Element Materials Technology
(formerly PCTEST)
18855 Adams Ct, Morgan Hill, CA 95037 USA
Tel. +1.408.538.5600
http://www.element.com

SAR EVALUATION REPORT

Applicant Name:
Apple Inc.
One Apple Park Way
Cupertino, CA 95014 USA

Date of Testing:
01/04/2023 – 3/19/2024
Test Report Issue Date:
04/04/2024
Test Site/Location:
Element, Morgan Hill, CA, USA
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1C2311270070-02.BCG-R1

FCC ID: **BCGA2926**

APPLICANT: **APPLE, INC.**

DUT Type: Tablet Device
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Models: A2926, A3007

Equipment Class	Band & Mode	Operating Modes	Tx Frequency	SAR 1g (W/kg)
PCE	LTE5 (B5)	Data	824.20 - 848.80 MHz	0.80
PCE	UMTS (V5)	Data	826.4 - 846.6 MHz	0.80
PCE	UMTS (V2)	Data	1852.4 - 1907.6 MHz	0.80
PCE	LTE Band 71	Data	663.5 - 695.5 MHz	0.80
PCE	LTE Band 12	Data	699.7 - 715.3 MHz	0.80
PCE	LTE Band 13	Data	779.5 - 784.5 MHz	0.80
PCE	LTE Band 14	Data	790.5 - 795.5 MHz	0.80
PCE	LTE Band 26 (CAD)	Data	814.7 - 848.3 MHz	0.80
PCE	LTE Band 5 (CAD)	Data	824.7 - 848.3 MHz	0.80
PCE	LTE Band 26 (PCS)	Data	814.7 - 848.3 MHz	0.80
PCE	LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz	0.80
PCE	LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz	0.80
PCE	LTE Band 7 (PCS)	Data	2502.5 - 2567.5 MHz	0.80
PCE	LTE Band 30	Data	2307.5 - 2310.5 MHz	0.80
PCE	LTE Band 41	Data	2496.5 - 2687.5 MHz	0.80
PCE	LTE Band 48	Data	3550.0 - 3699.9 MHz	0.80
PCE	LTE Band 66	Data	1710.7 - 1779.3 MHz	0.80
PCE	NR Band n71	Data	663.5 - 695.5 MHz	0.80
PCE	NR Band n12	Data	699.7 - 715.3 MHz	0.80
PCE	NR Band n13	Data	779.5 - 784.5 MHz	0.80
PCE	NR Band n26 (CAD)	Data	814.3 - 848.3 MHz	0.80
PCE	NR Band n5 (CAD)	Data	824.3 - 848.3 MHz	0.80
PCE	NR Band n25	Data	1847.5 - 1912.5 MHz	0.80
PCE	NR Band n66 (AWS)	Data	1710.3 - 1779.3 MHz	0.80
PCE	NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz	0.80
PCE	NR Band n41	Data	2496.5 - 2687.5 MHz	0.80
PCE	NR Band n48	Data	3550.0 - 3699.9 MHz	0.80
PCE	NR Band n77	Data	3550.0 - 3979.99 MHz	0.80
CBE	NR Band n46	Data	5150 - 5250 MHz	0.80
PCE	NR Band n77 DoD	Data	3980.00 - 3980.00 MHz	0.80
PCE	NR Band n77	Data	3720.01 - 3980.99 MHz	0.80
DTS	2.4 GHz WiFi	Voice/Data	2412 - 2462 MHz	1.19
NII	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	1.19
6CD	6 GHz WiFi	Voice/Data	U-NNI-5: 5955 - 6415 MHz U-NNI-6: 6435 - 6515 MHz U-NNI-7: 6535 - 6875 MHz U-NNI-8: 6895 - 7115 MHz	1.19
BT/BT LE	2.4GHz Bluetooth	Data	2402 - 2480 MHz	0.03
UWB	6GHz	Data	6533 - 7929.6 MHz	1.19
NR	DB n260	Data	37000 - 40000 MHz	1.19
NR	DB n261	Data	27500 - 28350 MHz	1.19
GNSS	GPS	Data	1215.60 MHz	0.03
Simultaneous SAR per KDB 447498 D01v06r03				1.19
Equipment Class	Band & Mode	Operating Modes	Tx Frequency	NPD (W/m^2)
6CD	6 GHz WiFi	Voice/Data	U-NNI-5: 5955 - 6415 MHz U-NNI-6: 6435 - 6515 MHz U-NNI-7: 6535 - 6875 MHz U-NNI-8: 6895 - 7115 MHz	8.93
Equipment Class	Band & Mode	Operating Modes	Tx Frequency	Reported NPD (W/m^2)
6CD	6 GHz WiFi	Voice/Data	U-NNI-5: 5955 - 6415 MHz U-NNI-6: 6435 - 6515 MHz U-NNI-7: 6535 - 6875 MHz U-NNI-8: 6895 - 7115 MHz	7.09

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

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.8 of this report; for North American frequency bands only.

