.3		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	-0.02	1862.00	26140	0.0	22.0	20.66	1	0	Right	0	0.881	1.061	1.147	1.147	1.262	0.789		21.4		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	0.10	1905.00	26590	0.0	22.0	20.69	1	0	Right	0	0.815	1.052	1.102	1.102	1.212	0.738		21.5		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	-0.02	1860.00	26140	0.0	22.0	20.73	50	0	Right	0	0.893	1.040	1.073	1.073	1.189	0.786		21.5		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	-0.05	1862.00	26140	0.0	22.0	20.68	50	25	Right	0	0.893	1.051	1.158	1.158	1.274	0.796		21.5		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	-0.02	1905.00	26590	0.0	22.0	20.67	50	25	Right	0	0.763	1.018	1.036	1.036	1.140	0.713		21.6		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	-0.05	1860.00	26140	0.0	22.0	20.67	100	0	Right	0	0.795	1.058	1.080	1.080	1.198	0.743		21.6		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	-0.01	1860.00	26140	0.0	22.0	20.75	1	50	Left	0	0.133	1.034	1.034	1.034	1.204	0.814		21.6		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	-0.05	1860.00	26140	0.0	22.0	20.73	50	0	Left	0	0.136	1.040	1.209	1.209	1.220	0.844		21.7		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-64

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 (Eq SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	RFSP Plimit [dBm]
Body	LTE Band 25	20	QPSK	G	0328M	1:1	0.08	1860.00	26140	0.0	11.5	10.36	1	50	Back	0	0.531	1.300	0.690	0.690	0.709	0.474		13.1		
Body	LTE Band 25	20	QPSK	G	0328M	1:1	-0.01	1860.00	26140	0.0	11.5	10.43	50	0	Back	0	0.512	1.279	0.655	0.655	0.721	0.450		13.2		
Body	LTE Band 25	20	QPSK	G	0328M	1:1	-0.05	1860.00	26140	0.0	11.5	10.36	1	50	Back	0	0.517	1.300	0.652	0.652	1.068	0.582		13.2		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	0.14	1882.00	26365	0.0	11.5	10.09	1	0	Top	0	0.803	1.087	1.112	1.112	1.223	0.765		11.0		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	-0.02	1860.00	26140	0.0	11.5	10.43	50	0	Top	0	0.529	1.304	0.659	0.659	0.709	0.474		11.0		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	-0.17	1860.00	26140	0.0	11.5	10.43	50	0	Top	0	0.515	1.279	0.648	0.648	1.055	0.573		11.2		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	-0.02	1862.00	26365	0.0	11.5	10.26	50	0	Top	0	0.807	1.039	1.073	1.073	1.180	0.738		11.1		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	-0.05	1860.00	26140	0.0	11.5	10.36	100	0	Top	0	0.795	1.058	1.073	1.073	1.080	0.717		11.2		
Body	LTE Band 25	20	QPSK	G	0311M	1:1	0.00	1860.00	26140	0.0	11.5	10.32	100	0	Top	0	0.806	1.012	1.050	1.050	1.155	0.672		11.2		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram									

12.11 LTE Band 41 Standalone SAR

Table 12-65

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 (Eq SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	RFSP Plimit [dBm]
Head	LTE Band 41	20	QPSK	B	0320M	1:1.58	0.08	2636.50	41055	0.0	25.0	23.59	1	0	Right Cheek	0	0.013	1.262	0.016	0.016	0.248	0.155		40.8		
Head	LTE Band 41	20	QPSK	B	0320M	1:1.58	-0.08	2636.50	41055	1.0	24.0	23.02	50	0	Right Cheek	0	0.008	1.251	0.013	0.013	0.239	0.149		41.0		
Head	LTE Band 41	20	QPSK	B	0320M	1:1.58	0.07	2636.50	41055	0.0	25.0	23.59	1	0	Right Tilt	0	0.008	1.262	0.023	0.023	0.344	0.215		39.4		
Head	LTE Band 41	20	QPSK	B	0320M	1:1.58	-0.05	2636.50	41055	0.0	25.0	23.59	50	0	Right Tilt	0	0.008	1.251	0.020	0.020	0.310	0.194		39.4		
Head	LTE Band 41	20	QPSK	B	0320M	1:1.58	0.03	2636.50	41055	1.0	24.0	23.02	50	0	Right Tilt	0	0.001	1.251	0.014	0.014	0.263	0.164		40.6		
Head	LTE Band 41	20	QPSK	B	0320M	1:1.58	-0.11	2636.50	41055	0.0	25.0	23.59	1	0	Left Cheek	0	0.013	1.262	0.014	0.014	0.210	0.131		41.5		
Head	LTE Band 41	20	QPSK	B	0320M	1:1.58	0.07	2636.50	41055	1.0	24.0	23.02	50	0	Left Cheek	0	0.006	1.258	0.011	0.011	0.214	0.134		41.4		
Head	LTE Band 41	20	QPSK	B	0320M	1:1.58	-0.05	2636.50	41055	0.0	25.0	23.59	1	0	Left Tilt	0	0.006	1.262	0.008	0.008	0.115	0.072		44.2		
Head	LTE Band 41	20	QPSK	B	0320M	1:1.58	0.03	2636.50	41055	1.0	24.0	23.02	50	0	Left Tilt	0	0.004	1.252	0.005	0.005	0.090	0.060		45.0		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Green entry represents HPLC measurement

Table 12-66| Plot A31

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 (Eq SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	RFSP Plimit [dBm]											
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2596.00	39750	0.0	19.0	17.46	1	50	Right Cheek	0	0.457	1.426	0.652	0.652	0.717	0.449		18.8													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.01	2596.00	40285	0.0	19.0	17.56	1	50	Right Cheek	0	0.501	1.393	0.658	0.658	0.708	0.440		18.5													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.01	2593.00	40630	0.0	19.0	17.40	1	0	Right Cheek	0	0.547	1.442	0.790	0.790	0.809	0.543		18.0													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2636.50	41055	0.0	19.0	17.54	1	0	Right Cheek	0	0.473	1.400	0.662	0.662	0.728	0.455		18.8													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2680.00	41490	0.0	19.0	17.80	1	50	Right Cheek	0	0.474	1.518	0.625	0.625	0.688	0.439		19.0													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2596.00	39750	0.0	19.0	17.52	50	25	Right Cheek	0	0.461	1.406	0.648	0.648	0.713	0.446		18.8													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.01	2596.00	40285	0.0	19.0	17.56	50	25	Right Cheek	0	0.515	1.400	0.661	0.661	0.699	0.447		18.5													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.05	2593.00	40630	0.0	19.0	17.58	50	0	Right Cheek	0	0.547	1.387	0.790	0.790	0.835	0.521		18.2													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2636.50	41055	0.0	19.0	17.57	50	25	Right Cheek	0	0.471	1.584	0.640	0.640	0.704	0.440		18.0													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2680.00	41490	0.0	19.0	17.81	50	0	Right Cheek	0	0.492	1.515	0.647	0.647	0.712	0.444		18.8													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2596.00	39750	0.0	19.0	17.52	50	0	Right Cheek	0	0.461	1.406	0.648	0.648	0.713	0.446		18.8													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2596.00	39750	0.0	19.0	17.48	1	50	Right Cheek	0	0.521	1.426	0.814	0.814	0.895	0.600		17.9													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.01	2596.00	40285	0.0	19.0	17.56	50	0	Right Cheek	0	0.547	1.387	0.790	0.790	0.835	0.521		18.2													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.07	2593.00	40630	0.0	19.0	17.54	1	0	Right Cheek	0	0.600	1.445	0.954	0.954	1.009	0.656		17.2													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.01	2636.50	41055	0.0	19.0	17.47	1	0	Right Cheek	0	0.615	1.400	0.861	0.861	0.947	0.592		17.6													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2680.00	41490	0.0	19.0	17.80	50	0	Right Cheek	0	0.627	1.518	0.869	0.869	0.940	0.600		17.9													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2596.00	39750	0.0	19.0	17.52	50	25	Right Cheek	0	0.578	1.406	0.813	0.813	0.894	0.559		17.9													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2636.50	41055	0.0	19.0	17.47	1	0	Right Cheek	0	0.544	1.406	0.867	0.867	0.940	0.592		17.6													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.02	2593.00	40630	0.0	19.0	17.58	50	0	Right Cheek	0	0.682	1.387	0.946	0.946	1.004	0.650		17.2													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2636.50	41055	0.0	19.0	17.57	50	25	Right Cheek	0	0.625	1.508	0.849	0.849	0.954	0.584		17.7													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.01	2680.00	41490	0.0	19.0	17.80	50	0	Right Cheek	0	0.635	1.515	0.866	0.866	0.940	0.600		18.1													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.01	2680.00	41490	0.0	19.0	17.79	50	0	Right Cheek	0	0.709	1.321	0.937	0.937	1.031	0.645		17.7													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2680.00	41490	0.0	19.0	17.80	1	50	Left Cheek	0	0.450	1.518	0.554	0.554	0.609	0.381		19.5													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2680.00	41490	0.0	19.0	17.80	1	50	Left Cheek	0	0.450	1.518	0.554	0.554	0.609	0.381		19.5													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.01	2596.00	39750	0.0	19.0	17.46	1	50	Left Cheek	0	0.667	1.428	0.951	0.951	1.006	0.653		17.7													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.08	2549.50	40485	0.0	19.0	17.56	50	0	Left Cheek	0	0.687	1.351	0.857	0.857	0.953	0.558		17.2													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.01	2593.00	40630	0.0	19.0	17.55	1	0	Left Cheek	0	0.777	1.445	1.123	1.123	1.235	0.772		16.5													
Head	LTE Band 41	20	QPSK	G	0311M	1:2.31	-0.12	2593.00	40630	0.0	20.8	19.35	1	0	Left Cheek	0	0.804	1.344	1.073	1.073	1.200	0.738		16.0													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.01	2636.50	41055	0.0	19.0	17.44	1	0	Left Cheek	0	0.691	1.428	0.929	0.929	1.000	0.645		17.0													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.01	2680.00	41490	0.0	19.0	17.80	1	0	Left Cheek	0	0.695	1.518	0.916	0.916	1.028	0.630		17.3													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.00	2596.00	39750	0.0	19.0	17.52	50	0	Left Cheek	0	0.691	1.406	0.916	0.916	0.986	0.552		17.3													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.02	2549.50	40485	0.0	19.0	17.59	50	20	Left Cheek	0	0.709	1.348	0.981	0.981	1.079	0.674		17.0													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.01	2593.00	40630	0.0	19.0	17.58	50	0	Left Cheek	0	0.778	1.387	1.079	1.079	1.178	0.745		16.8													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.02	2636.50	41055	0.0	19.0	17.67	50	20	Left Cheek	0	0.797	1.358	1.097	1.097	1.199	0.688		17.0													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.01	2680.00	41490	0.0	19.0	17.81	50	0	Left Cheek	0	0.779	1.515	0.893	0.893	0.982	0.614		17.5													
Head	LTE Band 41	20	QPSK	G	0311M	1:1.58	-0.01	2680.00	41490	0.0	19.0	17.79	50	0	Left Cheek	0	0.804	1.321	0.904	0.904	0.994	0.622		17.4													
AND/VELOC 3G+ LTE+ SAFETY Linc										Head																											
Spatial Peak										1.6 W/kg (mW/g)																											
Uncontrolled/Controlled General Population																								averaged over 16 cm													



Table 12-67

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [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 (Eq SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	RF Plimit [dBm]
Body worn/Hotspot	LTE Band 41	20	QPSK	B	031204	1:1.58	-0.01	2680.00	41490	0.0	20.5	19.82	1	0	Back	5	0.369	1.169	0.431	0.431	0.474	0.296	22.1			
Body worn/Hotspot	LTE Band 41	20	QPSK	B	031204	1:1.58	-0.02	2680.00	41490	0.0	20.5	19.75	50	0	Back	5	0.381	1.189	0.455	0.455	0.501	0.312	21.9			
Body worn/Hotspot	LTE Band 41	20	QPSK	B	031204	1:3.31	-0.01	2680.00	41490	0.0	22.1	21.32	50	0	Back	5	0.392	1.197	0.460	0.460	0.516	0.322	21.7			
Body worn/Hotspot	LTE Band 41	20	QPSK	B	031204	1:1.58	-0.01	2680.00	41490	0.0	20.5	19.82	1	0	Front	5	0.077	1.169	0.090	0.090	0.099	0.062	28.9			
Body worn/Hotspot	LTE Band 41	20	QPSK	B	031204	1:1.58	-0.01	2680.00	41490	0.0	20.5	19.75	50	0	Front	5	0.080	1.189	0.095	0.095	0.105	0.065	28.5			
Hotspot	LTE Band 41	20	QPSK	B	031204	1:1.58	-0.01	2680.00	41490	0.0	20.5	19.82	1	0	Bottom	10	0.171	1.089	0.200	0.200	0.220	0.138	25.5		21.7	
Hotspot	LTE Band 41	20	QPSK	B	031204	1:1.58	-0.01	2680.00	41490	0.0	20.5	19.75	50	0	Bottom	10	0.176	1.089	0.209	0.209	0.230	0.144	25.3			
Hotspot	LTE Band 41	20	QPSK	B	031204	1:1.58	-0.02	2680.00	41490	0.0	20.5	19.82	1	0	Left	10	0.054	1.189	0.056	0.056	0.068	0.031	36.3			
Hotspot	LTE Band 41	20	QPSK	B	031204	1:1.58	-0.01	2680.00	41490	0.0	20.5	19.75	50	0	Left	10	0.055	1.189	0.058	0.058	0.070	0.042	36.0			
ANSI/IEEE C63.19-2019: Specific Limit																	Body									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/Safety Limit																	averaged over 1 gram									

Note: Green entry represents HPUE measurement

Table 12-68| Plot A32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [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 (Eq SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	RF Plimit [dBm]
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.13	2506.00	39750	0.0	19.5	18.96	1	0	Back	5	0.604	1.132	0.752	0.752	0.827	0.517	18.2			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.02	2549.50	40185	0.0	19.5	19.11	1	50	Back	5	0.705	1.094	0.771	0.771	0.848	0.530	18.6			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.02	2393.00	40620	0.0	19.5	19.08	1	50	Back	5	0.640	1.102	0.715	0.715	0.787	0.492	18.9			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.01	2336.50	41055	0.0	19.5	19.15	1	50	Back	5	0.605	1.132	0.679	0.679	0.747	0.466	19.1			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.10	2480.00	41490	0.0	19.5	19.35	1	50	Back	5	0.603	1.035	0.717	0.717	0.789	0.493	18.9			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.01	2506.00	41550	0.0	19.5	19.15	50	25	Back	5	0.611	1.112	0.724	0.724	0.796	0.498	19.2			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.05	2549.50	42085	0.0	19.5	19.16	50	50	Back	5	0.717	1.081	0.775	0.775	0.853	0.532	18.6			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:3.31	-0.05	2549.50	42085	0.0	21.1	20.92	50	50	Back	5	0.767	1.042	0.799	0.799	0.879	0.549	18.4			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.01	2506.00	42330	0.0	19.5	19.17	50	0	Back	5	0.611	1.079	0.722	0.722	0.794	0.495	18.9			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.01	2636.50	41055	0.0	19.5	19.16	50	0	Back	5	0.601	1.072	0.676	0.676	0.744	0.465	19.2			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.02	2480.00	41490	0.0	19.5	19.30	50	25	Back	5	0.726	1.033	0.729	0.729	0.802	0.502	18.7			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.01	2480.00	41490	0.0	19.5	19.11	50	0	Back	5	0.647	1.047	0.647	0.647	0.716	0.476	19.1			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.02	2480.00	41490	0.0	19.5	19.35	1	50	Front	5	0.610	1.035	0.614	0.614	0.625	0.478	20.6			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.01	2480.00	41490	0.0	19.5	19.35	50	25	Front	5	0.613	1.033	0.617	0.617	0.629	0.480	20.8			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.01	2480.00	41490	0.0	19.5	19.35	50	25	Front	5	0.609	1.035	0.620	0.620	0.635	0.483	20.8			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.01	2480.00	41490	0.0	19.5	19.35	50	25	Top	10	0.449	1.033	0.464	0.464	0.510	0.319	20.9			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.10	2480.00	41490	0.0	19.5	19.35	1	50	Right	10	0.602	1.033	0.603	0.603	0.650	0.423	21.3			
Body worn/Hotspot	LTE Band 41	20	QPSK	G	031194	1:1.58	-0.13	2480.00	41490	0.0	19.5	19.35	1	50	Right	10	0.601	1.033	0.603	0.603	0.655	0.422	21.4			
AND/SEE CTS 1.1902 - SAFETY LIMIT																										
SAR Peak																										
Uncontrolled Exposures/General Population																										
1.6 W/kg (avg) averaged over 1 gram																										



Table 12-71| Plot A33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfM [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 #	Plot # [dBm]	Overall Plot # [dBm]	RF Plot # [dBm]
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2506.00	39750	0.0	11.5	10.25	1	50	Back	0	0.583	1.034	0.778	0.778	0.856	0.935		10.6		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2549.50	41035	0.0	11.5	10.40	1	50	Back	0	0.628	1.068	0.806	0.806	0.887	0.954		10.4		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2593.00	42620	0.0	11.5	10.32	1	0	Back	0	0.709	1.012	0.995	0.995	1.096	0.885		9.5		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2636.50	41035	0.0	11.5	10.34	1	0	Back	0	0.752	1.006	0.982	0.982	1.080	0.875		9.5		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2680.00	41490	0.0	11.5	10.55	1	50	Back	0	0.825	1.045	0.940	0.940	0.924	0.978		10.2		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.00	2506.00	39750	0.0	11.5	10.35	50	58	Back	0	0.693	1.303	0.785	0.785	0.885	0.940		10.5		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2549.50	41035	0.0	11.5	10.51	50	25	Back	0	0.652	1.058	0.794	0.794	0.872	0.946		10.5		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.00	2593.00	42620	0.0	11.5	10.41	50	0	Back	0	0.775	1.085	0.996	0.996	1.096	0.885		9.5		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2636.50	41035	0.0	11.5	10.44	50	0	Back	0	0.759	1.076	0.968	0.968	1.065	0.866		9.6		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2680.00	41490	0.0	11.5	10.56	50	0	Back	0	0.820	1.043	0.872	0.872	0.899	0.900		10.1		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.00	2680.00	41490	0.0	11.5	10.52	100	0	Back	0	0.638	1.023	0.799	0.799	0.879	0.949		10.4		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2506.00	39750	0.0	11.5	10.25	1	50	Top	0	0.602	1.034	0.803	0.803	0.883	0.952		10.4		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.00	2549.50	41035	0.0	11.5	10.40	1	50	Top	0	0.624	1.088	0.804	0.804	0.884	0.953		10.4		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2593.00	42620	0.0	11.5	10.32	1	0	Top	0	0.686	1.012	1.136	1.136	1.250	0.781		8.9		
Body	LTE Band 41	20	QPSK	G	0519M	1:2.31	-0.01	2593.00	42620	0.0	11.5	10.32	1	0	Top	0	0.687	1.012	1.092	1.092	1.205	0.791		9.0		
Body	LTE Band 41	20	QPSK	G	0519M	1:2.31	-0.00	2593.00	42620	0.0	11.5	10.08	1	0	Top	0	0.673	1.062	1.102	1.102	1.212	0.798	Plot	9.0		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.00	2636.50	41035	0.0	11.5	10.34	1	0	Top	0	0.649	1.006	1.097	1.097	1.207	0.795		9.1		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2680.00	41490	0.0	11.5	10.55	1	50	Top	0	0.814	1.045	1.038	1.038	1.162	0.714		9.3		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.00	2506.00	39750	0.0	11.5	10.35	50	58	Top	0	0.618	1.303	0.803	0.803	0.883	0.952		10.4		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2549.50	41035	0.0	11.5	10.51	50	25	Top	0	0.619	1.058	0.777	0.777	0.855	0.935		10.6		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2593.00	42620	0.0	11.5	10.41	50	0	Top	0	0.871	1.085	1.119	1.119	1.231	0.789		9.0		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2636.50	41035	0.0	11.5	10.44	50	0	Top	0	0.857	1.076	1.068	1.068	1.175	0.785		9.2		
Body	LTE Band 41	20	QPSK	G	0519M	1:1.58	-0.01	2680.00	41490	0.0	11.5	10.56	50	0	Top	0	0.863	1.043	1.035	1.035	1.199	0.713		9.3		
Body	LTE Band 41	20	QPSK	G	0511M	1:1.58	-0.01	2680.00	41490	0.0	11.5	10.52	100	0	Top	0	0.883	1.023	1.004	1.004	1.104	0.691		9.5		
ANSI/IEEE C63.5 1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Blue entry represents variability measurement
Note: Green entry represents HPUE measurement

FCC ID: A3LSMF966B	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
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12.12 NR Band n71 Standalone SAR

Table 12-72

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1min [dBm]	Overall P1min [dBm]	EPS P1min [dBm]
Head	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.16	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Right Cheek	0	0	0.111	1.365	0.152	0.169	0.169	25.4			33.1
Head	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.34	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	1	49	Right Cheek	0	0	0.107	1.318	0.141	0.149	0.149	33.1			
Head	NR Band n71	35	QPSK	A+L	0557M	1:1	0.09	680.50	136100	CP-OFDM	1.5	23.5	22.20	1	1	Right Cheek	0	0	0.079	1.349	0.107	0.106	0.106	33.2			
Head	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.05	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	90	1	Right Tr	0	0	0.101	1.365	0.059	0.148	0.148	37.0			
Head	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.14	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	1	1	Left Cheek	0	0	0.101	1.365	0.097	0.117	0.117	35.4			
Head	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.08	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	1	49	Left Cheek	0	0	0.097	1.318	0.101	0.105	0.105	34.3			
Head	NR Band n71	35	QPSK	A+L	0557M	1:1	0.09	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Left Tr	0	0	0.047	1.365	0.064	0.120	0.120	36.0			
Head	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.07	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	90	49	Left Tr	0	0	0.099	1.318	0.085	0.111	0.111	36.1			
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 12-73