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

RJ Ortanez
Executive Vice President

Prepared by: WKR000005812
Reviewed by: WKR0000005823

The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfai.info.

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.4 - 846.6 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	Data	665.5 - 695.5 MHz
LTE Band 12	Data	699.7 - 715.3 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 13	Data	779.5 - 784.5 MHz
LTE Band 14	Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
LTE Band 48	Data	3552.5 - 3697.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n14	Data	790.5 - 795.5 MHz
NR Band n26 (Cell)	Data	816.5 - 846.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n70	Data	1697.5 - 1707.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n30	Data	2307.5 - 2312.5 MHz
NR Band n7	Data	2502.5 - 2567.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
NR Band n48	Data	3555.0 - 3694.98 MHz
NR Band n77 DoD	Data	3455.01 - 3544.98 MHz
NR Band n77 C	Data	3705.0 - 3975.0 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5955 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
802.15.4	Data	2405 - 2475 MHz
NB UNII-1	Data	5162 - 5245 MHz
NB UNII-3	Data	5733 - 5844 MHz
WPT	N/A	13.56 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

This device is enabled with the Qualcomm® Smart Transmit Gen2 feature. This feature performs a time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 1.10 – Bibliography).

Note that WLAN operations are not enabled with Smart Transmit.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR design_target, below the predefined time-averaged power limit (i.e., Plimit for sub-6 radio), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN could be found in Section 1.10 - Bibliography).

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

*Maximum tune up output power Pmax is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power +0.7/-1.0 dB conducted power tolerance and for UHB +/- 1.0 dB conducted power tolerance.

Exposure Scenario:	Ant 1	Ant 1 Maximum Tune-up Output Power*	Ant 2b	Ant 2b Maximum Tune-up Output Power*	Ant 3	Ant 3 Maximum Tune-up Output Power*	Ant 4b	Ant 4b Maximum Tune-up Output Power*
Averaging Volume:	1g		1g		1g		1g	
Spacing:	0 mm		0 mm		0 mm		0 mm	
DSI:	1		1		1		1	
Technology/Band	**Plimit corresponding to 0.8 W/kg**	Pmax	**Plimit corresponding to 0.8 W/kg**	Pmax	**Plimit corresponding to 0.8 W/kg**	Pmax	**Plimit corresponding to 0.8 W/kg**	Pmax
UMTS 850	18.60	23.20	N/A	N/A	18.80	25.00	N/A	N/A
UMTS 1750	15.90	22.00	12.60	22.00	16.40	24.50	13.00	24.60
UMTS 1900	14.50	22.00	12.80	22.00	15.00	24.50	12.30	24.60
LTE Band 71	18.20	23.20	N/A	N/A	20.00	25.00	N/A	N/A
LTE Band 12	19.00	23.20	N/A	N/A	18.50	25.00	N/A	N/A
LTE Band 17	19.00	23.20	N/A	N/A	18.50	25.00	N/A	N/A
LTE Band 13	20.50	23.20	N/A	N/A	19.10	25.00	N/A	N/A
LTE Band 14	18.60	23.20	N/A	N/A	19.10	25.00	N/A	N/A
LTE Band 26	18.60	23.20	N/A	N/A	18.80	25.00	N/A	N/A
LTE Band 5	18.60	23.20	N/A	N/A	18.80	25.00	N/A	N/A
LTE Band 5 ULCA	18.60	23.20	N/A	N/A	18.80	25.00	N/A	N/A
LTE Band 4	15.90	25.00	12.60	24.50	16.40	24.50	13.00	24.60
LTE Band 66	15.90	25.00	12.60	24.50	16.40	23.50	13.00	23.60
LTE Band 2	14.50	22.00	12.80	22.00	15.00	24.50	12.30	24.60
LTE Band 25	14.50	22.00	12.80	22.00	15.00	24.50	12.30	24.60
LTE Band 30	13.90	21.50	12.10	21.50	13.40	23.60	11.80	23.10
LTE Band 7	12.60	21.50	12.00	21.50	13.00	24.50	11.20	24.60
LTE Band 7 ULCA	12.60	21.50	12.00	21.50	13.00	24.50	11.20	24.60
LTE Band 38	12.20	23.00	11.50	23.00	11.20	23.00	10.40	23.00
LTE Band 38 ULCA	12.20	23.00	11.50	23.00	11.20	23.00	10.40	23.00
LTE Band 41 (PC3)	12.2	23.0	11.5	23.0	11.2	23.0	10.4	23.0
LTE Band 41 (PC3) ULCA	12.2	23.0	11.5	23.0	11.2	23.0	10.4	23.0
LTE Band 41 (PC2)	12.2	24.4	12.5	23.9	11.2	22.9	10.4	23.0
LTE Band 41 (PC2) ULCA	12.2	24.4	12.5	23.9	11.2	22.9	10.4	23.0
LTE Band 48	11.0	19.3	12.5	20.5	10.0	19.1	9.2	19.6
LTE Band 48 ULCA	11.0	19.3	12.5	20.5	10.0	19.1	9.2	19.6
NR Band n71	18.20	23.20	N/A	N/A	20.00	25.00	N/A	N/A
NR Band n12	19.00	23.20	N/A	N/A	18.50	25.00	N/A	N/A
NR Band n14	18.60	23.20	N/A	N/A	19.10	25.00	N/A	N/A
NR Band n26	18.60	23.20	N/A	N/A	18.80	25.00	N/A	N/A
NR Band n5	18.60	23.20	N/A	N/A	18.80	25.00	N/A	N/A
NR Band n70	15.90	25.00	12.60	24.50	16.40	24.50	13.00	24.60
NR Band n66	15.90	25.00	12.60	24.50	16.40	23.50	13.00	23.60
NR Band n2	14.50	22.00	12.80	22.00	15.00	24.50	12.30	24.60
NR Band n25	14.50	22.00	12.80	22.00	15.00	24.50	12.30	24.60
NR Band n30	13.90	21.50	12.10	21.50	13.40	24.50	11.80	24.60
NR Band n7	12.60	21.50	12.00	21.50	13.00	24.50	11.20	24.60
NR Band n41 (PC3)	12.20	25.00	11.50	25.00	12.20	25.00	11.20	25.00
NR Band n41 (PC2)	12.20	28.00	11.50	27.50	12.20	26.50	11.20	26.60
NR Band n77 (PC3)	9.50	22.50	9.50	22.50	9.60	24.70	8.80	24.70
NR Band n77 (PC2)	9.50	22.50	9.50	22.50	9.60	26.50	8.80	26.00
NR Band n78 (PC3)	9.80	22.50	10.00	22.50	9.40	24.70	8.80	24.70
NR Band n78 (PC2)	9.80	22.50	10.00	22.50	9.40	26.50	8.80	26.00
NR Band n48	10.40	22.50	12.50	22.50	10.00	25.00	8.60	25.00

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

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The maximum time-averaged output power (dBm) for any Sub6 WWAN technology, band, and DSI = minimum of "P_{limit} EFS" and "Maximum tune up output power P_{max}" +1.0/-1.0 dB smart tx uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.

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

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

1.3 Power Reduction for SAR

This device additionally utilizes a power reduction mechanism for Bluetooth/802.15.4/NB UNII and WLAN operations. When WLAN/Bluetooth is operating simultaneously with certain combinations of 3G/4G and 5/6 GHz WLAN antennas, the output power of is permanently reduced. SAR evaluations were additionally performed at the maximum allowed output power for these scenarios to evaluate simultaneous transmission compliance.

Additionally, this device uses an independent mechanism that limits WIFI powers to a time-averaged output power. For the purposes of this test report, all SAR measurements were performed with the algorithm disabled at the maximum time-averaged output power level. Verification data for this time-averaged SAR mechanism can be found in the WLAN Time-Averaged SAR Verification Appendix.

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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.

*The tolerances specified in these tables in this report refers to conducted tolerances.