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1min [dBm]	Overall P1min [dBm]	EPS P1min [dBm]
Head	NR Band n71	35	QPSK	A	0120M	1:1	-0.10	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Right Cheek	0	63	0.098	1.365	0.094	0.166	0.166	35.2			
Head	NR Band n71	35	QPSK	A	0120M	1:1	-0.01	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	90	49	Right Cheek	0	63	0.095	1.318	0.086	0.133	0.133	35.4			
Head	NR Band n71	35	QPSK	A	0120M	1:1	0.03	680.50	136100	CP-OFDM	1.5	23.5	22.20	1	1	Right Cheek	0	63	0.046	1.349	0.051	0.134	0.134	35.0			
Head	NR Band n71	35	QPSK	A	0120M	1:1	-0.09	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	90	49	Right Tr	0	63	0.095	1.318	0.086	0.133	0.133	35.4			
Head	NR Band n71	35	QPSK	A	0120M	1:1	0.06	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	90	49	Right Tr	0	63	0.094	1.318	0.045	0.174	0.174	38.0			
Head	NR Band n71	35	QPSK	A	0120M	1:1	0.08	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Left Cheek	0	63	0.098	1.365	0.079	0.108	0.108	36.4			
Head	NR Band n71	35	QPSK	A	0120M	1:1	-0.09	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	90	49	Left Cheek	0	63	0.095	1.318	0.067	0.164	0.164	36.1			
Head	NR Band n71	35	QPSK	A	0120M	1:1	0.14	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Left Tr	0	63	0.031	1.365	0.042	0.165	0.165	38.7			
Head	NR Band n71	35	QPSK	A	0120M	1:1	0.07	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	90	49	Left Tr	0	63	0.091	1.318	0.040	0.154	0.154	36.0			
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 12-74| Plot A34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1min [dBm]	Overall P1min [dBm]	EPS P1min [dBm]
Head	NR Band n71	35	QPSK	E	0557M	1:1	-0.14	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Right Cheek	0	0.121	1.371	0.166	0.525	0.126		32.8		
Head	NR Band n71	35	QPSK	E	0557M	1:1	0.03	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.35	90	49	Right Cheek	0	0.118	1.462	0.173	0.546	0.141		32.6		
Head	NR Band n71	35	QPSK	E	0557M	1:1	0.03	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Right Tr	0	0.106	1.371	0.145	0.400	0.288		33.3		
Head	NR Band n71	35	QPSK	E	0557M	1:1	-0.01	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.35	90	49	Right Tr	0	0.103	1.462	0.155	0.400	0.376		33.0		
Head	NR Band n71	35	QPSK	E	0557M	1:1	-0.11	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Left Cheek	0	0.212	1.371	0.291	0.610	0.174		30.3		
Head	NR Band n71	35	QPSK	E	0557M	1:1	-0.02	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.35	90	49	Left Cheek	0	0.209	1.462	0.316	0.624	0.154	Plot #	30.0		
Head	NR Band n71	35	QPSK	E	0557M	1:1	0.03	680.50	136100	CP-OFDM	1.5	23.5	22.45	1	1	Left Cheek	0	0.109	1.395	0.204	0.613	0.573		30.3		
Head	NR Band n71	35	QPSK	E	0557M	1:1	0.00	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Left Tr	0	0.212	1.371	0.291	0.609	0.174		30.3		
Head	NR Band n71	35	QPSK	E	0557M	1:1	0.00	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.35	90	49	Left Tr	0	0.214	1.462	0.313	0.600	0.619		30.0		
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																				Head						
Uncontrolled Exposure/General Population																				1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-75| Plot A35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1min [dBm]	Overall P1min [dBm]	EPS P1min [dBm]	
Body-worn/Hotspot	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.10	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Back	5	13	0.441	1.365	0.878	0.984	0.915	Plot	25.5			
Body-worn/Hotspot	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.04	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	90	49	Back	5	13	0.411	1.318	0.805	0.904	0.866	25.9				
Body-worn/Hotspot	NR Band n71	35	QPSK	A+L	0557M	1:1	0.00	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	90	49	Back	5	13	0.406	1.365	0.888	0.977	0.917	25.8				
Body-worn/Hotspot	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.14	680.50	136100	CP-OFDM	1.5	23.5	22.20	1	1	Back	5	13	0.427	1.349	0.776	0.913	0.911	25.8				
Body-worn/Hotspot	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.07	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Front	5	10	0.419	1.365	0.872	0.919	0.921	25.1				
Body-worn/Hotspot	NR Band n71	35	QPSK	A+L	0557M	1:1	0.06	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	90	49	Front	5	10	0.433	1.318	0.812	0.917	0.877	25.1			25.1	
Hotspot	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.07	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Bottom	10	13	0.472	1.365	0.922	0.971	0.919		27.8			
Hotspot	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.07	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Bottom	10	13	0.472	1.365	0.922	0.971	0.919		27.8			
Hotspot	NR Band n71	35	QPSK	A+L	0557M	1:1	0.00	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	90	49	Bottom	10	13	0.406	1.365	0.888	0.977	0.917		27.8			
Hotspot	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.04	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	1	1	Right	10	108	0.328	1.365	0.457	0.513	0.511		27.1			
Hotspot	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.07	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Right	10	108	0.388	1.318	0.466	0.515	0.512		27.9			
Hotspot	NR Band n71	35	QPSK	A+L	0557M	1:1	-0.07	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.65	1	1	Right	10	108	0.388	1.365	0.466	0.515	0.512		27.9			
Hotspot	NR Band n71	35	QPSK	A+L	0557M	1:1	0.00	680.50	136100	DFT+CP-OFDM	0.0	25.0	23.80	90	49	Left	10	108	0.331	1.318	0.449	0.507	0.504		28.2			
POWERED ON: 12:00 PM, LAST: 1:00 PM																			Body									
Unattended Exposure/General Population																			1.6 W/kg (mW/g) averaged over 1 gram									
SAR Limit: 2.0 W/kg (mW/g) averaged over 10 grams																												



Table 12-78

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [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 (%)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]
Body	NR Band n71	35	QPSK	A+C	0348M	1:1	-0.00	680.50	136100	DFT+OFDM	0.0	19.5	18.09	1	1	Back	0	1	0.909	1.364	0.908	0.908	1.004	0.908		10.6		
Body	NR Band n71	35	QPSK	A+C	0348M	1:1	-0.01	680.50	136100	DFT+OFDM	0.0	19.5	18.24	50	49	Back	0	1	0.909	1.337	0.916	0.916	0.898	0.898		20.3		
Body	NR Band n71	35	QPSK	A+C	0348M	1:1	-0.00	680.50	136100	DFT+OFDM	0.0	19.5	17.89	180	0	Back	0	1	0.909	1.429	0.937	0.937	0.901	0.901		20.2		
Body	NR Band n71	35	QPSK	A+C	0348M	1:1	-0.04	680.50	136100	CP-OFDM	0.0	19.5	18.77	1	1	Back	0	2	0.909	1.327	0.747	0.747	0.820	0.820		20.7		
Body	NR Band n71	35	QPSK	A+C	0348M	1:1	-0.00	680.50	136100	DFT+OFDM	0.0	19.5	18.09	5	1	Top	0	5	0.909	1.384	0.628	0.628	0.901	0.901		18.9		
Body	NR Band n71	35	QPSK	A+C	0348M	1:1	-0.01	680.50	136100	DFT+OFDM	0.0	19.5	18.24	50	49	Top	0	5	0.909	1.337	0.902	0.902	0.901	0.901		18.6		
Body	NR Band n71	35	QPSK	A+C	0348M	1:1	-0.06	680.50	136100	DFT+OFDM	0.0	19.5	18.09	1	1	Bottom	0	4	0.909	1.384	0.774	0.774	0.851	0.851		20.6		
Body	NR Band n71	35	QPSK	A+C	0348M	1:1	-0.00	680.50	136100	DFT+OFDM	0.0	19.5	18.09	50	49	Bottom	0	4	0.909	1.337	0.662	0.662	0.729	0.729		20.2		
Body	NR Band n71	35	QPSK	A+C	0348M	1:1	-0.00	680.50	136100	DFT+OFDM	0.0	19.5	18.09	50	49	Right	0	108	0.909	1.384	0.919	0.919	1.001	0.901		19.8		
Body	NR Band n71	35	QPSK	A+C	0348M	1:1	-0.01	680.50	136100	DFT+OFDM	0.0	19.5	18.24	50	49	Right	0	108	0.909	1.337	0.729	0.729	0.901	0.901		20.8		
Body	NR Band n71	35	QPSK	A+C	0348M	1:1	-0.01	680.50	136100	DFT+OFDM	0.0	19.5	17.89	180	0	Right	0	38	0.909	1.429	0.819	0.819	0.901	0.901		20.3		
Body	NR Band n71	35	QPSK	A+C	0348M	1:1	-0.00	680.50	136100	DFT+OFDM	0.0	19.5	18.09	1	1	Left	0	5	0.909	1.384	0.625	0.625	0.901	0.901		18.5		
Body	NR Band n71	35	QPSK	A+C	0348M	1:1	-0.01	680.50	136100	DFT+OFDM	0.0	19.5	18.24	50	49	Left	0	5	0.909	1.337	0.905	0.905	0.901	0.901		18.4		
ANSI/IEEE C63.1-1987 - SAFETY LIMIT																			Body		1.6 W/kg (mW/g)							
Spatial Peak																												
Uncontrolled Exposure/General Population																												

Table 12-79| Plot A36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [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]	EFS PLimit [dBm]
Body	NR Band n71	35	QPSK	E	03517M	1:1	-0.12	680.50	136100	DFT+OFDM	0.0	19.5	18.16	1	1	Back	0	0	0.909	1.335	0.867	0.867	0.961	0.961		20.1		
Body	NR Band n71	35	QPSK	E	03517M	1:1	-0.00	680.50	136100	DFT+OFDM	0.0	19.5	18.16	50	49	Back	0	0	0.909	1.305	0.905	0.905	1.002	0.901		19.6		
Body	NR Band n71	35	QPSK	E	03517M	1:1	-0.07	680.50	136100	DFT+OFDM	0.0	19.5	18.15	180	0	Back	0	0	0.909	1.365	0.977	0.977	1.075	0.975		19.6		
Body	NR Band n71	35	QPSK	E	03517M	1:1	-0.11	680.50	136100	CP-OFDM	0.0	19.5	18.71	1	1	Top	0	0	0.909	1.353	1.360	1.360	1.254	0.901		19.9		
Body	NR Band n71	35	QPSK	E	03517M	1:1	-0.00	680.50	136100	DFT+OFDM	0.0	19.5	18.16	50	49	Top	0	0	0.909	1.305	1.127	1.127	1.249	0.974		18.9		
Body	NR Band n71	35	QPSK	E	03517M	1:1	-0.00	680.50	136100	DFT+OFDM	0.0	19.5	18.16	50	49	Top	0	0	0.909	1.305	1.204	1.204	1.240	0.901		18.8		
Body	NR Band n71	35	QPSK	E	03517M	1:1	-0.18	680.50	136100	CP-OFDM	0.0	19.5	18.16	1	1	Top	0	0	0.909	1.276	1.008	1.008	1.208	0.755	Plot	19.0		
Body	NR Band n71	35	QPSK	E	03517M	1:1	-0.14	680.50	136100	DFT+OFDM	0.0	19.5	18.16	50	49	Bottom	0	0	0.909	1.335	0.912	0.912	0.901	0.901		18.7		
Body	NR Band n71	35	QPSK	E	03517M	1:1	-0.00	680.50	136100	DFT+OFDM	0.0	19.5	18.16	50	49	Bottom	0	0	0.909	1.305	0.902	0.902	0.901	0.901		18.6		
Body	NR Band n71	35	QPSK	E	03517M	1:1	-0.01	680.50	136100	DFT+OFDM	0.0	19.5	18.15	1	1	Right	0	0	0.909	1.325	1.057	1.057	1.165	0.927		19.2		
Body	NR Band n71	35	QPSK	E	03517M	1:1	-0.06	680.50	136100	DFT+OFDM	0.0	19.5	18.16	50	49	Right	0	0	0.909	1.295	1.008	1.008	1.209	0.901		19.4		
Body	NR Band n71	35	QPSK	E	03517M	1:1	-0.01	680.50	136100	DFT+OFDM	0.0	19.5	18.15	180	0	Right	0	0	0.909	1.365	0.984	0.984	1.091	0.901		19.5		
Body	NR Band n71	35	QPSK	E	03517M	1:1	-0.00	680.50	136100	DFT+OFDM	0.0	19.5	18.16	50	49	Left	0	0	0.909	1.305	0.901	0.901	0.901	0.901		18.6		
Body	NR Band n71	35	QPSK	E	03517M	1:1	-0.01	680.50	136100	DFT+OFDM	0.0	19.5	18.16	50	49	Left	0	0	0.909	1.305	0.906	0.906	0.901	0.901		17.3		
ANSI/IEEE C63.1-1987 - SAFETY LIMIT																			Body		1.6 W/kg (mW/g)		averaged over 1 gram					
Spatial Peak																												
Uncontrolled Exposure/General Population																												

12.13 NR Band n5 Standalone SAR

Table 12-80

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EFS PLimit [dBm]
Head	NR Band n5	20	QPSK	A+C	03517M	1:1	-0.12	836.50	167300	DFT+OFDM	0.0	25.0	23.98	1	53	Right Cheek	0	108	0.108	1.265	0.117	0.163	0.285		33.6		
Head	NR Band n5	20	QPSK	A+C	03517M	1:1	-0.00	836.50	167300	DFT+OFDM	0.0	25.0	24.03	50	28	Right Cheek	0	108	0.125	1.250	0.116	0.130	0.131		33.0		
Head	NR Band n5	20	QPSK	A+C	03517M	1:1	-0.00	836.50	167300	CP-OFDM	0.0	25.0	23.98	1	53	Right Cheek	0	108	0.098	1.275	0.111	0.129	0.131		33.0		
Head	NR Band n5	20	QPSK	A+C	03517M	1:1	-0.18	836.50	167300	DFT+OFDM	0.0	25.0	23.98	1	53	Right Tib	0	108	0.046	1.265	0.038	0.097	0.123		37.1		
Head	NR Band n5	20	QPSK	A+C	03517M	1:1	-0.00	836.50	167300	DFT+OFDM	0.0	25.0	24.03	50	28	Right Tib	0	108	0.049	1.250	0.061	0.208	0.109		37.1		
Head	NR Band n5	20	QPSK	A+C	03517M	1:1	-0.06	836.50	167300	DFT+OFDM	0.0	25.0	23.98	1	53	Left Tib	0	108	0.077	1.265	0.077	0.300	0.206		35.1		
Head	NR Band n5	20	QPSK	A+C	03517M	1:1	-0.06	836.50	167300	DFT+OFDM	0.0	25.0	24.03	50	28	Left Cheek	0	108	0.068	1.250	0.085	0.288	0.180		35.7		
Head	NR Band n5	20	QPSK	A+C	03517M	1:1	-0.00	836.50	167300	DFT+OFDM	0.0	25.0	24.03	50	28	Left Tib	0	108	0.061	1.265	0.077	0.261	0.163		36.1		
Head	NR Band n5	20	QPSK	A+C	03517M	1:1	-0.00	836.50	167300	DFT+OFDM	0.0	25.0	24.03	50	28	Left Tib	0	108	0.062	1.250	0.078	0.263	0.164		36.1		
ANSI/IEEE C63.1-1987 - SAFETY LIMIT																			Head		1.6 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak																											
Uncontrolled Exposure/General Population																											

Table 12-81

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g
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Table 12-83

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pint# [dBm]	Overall Pint# [dBm]	RF Pint# [dBm]
Body-worn/Hotspot	NR Band n5	20	QPSK	A+C	0317M	1:1	-0.16	836.50	167300	DFT-s-OFDM	0.0	25.0	23.38	1	53	Back	5	108	0.568	1.265	0.719	0.592	0.620	26.4			
Body-worn/Hotspot	NR Band n5	20	QPSK	A+C	0317M	1:1	-0.07	836.50	167300	DFT-s-OFDM	0.0	25.0	24.31	50	28	Back	5	108	0.568	1.265	0.719	0.592	0.620	26.4			
Body-worn/Hotspot	NR Band n5	20	QPSK	A+C	0317M	1:1	-0.09	836.50	167300	CP-OFDM	1.5	23.5	22.46	1	1	Back	5	108	0.569	1.271	0.607	0.588	0.618	26.4			
Body-worn/Hotspot	NR Band n5	20	QPSK	A+C	0317M	1:1	-0.16	836.50	167300	DFT-s-OFDM	0.0	25.0	24.36	50	28	Front	5	0	0.568	1.265	0.681	0.520	0.536	26.4			
Body-worn/Hotspot	NR Band n5	20	QPSK	A+C	0317M	1:1	-0.07	836.50	167300	CP-OFDM	1.5	23.5	22.46	1	1	Front	5	0	0.568	1.265	0.583	0.523	0.538	26.4			
Hotspot	NR Band n5	20	QPSK	A+C	0317M	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	25.0	23.88	1	53	Bottom	10	108	0.552	1.265	0.592	0.285	0.365	26.4			
Hotspot	NR Band n5	20	QPSK	A+C	0317M	1:1	-0.11	836.50	167300	DFT-s-OFDM	0.0	25.0	24.31	50	28	Bottom	10	108	0.555	1.250	0.514	0.268	0.348	26.4			
Hotspot	NR Band n5	20	QPSK	A+C	0317M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.0	23.38	1	53	Right	10	0	0.565	1.265	0.335	0.463	0.289	26.4			
Hotspot	NR Band n5	20	QPSK	A+C	0317M	1:1	-0.07	836.50	167300	DFT-s-OFDM	0.0	25.0	23.38	1	53	Left	10	0	0.574	1.265	0.094	0.129	0.081	26.4			
Hotspot	NR Band n5	20	QPSK	A+C	0317M	1:1	0.05	836.50	167300	DFT-s-OFDM	0.0	25.0	24.03	50	28	Left	10	0	0.578	1.250	0.098	0.135	0.084	26.4			
UNCONTROLLED 1g SAR - SAFETY LIMIT																				Body							
Spatial Peak																				1.6 W/kg (mW/g)							
Spatial Peak																				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 #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pint# [dBm]	Overall Pint# [dBm]	RF Pint# [dBm]
Body-worn/Hotspot	NR Band n5	20	QPSK	A	0317M	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	25.0	23.38	1	53	Back	5	65	0.555	1.265	0.449	0.620	0.389	26.4			
	NR Band n5	20	QPSK	A	0317M	1:1	-0.10	836.50	167300	DFT-s-OFDM	0.0	25.0	24.03	50	28	Back	5	65	0.568	1.250	0.485	0.570	0.419	26.4			
	NR Band n5	20	QPSK	A	0317M	1:1	-0.09	836.50	167300	CP-OFDM	1.5	23.5	22.46	1	1	Back	5	65	0.569	1.271	0.495	0.594	0.421	26.4			
	NR Band n5	20	QPSK	A	0317M	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	25.0	23.38	1	53	Front	5	28	0.555	1.265	0.128	0.176	0.110	26.4			
Body-worn/Hotspot	NR Band n5	20	QPSK	A	0317M	1:1	-0.08	836.50	167300	DFT-s-OFDM	0.0	25.0	23.77	50	28	Bottom	10	108	0.568	1.250	0.249	0.368	0.243	26.4			
	NR Band n5	20	QPSK	A	0319M	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	25.0	23.88	1	53	Bottom	10	108	0.569	1.265	0.049	0.068	0.041	26.4			
	NR Band n5	20	QPSK	A	0319M	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	25.0	24.03	50	28	Bottom	10	108	0.568	1.250	0.049	0.067	0.042	26.4			
	NR Band n5	20	QPSK	A	0319M	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	25.0	23.38	1	53	Right	10	65	0.566	1.265	0.112	0.168	0.105	26.4			
Hotspot	NR Band n5	20	QPSK	A	0317M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	25.0	24.03	50	28	Right	10	65	0.565	1.250	0.126	0.174	0.107	26.4			
ANSI C63.19-1 SAR-TP Limit																				Body							
Spatial Peak																				1.6 W/kg (mW/g)							
Spatial Peak																				averaged over 1 gram							
Uncontrolled Exposure/General Population																											

Table 12-85| Plot A38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pint# [dBm]	Overall Pint# [dBm]	RF Pint# [dBm]
Body-worn/Hotspot	NR Band n5	20	QPSK	E	0317M	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	25.0	23.77	1	1	Back	5	0.447	1.327	0.593	0.877	0.448	27.2			
Body-worn/Hotspot	NR Band n5	20	QPSK	E	0317M	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	25.0	23.87	50	28	Back	5	0.430	1.327	0.674	0.998	0.624	Plot	27.2		
Body-worn/Hotspot	NR Band n5	20	QPSK	E	0317M	1:1	-0.06	836.50	167300	CP-OFDM	1.5	23.5	22.46	1	1	Back	5	0.444	1.361	0.445	0.501	0.376	27.2			
Body-worn/Hotspot	NR Band n5	20	QPSK	E	0317M	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	25.0	23.77	1	1	Front	5	0.449	1.327	0.517	0.592	0.519	27.2			
Body-worn/Hotspot	NR Band n5	20	QPSK	E	0317M	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	25.0	23.87	50	28	Front	5	0.413	1.297	0.147	0.217	0.136	27.2			
Hotspot	NR Band n5	20	QPSK	E	0317M	1:1	-0.08	836.50	167300	DFT-s-OFDM	0.0	25.0	23.77	50	28	Bottom	10	0.439	1.327	0.303	0.520	0.413	27.2			
Hotspot	NR Band n5	20	QPSK	E	0317M	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	25.0	23.87	50	28	Top	10	0.411	1.297	0.144	0.213	0.133	27.2			
Hotspot	NR Band n5	20	QPSK	E	0317M	1:1	-0.17	836.50	167300	DFT-s-OFDM	0.0	25.0	23.77	1	1	Right	10	0.414	1.327	0.096	0.140	0.091	35.0			
Hotspot	NR Band n5	20	QPSK	E	0317M	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	25.0	23.87	50	28	Right	10	0.401	1.297	0.055	0.105	0.097	34.7			
ANSI/IEEE C63.1992 - SAFETY LIMIT																										
Spatial Peak													1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population													averaged over 1 gram													