1.3.1 WWAN Output Power

Table 1-1
UMTS B5 (850 MHz)

Mode/Band			Modulated Average Output Power (in dBm)	
			Ant 1	Ant 3
UMTS Band 5 (850 MHz)	Max allowed power	3GPP WCDMA Rel 99	**19.60**	**19.80**
	Nominal		**18.60**	**18.80**
	Max allowed power	3GPP HSDPA Rel 5	**19.60**	**19.80**
	Nominal		**18.60**	**18.80**
	Max allowed power	3GPP HSUPA Rel 6	**19.60**	**19.80**
	Nominal		**18.60**	**18.80**
	Max allowed power	3GPP DC-HSDPA Rel 8	**19.60**	**19.80**
	Nominal		**18.60**	**18.80**

Table 1-2
UMTS B4 (1750 MHz)

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 1	Ant 2b	Ant 3	Ant 4b
UMTS Band 4 (1750 MHz)	Max allowed power	3GPP WCDMA Rel 99	**16.90**	**13.60**	**17.40**	**14.00**
	Nominal		**15.90**	**12.60**	**16.40**	**13.00**
	Max allowed power	3GPP HSDPA Rel 5	**16.90**	**13.60**	**17.40**	**14.00**
	Nominal		**15.90**	**12.60**	**16.40**	**13.00**
	Max allowed power	3GPP HSUPA Rel 6	**16.90**	**13.60**	**17.40**	**14.00**
	Nominal		**15.90**	**12.60**	**16.40**	**13.00**
	Max allowed power	3GPP DC-HSDPA Rel 8	**16.90**	**13.60**	**17.40**	**14.00**
	Nominal		**15.90**	**12.60**	**16.40**	**13.00**

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Table 1-3
UMTS B2 (1900 MHz)

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 1	Ant 2b	Ant 3	Ant 4b
UMTS Band 2 (1900 MHz)	Max allowed power	3GPP WCDMA Rel 99	**15.50**	**13.80**	**16.00**	**13.30**
	Nominal		**14.50**	**12.80**	**15.00**	**12.30**
	Max allowed power	3GPP HSDPA Rel 5	**15.50**	**13.80**	**16.00**	**13.30**
	Nominal		**14.50**	**12.80**	**15.00**	**12.30**
	Max allowed power	3GPP HSUPA Rel 6	**15.50**	**13.80**	**16.00**	**13.30**
	Nominal		**14.50**	**12.80**	**15.00**	**12.30**
	Max allowed power	3GPP DC-HSDPA Rel 8	**15.50**	**13.80**	**16.00**	**13.30**
	Nominal		**14.50**	**12.80**	**15.00**	**12.30**

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Table 1-4
LTE Bands

Mode / Band		Modulated Average Output Power (in dBm)			
		Ant 1	Ant 2b	Ant 3	Ant 4b
LTE FDD Band 71	Max allowed power	19.20		21.00	
	Nominal	18.20		20.00	
LTE FDD Band 12	Max allowed power	20.00		19.50	
	Nominal	19.00		18.50	
LTE FDD Band 17	Max allowed power	20.00		19.50	
	Nominal	19.00		18.50	
LTE FDD Band 13	Max allowed power	21.50		20.10	
	Nominal	20.50		19.10	
LTE FDD Band 14	Max allowed power	19.60		20.10	
	Nominal	18.60		19.10	
LTE FDD Band 26	Max allowed power	19.60		19.80	
	Nominal	18.60		18.80	
LTE FDD Band 5	Max allowed power	19.60		19.80	
	Nominal	18.60		18.80	
LTE FDD Band 5 Intra-band ULCA	Max allowed power	19.60		19.80	
	Nominal	18.60		18.80	
LTE FDD Band 4	Max allowed power	16.90	13.60	17.40	14.00
	Nominal	15.90	12.60	16.40	13.00
LTE FDD Band 66	Max allowed power	16.90	13.60	17.40	14.00
	Nominal	15.90	12.60	16.40	13.00
LTE FDD Band 2	Max allowed power	15.50	13.80	16.00	13.30
	Nominal	14.50	12.80	15.00	12.30
LTE FDD Band 25	Max allowed power	15.50	13.80	16.00	13.30
	Nominal	14.50	12.80	15.00	12.30
LTE FDD Band 30	Max allowed power	14.90	13.10	14.40	12.80
	Nominal	13.90	12.10	13.40	11.80
LTE FDD Band 7	Max allowed power	13.60	13.00	14.00	12.20
	Nominal	12.60	12.00	13.00	11.20
LTE FDD Band 7 Intra-band ULCA	Max allowed power	13.60	13.00	14.00	12.20
	Nominal	12.60	12.00	13.00	11.20
LTE TDD Band 38	Max allowed power	15.20	14.50	14.20	13.40
	Nominal	14.20	13.50	13.20	12.40
LTE TDD Band 38 Intra-band ULCA	Max allowed power	15.20	14.50	14.20	13.40
	Nominal	14.20	13.50	13.20	12.40
LTE TDD Band 41 (PC3)	Max allowed power	15.20	14.50	14.20	13.40
	Nominal	14.20	13.50	13.20	12.40
LTE TDD Band 41 (PC3) Intra-band ULCA	Max allowed power	15.20	14.50	14.20	13.40
	Nominal	14.20	13.50	13.20	12.40
LTE TDD Band 41 (PC2)	Max allowed power	16.80	16.10	15.80	15.00
	Nominal	15.80	15.10	14.80	14.00
LTE TDD Band 41 (PC2) Intra-band ULCA	Max allowed power	16.80	16.10	15.80	15.00
	Nominal	15.80	15.10	14.80	14.00
LTE TDD Band 48	Max allowed power	14.00	15.50	13.00	12.20
	Nominal	13.00	14.50	12.00	11.20
LTE TDD Band 48 Intra-band ULCA	Max allowed power	14.00	15.50	13.00	12.20
	Nominal	13.00	14.50	12.00	11.20