Table 12-86

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (Max SAR to Test Factor)	Plot #	Pinch [dBm]	Overall Pinch [dBm]	RF Pinch [dBm]
Body	NR Band n5	20	QPSK	Arc	0344M	1:1	-0.08	836.50	167300	DFT-s-OFDM	0.0	25.0	17.89	1	1	Back	0	0	0.861	1.054	0.735	0.720	0.813	20.3			
Body	NR Band n5	20	QPSK	Arc	0344M	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	25.0	17.77	50	28	Back	0	0	0.846	1.057	0.721	0.721	0.769	20.3			
Body	NR Band n5	20	QPSK	Arc	0344M	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	25.0	17.89	1	1	Top	0	0	0.825	1.054	0.628	0.628	0.681	20.3			
Body	NR Band n5	20	QPSK	Arc	0344M	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	25.0	17.89	50	28	Bottom	0	0	0.846	1.057	0.628	0.628	0.681	20.3			
Body	NR Band n5	20	QPSK	Arc	0344M	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	25.0	17.89	1	1	Bottom	0	0	0.846	1.057	0.532	0.532	0.585	20.3			
Body	NR Band n5	20	QPSK	Arc	0344M	1:1	-0.07	836.50	167300	DFT-s-OFDM	0.0	25.0	17.77	50	28	Bottom	0	0	0.846	1.057	0.459	0.459	0.503	20.3			
Body	NR Band n5	20	QPSK	Arc	0344M	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	25.0	17.89	1	1	Right	0	0	0.730	1.039	0.969	0.969	1.066	20.3			
Body	NR Band n5	20	QPSK	Arc	0344M	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	25.0	17.77	50	28	Right	0	0	0.730	1.039	0.869	0.869	0.966	20.3			
Body	NR Band n5	20	QPSK	Arc	0344M	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	25.0	17.75	100	0	Right	0	0	0.637	1.034	0.983	0.983	1.083	20.3			
Body	NR Band n5	20	QPSK	Arc	0344M	1:1	-0.07	836.50	167300	DFT-s-OFDM	0.0	25.0	17.88	1	1	Right	0	0	0.637	1.034	0.869	0.869	0.966	20.3			
Body	NR Band n5	20	QPSK	Arc	0344M	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	25.0	17.89	1	1	Left	0	0	0.730	1.039	0.969	0.969	1.066	20.3			
Body	NR Band n5	20	QPSK	Arc	0344M	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	25.0	17.77	50	0	Left	0	0	0.637	1.034	0.869	0.869	0.966	20.3			
ANALOGUE 1.9 GHz - SAFETY LIMIT																											
Nominal Power																											
1.9 W (avg) (500W/g)																											
Uncontrolled Exposure - General Population																											
averaged over 1 gram																											



Table 12-89] Plot A40

Exposure	Band / Mode	Bandwidth [MHz]	Service/Modulation	Ant.	Serial Number	Duty Cycle	Power DnB [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	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 [Eq SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	ETS Plimit [dBm]	
Head	NR Band n88	45	QPSK	G	0344M	1.1	-0.03	1745.00	349000	DFT+OFDM	20.5	19.95	1	1	Right Cheek	0	0.438	1.135	1.000	0.486	0.486	0.486	0.304		23.0			
Head	NR Band n88	45	QPSK	G	0344M	1.1	-0.05	1745.00	349000	DFT+OFDM	20.5	19.95	120	0	Right Cheek	0	0.435	1.148	1.000	0.499	0.499	0.499	0.312		23.5			
Head	NR Band n88	45	QPSK	G	0344M	1.1	-0.07	1745.00	349000	DFT+OFDM	20.5	19.95	1	1	Right TM	0	0.606	1.135	1.000	0.722	0.722	0.722	0.455		21.0			
Head	NR Band n88	45	QPSK	G	0344M	1.1	-0.03	1745.00	349000	DFT+OFDM	20.5	19.95	120	0	Right TM	0	0.626	1.148	1.000	0.729	0.729	0.729	0.449		22.0			
Head	NR Band n88	45	QPSK	G	0344M	1.1	-0.09	1745.00	349000	DFT+OFDM	20.5	19.95	1	1	Left Cheek	0	0.479	1.135	1.000	0.544	0.544	0.544	0.380		23.1	21.4	19.5	
Head	NR Band n88	45	QPSK	G	0344M	1.1	-0.08	1745.00	349000	DFT+OFDM	20.5	19.95	120	0	Left Cheek	0	0.466	1.148	1.000	0.531	0.531	0.531	0.364		23.0			
Head	NR Band n88	45	QPSK	G	0344M	1.1	-0.10	1745.00	349000	DFT+OFDM	20.5	19.95	1	1	Left TM	0	0.615	1.135	1.000	0.766	0.766	0.766	0.475		21.6			
Head	NR Band n88	45	QPSK	G	0344M	1.1	-0.09	1745.00	349000	DFT+OFDM	20.5	19.95	120	0	Left TM	0	0.605	1.148	1.000	0.758	0.758	0.758	0.469	Plot	21.4			
Head	NR Band n88	45	QPSK	G	0344M	1.1	-0.07	1745.00	349000	CP-OFDM	20.5	19.95	1	1	Left TM	0	0.605	1.143	1.000	0.754	0.754	0.754	0.466		21.5			
ANALYZER CH3.1.1992 - SAFETY LIMIT																Body												
Spatial Peak																1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population																averaged over 1 gram												

Table 12-90] Plot A41

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 [1g SAR]	Exposure Ratio with Multi-Tx Factor [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	ETS Plimit [dBm]	
Body worn/Hotspot	NR Band n88	45	QPSK	B	0343M	1.1	-0.05	1745.00	349000	DFT+OFDM	0.0	18.0	17.72	1	1	Back	5	0.577	1.527	0.766	0.766	0.841	0.517		20.1			
Body worn/Hotspot	NR Band n88	45	QPSK	B	0343M	1.1	-0.03	1745.00	349000	DFT+OFDM	0.0	19.0	17.86	120	0	Back	5	0.619	1.500	0.750	0.750	0.893	0.536		20.2			
Body worn/Hotspot	NR Band n88	45	QPSK	B	0343M	1.1	-0.00	1745.00	349000	CP-OFDM	0.0	19.0	17.78	1	1	Back	5	0.613	1.524	0.812	0.812	0.893	0.539	Plot	19.9			
Body worn/Hotspot	NR Band n88	45	QPSK	B	0343M	1.1	-0.02	1745.00	349000	CP-OFDM	0.0	19.0	17.71	1	1	Back	5	0.617	1.514	0.844	0.844	0.893	0.540		20.1			
Body worn/Hotspot	NR Band n88	45	QPSK	B	0344M	1.1	-0.04	1745.00	349000	DFT+OFDM	0.0	19.0	17.86	120	0	Front	5	0.265	1.500	0.345	0.345	0.380	0.238		21.6	19.0	14.0	
Hotspot	NR Band n88	45	QPSK	B	0344M	1.1	-0.05	1745.00	349000	DFT+OFDM	0.0	19.0	17.72	1	1	Bottom	10	0.145	1.527	0.151	0.151	0.166	0.105		27.9			
Hotspot	NR Band n88	45	QPSK	B	0344M	1.1	-0.03	1745.00	349000	DFT+OFDM	0.0	19.0	17.86	120	0	Bottom	10	0.167	1.500	0.165	0.165	0.182	0.111		26.8			
Hotspot	NR Band n88	45	QPSK	B	0343M	1.1	-0.03	1745.00	349000	DFT+OFDM	0.0	19.0	17.72	1	1	Left	10	0.029	1.527	0.038	0.038	0.042	0.028		33.1			
Hotspot	NR Band n88	45	QPSK	B	0344M	1.1	-0.02	1745.00	349000	DFT+OFDM	0.0	19.0	17.86	120	0	Left	10	0.045	1.500	0.059	0.059	0.060	0.041		31.1			
ANALYZER CH3.1.1992 - SAFETY LIMIT																Body												
Spatial Peak																1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population																averaged over 1 gram												

Table 12-91

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 [Eq SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	ETS Plimit [dBm]	
Body worn/Hotspot	NR Band n88	45	QPSK	G	0344M	1.1	-0.06	1745.00	349000	DFT+OFDM	0.0	18.0	18.42	1	240	Back	5	0.440	1.439	0.631	0.631	0.696	0.436		19.9			
Body worn/Hotspot	NR Band n88	45	QPSK	B	0344M	1.1	-0.09	1745.00	349000	DFT+OFDM	0.0	18.0	18.51	120	122	Back	5	0.439	1.403	0.644	0.644	0.708	0.443		19.9			
Body worn/Hotspot	NR Band n88	45	QPSK	B	0344M	1.1	-0.05	1745.00	349000	CP-OFDM	0.0	18.0	18.39	1	1	Back	5	0.619	1.524	0.711	0.711	0.732	0.445		24.7			
Body worn/Hotspot	NR Band n88	45	QPSK	B	0344M	1.1	-0.03	1745.00	349000	CP-OFDM	0.0	18.0	18.42	120	0	Back	5	0.440	1.439	0.631	0.631	0.676	0.436		24.1			
Body worn/Hotspot	NR Band n88	45	QPSK	B	0344M	1.1	-0.02	1745.00	349000	DFT+OFDM	0.0	18.0	18.51	120	122	Front	5	0.619	1.403	0.737	0.737	0.861	0.513		24.2	19.0		
Hotspot	NR Band n88	45	QPSK	B	0344M	1.1	-0.06	1745.00	349000	DFT+OFDM	0.0	18.0	18.42	1	240	Top	10	0.008	1.439	0.141	0.141	0.155	0.027		26.5			
Hotspot	NR Band n88	45	QPSK	B	0344M	1.1	-0.05	1745.00	349000	DFT+OFDM	0.0	18.0	18.51	120	122	Top	10	0.011	1.403	0.138	0.138	0.144	0.086		26.9			
Hotspot	NR Band n88	45	QPSK	B	0344M	1.1	-0.02	1745.00	349000	DFT+OFDM	0.0	18.0	18.42	1	240	Right	10	0.043	1.439	0.062	0.062	0.068	0.043		30.0			
Hotspot	NR Band n88	45	QPSK	B	0344M	1.1	-0.02	1745.00	349000	DFT+OFDM	0.0	18.0	18.51	120	122	Right	10	0.044	1.403	0.068	0.068	0.068	0.046		30.4			
ANALYZER CH3.1.1992 - SAFETY LIMIT																Body												
Spatial Peak																1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population																averaged over 1 gram												

Table 12-92

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 [Eq SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	ETS Plimit [dBm]
Body	NR Band n88	45	QPSK	B	0344M	1.1	-0.01	1745.000	349000	DFT+OFDM	0.0	13.0	12.03	1	1	Back	0	0.205	1.256	0.371	0.371	0.406	0.255		17.3		
Body	NR Band n88	45	QPSK	B	0344M	1.1	-0.02	1745.000	349000	DFT+OFDM	0.0	13.0	12.03	120	1	Back	0	0.209	1.253	0.375	0.375	0.375	0.257		17.2		
Body	NR Band n88	45	QPSK	B	0344M	1.1	-0.07	1745.000	349000	DFT+OFDM	0.0	13.0	12.03	1	1	Top	0	0.060	1.256	0.003	0.003	0.003	0.002		38.9		
Body	NR Band n88	45	QPSK	B	0344M	1.1	-0.02	1745.000	349000	DFT+OFDM	0.0	13.0	12.03	120	1	Top	0	0.060	1.256	0.003	0.003	0.003	0.002		38.9		
Body	NR Band n88	45	QPSK	B	0344M	1.1	-0.09	1745.000	349000	DFT+OFDM	0.0	13.0	12.03	120	1	Bottom	0	0.178	1.256	0.475	0.475	0.523	0.327		16.9		
Body	NR Band n88	45	QPSK	B	0344M	1.1	-0.20	1745.000	349000	DFT+OFDM	0.0	13.0	12.03	120	0	Bottom	0	0.333	1.253	0.492	0.492	0.541	0.339		16.0		
Body	NR Band n88	45	QPSK	B	0344M	1.1	-0.08	1745.000	349000	CP-OFDM	0.0	13.0	11.93	1	1	Bottom	0	0.401	1.279	0.513	0.513	0.564	0.351		15.8		
Body	NR Band n88	45	QPSK	B	0344M	1.1	-0.07	1745.000	349000	DFT+OFDM	0.0	13.0	12.03	1	1	Right	0	0.000	1.256	0.000	0.000	0.000	0.000		52.0		
Body	NR Band n88	45	QPSK	B	0344M	1.1	-0.02	1745.000	349000	DFT+OFDM	0.0	13.0	12.03	120	0	Right	0	0.001	1.253	0.001	0.001	0.001	0.001		42.9		
Body	NR Band n88	45	QPSK	B	0344M	1.1	-0.03	1745.000	349000	DFT+OFDM	0.0	13.0	12.03	1	1	Left	0	0.007	1.256	0.009	0.009	0.010	0.007		33.5		
Body	NR Band n88	45	QPSK	B	0344M	1.1	-0.03	1745.000	349000	DFT+OFDM	0.0	13.0	12.03	120	0	Left	0	0.008	1.253	0.008	0.008	0.009	0.006		34.3		
ANSI C63.19-2 SAFETY LIMIT																		Body									
Unmodulated Exposure/General Population																		1.6 W/kg (W/kg) averaged over 10 g/m									



12.15 NR Band n25 Standalone SAR

Table 12-95

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dth [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pinnt [dBm]	Overall Pinnt [dBm]	EIS Pinnt [dBm]
Head	NR Band n25	40	QPSK	B	0344M	1:1	-0.01	1882.50	376500	DFT+OFDM	0.0	24.0	22.88	1	1	Right Cheek	0	0.069	1.265	0.087	0.418	0.261		34.5		
Head	NR Band n25	40	QPSK	B	0344M	1:1	-0.09	1882.50	376500	DFT+OFDM	0.0	24.0	22.85	108	54	Right Cheek	0	0.068	1.263	0.089	0.424	0.265		34.5		
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.04	1882.50	376500	DFT+OFDM	0.0	24.0	22.98	1	1	Right TH	0	0.066	1.265	0.087	0.418	0.261		34.5		
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.20	1882.50	376500	DFT+OFDM	0.0	24.0	22.85	108	54	Right TH	0	0.062	1.263	0.083	0.368	0.224	0.209	35.6		
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.07	1882.50	376500	DFT+OFDM	0.0	24.0	22.98	1	1	Left Cheek	0	0.069	1.265	0.104	0.496	0.310		33.8		
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.06	1882.50	376500	DFT+OFDM	0.0	24.0	22.88	108	54	Left Cheek	0	0.068	1.263	0.103	0.493	0.308		33.8		
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.01	1882.50	376500	CP-OFDM	1.5	22.5	21.24	1	1	Left Cheek	0	0.064	1.337	0.077	0.498	0.305		33.8		
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.07	1882.50	376500	DFT+OFDM	0.0	24.0	22.98	1	1	Left TH	0	0.007	1.265	0.014	0.383	0.202		38.6		
Head	NR Band n25	40	QPSK	B	0344M	1:1	0.01	1882.50	376500	DFT+OFDM	0.0	24.0	22.85	108	54	Left TH	0	0.003	1.303	0.031	0.306	0.208		38.6		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																		Spatial Peak								
Uncontrolled Exposure/General Population																		Head								
																		1.6 W/kg (mW/g)								
																		averaged over 1 gram								

Table 12-96| Plot A43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dth [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 [W/kg]	Plot #	Pinnt [dBm]	Overall Pinnt [dBm]	EIS Pinnt [dBm]
Head	NR Band n25	40	QPSK	G	0344M	1:1	-0.07	1882.50	376500	DFT+OFDM	0.0	20.5	19.54	1	1	Right Cheek	0	0.496	1.247	0.619	0.619	0.681	0.436	22.5	20.7	20.7	
Head	NR Band n25	40	QPSK	G	0344M	1:1	-0.04	1882.50	376500	DFT+OFDM	0.0	20.5	19.44	108	0	Right Cheek	0	0.477	1.279	0.610	0.610	0.671	0.419	21.6	20.7	20.7	
Head	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	20.5	19.44	108	0	Right TH	0	0.460	1.247	0.731	0.731	0.791	0.519	21.6	20.7	20.7	
Head	NR Band n25	40	QPSK	G	0344M	1:1	-0.10	1882.50	376500	DFT+OFDM	0.0	20.5	19.43	108	0	Right TH	0	0.508	1.279	0.765	0.765	0.842	0.526	21.6	20.7	20.7	
Head	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	20.5	19.44	1	1	Left Cheek	0	0.500	1.247	0.686	0.686	0.746	0.477	22.1	20.7	20.7	
Head	NR Band n25	40	QPSK	G	0344M	1:1	0.09	1882.50	376500	DFT+OFDM	0.0	20.5	19.43	108	0	Left Cheek	0	0.541	1.279	0.692	0.692	0.761	0.476	22.0	20.7	20.7	
Head	NR Band n25	40	QPSK	G	0344M	1:1	-0.02	1882.50	376500	DFT+OFDM	0.0	20.5	19.44	1	1	Left TH	0	0.525	1.247	0.817	0.817	0.877	0.600	20.8	20.7	20.7	
Head	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	20.5	19.43	108	0	Left TH	0	0.708	1.279	0.931	0.931	1.024	0.640	20.8	20.7	20.7	
Head	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	20.5	19.39	216	0	Left TH	0	0.717	1.291	0.951	0.951	1.046	0.653	20.7	20.7	20.7	
Head	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	20.5	19.35	1	1	Left TH	0	0.744	1.253	0.928	0.928	1.021	0.636	20.8	20.7	20.7	
UNCONTROLLED EXPOSURE - SAFETY LIMIT																		Head									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Table 12-97| Plot A44

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dth [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 [W/kg]	Plot #	Pinnt [dBm]	Overall Pinnt [dBm]	EIS Pinnt [dBm]
Body-worn/Hotspot	NR Band n25	40	QPSK	B	0344M	1:1	-0.14	1882.50	376500	DFT+OFDM	0.0	18.5	16.90	1	1	Back	5	0.300	1.549	1.007	1.007	1.106	0.762	18.4	17.0	17.0	
Body-worn/Hotspot	NR Band n25	40	QPSK	B	0344M	1:1	0.14	1882.50	376500	DFT+OFDM	0.0	18.5	16.87	108	0	Back	5	0.712	1.545	1.100	1.100	1.210	0.757	18.0	17.0	17.0	
Body-worn/Hotspot	NR Band n25	40	QPSK	B	0343M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.5	16.90	216	0	Back	5	0.690	1.552	1.080	1.080	1.188	0.743	18.1	17.0	17.0	
Body-worn/Hotspot	NR Band n25	40	QPSK	B	0344M	1:1	-0.00	1882.50	376500	CP-OFDM	0.0	18.5	16.87	1	1	Back	5	0.731	1.535	1.124	1.124	1.236	0.761	18.0	17.0	17.0	
Body-worn/Hotspot	NR Band n25	40	QPSK	B	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.5	16.90	1	1	Front	5	0.380	1.549	0.989	0.989	1.046	0.685	20.9	17.0	17.0	
Body-worn/Hotspot	NR Band n25	40	QPSK	B	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	18.5	16.86	1	1	Front	5	0.400	1.549	0.989	0.989	1.046	0.685	20.9	17.0	17.0	
Hotspot	NR Band n25	40	QPSK	B	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.5	16.80	1	1	Bottom	10	0.472	1.549	0.731	0.731	0.804	0.505	19.8	17.0	17.0	
Hotspot	NR Band n25	40	QPSK	B	0344M	1:1	-0.00	1882.50	376500	DFT+OFDM	0.0	18.5	16.85	108	0	Bottom	10	0.488	1.545	0.754	0.754	0.828	0.518	19.7	17.0	17.0	
Hotspot	NR Band n25	40	QPSK	B	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.5	16.80	1	1	Left	10	0.962	1.549	0.986	0.986	1.086	0.686	28.6	17.0	17.0	
Hotspot	NR Band n25	40	QPSK	B	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.5	16.85	108	0	Left	10	0.981	1.545	0.984	0.984	1.085	0.685	28.7	17.0	17.0	
Uncontrolled EX-1 (EYE - SAFETY LIMIT)																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Table 12-98