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Table 1-5
NR Bands

Mode / Band		Modulated Average Output Power (in dBm)			
		Ant 1	Ant 2b	Ant 3	Ant 4b
NR FDD Band n71	Max allowed power	**19.20**		**21.00**	
	Nominal	**18.20**		**20.00**	
NR FDD Band n12	Max allowed power	**20.00**		**19.50**	
	Nominal	**19.00**		**18.50**	
NR FDD Band n14	Max allowed power	**19.60**		**20.10**	
	Nominal	**18.60**		**19.10**	
NR FDD Band n26	Max allowed power	**19.60**		**19.80**	
	Nominal	**18.60**		**18.80**	
NR FDD Band n5	Max allowed power	**19.60**		**19.80**	
	Nominal	**18.60**		**18.80**	
NR FDD Band n70	Max allowed power	**16.90**	**13.60**	**17.40**	**14.00**
	Nominal	**15.90**	**12.60**	**16.40**	**13.00**
NR FDD Band n66	Max allowed power	**16.90**	**13.60**	**17.40**	**14.00**
	Nominal	**15.90**	**12.60**	**16.40**	**13.00**
NR FDD Band n2	Max allowed power	**15.50**	**13.80**	**16.00**	**13.30**
	Nominal	**14.50**	**12.80**	**15.00**	**12.30**
NR FDD Band n25	Max allowed power	**15.50**	**13.80**	**16.00**	**13.30**
	Nominal	**14.50**	**12.80**	**15.00**	**12.30**
NR FDD Band n30	Max allowed power	**14.90**	**13.10**	**14.40**	**12.80**
	Nominal	**13.90**	**12.10**	**13.40**	**11.80**
NR FDD Band n7	Max allowed power	**13.60**	**13.00**	**14.00**	**12.20**
	Nominal	**12.60**	**12.00**	**13.00**	**11.20**
NR TDD Band n41 (PC3)[Burst Averaged]	Max allowed power	**13.20**	**12.50**	**13.20**	**12.20**
	Nominal	**12.20**	**11.50**	**12.20**	**11.20**
NR TDD Band n41 (PC2)[Burst Averaged]	Max allowed power	**13.20**	**12.50**	**13.20**	**12.20**
	Nominal	**12.20**	**11.50**	**12.20**	**11.20**
NR TDD Band n77 (PC3)[Burst Averaged]	Max allowed power	**10.50**	**10.50**	**10.60**	**9.80**
	Nominal	**9.50**	**9.50**	**9.60**	**8.80**
NR TDD Band n77 (PC2)[Burst Averaged]	Max allowed power	**10.50**	**10.50**	**10.60**	**9.80**
	Nominal	**9.50**	**9.50**	**9.60**	**8.80**
NR TDD Band n48[Burst Averaged]	Max allowed power	**11.40**	**13.50**	**11.00**	**9.60**
	Nominal	**10.40**	**12.50**	**10.00**	**8.60**

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1.3.2 Maximum WLAN Time-Averaged Output Power

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

*The tolerances specified in these tables in this report refers to conducted tolerances.

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 2a Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	12.75	12.75	12.75	12.75	12.75	12.75
	2	12.75	12.75	12.75	12.75	12.75	12.75
	3	12.75	12.75	12.75	12.75	12.75	12.75
	4	12.75	12.75	12.75	12.75	12.75	12.75
	5	12.75	12.75	12.75	12.75	12.75	12.75
	6	12.75	12.75	12.75	12.75	12.75	12.75
	7	12.75	12.75	12.75	12.75	12.75	12.75
	8	12.75	12.75	12.75	12.75	12.75	12.75
	9	12.75	12.75	12.75	12.75	12.75	12.75
	10	12.75	12.75	12.75	12.75	12.75	12.75
	11	12.75	12.75	12.75	12.75	12.75	12.75
	12	12.75	12.75	12.75	12.75	12.75	12.75
	13	12.75	8.50	8.50	NS	8.50	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 4a Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	11.50	11.50	11.50	11.50	11.50	11.50
	2	11.50	11.50	11.50	11.50	11.50	11.50
	3	11.50	11.50	11.50	11.50	11.50	11.50
	4	11.50	11.50	11.50	11.50	11.50	11.50
	5	11.50	11.50	11.50	11.50	11.50	11.50
	6	11.50	11.50	11.50	11.50	11.50	11.50
	7	11.50	11.50	11.50	11.50	11.50	11.50
	8	11.50	11.50	11.50	11.50	11.50	11.50
	9	11.50	11.50	11.50	11.50	11.50	11.50
	10	11.50	11.50	11.50	11.50	11.50	11.50
	11	11.50	11.50	11.50	11.50	11.50	11.50
	12	11.50	11.50	11.50	11.50	11.50	11.50
	13	11.50	8.50	8.50	NS	8.50	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna WF5B Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	17.00	17.00	16.50	17.00	16.25	17.00	16.25
	40	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	44	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	48	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	52	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	56	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	60	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	64	17.25	17.25	17.25	17.00	17.00	17.00	17.00
	100	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	104	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	108	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	112	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	116	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	120	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	124	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	128	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	132	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	136	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	140	17.50	17.50	15.00	17.00	15.00	17.00	15.00
	144	17.50	17.50	17.50	17.00	17.00	17.00	17.00
	149	17.25	17.25	17.25	17.25	17.25	17.25	17.25
	153	17.25	17.25	17.25	17.25	17.25	17.25	17.25
	157	17.25	17.25	17.25	17.25	17.25	17.25	17.25
	161	17.25	17.25	17.25	17.25	17.25	17.25	17.25
	165	17.25	17.25	17.25	17.25	17.25	17.25	17.25
5 GHz WIFI 40 MHz Bandwidth	38		14.50	14.00	14.50	13.50	14.50	13.50
	46		17.25	17.25	17.25	17.25	17.25	17.25
	54		17.25	17.25	17.25	17.25	17.25	17.25
	62		17.00	16.00	17.00	15.50	17.00	15.50
	102		15.50	15.50	15.50	15.00	15.50	15.00
	110		17.50	17.50	17.50	17.50	17.50	17.50
	118		17.50	17.50	17.50	17.50	17.50	17.50
	126		17.50	17.50	17.50	17.50	17.50	17.50
	134		17.50	17.50	17.50	17.50	17.50	17.50
	142		17.50	17.50	17.50	17.50	17.50	17.50
	151		17.25	17.25	17.25	17.25	17.25	17.25
	159		17.25	17.25	17.25	17.25	17.25	17.25
5 GHz WIFI 80 MHz Bandwidth	42		13.50	13.00	13.50	13.00	13.50	13.00
	58		16.00	15.00	15.50	15.00	15.50	15.00
	106		14.50	14.50	14.50	14.00	14.50	14.00
	122		17.50	17.50	17.50	17.50	17.50	17.50
	138		17.50	17.50	17.50	17.50	17.50	17.50
	155		17.25	17.25	17.25	17.25	17.25	17.25
5 GHz WIFI 160 MHz Bandwidth	50		12.50	12.50	12.25	12.25	12.25	12.25
	114		13.00	13.00	13.00	13.00	13.00	13.00

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above. 802.11a supports up to 20MHz, 802.11n supports up to 40MHz, 802.11ac/ax support up to 160MHz.