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dth [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 [W/kg]	Plot #	Pinnt [dBm]	Overall Pinnt [dBm]	EIS Pinnt [dBm]
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Back	5	0.573	1.576	0.731	0.731	0.804	0.505	19.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.07	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Back	5	0.554	1.591	0.728	0.728	0.801	0.505	19.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.17	1882.50	376500	CP-OFDM	0.0	18.0	16.85	1	1	Back	5	0.605	1.574	0.772	0.772	0.845	0.515	19.1	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.90	1	1	Front	5	0.283	1.576	0.232	0.232	0.255	0.180	24.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	18.0	16.86	1	1	Front	5	0.303	1.591	0.235	0.235	0.258	0.180	24.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Top	10	0.289	1.576	0.369	0.369	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Top	10	0.285	1.591	0.368	0.368	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Bottom	5	0.573	1.576	0.731	0.731	0.804	0.505	19.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.07	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Bottom	5	0.554	1.591	0.728	0.728	0.801	0.505	19.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.17	1882.50	376500	CP-OFDM	0.0	18.0	16.85	1	1	Bottom	5	0.605	1.574	0.772	0.772	0.845	0.515	19.1	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	18.0	16.86	1	1	Bottom	5	0.303	1.591	0.235	0.235	0.258	0.180	24.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Right	10	0.289	1.576	0.369	0.369	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Right	10	0.285	1.591	0.368	0.368	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Left	10	0.289	1.576	0.369	0.369	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.07	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Left	10	0.285	1.591	0.368	0.368	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.17	1882.50	376500	CP-OFDM	0.0	18.0	16.85	1	1	Left	10	0.303	1.574	0.372	0.372	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	18.0	16.86	1	1	Left	10	0.303	1.591	0.235	0.235	0.258	0.180	24.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Right	10	0.289	1.576	0.369	0.369	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Right	10	0.285	1.591	0.368	0.368	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	18.0	16.86	1	1	Right	10	0.303	1.591	0.235	0.235	0.258	0.180	24.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Left	10	0.289	1.576	0.369	0.369	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Left	10	0.285	1.591	0.368	0.368	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.17	1882.50	376500	CP-OFDM	0.0	18.0	16.85	1	1	Left	10	0.303	1.574	0.372	0.372	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	18.0	16.86	1	1	Left	10	0.303	1.591	0.235	0.235	0.258	0.180	24.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Right	10	0.289	1.576	0.369	0.369	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Right	10	0.285	1.591	0.368	0.368	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	18.0	16.86	1	1	Right	10	0.303	1.591	0.235	0.235	0.258	0.180	24.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Left	10	0.289	1.576	0.369	0.369	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Left	10	0.285	1.591	0.368	0.368	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.17	1882.50	376500	CP-OFDM	0.0	18.0	16.85	1	1	Left	10	0.303	1.574	0.372	0.372	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	18.0	16.86	1	1	Left	10	0.303	1.591	0.235	0.235	0.258	0.180	24.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Right	10	0.289	1.576	0.369	0.369	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Right	10	0.285	1.591	0.368	0.368	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	18.0	16.86	1	1	Right	10	0.303	1.591	0.235	0.235	0.258	0.180	24.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Left	10	0.289	1.576	0.369	0.369	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Left	10	0.285	1.591	0.368	0.368	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.17	1882.50	376500	CP-OFDM	0.0	18.0	16.85	1	1	Left	10	0.303	1.574	0.372	0.372	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	18.0	16.86	1	1	Left	10	0.303	1.591	0.235	0.235	0.258	0.180	24.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Right	10	0.289	1.576	0.369	0.369	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Right	10	0.285	1.591	0.368	0.368	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	18.0	16.86	1	1	Right	10	0.303	1.591	0.235	0.235	0.258	0.180	24.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Left	10	0.289	1.576	0.369	0.369	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Left	10	0.285	1.591	0.368	0.368	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.17	1882.50	376500	CP-OFDM	0.0	18.0	16.85	1	1	Left	10	0.303	1.574	0.372	0.372	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	18.0	16.86	1	1	Left	10	0.303	1.591	0.235	0.235	0.258	0.180	24.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Right	10	0.289	1.576	0.369	0.369	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Right	10	0.285	1.591	0.368	0.368	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	18.0	16.86	1	1	Right	10	0.303	1.591	0.235	0.235	0.258	0.180	24.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.94	1	1	Left	10	0.289	1.576	0.369	0.369	0.400	0.254	22.3	17.0	17.0	
Body-worn/Postop	NR Band n25	40	QPSK	G	0344M	1:1	-0.00	1882.50	376500	DFT+OFDM	0.0	18.0	16.89	108	54	Left	10	0.285	1.591</								



Table 12-100| Plot A45

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	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	NR Band n25	40	QPSK	G	03449W	1:1	0.00	1882.50	176500	QPT+QPSM	0.0	22.0	20.89	1	1	Back	10	0.216	1.091	0.924	0.924	1.016	0.838	22.3		21.0	
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.01	1882.50	176500	QPT+QPSM	0.0	22.0	20.91	108	0	Back	10	0.229	1.111	0.947	0.947	1.041	0.851	22.2		21.0	
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.01	1882.50	176500	QPT+QPSM	0.0	22.0	20.79	216	0	Back	10	0.209	1.021	0.951	0.951	1.046	0.853	22.2		21.0	
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.00	1882.50	176500	QPT+QPSM	0.0	22.0	20.84	108	0	Top	13	0.208	1.015	0.984	0.984	1.071	0.877	22.5		21.0	
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.00	1882.50	176500	QPT+QPSM	0.0	22.0	20.89	1	1	Bottom	0	0.202	1.091	0.941	0.941	1.045	0.850	22.0		21.0	
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.00	1882.50	176500	QPT+QPSM	0.0	22.0	20.85	108	0	Bottom	0	0.208	1.115	0.937	0.937	1.041	0.855	22.3		21.0	
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.00	1882.50	176500	QPT+QPSM	0.0	22.0	20.89	1	1	Right	0	0.207	1.091	1.132	1.132	1.246	0.770	22.4		21.0	
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.00	1882.50	176500	QPT+QPSM	0.0	22.0	20.89	108	0	Right	0	0.201	1.015	1.107	1.107	1.240	0.804	22.0		21.0	
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.01	1882.50	176500	QPT+QPSM	0.0	22.0	20.79	216	0	Right	0	0.203	1.101	1.256	1.256	1.382	0.864	22.0		21.0	
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.00	1882.50	176500	QPT+QPSM	0.0	22.0	20.89	1	1	Left	0	0.202	1.091	1.182	1.182	1.384	0.865	22.0		21.0	
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.00	1882.50	176500	QPT+QPSM	0.0	22.0	20.89	1	1	Left	0	0.208	1.091	1.137	1.137	1.151	0.895	22.0		21.0	
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.01	1882.50	176500	QPT+QPSM	0.0	22.0	20.81	108	0	Left	0	0.193	1.115	1.201	1.201	0.921	0.938	22.4		21.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Body								
Spatial Peak																			1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																			averaged over 1 gram								

Note: Blue entry represents variability measurement

Table 12-101

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [1g SAR]	Exposure Ratio with Multi Tx Factor [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.00	1882.50	176500	QPT+QPSM	0.0	11.5	8.70	1	214	Back	0	0.550	1.503	0.827	0.827	0.910	0.560	12.3			
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.00	1882.50	176500	QPT+QPSM	0.0	11.5	8.70	108	54	Back	0	0.524	1.514	0.868	0.868	0.955	0.597	12.1			
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.00	1882.50	176500	QPT+QPSM	0.0	11.5	8.70	216	0	Back	0	0.519	1.511	0.886	0.886	0.976	0.609	12.0			
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.00	1882.50	176500	QPT+QPSM	0.0	11.5	8.70	1	214	Top	0	0.519	1.511	0.909	0.909	1.010	0.705	11.4		11.1	
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.00	1882.50	176500	QPT+QPSM	0.0	11.5	8.70	108	54	Top	0	0.523	1.514	0.905	0.905	1.005	0.712	11.1		10.5	
Body	NR Band n25	40	QPSK	G	03449W	1:1	0.00	1882.50	176500	QPT+QPSM	0.0	11.5	8.65	216	0	Top	0	0.506	1.500	0.911	0.911	1.011	0.744	11.1			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																			Body								
Spatial Peak																			1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																			averaged over 1 gram								

12.16 NR Band n41 Standalone SAR

Table 12-102| Plot A46

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	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	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.53	1	137	Right Cheek	0	0.505	1.117	0.660	0.660	0.726	0.414	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.01	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Cheek	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Cheek	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.53	1	137	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.53	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPSM	0.0	17.0	16.40	135	0	Right Tilt	0	0.519	1.127	0.653	0.653	0.718	0.449	18.8		14.0	
Head	NR Band n41	100	QPSK	G	1	0048M	1:1	0.00	2592.99	518598	QPT+QPS																	

Table 12-105

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	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	NR Band n41	100	D	1	0343M	1:1	-0.04	2592.99	518998	CW/SRS	15.0	14.13	Right Cheek	0	0.014	1.222	0.017	0.017	0.019	0.012		32.6				
Head	NR Band n41	100	D	1	0343M	1:1	0.01	2592.99	518998	CW/SRS	15.0	14.13	Right Tilt	0	0.000	1.222	0.000	0.000	0.000	0.000		34.1		14.0		
Head	NR Band n41	100	D	1	0343M	1:1	0.00	2592.99	518998	CW/SRS	15.0	14.13	Left Cheek	0	0.000	1.222	0.000	0.000	0.000	0.000		34.1				
Head	NR Band n41	100	D	1	0343M	1:1	0.07	2592.99	518998	CW/SRS	15.0	14.13	Left Tilt	0	0.000	1.222	0.000	0.000	0.000	0.000		34.1				
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram											
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	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	NR Band n41	100	D	2	1730M	1:1	0.01	2592.99	518998	CW/SRS	15.0	14.04	Right Cheek	0	0.009	1.247	0.004	0.000	0.003		39.2	39.2	14.0			
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 12-106| Plot A47

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	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]	EPS PLimit [dBm]
Body-worn/Hotspot	NR Band n41	100	QPSK	G	1	0319M	1:1	0.09	2592.99	518998	QPSK+OFDM	0.0	17.5	18.38	5	137	Back	5	0.709	1.300	0.915	0.915	1.007	0.829		17.8		
Body-worn/Hotspot	NR Band n41	100	QPSK	G	1	0319M	1:1	0.01	2592.99	518998	QPSK+OFDM	0.0	17.5	18.35	135	60	Back	5	0.709	1.301	0.915	0.915	1.007	0.829		17.8		
Body-worn/Hotspot	NR Band n41	100	QPSK	G	1	0319M	1:1	0.03	2592.99	518998	QPSK+OFDM	0.0	17.5	18.31	270	0	Back	5	0.709	1.300	0.919	0.919	1.001	0.831		17.8		
Body-worn/Hotspot	NR Band n41	100	QPSK	G	1	0319M	1:1	0.07	2592.99	518998	QPSK+OFDM	0.0	17.5	18.44	5	1	Back	5	0.709	1.276	0.961	0.961	1.009	0.862	Plot	17.8		
Body-worn/Hotspot	NR Band n41	100	QPSK	G	1	0319M	1:1	0.06	2592.99	518998	QPSK+OFDM	0.0	17.5	18.26	1	137	Front	5	0.709	1.300	0.919	0.919	1.001	0.831		17.8		
Body-worn/Hotspot	NR Band n41	100	QPSK	G	1	0319M	1:1	0.08	2592.99	518998	QPSK+OFDM	0.0	17.5	18.35	135	60	Front	5	0.709	1.301	0.919	0.919	1.001	0.831		17.8		
Hotspot	NR Band n41	100	QPSK	G	1	0319M	1:1	0.07	2592.99	518998	QPSK+OFDM	0.0	17.5	18.26	1	137	Top	10	0.709	1.300	0.920	0.920	1.004	0.834		17.8		
Hotspot	NR Band n41	100	QPSK	G	1	0319M	1:1	0.03	2592.99	518998	QPSK+OFDM	0.0	17.5	18.39	135	60	Cap	10	0.709	1.301	0.927	0.927	1.006	0.836		17.8		
Hotspot	NR Band n41	100	QPSK	G	1	0319M	1:1	0.09	2592.99	518998	QPSK+OFDM	0.0	17.5	18.36	1	137	Right	10	0.709	1.300	0.924	0.924	1.007	0.837		17.8		
Hotspot	NR Band n41	100	QPSK	G	1	0319M	1:1	0.14	2592.99	518998	QPSK+OFDM	0.0	17.5	18.35	135	60	Wrist	10	0.709	1.301	0.926	0.926	1.006	0.837		17.8		
ANS/IEEE C95.1 1992 - SAFETY LIMIT																												
Spatial Peak																												
Uncontrolled Exposure/General Population																												
Body																												
1.6 W/kg (mW/g)																												
averaged over 1 gram																												
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	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	NR Band n41	100	G	2	1730M	1:1	0.03	2592.99	518998	CW/SRS	15.0	14.51	Back	5	0.311	1.119	0.350	0.350	0.241		19.5	19.5	14.0					
ANS/IEEE C95.1 1992 - SAFETY LIMIT																												
Spatial Peak																												
Uncontrolled Exposure/General Population																												
Body																												
1.6 W/kg (mW/g)																												
averaged over 1 gram																												

Table 12-107

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	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	NR Band n41	100	B	1	0319M	1:1	0.01	2592.99	518998	CW/SRS	18.5	17.47	Back	5	0.510	1.268	0.647	0.647	0.712	0.444		20.3					
Body-worn/Hotspot	NR Band n41	100	B	1	0319M	1:1	0.02	2592.99	518998	CW/SRS	18.5	17.47	Front	5	0.184	1.268	0.170	0.170	0.187	0.117		26.1					
Hotspot	NR Band n41	100	B	1	0319M	1:1	-0.06	2592.99	518998	CW/SRS	18.5	17.47	Bottom	10	0.264	1.268	0.389	0.389	0.369	0.230		23.2					
Hotspot	NR Band n41	100	B	1	0319M	1:1	0.04	2592.99	518998	CW/SRS	18.5	17.47	Left	10	0.000	1.268	0.000	0.000	0.000	0.000		24.4					
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram												
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	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 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	NR Band n41	100	QPSK	B	2	1730M	1:1	0.08	2592.99	518998	QPSK+OFDM	0.0	18.5	18.40	135	138	Back	5	0.306	1.122	0.297	0.330	0.205		23.7	23.7	17.5
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 12-108

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	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	NR Band n41	100	H	1	0048M	1:1	0.01	2592.99	518998	CW/SRS	15.0	14.02	Back	5	0.028	1.253	0.035	0.035	0.039	0.024		29.5		
Body-worn/Hotspot	NR Band n41	100	H	1	0048M	1:1	0.01	2592.99	518998	CW/SRS	15.0	14.02	Front	5	0.000	1.253	0.000	0.000	0.000	0.000		43.0	29.5	14.0
Hotspot	NR Band n41	100	H	1	0048M	1:1	0.05	2592.99	518998	CW/SRS	15.0	14.02	Right	10	0.000	1.253	0.000	0.000	0.000	0.000		54.0		
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	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	NR Band n41	100	H	2	1730M	1:1	-0.05	2592.99	518998	CW/SRS	9.0	8.26	Back	5	0.024	1.188	0.028	0.030	0.020		24.4	24.4	8.0	
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-109

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	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	NR Band n41	100	D	1	0048M	1:1	-0.06	2592.99	518998	CW/SRS	15.0	14.13	Back	5	0.032	1.222	0.039	0.039	0.043	0.026		29.0		
Body-worn/Hotspot	NR Band n41	100	D	1	0048M	1:1	0.04	2592.99	518998	CW/SRS	15.0	14.13	Front	5	0.000	1.222	0.000	0.000	0.000	0.000		34.1		
Hotspot	NR Band n41	100	D	1	0048M	1:1	0.04	2592.99	518998	CW/SRS	15.0	14.13	Right	10	0.000	1.222	0.000	0.000	0.000	0.000		34.1		
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	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	NR Band n41	100	D	2	1730M	1:1	-0.06	2592.99	518998	CW/SRS	15.0	14.04	Back	5	0.046	1.247	0.057	0.060	0.040			27.4		
ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									



12.17 NR Band n77 Standalone SAR

Table 12-115| Plot A49

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MFR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	SS Size	SS 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	Pilot #	Pilot [dBm]	Overall Pilot [dBm]	RF5 Pilot [dBm]
Head	NR Band n77	100	QPSK	F	0055M	1:1	-0.26	3930.00	662000	DP-4-QPSM	0.0	21.0	20.90	1	1	Right Cheek	0	0.278	1.033	0.344	0.344	0.378	0.237	25.4			
Head	NR Band n77	100	QPSK	F	0055M	1:1	-0.04	3930.00	662000	DP-4-QPSM	0.0	21.0	20.92	135	0	Right Cheek	0	0.275	1.050	0.341	0.341	0.375	0.234	25.6			
Head	NR Band n77	100	QPSK	F	0055M	1:1	0.00	3750.00	650000	DP-4-QPSM	0.0	21.0	19.21	1	1	Right TIR	0	0.267	1.476	0.542	0.542	0.596	0.373	23.6			
Head	NR Band n77	100	QPSK	F	0055M	1:1	-0.00	3930.00	662000	DP-4-QPSM	0.0	21.0	20.90	1	1	Right TIR	0	0.260	1.133	0.493	0.493	0.542	0.339	24.0			
Head	NR Band n77	100	QPSK	F	0055M	1:1	0.00	3750.00	650000	DP-4-QPSM	0.0	21.0	19.17	135	0	Right TIR	0	0.265	1.524	0.556	0.556	0.612	0.389	23.5			
Head	NR Band n77	100	QPSK	F	0055M	1:1	-0.00	3930.00	662000	DP-4-QPSM	0.0	21.0	20.90	135	0	Right TIR	0	0.267	1.250	0.496	0.496	0.546	0.364	24.0			
Head	NR Band n77	100	QPSK	F	0055M	1:1	-0.00	3930.00	662000	DP-4-QPSM	0.0	21.0	20.90	270	0	Right TIR	0	0.400	1.074	0.512	0.512	0.563	0.350	23.9	23.5	20.0	
Head	NR Band n77 DoD	100	QPSK	F	0055M	1:1	0.00	3500.01	633334	CP-QPSM	0.0	21.0	20.15	1	1	Right TIR	0	0.442	1.005	0.533	0.533	0.586	0.366	Plot	23.7		
Head	NR Band n77	100	QPSK	F	0055M	1:1	-0.01	3930.00	662000	CP-QPSM	0.0	21.0	20.91	1	1	Right TIR	0	0.400	1.099	0.504	0.504	0.554	0.347	23.9			
Head	NR Band n77	100	QPSK	F	0055M	1:1	0.00	3930.00	662000	DP-4-QPSM	0.0	21.0	20.90	1	1	Left Cheek	0	0.229	1.033	0.282	0.282	0.310	0.194	26.4			
Head	NR Band n77	100	QPSK	F	0055M	1:1	-0.01	3930.00	662000	DP-4-QPSM	0.0	21.0	20.92	135	0	Left Cheek	0	0.234	1.050	0.341	0.341	0.375	0.190	26.1			
Head	NR Band n77	100	QPSK	F	0055M	1:1	-0.00	3930.00	662000	DP-4-QPSM	0.0	21.0	20.90	1	1	Left TIR	0	0.299	1.033	0.369	0.369	0.406	0.204	25.1			
Head	NR Band n77	100	QPSK	F	0055M	1:1	-0.02	3930.00	662000	DP-4-QPSM	0.0	21.0	20.90	135	0	Left TIR	0	0.284	1.020	0.355	0.355	0.391	0.244	25.4			
ANNEKEE CR-1 1992 - SAFETY UNIT																		Head 1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																											

Table 12-116

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Pilot #	Pilot [dBm]	Overall Pilot [dBm]	RF5 Pilot [dBm]
Head	NR Band n77	100	C	0055M	1:1	0.04	3930.00	662000	CW/SRS	15.0	13.88	Right Cheek	0	0.000	1.294	0.000	0.000	0.000	0.000		53.8		
Head	NR Band n77	100	C	0055M	1:1	0.07	3930.00	662000	CW/SRS	15.0	13.88	Right TIR	0	0.000	1.294	0.000	0.000	0.000	0.000		53.8		
Head	NR Band n77 DoD	100	C	0055M	1:1	0.09	3500.01	633334	CW/SRS	15.0	14.88	Left Cheek	0	0.000	1.028	0.000	0.000	0.000	0.000		54.8	53.8	14.0
Head	NR Band n77	100	C	0055M	1:1	0.06	3930.00	662000	CW/SRS	15.0	13.88	Left Cheek	0	0.000	1.294	0.000	0.000	0.000	0.000		53.8		
Head	NR Band n77	100	C	0055M	1:1	-0.09	3930.00	662000	CW/SRS	15.0	13.88	Left TIR	0	0.000	1.294	0.000	0.000	0.000	0.000		53.8		
ANSI/IEEE CS6.1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-117

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Pilot #	Pilot [dBm]	Overall Pilot [dBm]	RF5 Pilot [dBm]	
Head	NR Band n77	100	G	0055M	1:1	-0.03	3930.00	662000	CW/SRS	15.0	13.90	Right Cheek	0	0.110	1.288	0.142	0.142	0.156	0.098		23.4			
Head	NR Band n77	100	G	0055M	1:1	-0.17	3930.00	662000	CW/SRS	15.0	13.89	Right TIR	0	0.107	1.288	0.138	0.138	0.152	0.095		23.6			
Head	NR Band n77 DoD	100	G	0055M	1:1	-0.07	3500.01	633334	CW/SRS	15.0	14.73	Left Cheek	0	0.134	1.069	0.143	0.143	0.157	0.098		23.4	22.3	14.0	
Head	NR Band n77	100	G	0055M	1:1	-0.19	3930.00	662000	CW/SRS	15.0	13.90	Left Cheek	0	0.144	1.288	0.185	0.185	0.204	0.128		22.3			
Head	NR Band n77	100	G	0055M	1:1	0.07	3930.00	662000	CW/SRS	15.0	13.90	Left TIR	0	0.129	1.288	0.166	0.166	0.183	0.114		22.7			
ANSI/IEEE CS6.1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-118

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Pilot #	Pilot [dBm]	Overall Pilot [dBm]	RF5 Pilot [dBm]
Head	NR Band n77 DoD	100	A	0055M	1:1	0.01	3500.01	633334	CW/SRS	15.0	14.07	Right Cheek	0	0.000	1.239	0.000	0.000	0.000	0.000		54.0		
Head	NR Band n77	100	A	0055M	1:1	0.09	3750.00	650000	CW/SRS	15.0	14.54	Right Cheek	0	0.002	1.112	0.002	0.002	0.002	0.001		41.5		
Head	NR Band n77	100	A	0055M	1:1	0.06	3750.00	650000	CW/SRS	15.0	14.54	Right TIR	0	0.000	1.112	0.000	0.000	0.000	0.000		54.5		41.5
Head	NR Band n77	100	A	0055M	1:1	0.06	3750.00	650000	CW/SRS	15.0	14.54	Left Cheek	0	0.002	1.112	0.002	0.002	0.002	0.001		41.5		14.0
Head	NR Band n77	100	A	0055M	1:1	0.01	3750.00	650000	CW/SRS	15.0	14.54	Left TIR	0	0.000	1.112	0.000	0.000	0.000	0.000		54.5		
ANSI/IEEE CS6.1.1 1992 - SAFETY LIMIT																		Head					
Spatial Peak																		1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 1 gram					