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna 2a Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	7.75	7.75	7.75	7.75	7.75	7.75	7.75
	40	7.75	7.75	7.75	7.75	7.75	7.75	7.75
	44	7.75	7.75	7.75	7.75	7.75	7.75	7.75
	48	7.75	7.75	7.75	7.75	7.75	7.75	7.75
	52	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	56	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	60	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	64	8.00	8.00	8.00	8.00	8.00	8.00	8.00
	100	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	104	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	108	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	112	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	116	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	120	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	124	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	128	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	132	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	136	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	140	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	144	9.25	9.25	9.25	9.25	9.25	9.25	9.25
	149	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	153	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	157	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	161	9.75	9.75	9.75	9.75	9.75	9.75	9.75
	165	9.75	9.75	9.75	9.75	9.75	9.75	9.75
5 GHz WIFI 40 MHz Bandwidth	38		7.75	7.75	7.75	7.75	7.75	7.75
	46		7.75	7.75	7.75	7.75	7.75	7.75
	54		8.00	8.00	8.00	8.00	8.00	8.00
	62		8.00	8.00	8.00	8.00	8.00	8.00
	102		9.25	9.25	9.25	9.25	9.25	9.25
	110		9.25	9.25	9.25	9.25	9.25	9.25
	118		9.25	9.25	9.25	9.25	9.25	9.25
	126		9.25	9.25	9.25	9.25	9.25	9.25
	134		9.25	9.25	9.25	9.25	9.25	9.25
	142		9.25	9.25	9.25	9.25	9.25	9.25
	151		9.75	9.75	9.75	9.75	9.75	9.75
	159		9.75	9.75	9.75	9.75	9.75	9.75
5 GHz WIFI 80 MHz Bandwidth	42		7.75	7.75	7.75	7.75	7.75	7.75
	58		8.00	8.00	8.00	8.00	8.00	8.00
	106		9.25	9.25	9.25	9.25	9.25	9.25
	122		9.25	9.25	9.25	9.25	9.25	9.25
	138		9.25	9.25	9.25	9.25	9.25	9.25
	155		9.75	9.75	9.75	9.75	9.75	9.75
5 GHz WIFI 160 MHz Bandwidth	50		8.00	8.00	8.00	8.00	8.00	8.00
	114		9.25	9.25	9.25	9.25	9.25	9.25

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above. 802.11a supports up to 20MHz, 802.11n supports up to 40MHz, 802.11ac/ax support up to 160MHz.

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Mode	IEEE 802.11 (Maximum in dBm) - Antenna 4a Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	40	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	44	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	48	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	52	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	56	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	60	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	64	8.25	8.25	8.25	8.25	8.25	8.25	8.25
	100	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	104	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	108	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	112	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	116	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	120	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	124	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	128	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	132	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	136	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	140	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	144	8.50	8.50	8.50	8.50	8.50	8.50	8.50
	149	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	153	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	157	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	161	9.00	9.00	9.00	9.00	9.00	9.00	9.00
	165	9.00	9.00	9.00	9.00	9.00	9.00	9.00
5 GHz WIFI 40 MHz Bandwidth	38		8.25	8.25	8.25	8.25	8.25	8.25
	46		8.25	8.25	8.25	8.25	8.25	8.25
	54		8.25	8.25	8.25	8.25	8.25	8.25
	62		8.25	8.25	8.25	8.25	8.25	8.25
	102		8.50	8.50	8.50	8.50	8.50	8.50
	110		8.50	8.50	8.50	8.50	8.50	8.50
	118		8.50	8.50	8.50	8.50	8.50	8.50
	126		8.50	8.50	8.50	8.50	8.50	8.50
	134		8.50	8.50	8.50	8.50	8.50	8.50
	142		8.50	8.50	8.50	8.50	8.50	8.50
	151		9.00	9.00	9.00	9.00	9.00	9.00
	159		9.00	9.00	9.00	9.00	9.00	9.00
5 GHz WIFI 80 MHz Bandwidth	42		8.25	8.25	8.25	8.25	8.25	8.25
	58		8.25	8.25	8.25	8.25	8.25	8.25
	106		8.50	8.50	8.50	8.50	8.50	8.50
	122		8.50	8.50	8.50	8.50	8.50	8.50
	138		8.50	8.50	8.50	8.50	8.50	8.50
	155		9.00	9.00	9.00	9.00	9.00	9.00
5 GHz WIFI 160 MHz Bandwidth	50		8.25	8.25	8.25	8.25	8.25	8.25
	114		8.50	8.50	8.50	8.50	8.50	8.50

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above. 802.11a supports up to 20MHz, 802.11n supports up to 40MHz, 802.11ac/ax support up to 160MHz.