FCC ID: A3LSMF966B	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
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Table 12-119| Plot A50

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dens [dBm]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RIS Offset	Test Position	Spacing [mm]	Measured Ig SAR [W/kg]	Power Scaling Factor	Reported Ig SAR [W/kg]	Adjusted Ig SAR [W/kg]	Adjusted Ig SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor [%]	Pilot #	FIMH (dBm)	Overall FIMH (dBm)	SFS FIMH (dBm)
Body-worn/Hotspot	NR Band r77 Dual	100	CQPSK	F	0363M	1-1	-0.08	9300.0	63334	LPT-F-COFDM	0.0	18.5	18.87	1	273	Back	5	0.480	1.156	0.366	0.366	0.861	0.540	20.8			
Body-worn/Hotspot	NR Band r77	100	CQPSK	F	0363M	1-1	-0.08	9300.0	63500	LPT-F-COFDM	0.0	19.5	17.78	1	1	Back	5	0.708	1.486	1.097	1.097	1.207	0.753	19.0			
Hotspot	NR Band r77	100	CQPSK	F	0363M	1-1	-0.08	9300.0	62000	LPT-F-COFDM	0.0	19.5	18.66	1	273	Back	5	0.877	1.233	1.064	1.064	1.170	0.732	19.2			
Body-worn/Hotspot	NR Band r77	100	CQPSK	F	0363M	1-1	-0.07	9300.0	65000	LPT-F-COFDM	0.0	19.5	17.81	135	0	Back	5	0.705	1.477	1.097	1.097	1.207	0.753	19.0			
Body-worn/Hotspot	NR Band r77	100	CQPSK	F	0363M	1-1	-0.08	9300.0	66000	LPT-F-COFDM	0.0	19.5	18.05	135	0	Back	5	0.919	1.236	1.135	1.135	1.240	0.780	Pilot	18.8		
Body-worn/Hotspot	NR Band r77	100	CQPSK	F	0363M	1-1	-0.07	9300.0	66000	LPT-F-COFDM	0.0	19.5	18.25	135	0	Back	5	0.822	1.225	1.074	1.074	1.181	0.783	19.1			
Body-worn/Hotspot	NR Band r77	100	CQPSK	F	0363M	1-1	-0.07	9300.0	66000	LPT-F-COFDM	0.0	19.5	18.25	270	0	Back	5	0.822	1.225	1.074	1.074	1.181	0.783	19.1			
Body-worn/Hotspot	NR Band r77	100	CQPSK	F	0055M	1-1	-0.01	9300.0	66200	CPOFDM	0.0	19.5	18.28	1	1	Back	5	0.880	1.324	1.165	1.165	1.282	0.802	18.8			
Hotspot	NR Band r77	100	CQPSK	F	0363M	1-1	-0.08	9300.0	66000	LPT-F-COFDM	0.0	19.5	18.66	1	273	Front	5	0.877	1.233	1.064	1.064	1.170	0.732	19.2			
Body-worn/Hotspot	NR Band r77	100	CQPSK	F	0363M	1-1	-0.02	9300.0	66200	LPT-F-COFDM	0.0	19.5	18.07	135	0	Front	5	0.938	1.256	1.131	1.131	1.145	0.905	26.1			
Hotspot	NR Band r77	100	CQPSK	F	0363M	1-1	-0.08	9300.0	66200	LPT-F-COFDM	0.0	19.5	18.66	1	273	Trip	10	0.264	1.213	0.330	0.330	0.332	0.220	34.6			
Hotspot	NR Band r77	100	CQPSK	F	0363M	1-1	-0.08	9300.0	66200	LPT-F-COFDM	0.0	19.5	18.66	1	273	Left	10	0.264	1.213	0.330	0.330	0.332	0.220	34.6			
Hotspot	NR Band r77	100	CQPSK	F	0363M	1-1	-0.08	9300.0	66200	LPT-F-COFDM	0.0	19.5	18.66	1	273	Left	10	0.062	1.213	0.049	0.049	0.054	0.034	37.6			
Hotspot	NR Band r77	100	CQPSK	F	0363M	1-1	-0.08	9300.0	66200	LPT-F-COFDM	0.0	19.5	18.66	135	0	Left	10	0.062	1.213	0.051	0.051	0.054	0.035	37.6			
																				Body							
																				Spatial Peak							
																				Adjusted Ig SAR - Safety Limit							
																				1.6 W/kg (mW/kg)							
																				averaged over 1 g/cm							
																				Uncensored/General Population							
																				Note: Blue entry represents variability measurement							

Table 12-120[illegible]

Table 12-121

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dBm]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	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	NR Band n77 600	100	G	00989M	1:1	-0.08	3930.071	631184	CW/FSKs	15.0	14.71	Back	5	0.233	1.069	0.268	0.268	0.295	0.185		20.7		
Body-worn/Hotspot	NR Band n77	100	G	00989M	1:1	-0.02	3930.071	662000	CW/FSKs	15.0	13.90	Back	5	0.440	1.309	1.288	1.309	1.309	0.212		20.7		
Body-worn/Hotspot	NR Band n77	100	G	00989M	1:1	-0.04	3930.000	662000	CW/FSKs	15.0	13.90	Front	5	0.065	1.288	0.084	0.084	0.092	0.058		25.7	20.0	14.0
Hotspot	NR Band n77	100	G	00989M	1:1	-0.13	3930.000	662000	CW/FSKs	15.0	12.90	Top	10	0.086	1.288	0.109	0.109	0.120	0.075		24.6		
Hotspot	NR Band n77	100	G	00989M	1:1	-0.02	3930.000	662000	CW/FSKs	15.0	13.90	Right	5	0.016	1.309	0.021	0.021	0.021	0.014		31.8		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																				Special Peak			
Uncontrolled Exposure/General Population															Body						1.6 W/kg (W/kg) averaged over 1 gram		

Table 12-122

[illegible]

Table 12-123| Plot A51

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RIS Offset	Test Position	Spacing [mm]	Measured 1g SAR with Neck [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Neck [W/kg]	Exposure Ratio with Multi Tx Factor (2g)	Plot #	Pinch (dBm)	Overall Pinch (dBm)	RF Risk (dBm)
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1750.00	630000	DPF4-QPSM	0.0	10.5	9.27	1	1	Back	0	0.742	1.127	0.985	0.985	1.084	0.678	10.3			
Body	NR Band #77	100	QPSK	F	0055M	1:1	0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.00	1	1	Back	0	0.745	1.099	0.919	0.919	1.001	0.563	11.1			
Body	NR Band #77	100	QPSK	F	0055M	1:1	0.08	1750.00	630000	DPF4-QPSM	0.0	10.5	9.07	135	0	Left	0	0.740	1.100	0.919	0.919	1.013	0.656	10.0			
Body	NR Band #77	100	QPSK	F	0055M	1:1	0.08	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Back	0	0.737	1.084	0.793	0.793	0.837	0.548	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	0.14	1930.00	642000	DPF4-QPSM	0.0	10.5	10.00	729	0	Top	0	0.695	1.102	0.766	0.766	0.843	0.537	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	0.08	1750.00	630000	DPF4-QPSM	0.0	10.5	9.07	135	0	Left	0	0.740	1.100	0.919	0.919	1.013	0.656	10.0			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1750.00	630000	DPF4-QPSM	0.0	10.5	9.07	1	1	Top	0	0.740	1.102	0.985	0.985	1.063	0.696	10.2			
Body	NR Band #77	100	QPSK	F	0055M	1:1	0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	9.07	135	0	Top	0	0.695	1.100	0.919	0.919	1.001	0.563	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1750.00	630000	DPF4-QPSM	0.0	10.5	9.07	135	0	Top	0	0.740	1.100	1.000	1.000	1.065	0.732	11.9			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1750.00	630000	DPF4-QPSM	0.0	10.5	9.07	135	0	Top	0	0.740	1.100	1.000	1.000	1.065	0.732	11.9			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.879	0.879	0.967	0.604	11.0			
Body	NR Band #77	100	QPSK	F	0055M	1:1	0.08	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	0.08	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05	1930.00	642000	DPF4-QPSM	0.0	10.5	10.10	135	0	Top	0	0.611	1.084	0.612	0.612	0.653	0.508	11.6			
Body	NR Band #77	100	QPSK	F	0055M	1:1	-0.05																				

Table 12-124

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dBm]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Adjusted 1g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor	P10 %	Limit [dBm]	Overall P10 Limit [dBm]	EFS P10 [dBm]
Body	NR Band n77 DSSS	100	C	005MSM	1-1	-0.09	3500.03	633334	CW/SRS	8.0	7.50	Back	0	0.632	1.122	0.209	0.709	0.780	0.487	9.4			
Body	NR Band n77	100	C	005MSM	1-1	-0.08	3750.00	650000	CW/SRS	8.0	6.03	Back	0	0.587	1.383	0.805	0.805	0.903	0.515	8.4			
Body	NR Band n77	100	C	005MSM	1-1	0.07	3930.00	663000	CW/SRS	8.0	6.12	Back	0	0.587	1.542	0.905	0.905	0.996	0.623	8.4			
Body	NR Band n77	100	C	005MSM	1-1	0.02	3930.00	662000	CW/SRS	8.0	6.12	Top	0	0.000	1.542	0.000	0.000	0.000	0.000	46.1			
Body	NR Band n77	100	C	005MSM	1-1	-0.06	3750.00	650000	CW/SRS	8.0	6.03	Bottom	0	0.423	1.383	0.876	0.876	0.948	0.464	9.7	8.4	7.0	
Body	NR Band n77	100	C	005MSM	1-1	0.02	3930.00	663000	CW/SRS	8.0	6.12	Bottom	0	0.426	1.542	0.657	0.657	0.721	0.452	9.8			
Body	NR Band n77	100	C	005MSM	1-1	-0.04	3930.00	662000	CW/SRS	8.0	6.12	Right	0	0.143	1.542	0.217	0.217	0.239	0.150	14.6			
Body	NR Band n77	100	C	005MSM	1-1	0.05	3930.00	663000	CW/SRS	8.0	6.12	Left	0	0.009	1.542	0.008	0.008	0.009	0.006	29.1			
ANSI/CES C19.1 1992 - SAFETY LIMIT																			Body				
Spatial Peak																			1.6 W/kg (mW/g)				
Uncontrolled (General Population)																			0.08 W/kg (mW/g)				

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Table 12-125

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	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	NR Band n77	100	G	0055M	1:1	-0.12	3930.00	662000	CW/SRS	8.0	6.60	Back	0	0.248	1.380	0.342	0.342	0.375	0.235		12.6		
Body	NR Band n77 DoD	100	G	0055M	1:1	0.06	3500.01	633334	CW/SRS	8.0	7.88	Top	0	0.436	1.028	0.448	0.448	0.493	0.308		11.4		
Body	NR Band n77	100	G	0055M	1:1	-0.10	3750.00	650000	CW/SRS	8.0	6.08	Top	0	0.334	1.556	0.553	0.553	0.606	0.378		10.5		
Body	NR Band n77	100	G	0055M	1:1	-0.14	3930.00	662000	CW/SRS	8.0	6.60	Top	0	0.343	1.380	0.473	0.473	0.520	0.326		11.2		
Body	NR Band n77	100	G	0055M	1:1	0.09	3930.00	662000	CW/SRS	8.0	6.60	Bottom	0	0.000	1.380	0.000	0.000	0.000	0.000		46.6		
Body	NR Band n77	100	G	0055M	1:1	-0.15	3930.00	662000	CW/SRS	8.0	6.60	Right	0	0.060	1.380	0.083	0.083	0.091	0.057		18.8		
Body	NR Band n77	100	G	0055M	1:1	0.01	3930.00	662000	CW/SRS	8.0	6.60	Left	0	0.000	1.380	0.000	0.000	0.000	0.000		46.6		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT														Body									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

Table 12-126

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	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	NR Band n77 DoD	100	A	0055M	1:1	0.08	3500.01	633334	CW/SRS	8.0	6.99	Back	0	0.637	1.262	0.854	0.804	0.884	0.553		8.9		
Body	NR Band n77	100	A	0055M	1:1	0.07	3750.00	650000	CW/SRS	8.0	7.52	Back	0	0.458	1.117	0.512	0.512	0.563	0.352		10.9		
Body	NR Band n77	100	A	0055M	1:1	0.05	3930.00	662000	CW/SRS	8.0	7.58	Back	0	0.421	1.102	0.464	0.464	0.510	0.319		11.3		
Body	NR Band n77	100	A	0055M	1:1	0.01	3930.00	662000	CW/SRS	8.0	7.58	Top	0	0.002	1.102	0.002	0.002	0.002	0.003		34.5		
Body	NR Band n77	100	A	0055M	1:1	-0.05	3930.00	662000	CW/SRS	8.0	7.58	Bottom	0	0.000	1.102	0.000	0.000	0.000	0.000		47.5		
Body	NR Band n77	100	A	0055M	1:1	0.01	3930.00	662000	CW/SRS	8.0	7.58	Right	0	0.002	1.102	0.077	0.077	0.085	0.031		19.1		
Body	NR Band n77	100	A	0055M	1:1	0.01	3930.00	662000	CW/SRS	8.0	7.58	Left	0	0.000	1.102	0.000	0.000	0.000	0.000		47.5		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT														Body									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

12.1 2.4 GHz Bluetooth SISO Standalone SAR

Table 12-127

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 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 Bluetooth LE	FHSS	H	0348M	85.25	0.00	2402.00	0	1	11.5	10.90	Back	0	0.234	1.148	1.021	0.274	0.345	0.216		16.5		
Body	2.4 GHz Bluetooth	FHSS	H	0348M	77.06	0.08	2441.00	39	1	11.5	11.50	Back	0	0.219	1.000	1.025	0.224	0.246	0.154		16.9		
Body	2.4 GHz Bluetooth	FHSS	H	0348M	77.06	0.08	2441.00	39	1	11.5	11.50	Top	0	0.009	1.000	1.025	0.009	0.010	0.007		36.8		
Body	2.4 GHz Bluetooth	FHSS	H	0348M	77.06	0.03	2441.00	39	1	11.5	11.50	Bottom	0	0.004	1.000	1.025	0.004	0.004	0.003		34.3		
Body	2.4 GHz Bluetooth	FHSS	H	0348M	77.06	0.09	2441.00	39	1	11.5	11.50	Right	0	0.204	1.000	1.025	0.209	0.230	0.144		17.2		
Body	2.4 GHz Bluetooth	FHSS	H	0348M	77.06	0.05	2441.00	39	1	11.5	11.50	Left	0	0.000	1.000	1.025	0.000	0.000	0.000		56.3		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT														Body									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

Table 12-128

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 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 Bluetooth	FHSS	F	0348M	77.06	-0.18	2441.00	39	1	12.0	11.80	Back	0	0.110	1.047	1.025	0.143	0.157	0.098		19.4		
Body	2.4 GHz Bluetooth LE	FHSS	F	0348M	85.37	-0.03	2402.00	0	1	12.0	11.43	Top	0	0.216	1.140	1.025	0.251	0.251	0.157		17.3		
Body	2.4 GHz Bluetooth	FHSS	F	0348M	77.06	-0.08	2441.00	39	1	12.0	11.80	Top	0	0.140	1.047	1.025	0.160	0.165	0.103		19.2		
Body	2.4 GHz Bluetooth	FHSS	F	0348M	77.06	0.01	2441.00	39	1	12.0	11.80	Bottom	0	0.000	1.047	1.025	0.000	0.000	0.000		50.6		
Body	2.4 GHz Bluetooth	FHSS	F	0348M	77.06	0.07	2441.00	39	1	12.0	11.80	Right	0	0.004	1.047	1.025	0.004	0.004	0.003		34.6		
Body	2.4 GHz Bluetooth	FHSS	F	0348M	77.06	0.07	2441.00	39	1	12.0	11.80	Left	0	0.002	1.047	1.025	0.002	0.002	0.003		37.6		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT														Body									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

12.2 2.4 GHz Bluetooth MIMO Standalone SAR

Table 12-129 | Plot A52

Exposure	Band / Mode	Service / Modulation	Ant.	Configuration	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 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 Bluetooth LE	FHSS	MIMO	1	0348M	85.45	0.00	2402.00	0	1	12.0	10.42	12.0	10.14	Back	5	0.105	1.426	1.018	0.106	0.106	0.124		24.2		
Body	2.4 GHz Bluetooth LE	FHSS	MIMO	2	0348M	85.45	0.00	2402.00	0	1	12.0	10.43	12.0	10.14	Back	5	0.372	1.459	1.018	0.545	0.545	0.341		20.9		
Body	2.4 GHz Bluetooth	FHSS	MIMO	1	0348M	77.12	0.03	2441.00	39	1	12.0	11.96	12.0	11.85	Back	5	0.105	1.035	1.024	0.104	0.104	0.113		23.0		
Body	2.4 GHz Bluetooth	FHSS	MIMO	2	0348M	77.12	0.03	2441.00	39	1	12.0	11.96	12.0	11.85	Back	5	0.285	1.035	1.024	0.303	0.313	0.208		21.0		
Body	2.4 GHz Bluetooth	FHSS	MIMO	N/A	0348M	77.12	0.11	2441.00	39	1	12.0	11.96	12.0	11.85	Top	5	0.185	1.035	1.024	0.192	0.211	0.132		23.0		
Body	2.4 GHz Bluetooth	FHSS	MIMO	N/A	0348M	77.12	0.06	2441.00	39	1	12.0	11.96	12.0	11.85	Bottom	5	0.002	1.035	1.024	0.003	0.003	0.003		49.8		
Body	2.4 GHz Bluetooth	FHSS	MIMO	N/A	0348M	77.12	0.03	2441.00	39	1	12.0	11.96	12.0	11.85	Right	5	0.264	1.035	1.024	0.280	0.308	0.193		21.4		
Body	2.4 GHz Bluetooth	FHSS	MIMO	N/A	0348M	77.12	0.05	2441.00	39	1	12.0	11.96	12.0	11.85	Left	5	0.000	1.035	1.024	0.000	0.000	0.000		55.6		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT														Body												
Spatial Peak														1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population														averaged over 1 gram												

Note: To achieve the 14 dBm maximum allowed MIMO power for Bluetooth shown in the documentation, Antenna H transmits at a maximum allowed power of 12 dBm, and Antenna F transmits at a maximum allowed power of 12 dBm.

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12.3 UWB Standalone SAR

Table 12-130| Plot A53

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Phablet	UWB	CW	UWB	0493M	1:1	0.02	6489.60	5	Back	0	0.000	0.000	
Phablet	UWB	CW	UWB	0493M	1:1	0.08	7987.20	9	Back	0	0.000	0.000	
Phablet	UWB	CW	UWB	0493M	1:1	0.05	6489.60	5	Front	0	0.000	0.000	
Phablet	UWB	CW	UWB	0493M	1:1	0.06	7987.20	9	Front	0	0.000	0.000	
Phablet	UWB	CW	UWB	0493M	1:1	0.09	6489.60	5	Top	0	0.001	0.000	
Phablet	UWB	CW	UWB	0493M	1:1	0.09	7987.20	9	Top	0	0.000	0.000	
Phablet	UWB	CW	UWB	0493M	1:1	0.01	6489.60	5	Right	0	0.001	0.000	Plot
Phablet	UWB	CW	UWB	0493M	1:1	0.07	7987.20	9	Right	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			
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)]	APD Exposure Ratio	Plot #
Phablet	UWB	CW	UWB	0493M	1:1	0.02	6489.60	5	Back	0	0.013	0.001	
Phablet	UWB	CW	UWB	0493M	1:1	0.08	7987.20	9	Back	0	0.019	0.001	
Phablet	UWB	CW	UWB	0493M	1:1	0.05	6489.60	5	Front	0	0.008	0.000	
Phablet	UWB	CW	UWB	0493M	1:1	0.06	7987.20	9	Front	0	0.008	0.000	
Phablet	UWB	CW	UWB	0493M	1:1	0.09	6489.60	5	Top	0	0.026	0.001	
Phablet	UWB	CW	UWB	0493M	1:1	0.09	7987.20	9	Top	0	0.021	0.001	
Phablet	UWB	CW	UWB	0493M	1:1	0.01	6489.60	5	Right	0	0.026	0.001	Plot
Phablet	UWB	CW	UWB	0493M	1:1	0.07	7987.20	9	Right	0	0.011	0.001	

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Table 12-131| Plot A54

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]	Exposure Ratio (1g SAR)	Plot #
Body	UWB	CW	UWB	0493M	1:1	0.01	6489.60	5	Back	0	0.000	0.000	
Body	UWB	CW	UWB	0493M	1:1	0.06	7987.20	9	Back	0	0.002	0.001	
Body	UWB	CW	UWB	0493M	1:1	0.04	6489.60	5	Top	0	0.001	0.001	
Body	UWB	CW	UWB	0493M	1:1	0.08	7987.20	9	Top	0	0.005	0.003	Plot
Body	UWB	CW	UWB	0493M	1:1	0.08	6489.60	5	Bottom	0	0.001	0.001	
Body	UWB	CW	UWB	0493M	1:1	0.06	7987.20	9	Bottom	0	0.001	0.001	
Body	UWB	CW	UWB	0493M	1:1	0.13	6489.60	5	Right	0	0.002	0.001	
Body	UWB	CW	UWB	0493M	1:1	0.01	7987.20	9	Right	0	0.002	0.001	
Body	UWB	CW	UWB	0493M	1:1	0.03	6489.60	5	Left	0	0.001	0.001	
Body	UWB	CW	UWB	0493M	1:1	0.08	7987.20	9	Left	0	0.002	0.001	
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)]	APD Exposure Ratio	Plot #
Body	UWB	CW	UWB	0493M	1:1	0.01	6489.60	5	Back	0	0.009	0.000	
Body	UWB	CW	UWB	0493M	1:1	0.06	7987.20	9	Back	0	0.021	0.001	
Body	UWB	CW	UWB	0493M	1:1	0.04	6489.60	5	Top	0	0.020	0.001	
Body	UWB	CW	UWB	0493M	1:1	0.08	7987.20	9	Top	0	0.023	0.001	Plot
Body	UWB	CW	UWB	0493M	1:1	0.08	6489.60	5	Bottom	0	0.016	0.001	
Body	UWB	CW	UWB	0493M	1:1	0.06	7987.20	9	Bottom	0	0.009	0.000	
Body	UWB	CW	UWB	0493M	1:1	0.13	6489.60	5	Right	0	0.021	0.001	
Body	UWB	CW	UWB	0493M	1:1	0.01	7987.20	9	Right	0	0.016	0.001	
Body	UWB	CW	UWB	0493M	1:1	0.03	6489.60	5	Left	0	0.014	0.001	
Body	UWB	CW	UWB	0493M	1:1	0.08	7987.20	9	Left	0	0.031	0.002	

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12.4 NFC Standalone SAR

Table 12-132| Plot A55

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	0347M	0.09	13.60	Back	0	0.000	0.000	Plot
Phablet	NFC	B	NFC	0347M	0.14	13.60	Front	0	0.000	0.000	
Phablet	NFC	B	NFC	0347M	0.05	13.60	Top	0	0.000	0.000	
Phablet	NFC	B	NFC	0347M	0.02	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 12-133| Plot A56

Exposure	Band / Mode	Signal Type	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NFC	B	NFC	0347M	0.04	13.60	Back	0	0.001	0.001	Plot
Body	NFC	B	NFC	0347M	0.06	13.60	Top	0	0.000	0.000	
Body	NFC	B	NFC	0347M	0.02	13.60	Bottom	0	0.000	0.000	
Body	NFC	B	NFC	0347M	-0.07	13.60	Right	0	0.000	0.000	
Body	NFC	B	NFC	0347M	0.04	13.60	Left	0	0.000	0.000	
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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13 SAR REFERENCE DATA SUMMARY

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

Table 13-1

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 (1g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	0314M	98.74	0.04	2437.00	6	1.0	20.0	19.20	Right Cheek	0	0.061	1.202	1.013	0.074	0.108	0.663	0.414		31.1	29.5
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 13-2| Plot A57

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 (1g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	F	0314M	99.16	-0.03	2437.00	6	1.0	20.0	19.71	Left Tib	0	0.284	1.009	1.008	0.306	0.207	0.946	0.595		24.9	24.9
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 13-3| 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]	EFS PLimit [dBm]
Body-worn/Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	0314M	98.74	0.00	2437.00	6	1.0	18.0	17.19	Back	5	0.423	1.205	1.013	0.516	0.828	0.568	0.555		20.7	17.0
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 13-4

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]	EFS PLimit [dBm]
Body-worn/Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	F	0314M	99.16	0.02	2437.00	1	1.0	18.0	17.60	Back	5	0.179	1.006	1.008	0.198	0.385	0.220	0.116		24.8	17.0
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 13-5| Plot A59

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]	EFS PLimit [dBm]
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	0314M	98.74	-0.01	2440.00	11	1.0	13.0	12.48	Back	0	1.040	1.127	1.013	1.187	1.175	1.906	0.816		12.1	12.0
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 13-6

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]	EFS PLimit [dBm]
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	F	0314M	99.16	-0.06	2437.00	6	1.0	13.0	12.04	Top	0	0.445	1.247	1.008	0.559	0.563	0.615	0.384		15.3	12.0
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 13-16

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]	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	5 GHz WiFi / IEEE 802.11ac	80	OFDM	F	0347M	25.53	-0.09	5290.00	58	U-NI-2A	29.3	10.0	9.30	Top	0	0.930	1.202	1.189	0.829	0.734	0.812	0.970		10.8	9.0
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 13-17| Plot A62

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]	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	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	0347M	94.93	0.09	5853.00	175	U-NI-4	29.3	10.0	9.70	Back	0	0.850	1.059	1.052	1.059	1.107	1.305	0.728	Plot	9.7	9.0
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

13.4 5 GHz WIFI MIMO Spot-check Verification for Data Referencing

Table 13-18| Plot A63

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 [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Head	5 GHz WiFi IEEE 802.11n	40	OFDM	MIMO	0348M	97.82	-0.83	5755.00	155	U-NI-3	27.0	-8.0	-17.99	-8.0	-17.99	Right T1	0	0.822	1.353	1.022	0.967	0.806	1.022	0.633	Plot	-18.2	-18.2
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram												

Note: To achieve the 13 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 13 dBm.

Table 13-19

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/hotspot	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0817M	99.14	-0.85	5680.00	138	U-NI-2C	58.5	17.0	-16.12	17.0	-16.54	Back	5	0.789	1.225	1.000	0.975	1.186	1.073	0.670		17.1	16.0
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram												

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 #	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]	EFS PLimit [dBm]
Phabnet	5 GHz WPA/WiFi IEEE 802.11ac	80	OFDM	MIMO	0347M	99.14	-0.83	5610.00	122	U-NI-2C	58.5	17.0	-16.16	17.0	-16.66	Top	0	1.980	1.213	1.000	1.456	1.370	1.602	0.400		19.3	16.0
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Phabnet 4.9 W/kg (mW/g) averaged over 10 grams												

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 13-21

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	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	MIMO	0347M	99.14	-0.81	5855.00	175	U-NI-4	58.5	-10.0	-8.60	-10.0	-8.59	Top	0	0.854	1.380	1.000	1.189	1.077	1.189	0.743		6.1	6.0
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram												

Note: To achieve the 13 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 13 dBm.

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Table 13-22

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 (1g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	F	0347M	99.27	0.02	5965.00	3	16.3	17.0	16.38	Right Tel	0	0.017	1.153	1.007	0.020	0.090	0.168	0.105		34.0	26.3
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram									
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 APO From Reference Model [W/m² (4cm²)]	Adjusted APO [W/m² (4cm²)]	APO Exposure Ratio	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	F	0347M	99.27	0.02	5965.00	3	16.3	17.0	16.38	Right Tel	0	0.042	1.153	1.007	0.049	0.549	0.415	0.021		41.1	26.3

Table 13-23

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 (1g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	E	0347M	99.56	-0.18	5965.00	3	16.3	17.0	16.73	Right T1	0	0.338	1.069	1.004	0.341	0.389	0.857	0.536		21.6	21.0
ANSI/IEEE C95.1-1992 - 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 APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Reported APD From Reference Model 1g [W/m² (4cm²)]	Adjusted APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	E	0347M	99.56	-0.14	5965.00	3	16.3	17.0	16.71	Right T1	0	2.400	1.069	1.004	2.576	2.896	6.470	0.524		23.8	21.0

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Table 13-24

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]	EFS PLimit [dBm]
Body-worn	6 GHz WIFV / IEEE 802.11ax	160	OFDM	F	0347M	99.56	0.08	6505.00	111	68.1	15.0	14.90	Back	5	0.183	1.023	1.004	0.188	0.486	0.210	0.130	22.2	14.0	
ANS/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										
Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	Reported APO From Reference Model [W/m² (4cm²)]	Reported APO with Multi Tx Factor [W/m² (4cm²)]	APD Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Body-worn	6 GHz WIFV / IEEE 802.11ax	160	OFDM	F	0347M	99.56	0.08	6505.00	111	68.1	15.0	14.90	Back	5	1.200	1.023	1.004	1.233	3.108	1.356	0.068	25.0	14.0	

Table 13-25| Plot A64

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]	EFS PLimit [dBm]
Body-worn	6 GHz WIFV / IEEE 802.11ax	160	OFDM	E	0347M	99.27	-0.14	6025.00	15	68.1	15.0	14.88	Back	5	0.389	1.028	1.007	0.403	0.501	0.443	0.277	Plot	18.5	14.0
ANS/IEEE C95.1-1992 - 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/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	Reported APO From Reference Model 1g [W/kg]	Reported APO with Multi Tx Factor [W/m² (4cm²)]	APD Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Body-worn	6 GHz WIFV / IEEE 802.11ax	160	OFDM	E	0347M	99.27	-0.14	6025.00	15	68.1	15.0	14.88	Back	5	2.530	1.028	1.007	2.619	3.276	2.881	0.144	Plot	21.8	14.0

Table 13-26

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 with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (10g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Phablet	6 GHz WIFV / IEEE 802.11ax	160	OFDM	F	0347M	99.56	-0.09	6345.00	79	68.1	15.0	14.29	Top	0	0.329	1.178	1.004	0.389	0.669	0.428	0.107	23.0	14.0	
ANS/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							Phablet 4.0 W/kg (mW/g) averaged over 10 grams	
Exposure	Band/ Mode	Bandwidth [MHz]	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 APO from Reference Model [W/m² (4cm²)]	Reported APO with Multi Tx Factor [W/m² (4cm²)]	APD Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Phablet	6 GHz WIFV / IEEE 802.11ax	160	OFDM	F	0347M	99.56	-0.09	6345.00	79	68.1	15.0	14.29	Top	0	7.730	1.178	1.004	9.142	15.726	17.299	0.865	16.3	14.0	

Table 13-27| Plot A65

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 10 [W/kg]	Adjusted 10g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (10g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Phablet	6 GHz WIFV / IEEE 802.11ax	160	OFDM	E	0347M	99.27	0.05	6025.00	15	68.1	15.0	14.88	Top	0	0.531	1.028	1.007	0.550	0.550	0.605	0.152	Plot	21.5	14.0
ANS/IEEE C95.1-1992 - 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 APO From Reference Model 1g [W/kg]	Reported APO with Multi Tx Factor [W/m² (4cm²)]	APD Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Phablet	6 GHz WIFV / IEEE 802.11ax	160	OFDM	E	0347M	99.27	0.05	6025.00	15	68.1	15.0	14.88	Top	0	12.300	1.028	1.007	12.733	12.768	14.067	0.703	Plot	14.9	14.0

Table 13-28

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]	EFS PLimit [dBm]
Body	6 GHz WIFV / IEEE 802.11ax	160	OFDM	F	0347M	99.56	-0.10	6505.00	111	68.1	10.0	9.77	Top	0	0.588	1.054	1.004	0.622	0.980	0.680	0.428		12.0	9.0
ANS/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							Study 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 APO From Reference Model 1g [W/kg]	Reported APO with Multi Tx Factor [W/m² (4cm²)]	APD Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Body	6 GHz WIFV / IEEE 802.11ax	160	OFDM	F	0347M	99.56	-0.10	6505.00	111	68.1	10.0	9.77	Top	0	2.900	1.054	1.004	3.009	4.848	5.376	0.168		16.1	9.0

Table 13-29

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]	EFS PLimit [dBm]
Body	6 GHz WIFV / IEEE 802.11ax	160	OFDM	E	0347M	99.27	0.04	6025.00	15	68.1	10.0	9.80	Back	0	0.661	1.047	1.007	0.697	0.811	0.767	0.480	11.5	9.0	
ANS/IEEE C95.1-1992 - 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/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	Reported APO From Reference Model 1g [W/kg]	Reported APO with Multi Tx Factor [W/m² (4cm²)]	APD Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Body	6 GHz WIFV / IEEE 802.11ax	160	OFDM	E	0347M	99.27	0.04	6025.00	15	68.1	10.0	9.80	Back	0	1.330	1.047	1.007	1.511	3.793	3.862	0.194	15.5	9.0	

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Table 13-30| Plot A66

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 with Multi Tx Factor [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Head	6 GHz WIFV IEEE 802.11ax	40	OFDM	MIMO	0347M	99.49	0.14	5685.00	147	32.5	17.0	16.70	17.0	16.14	Right Tilt	0	0.365	1.072	1.005	0.393	0.432	0.840	0.525	Plot	21.0	20.3
ANS/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							Head 1.6 W/kg (mW/g) averaged over 2 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]	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 APO From Reference Model (1g) [W/kg]	Adjusted APO [W/m² (4cm²)]	APD Exposure Ratio	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Head	6 GHz WIFV IEEE 802.11ax	40	OFDM	MIMO	0347M	99.49	-0.14	5685.00	147	32.5	17.0	16.70	17.0	16.14	Right Tilt	0	2.130	1.072	1.005	2.489	2.824	5.159	0.366	Plot	24.0	20.3

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 13-31

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 Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (1g SAR)	Plot #	PLimit [dBm]	EPS PLimit [dBm]
Body worn	6 GHz WPV IEEE 802.11aa	160	OFDM	MIMO	0347M	99.58	-0.00	6421.00	375	136.1	11.0	13.10	15.0	14.80	Back	5	0.205	1.413	1.004	0.799	0.281	0.281	0.182		23.3	14.0	
ANSI/IEEE C95.1 1992 - 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]	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 APO From Reference Model 1g [W/m² (4cm²)]	Adjusted APO [W/m² (4cm²)]	Reported APO with Multi Tx Factor [W/m² (4cm²)]	APO Exposure Ratio with Multi Tx Factor	Plot #	PLimit [dBm]	EPS PLimit [dBm]
Body worn	6 GHz WPV IEEE 802.11aa	160	OFDM	MIMO	0347M	99.58	-0.00	6421.00	375	136.1	11.0	13.10	15.0	14.80	Back	5	1.320	1.413	1.004	1.873	0.281	1.873	1.873	0.004		23.2	14.0

Note: To achieve the 18 dBm maximum allowed SAR (power) shown in the documentation, the reference scenario is a maximum allowed power of 12.6 dBm.

Note: To achieve the 18 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 13 dBm.

Table 13-32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Reported SAR From Reference Model 1g [W/kg]	Adjusted 10g SAR with Multi Tx Factor [W/kg]	Exposure Ratio with Multi Tx Factor (10g SAR)	Plot #	PLimit [dBm]	EPS PLimit [dBm]		
Phablet	6 GHz WPV IEEE 802.11ax	160	OFDM	MIMO	0347M	99.56	-0.10	6085.00	207	136.1	15.0	13.80	15.0	14.75	Top	0	0.444	1.338	1.004	0.588	0.658	0.647	0.162		21.2	14.0		
ANSI/IEEE C95.1 1992 - 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]	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)]	Adjusted APO [W/m² (4cm²)]	Reported APO with Multi Tx Factor [W/m² (4cm²)]	APO Exposure Ratio with Multi Tx Factor	Plot #	PLimit [dBm]	EPS PLimit [dBm]		
Phablet	6 GHz WPV IEEE 802.11ax	160	OFDM	MIMO	0347M	99.56	-0.10	6085.00	207	136.1	15.0	13.80	15.0	14.75	Top	0	10.800	1.338	1.004	13.630	15.371	15.305	0.446		14.0	14.0		

Note: To achieve the 10 g SAR (4 cm²) limit, the maximum power level is 15.371 dBm (4.46 W) for the Phablet. The maximum power level is 15.305 dBm (4.40 W) for the Tablet. The maximum power level is 15.000 dBm (3.16 W) for the Smartphone. The maximum power level is 14.750 dBm (3.16 W) for the Smartwatch. The maximum power level is 14.500 dBm (3.16 W) for the Smartwatch. The maximum power level is 14.250 dBm (3.16 W) for the Smartwatch. The maximum power level is 14.000 dBm (3.16 W) for the Smartwatch. The maximum power level is 13.750 dBm (3.16 W) for the Smartwatch. The maximum power level is 13.500 dBm (3.16 W) for the Smartwatch. The maximum power level is 13.250 dBm (3.16 W) for the Smartwatch. The maximum power level is 13.000 dBm (3.16 W) for the Smartwatch. The maximum power level is 12.750 dBm (3.16 W) for the Smartwatch. The maximum power level is 12.500 dBm (3.16 W) for the Smartwatch. The maximum power level is 12.250 dBm (3.16 W) for the Smartwatch. 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The maximum power level is -65.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -66.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -66.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -66.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -66.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -67.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -67.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -67.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -67.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -68.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -68.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -68.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -68.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -69.000 dBm (3.16 W) for the Smartwatch. 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The maximum power level is -76.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -76.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -76.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -77.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -77.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -77.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -77.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -78.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -78.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -78.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -78.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -79.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -79.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -79.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -79.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -80.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -80.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -80.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -80.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -81.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -81.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -81.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -81.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -82.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -82.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -82.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -82.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -83.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -83.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -83.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -83.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -84.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -84.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -84.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -84.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -85.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -85.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -85.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -85.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -86.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -86.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -86.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -86.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -87.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -87.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -87.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -87.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -88.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -88.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -88.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -88.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -89.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -89.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -89.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -89.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -90.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -90.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -90.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -90.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -91.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -91.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -91.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -91.750 dBm (3.16 W) for the Smartwatch. The maximum power level is -92.000 dBm (3.16 W) for the Smartwatch. The maximum power level is -92.250 dBm (3.16 W) for the Smartwatch. The maximum power level is -92.500 dBm (3.16 W) for the Smartwatch. The maximum power level is -92.750 dBm (3.16 W) for the Smartwatch. The maximum power

Note: To achieve the 18 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 13 dBm.

Table 13-33| Plot A67

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 #	PLimit [dBm]	EPS PLimit [dBm]		
Body	6 GHz WPV IEEE 802.11aa	160	OFDM	MIMO	0347M	99.55	-0.03	6505.00	111	136.1	10.0	9.85	10.0	9.98	Top	0	0.716	1.236	1.004	0.889	1.157	0.980	0.612	Plot	10.5	9.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																									Body 1.6 W/kg (mW/g) averaged over 1 gram			
Exposure	Band / Mode	Bandwidth [MHz]	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 APO From Reference Model 1g [W/m² (4cm²)]	Adjusted APO [W/m² (4cm²)]	APO Exposure Ratio with Multi Tx Factor	Plot #	PLimit [dBm]	EPS PLimit [dBm]		
Body	6 GHz WPV IEEE 802.11aa	160	OFDM	MIMO	0347M	99.55	-0.03	6505.00	111	136.1	10.0	9.85	10.0	9.98	Top	0	1.320	1.236	1.004	4.381	5.735	4.837	0.241	Plot	14.0	9.0		

Note: To achieve the 18 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 13 dBm.

13.7 2.4 GHz Bluetooth Spot-check Verification for Data Referencing

Table 13-34

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]	Reported SAR From Reference Model 1g [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	EPS PLimit [dBm]
Head	2.4 GHz Bluetooth	FHSS	H	0334M	77.06	0.02	2402.00	0	1	20.0	19.74	Left Cheek	0	0.064	1.062	1.025	0.070	0.073	0.940	0.588		30.5	30.3
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 13-35| Plot A68

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]	Reported SAR From Reference Model 1g [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	EPS PLimit [dBm]
Head	2.4 GHz Bluetooth	FHSS	F	0334M	77.06	-0.05	2441.00	39	1	20.0	19.99	Left Cheek	0	0.196	1.002	1.025	0.201	0.244	0.802	0.501	Plot	25.9	25.0
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 13-36| Plot A69

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]	Reported SAR From Reference Model 1g [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	EPS PLimit [dBm]
Body worn/Hotspot	2.4 GHz Bluetooth	FHSS	H	0334M	77.06	0.07	2402.00	0	1	20.0	19.74	Back	5	0.561	1.062	1.025	0.611	0.557	0.990	0.619	Plot	21.1	21.1
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 13-37

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]	Reported SAR From Reference Model 1g [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	EPS PLimit [dBm]
Body worn	2.4 GHz Bluetooth	FHSS	F	0334M	77.06	0.08	2441.00	39	1	20.0	19.99	Back	5	0.298	1.002	1.025	0.306	0.381	0.787	0.492		24.1	23.1
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak Uncontrolled Exposure/General Population																							

Table 13-38 | Plot A70

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]	Reported SAR From Reference Model 1g [W/kg]	Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	PLimit [dBm]	EPS PLimit [dBm]
Phablet	2.4 GHz Bluetooth	FHSS	F	0348M	77.06	0.06	2441.00	39	1	20.0	19.99	Top	0	0.676	1.002	1.025	0.694	0.770	1.785	0.446	Plot	24.5	23.1
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Phablet											
Spatial Peak												4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population												averaged over 10 grams											

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13.8 2.4 GHz Bluetooth MIMO Spot-check Verification for Data Referencing

Table 13-39

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]	Reported SAR From Reference Model 1g [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Head	2.4 GHz Bluetooth	FHSS	MIMO	0334M	77.12	0.03	2402.00	0	1	15.0	13.99	16.0	15.23	Left Tr	0	0.123	1.262	1.024	0.139	0.145	0.987	0.617		25.6	25.6
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram											

Note: To achieve the 18.5 dBm maximum allowed MIMO power shown in the documentation, Antenna H transmits at a maximum allowed power of 15 dBm, and Antenna F transmits at a maximum allowed power of 16 dBm.

Table 13-40

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]	Reported SAR From Reference Model 1g [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Body worn	2.4 GHz Bluetooth	FHSS	MIMO	0334M	77.12	0.19	2402.00	0	1	15.0	13.99	16.0	15.23	Back	5	0.170	1.262	1.024	0.220	0.177	0.968	0.618	Plot	24.2	24.2
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: To achieve the 18.5 dBm maximum allowed MIMO power shown in the documentation, Antenna H transmits at a maximum allowed power of 15 dBm, and Antenna F transmits at a maximum allowed power of 16 dBm.

Table 13-41

TABLE 10-1																										
Exposure	Band / Mode	Service / Modulation	Ant.	Configuration	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]	Reported SAR From Reference Model 10g [W/kg]	Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	PLimit [dBm]	EFS PLimit [dBm]
Phantom	2.4 GHz Bluetooth	FHSS	MIMO	1	0348M	77.12	0.07	2402.00	0	1	15.0	13.99	16.0	15.23	Back	0	0.098	1.262	1.024	0.127	0.112	0.955	0.143		30.6	24.2
Phantom	2.4 GHz Bluetooth	FHSS	MIMO	2	0348M	77.12	0.03	2402.00	0	1	15.0	13.99	16.0	15.23	Back	0	0.051	1.262	1.024	0.084	0.102	0.964	0.036		40.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Phantom												
Spatial Peak														4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population														averaged over 10 grams												

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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SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D04v01.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 5 mm was considered to ensure compliance with all body-worn accessories available in the marketplace.
7. 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.
8. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 15 for variability analysis.
9. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 7.7 for more details).
10. Per FCC KDB Publication 648474 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.
11. This device supports dynamic antenna tuning for some bands. Per FCC Guidance, SAR was measured according to the normally required SAR measurement configurations with tuner active. The auto-tune state determined by the device was verified before and after each SAR measurement and is listed in tables above. Please see Section 16 for supplemental data.
12. 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.
13. 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).
14. Per October 2020 TCB Workshop notes, absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
15. 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.
16. When testing Head/Body-worn/Hotspot/Phablet exposure conditions, the DUT is in closed configuration. When testing Body exposure conditions, the DUT is in an open 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

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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, 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.
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 n77 C-Band SAR measured at the highest output power channel in a given a test configuration was > 0.4 W/kg for 1g evaluations and > 1 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
7. Per FCC KDB Publication 447498 D04v01, when the reported NR Band n41 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations and > 1.5 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
8. SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.

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9. For final implementation, NR Band n41 and n77 slot configuration is synchronized using maximum duty cycle of 100%. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.
10. Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 – 3544.98 MHz).
11. This device uses two transmit pathways for n41 operations (Path 1 and Path 2). For each exposure condition, the pathway with the highest target power was fully evaluated. Conducted powers for the other path.

WLAN Notes:

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

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Bluetooth Notes

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

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 Closed Power Density Results

Table 14-1| Plot A71

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 paPD (W/m²)	Scaled Normal paPD (W/m²)	Total paPD (W/m²)	Scaled Total paPD (W/m²)	Plot #
6505.00	111	802.11ax	OFDM	160	15.00	14.90	N/A	N/A	0.11	2	F	0348M	68.05	Back	99.56	0.125	1.520	1.554	1.023	1.004	1.620	2.586	1.800	2.873	
5965.00	3	802.11ax	OFDM	40	17.00	16.38	N/A	N/A	-0.05	2	F	0348M	16.25	Front	99.27	0.125	0.329	1.554	1.153	1.007	0.330	0.595	0.368	0.664	
6345.00	79	802.11ax	OFDM	160	15.00	14.20	N/A	N/A	-0.15	2	F	0348M	68.05	Top	99.56	0.125	-	1.554	1.130	1.004	1.640	3.382	2.930	5.385	
6025.00	15	802.11ax	OFDM	160	N/A	N/A	15.00	14.88	-0.17	2	E	0348M	68.05	Back	99.27	0.125	1.730	1.554	1.028	1.007	2.000	3.217	2.080	3.346	
5965.00	3	802.11ax	OFDM	40	N/A	N/A	17.00	16.71	0.14	2	E	0348M	16.25	Front	99.56	0.125	1.100	1.554	1.069	1.004	1.540	2.569	1.810	3.019	
6025.00	15	802.11ax	OFDM	160	N/A	N/A	15.00	14.88	0.13	2	E	0348M	68.05	Top	99.27	0.125	-	1.554	1.028	1.007	3.250	5.228	3.890	6.258	Plot
6825.00	175	802.11ax	OFDM	160	15.00	13.50	15.00	14.80	0.14	2	MMO	0348M	136.10	Back	99.56	0.125	2.080	1.554	1.413	1.004	1.780	3.924	2.170	4.784	
6885.00	147	802.11ax	OFDM	40	17.00	16.70	17.00	16.74	0.14	2	MMO	0348M	32.50	Front	99.49	0.125	1.350	1.554	1.072	1.005	1.810	3.030	2.160	3.600	
6985.00	207	802.11ax	OFDM	160	15.00	13.80	15.00	14.75	0.17	2	MMO	0348M	136.10	Top	99.56	0.125	1.720	1.554	1.318	1.004	2.180	4.483	3.100	6.375	
6985.00	207	802.11ax	OFDM	160	15.00	13.80	15.00	14.75	-0.16	8.58	MMO	0348M	136.10	Top	99.56	0.125	2.140	1.554	1.318	1.004	1.730	3.558	1.900	3.907	
47 CFR §1.1319 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population												Power Density 10 W/m² averaged over 4 cm²													

14.2 6 GHz WIFI Open Power Density Results

Table 14-2| Plot A72

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 paPD (W/m²)	Scaled Normal paPD (W/m²)	Total paPD (W/m²)	Scaled Total paPD (W/m²)	Plot #		
6505.00	111	802.11ax	OFDM	160	10.00	9.77	N/A	N/A	-0.04	2	F	0348M	68.10	Top	99.56	0.125	0.628	1.554	1.054	1.004	0.757	1.245	1.100	1.809	Plot		
6025.00	15	802.11ax	OFDM	160	N/A	N/A	10.00	9.80	-0.14	2	E	0348M	68.10	Back	99.56	0.125	0.924	1.554	1.047	1.004	0.825	1.348	0.866	1.415			
6505.00	111	802.11ax	OFDM	160	10.00	9.86	10.00	9.08	0.12	2	MMO	0348M	136.11	Top	99.56	0.125	0.891	1.554	1.256	1.004	0.793	1.529	1.020	1.967			
47 CFR §1.1319 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population																		Power Density 10 W/m² averaged over 4 cm²									

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14.3 UWB Closed Power Density Results

Table 14-3| Plot A73

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	0.10	2	UWB	0493M	Top	0.125	0.552	1.554	0.194	0.301	0.220	0.342	Plot
6489.60	5	CW	-0.17	9.24	UWB	0493M	Top	0.125	0.614	1.554	0.200	0.311	0.218	0.339	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population						Power Density 10 W/m ² averaged over 4 cm ²									

14.4 UWB Open Power Density Results

Table 14-4| Plot A74

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 #
7987.20	9	CW	0.16	2	UWB	0493M	Top	0.125	0.579	1.554	0.168	0.261	0.170	0.264	Plot
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. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
3. 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.
4. 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.
5. 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 $d=2\text{mm}$.
6. psPD for MIMO was evaluated by making a measurement with both antennas transmitting simultaneously.
7. PTP-PR algorithm was used during psPD measurement and calculations.
8. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04.
9. 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
Body-worn SAR Measurement Variability Results

BODY-WORN 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)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)	
3900	3930.00	650000	NR Band n77, 100 MHz Bandwidth	QPSK, 1 RB, 1 Offset	Back	5	F	0.933	0.883	1.06	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 15-2
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Spacing	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)	
750	707.50	23095	LTE Band 12, MHz Bandwidth	QPSK, 25 RB, 12 Offset	Top	0	E	1.000	0.999	1.00	N/A	N/A	N/A	N/A
850	831.50	26865	LTE Band 26 (Cell), MHz Bandwidth	QPSK, 1 RB, 1 Offset	Top	0	E	1.060	1.050	1.01	N/A	N/A	N/A	N/A
1750	1770.00	132572	LTE Band 66, 20 MHz Bandwidth	QPSK, 50 RB, 25 Offset	Top	0	G	0.932	0.927	1.01	N/A	N/A	N/A	N/A
2600	2593.00	40620	LTE Band 41, 20 MHz Bandwidth	QPSK, 1 RB, 0 Offset	Top	0	G	0.873	0.865	1.01	N/A	N/A	N/A	N/A
1900	1882.50	376500	NR Band 25, 40 MHz Bandwidth	CP-OFDM, 1RB 1 Offset	Right	0	G	0.972	0.917	1.06	N/A	N/A	N/A	N/A
3500	3500.01	633334	NR Band n77 DoD, 100 MHz Bandwidth	CP-OFDM, 1RB 1 Offset	Top	0	F	0.970	0.963	1.01	N/A	N/A	N/A	N/A
3750	3750.00	633334	NR Band n70, 100 MHz Bandwidth	QPSK, 1RB 1 Offset	Top	0	F	0.896	0.801	1.12	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram						

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 LTE Band 41 Power Class 2 and Power Class 3 Linearity

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

Table 16-1
LTE Band 41 Antenna B Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	26.5
Measured Output Power (dBm)	23.99	24.95
Measured SAR (W/kg)	0.018	0.014
Measured Power (mW)	250.61	312.61
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	158.64	135.36
% deviation from expected linearity		-8.85%

LTE B41 SAR for PC2 and PC3 Operations

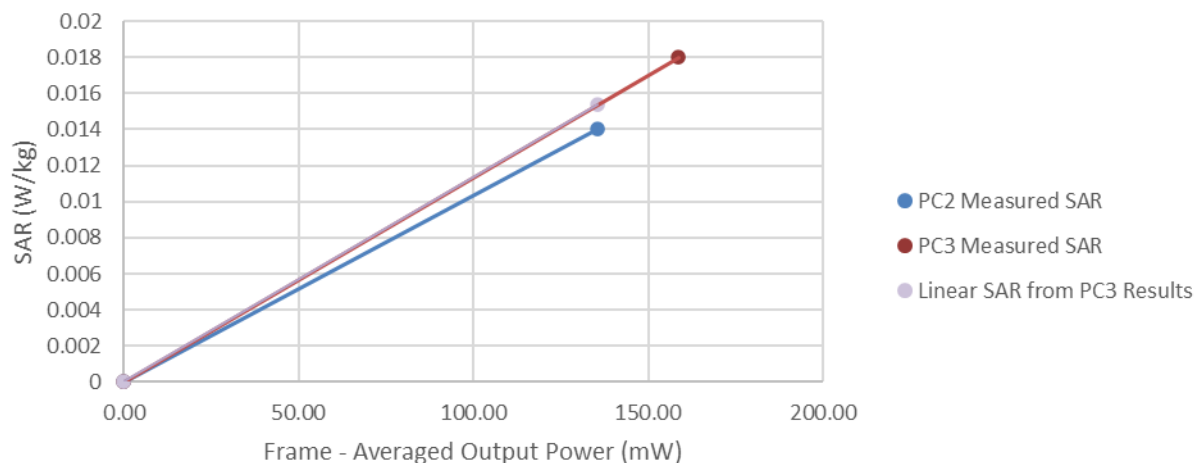


Figure 16-1
LTE Band 41 Antenna B Head Linearity

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Table 16-2
LTE Band 41 Antenna G Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	19.0	20.6
Measured Output Power (dBm)	17.40	19.35
Measured SAR (W/kg)	0.777	0.804
Measured Power (mW)	54.95	86.10
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	34.79	37.28
% deviation from expected linearity		-3.45%

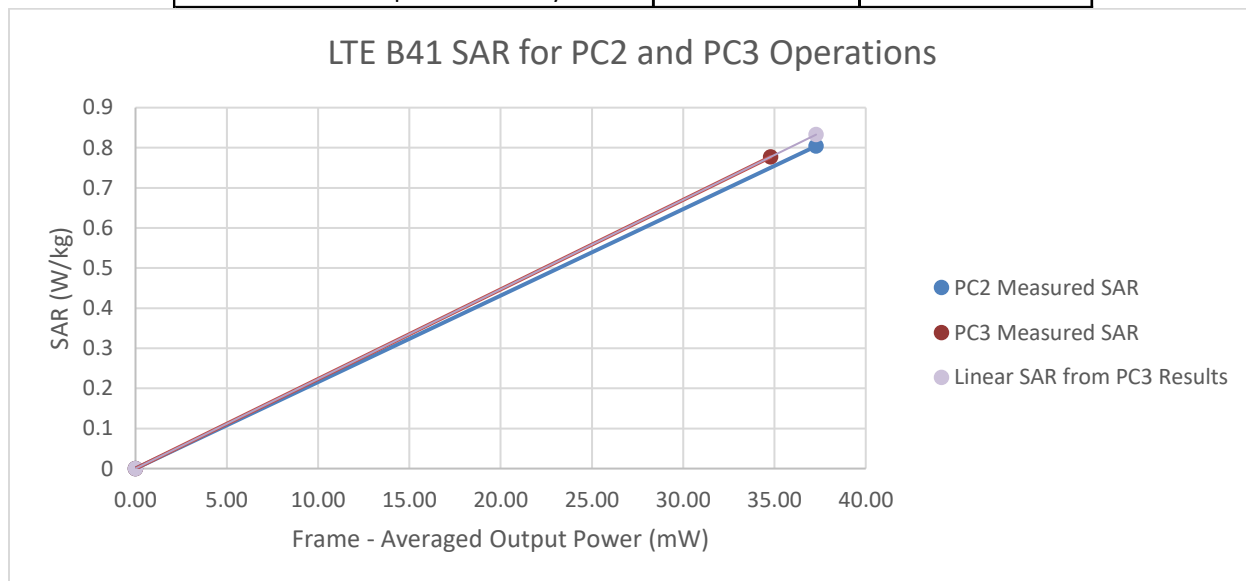


Figure 16-2
LTE Band 41 Antenna G Head Linearity

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Table 16-3
LTE Band 41 Antenna B Body-worn/Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	20.5	22.1
Measured Output Power (dBm)	19.75	21.32
Measured SAR (W/kg)	0.383	0.392
Measured Power (mW)	94.41	135.52
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	59.76	58.68
% deviation from expected linearity		4.23%

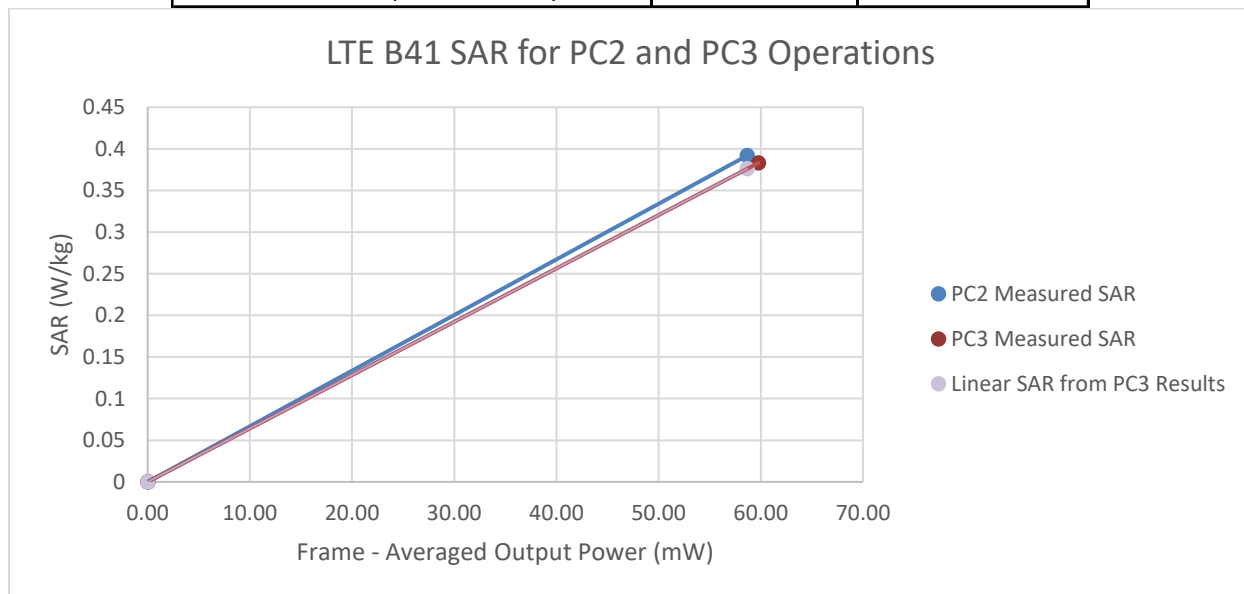


Figure 16-3
LTE Band 41 Antenna B Body-worn/Hotspot Linearity

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Table 16-4
LTE Band 41 Antenna G Body-worn/Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	19.5	22.1
Measured Output Power (dBm)	19.16	20.92
Measured SAR (W/kg)	0.717	0.767
Measured Power (mW)	82.41	123.59
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	52.17	53.52
% deviation from expected linearity		4.28%

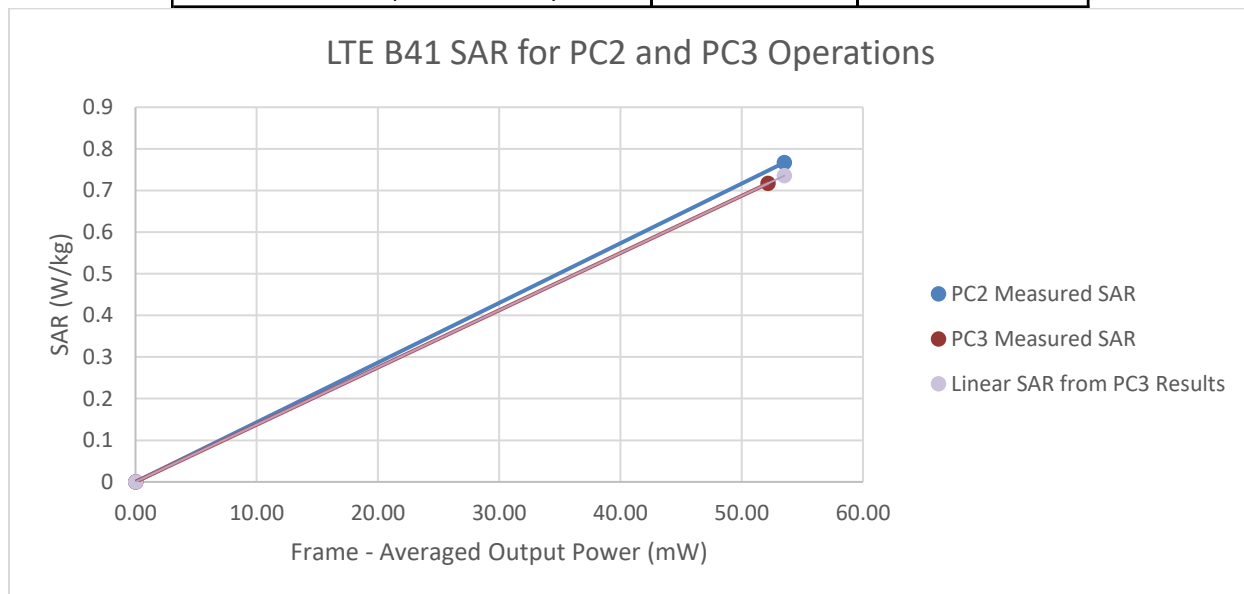


Figure 16-4
LTE Band 41 Antenna G Body-worn/Hotspot Linearity

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Table 16-5
LTE Band 41 Antenna B Body Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.0	15.6
Measured Output Power (dBm)	13.13	14.83
Measured SAR (W/kg)	0.559	0.575
Measured Power (mW)	20.56	30.41
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.01	13.17
% deviation from expected linearity		1.67%

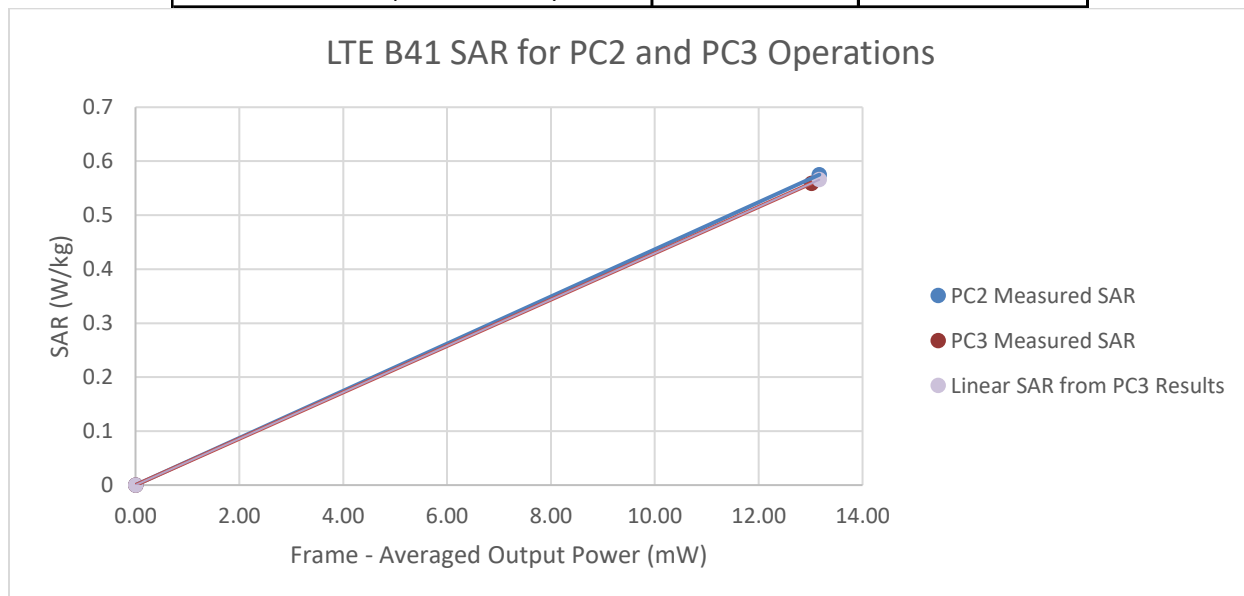


Figure 16-5
LTE Band 41 Antenna B Body Linearity

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Table 16-6
LTE Band 41 Antenna G DSI = 0 (F/O Body) Body Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.0	23.6
Measured Output Power (dBm)	20.57	22.27
Measured SAR (W/kg)	0.638	0.644
Measured Power (mW)	114.02	168.66
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	72.18	73.03
% deviation from expected linearity		-0.23%

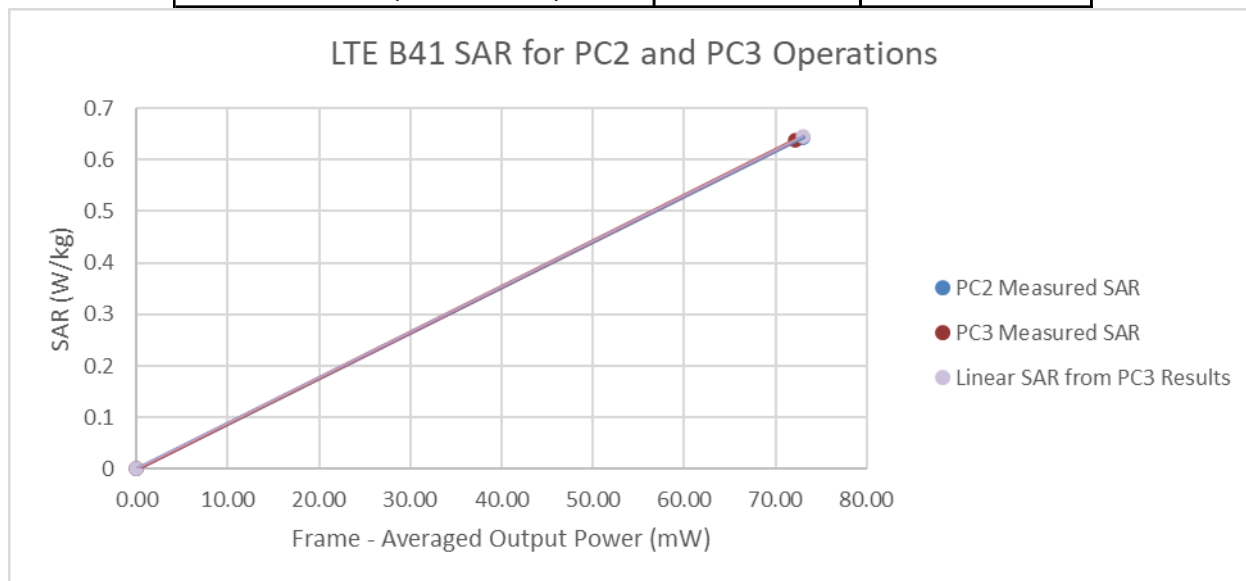


Figure 16-6
LTE Band 41 Antenna G DSI = 0 (F/O Body) Body Linearity

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Table 16-7
LTE Band 41 Antenna G DSI = 4 (F/O Grip) Body Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	11.5	13.1
Measured Output Power (dBm)	10.32	12.09
Measured SAR (W/kg)	0.866	0.873
Measured Power (mW)	10.76	16.18
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	6.81	7.01
% deviation from expected linearity		-1.96%

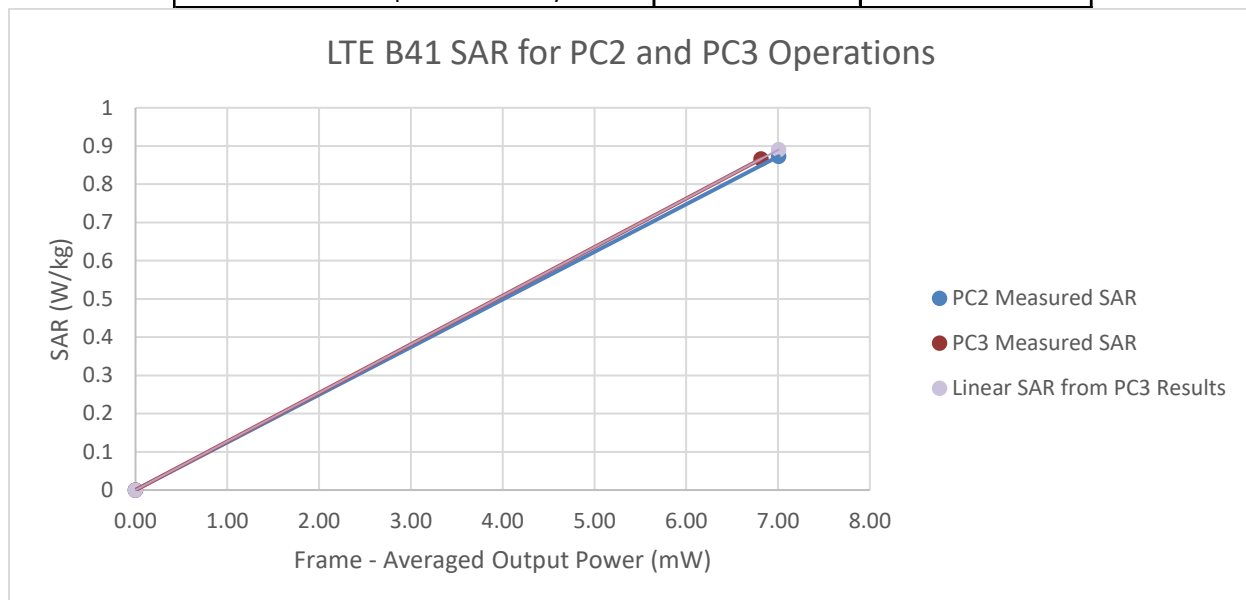


Figure 16-7
LTE Band 41 Antenna G DSI = 4 (F/O Grip) Body Linearity

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16.2 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 16-8
UMTS Supplemental Head SAR Data

UMTS B5 Ant A+C		UMTS B5 Ant A	
RMC		RMC	
Test Position	Right Cheek	Test Position	Left Cheek
Frequency (MHz)	826.40	Frequency (MHz)	826.40
Channel	4132	Channel	4132
Measured 1g SAR (W/kg)	0.130	Measured 1g SAR (W/kg)	0.067
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.128	Auto-tune (State 9)	0.061
Random (State 46)	0.126	Random (State 56)	0.054
Auto-tune (State 0)	0.127	Auto-tune (State 9)	0.060

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Table 16-9
LTE Supplemental Head SAR Data

LTE B12 Ant A+C		LTE B13 Ant A+C		LTE B26 Ant A+C	
QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 0 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	831.50
Channel	23095	Channel	23230	Channel	26865
Measured 1g SAR (W/kg)	0.126	Measured 1g SAR (W/kg)	0.110	Measured 1g SAR (W/kg)	0.124
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 45)	0.120	Auto-tune (State 108)	0.128	Auto-tune (State 108)	0.134
Random (State 30)	0.081	Random (State 42)	0.042	Random (State 50)	0.092
Auto-tune (State 45)	0.121	Auto-tune (State 108)	0.128	Auto-tune (State 108)	0.140
LTE B12 Ant A		LTE B13 Ant A		LTE B26 Ant A	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 0 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	831.50
Channel	23095	Channel	23230	Channel	26865
Measured 1g SAR (W/kg)	0.077	Measured 1g SAR (W/kg)	0.078	Measured 1g SAR (W/kg)	0.062
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 9)	0.064	Auto-tune (State 63)	0.069	Auto-tune (State 9)	0.062
Random (State 42)	0.005	Random (State 49)	0.029	Random (State 66)	0.061
Auto-tune (State 9)	0.064	Auto-tune (State 63)	0.072	Auto-tune (State 9)	0.060

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Table 16-10
NR Supplemental Head SAR Data

NR Band n71 Ant A+C		NR Band n5 Ant A+C	
DFTs-OFDM QPSK, 35 MHz Bandwidth, 1 RB, 1 RB Offset		DFTs-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 53 RB Offset	
Test Position	Right	Test Position	Right
Spacing	5 mm	Spacing	5 mm
Frequency (MHz)	680.50	Frequency (MHz)	836.50
Channel	136100	Channel	167300
Measured 1g SAR (W/kg)	0.762	Measured 1g SAR (W/kg)	0.664
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.597	Auto-tune (State 108)	0.620
Random (State 61)	0.086	Random (State 39)	0.507
Auto-Tune (State 0)	0.597	Auto-Tune (State 108)	0.620
NR Band n71 Ant A		NR Band n5 Ant A	
DFTs-OFDM QPSK, 35 MHz Bandwidth, 1 RB, 1 RB Offset		DFT-S-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset	
Test Position	Back	Test Position	Back
Spacing	5 mm	Spacing	5 mm
Frequency (MHz)	680.50	Frequency (MHz)	836.50
Channel	136100	Channel	167300
Measured 1g SAR (W/kg)	0.395	Measured 1g SAR (W/kg)	0.388
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 99)	0.384	Auto-tune (State 101)	0.413
Random (State 12)	0.129	Random (State 42)	0.031
Auto-Tune (State 99)	0.386	Auto-Tune (State 101)	0.388

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Table 16-11
UMTS Supplemental Closed Body SAR Data

UMTS B5 Ant A+C		UMTS B5 Ant A	
RMC		RMC	
Test Position	Back	Test Position	Back
Spacing	5 mm	Spacing	5 mm
Frequency (MHz)	826.40	Frequency (MHz)	826.40
Channel	4132	Channel	4132
Measured 1g SAR (W/kg)	0.794	Measured 1g SAR (W/kg)	0.550
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 9)	0.894	Auto-tune (State 64)	0.549
Random (State 82)	0.683	Random (State 77)	0.147
Auto-Tune (State 9)	0.895	Auto-Tune (State 64)	0.545

Table 16-12
LTE Supplemental Closed Body SAR Data

LTE B12 Ant A+C		LTE B13 Ant A+C		LTE B26 Ant A+C	
QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 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)	831.50
Channel	23095	Channel	23230	Channel	26865
Measured 1g SAR (W/kg)	0.568	Measured 1g SAR (W/kg)	0.531	Measured 1g SAR (W/kg)	0.659
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 10)	0.688	Auto-tune (State 10)	0.780	Auto-tune (State 45)	0.778
Random (State 16)	0.149	Random (State 8)	0.058	Random (State 44)	0.047
Auto-Tune (State 10)	0.689	Auto-Tune (State 10)	0.784	Auto-Tune (State 45)	0.756
LTE B12 Ant A		LTE B13 Ant A		LTE B26 Ant A	
QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 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)	831.50
Channel	23095	Channel	23230	Channel	26865
Measured 1g SAR (W/kg)	0.349	Measured 1g SAR (W/kg)	0.539	Measured 1g SAR (W/kg)	0.139
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 45)	0.451	Auto-tune (State 63)	0.707	Auto-tune (State 64)	0.638
Random (State 70)	0.129	Random (State 30)	0.608	Random (State 85)	0.429
Auto-Tune (State 45)	0.460	Auto-Tune (State 63)	0.706	Auto-Tune (State 64)	0.652

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Table 16-13
NR Supplemental Closed Body SAR Data

NR Band n71 Ant A+C		NR Band n5 Ant A+C	
DFTs-OFDM QPSK, 35 MHz Bandwidth, 50 RB, 28 RB Offset		DFTs-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 1 RB Offset	
Test Position	Right	Test Position	Right
Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	836.50
Channel	136100	Channel	167300
Measured 1g SAR (W/kg)	0.386	Measured 1g SAR (W/kg)	0.277
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 108)	0.430	Auto-tune (State 0)	0.317
Random (State 79)	0.052	Random (State 46)	0.288
Auto-Tune (State 108)	0.426	Auto-Tune (State 0)	0.315
NR Band n71 Ant A		NR Band n5 Ant A	
DFTs-OFDM QPSK, 35 MHz Bandwidth, 1 RB, 1 RB Offset		DFT-S-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset	
Test Position	Back	Test Position	Back
Spacing	5 mm	Spacing	5 mm
Frequency (MHz)	680.50	Frequency (MHz)	836.50
Channel	136100	Channel	167300
Measured 1g SAR (W/kg)	0.395	Measured 1g SAR (W/kg)	0.388
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 99)	0.384	Auto-tune (State 65)	0.413
Random (State 12)	0.129	Random (State 42)	0.031
Auto-Tune (State 99)	0.386	Auto-Tune (State 63)	0.388

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Table 16-14
UMTS Supplemental Open Body SAR Data

UMTS B5 Ant A+C	
RMC	
Test Position	Right
Spacing	0 mm
Frequency (MHz)	836.6
Channel	4183
Measured 1g SAR (W/kg)	0.78
Average Value of Time Sweep (W/kg)	
Auto-tune (State 108)	0.695
Auto-tune (State 31)	0.268
Auto-tune (State 108)	0.697

Table 16-15
LTE Supplemental Open Body SAR Data

LTE B12 Ant A+C		LTE B13 Ant A+C		LTE B26 Ant A+C	
QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 25 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset	
Test Position	Right	Test Position	Right	Test Position	Right
Spacing	0 mm	Spacing	0 mm	Spacing	0 mm
Frequency (MHz)	707.5	Frequency (MHz)	782	Frequency (MHz)	831.5
Channel	23095	Channel	23230	Channel	26865
Measured 1g SAR (W/kg)	0.866	Measured 1g SAR (W/kg)	0.817	Measured 1g SAR (W/kg)	0.631
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 108)	1.06	Auto-tune (State 108)	1.08	Auto-tune (State 109)	0.693
Auto-tune (State 42)	0.234	Auto-tune (State 56)	0.639	Auto-tune (State 77)	0.487
Auto-tune (State 108)	1.06	Auto-tune (State 108)	1.08	Auto-tune (State 109)	0.699

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Table 16-16
NR Supplemental Open Body SAR Data

NR Band n71 Ant A+C		NR Band n5 Ant A+C	
DFT-OFDM QPSK, 35 MHz Bandwidth, 1 RB, 1 RB Offset		CP-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 1 RB Offset	
Test Position	Back	Test Position	Right
Spacing	0 mm	Spacing	0 mm
Frequency (MHz)	680.5	Frequency (MHz)	836.5
Channel	136100	Channel	167300
Measured 1g SAR (W/kg)	0.692	Measured 1g SAR (W/kg)	0.743
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 2)	0.49	Auto-tune (State 108)	0.676
Auto-tune (State 43)	0.173	Auto-tune (State 40)	0.604
Auto-tune (State 2)	0.491	Auto-tune (State 108)	0.675

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17 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4448B	Spectrum Analyzer	N/A	N/A	N/A	881111342
Agilent	E4448B	ESG Vector Signal Generator	10/21/2024	Annual	10/21/2025	947408038
Agilent	E4448B	ESG Vector Signal Generator	10/21/2024	Annual	10/21/2025	947408038
Agilent	N5152A	MW Vector Signal Generator	7/9/2024	Annual	7/9/2025	947418036
Agilent	N5152A	MW Vector Signal Generator	5/16/2024	Annual	5/16/2025	947420837
Agilent	8751ES	5-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	947400044
Agilent	8751ES	5-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	947400044
Agilent	ES515C	Wireless Communications Test Set	CRT	N/A	CRT	6844135078
Agilent	ES515C	Wireless Communications Test Set	CRT	N/A	CRT	6844135078
Agilent	N6700A	Wireless Connectivity Test Set	CRT	N/A	CRT	6844149273
Amplifier Research	155166	Amplifier	CRT	N/A	CRT	435975
Amplifier Research	155166	Amplifier	CRT	N/A	CRT	435974
Antenna	MMN1108	I/O Adapter	CRT	N/A	CRT	132617481
Antenna	ML2406A	Power Meter	7/15/2024	Annual	7/15/2025	1138001
Antenna	ML2406A	Power Meter	8/24/2024	Annual	8/24/2025	1138001
Antenna	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1742623
Antenna	MA2411B	Pulse Power Sensor	10/1/2024	Annual	10/1/2025	1027220
Antenna	MT8812C	Radio Communication Analyzer MT8812C	CRT	N/A	CRT	626090131
Antenna	MT8812C	Radio Communication Analyzer MT8812C	5/15/2024	Annual	5/15/2025	626090131
Antenna	MT8812C	Radio Communication Analyzer MT8812C	5/15/2024	Annual	5/15/2025	626015005
Antenna	MT8800A	Radio Communication Test Station	CRT	N/A	CRT	623496746
Antenna	MT8800A	Radio Communication Test Station	5/14/2024	Annual	5/14/2025	623496746
Antenna	MT8800A	Radio Communication Test Station	5/14/2024	Annual	5/14/2025	623496746
Antenna	MT8800A	Radio Communication Test Station	CRT	N/A	CRT	626306828
Antenna	MT8800A	Radio Communication Test Station	5/14/2024	Annual	5/14/2025	623496746
Antenna	MA241106A	USB Power Sensor	7/10/2024	Annual	7/10/2025	1873250
Antenna	MA241106A	USB Power Sensor	10/29/2024	Annual	10/29/2025	1248080
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240317496
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240317496
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240317496
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240317496
Control Company	4040	Therm/ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310284
Control Company	4040	Therm/ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310284
Control Company	58629	MMA Signal Analyzer	2/16/2024	Biennial	2/16/2026	240340521
Control Company	58629	MMA Signal Analyzer	2/16/2024	Biennial	2/16/2026	240340521
Excelsior Technologies	N9020A	MMA Signal Analyzer	6/14/2024	Annual	6/14/2025	947407202
Excel	MCL	86 Attenuator	CRT	N/A	CRT	1339
Mini-Circuits	BW-N9050	Low Pass Filter DC to 4000 MHz	7/10/2024	Annual	7/10/2025	91334
Mini-Circuits	VLF-0200	Low Pass Filter DC to 6000 MHz	7/10/2024	Annual	7/10/2025	91334
Mini-Circuits	BW-N9275S	DC to 18 GHz Precision Feed 20 dB Attenuator	CRT	N/A	CRT	N/A
Mini-Circuits	BW-N9275	DC to 18 GHz Precision Feed 20 dB Attenuator	CRT	N/A	CRT	N/A
Mini-Circuits	BW-N9275	Low Pass Filter DC to 2700 MHz	CRT	N/A	CRT	N/A
Mini-Circuits	BW-N9275	Low Pass Filter DC to 2700 MHz	CRT	N/A	CRT	N/A
Mini-Circuits	BW-N9500	Power Attenuator	CRT	N/A	CRT	1226
Mini-Circuits	Z10C-10-83-S-3	Directional Coupler	CRT	N/A	CRT	6206
Narda	477-2.3	Attenuator (SMB)	CRT	N/A	CRT	2820
Narda	BW-S1W2	Attenuator (SMB)	CRT	N/A	CRT	130
Seastork	NC-100	Torque Wrench	CRT	N/A	CRT	22347
Seastork	NC-100	Torque Wrench	4/27/2024	Biennial	4/27/2026	1020018
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	CRT	N/A	CRT	125004
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	CRT	N/A	CRT	160936
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	CRT	N/A	CRT	160936
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	CRT	N/A	CRT	152000
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	CRT	N/A	CRT	167112
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	CRT	N/A	CRT	167112
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	1/10/2025	Annual	1/10/2026	131143
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	7/8/2024	Annual	7/8/2025	166818
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	4/12/2024	Annual	4/12/2025	171008
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	10/24/2025	Annual	10/24/2026	167290
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	8/27/2024	Biennial	8/27/2026	167000
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	10/14/2024	Annual	10/14/2025	160722
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	4/27/2024	Annual	4/27/2025	160718
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	7/10/2024	Annual	7/10/2025	171005
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	6/11/2024	Annual	6/11/2025	168880
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	8/26/2024	Annual	8/26/2025	167000
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	1/28/2025	Annual	1/28/2026	151400
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	1/25/2025	Annual	1/25/2026	122700
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	12/16/2024	Annual	12/16/2025	167290
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	1/26/2024	Annual	1/26/2025	167290
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	9/26/2024	Biennial	9/26/2026	135050
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	10/24/2024	Annual	10/24/2025	171000
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	10/24/2024	Annual	10/24/2025	171000
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	2/22/2025	Annual	2/22/2026	159517
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	12/16/2024	Annual	12/16/2025	166394
Rohde & Schwarz	CMW650	Wideband Radio Communication Tester	1/10/2025	Annual	1/10/2026	166394
SPAG	DMA-3.5	Portable Diectric Assessment Kit	8/7/2024	Annual	8/7/2025	9941
SPAG	MMA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	12317
SPAG	MMA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	12317
SPAG	MMA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPAG	MMA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPAG	DLA-3	Dielectric Assessment Kit (4MHz - 10GHz)	3/26/2025	Annual	3/26/2026	1102
SPAG	DLA-3	Confined Loop Antenna	9/4/2024	Annual	9/4/2025	1104
SPAG	DL170V2	1700 MHz SAR Dipole	9/6/2023	Annual	9/6/2025	1104
SPAG	DL170V2	1700 MHz SAR Dipole	13/7/2024	Annual	13/7/2025	1110
SPAG	DL170V2	1700 MHz SAR Dipole	9/4/2024	Annual	9/4/2025	1104
SPAG	DL170V2	1700 MHz SAR Dipole	4/15/2024	Annual	4/15/2025	1051
SPAG	DL190V2	1900 MHz SAR Dipole	4/12/2024	Annual	4/12/2025	9041
SPAG	DL190V2	1900 MHz SAR Dipole	8/6/2025	Triennial	8/6/2028	9041
SPAG	DL190V2	1900 MHz SAR Dipole	8/6/2023	Biennial	8/6/2025	9041
SPAG	DL240V2	2400 MHz SAR Dipole	11/17/2024	Annual	11/17/2025	9041
SPAG	DL240V2	2400 MHz SAR Dipole	11/17/2024	Triennial	11/17/2028	9041
SPAG	DL260V2	2600 MHz SAR Dipole	6/14/2022	Triennial	6/14/2025	9041
SPAG	DL300V2	3000 MHz SAR Dipole	1/18/2023	Triennial	1/18/2026	1097
SPAG	DL310V2	3100 MHz SAR Dipole	11/17/2024	Annual	11/17/2025	1097
SPAG	DL390V2	3900 MHz SAR Dipole	10/17/2023	Biennial	10/17/2025	1056
SPAG	DL500V2	5100 MHz SAR Dipole	1/17/2024	Biennial	1/17/2026	1193
SPAG	DL540V2	6.5 GHz SAR Dipole	12/6/2024	Annual	12/6/2025	1193
SPAG	DL650V2	6.5 GHz SAR Dipole	2/14/2020	Annual	2/14/2020	1111
SPAG	DL650V2	8 GHz SAR Dipole	9/6/2025	Annual	9/6/2026	1007
SPAG	SG Verticalization Space Dipole	100MHz System Verification Antenna	3/4/2025	Annual	3/4/2026	1007
SPAG	DT50V3	750 MHz SAR Dipole	3/4/2025	Annual	3/4/2026	1054
SPAG	DL250V2	250 MHz SAR Dipole	9/6/2025	Annual	9/6/2026	1054
SPAG	DL250V2	835 MHz SAR Dipole	9/17/2024	Biennial	9/17/2026	1054
SPAG	DL250V2	835 MHz SAR Dipole	1/18/2025	Biennial	1/18/2026	40132
SPAG	DL410V1	835 MHz SAR Dipole	7/8/2023	Annual	7/8/2024	40130
SPAG	DL410V1	835 MHz SAR Dipole	6/11/2024	Annual	6/11/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual	9/23/2025	3384
SPAG	DL410V1	835 MHz SAR Dipole	9/23/2024	Annual		

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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