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF5B			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP 20MHz BW	2	NS	NS	NS	NS
	1	6.50	6.50	0.75	3.75
	5	6.50	6.50	0.75	3.75
	9-29	6.50	6.50	0.75	3.75
	33-61	6.50	6.50	0.75	3.75
	65-85	6.75	6.75	1.25	4.25
	89	6.75	6.75	1.25	4.25
	93	6.75	6.75	1.25	4.25
	97-113	6.50	6.50	0.75	3.75
	117-181	4.25	4.25	-1.00	2.00
	185	4.25	4.25	-1.00	2.00
	189-225	4.75	4.75	-0.75	2.25
	229	4.75	4.75	-0.75	2.25
	233	4.75	4.75	-0.75	2.25
6 GHz WIFI LP 40MHz BW	3		9.50	3.75	6.75
	11		9.50	3.75	6.75
	19-27		9.50	3.75	6.75
	35-59		9.50	3.75	6.75
	67-75		9.75	4.25	7.25
	83		9.75	4.25	7.25
	91		9.75	4.25	7.25
	99-107		9.50	3.75	6.75
	115		7.25	2.00	5.00
	123-179		7.25	2.00	5.00
	187		7.25	2.00	5.00
	195-219		7.75	2.25	5.25
	227		7.75	2.25	5.25
6 GHz WIFI LP 80MHz BW	7		12.50	6.75	9.75
	23		12.50	6.75	9.75
	39-55		12.50	6.75	9.75
	71		12.75	7.25	10.25
	87		12.75	7.25	10.25
	103		12.50	6.75	9.75
	119		10.25	5.00	8.00
	135-167		10.25	5.00	8.00
	183		10.25	5.00	8.00
	199		10.75	5.25	8.25
	215		10.75	5.25	8.25
6 GHz WIFI LP 160MHz BW	15		15.00	9.25	12.25
	47		15.00	9.25	12.25
	79		15.25	9.75	12.75
	111		12.75	7.50	10.50
	143		12.75	7.50	10.50
	175		12.75	7.50	10.50
	207		13.25	7.75	10.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above. 802.11a supports up to 20MHz, 802.11ax supports up to 160MHz.

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna WF5B			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP 20MHz BW	2	NS	NS	NS	NS
	1	15.25	15.25	15.25	15.25
	5	15.25	15.25	15.25	15.25
	9-29	15.25	15.25	15.25	15.25
	33-61	15.25	15.25	15.25	15.25
	65-85	16.00	16.00	16.00	16.00
	89	16.00	16.00	16.00	16.00
	93	16.00	16.00	16.00	16.00
	97-113	NS	NS	NS	NS
	117-181	14.00	14.00	14.00	14.00
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP 40MHz BW	3	[redacted]	15.25	15.25	15.25
	11		15.25	15.25	15.25
	19-27		15.25	15.25	15.25
	35-59		15.25	15.25	15.25
	67-75		16.00	16.00	16.00
	83		16.00	16.00	16.00
	91		16.00	16.00	16.00
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		14.00	14.00	14.00
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP 80MHz BW	7		15.25	15.25	15.25
	23		15.25	15.25	15.25
	39-55		15.25	15.25	15.25
	71		16.00	16.00	16.00
	87		16.00	16.00	16.00
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		14.00	14.00	14.00
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP 160MHz BW	15		15.25	15.25	15.25
	47		15.25	15.25	15.25
	79		16.00	16.00	16.00
	111		NS	NS	NS
	143		14.00	14.00	14.00
	175		NS	NS	NS
	207		NS	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above. 802.11a supports up to 20MHz, 802.11ax supports up to 160MHz.

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP 20MHz BW	2	NS	NS	NS	NS
	1	6.50	6.50	0.75	3.75
	5	6.50	6.50	0.75	3.75
	9-29	6.50	6.50	0.75	3.75
	33-61	6.50	6.50	0.75	3.75
	65-85	6.75	6.75	1.25	4.25
	89	6.75	6.75	1.25	4.25
	93	6.75	6.75	1.25	4.25
	97-113	6.50	6.50	0.75	3.75
	117-181	4.25	4.25	-1.00	2.00
	185	4.25	4.25	-1.00	2.00
	189-225	4.75	4.75	-0.75	2.25
	229	4.75	4.75	-0.75	2.25
	233	4.75	4.75	-0.75	2.25
6 GHz WIFI LP 40MHz BW	3		9.50	3.75	6.75
	11		9.50	3.75	6.75
	19-27		9.50	3.75	6.75
	35-59		9.50	3.75	6.75
	67-75		9.75	4.25	7.25
	83		9.75	4.25	7.25
	91		9.75	4.25	7.25
	99-107		9.50	3.75	6.75
	115		7.25	2.00	5.00
	123-179		7.25	2.00	5.00
	187		7.25	2.00	5.00
	195-219		7.75	2.25	5.25
	227		7.75	2.25	5.25
6 GHz WIFI LP 80MHz BW	7		10.25	6.75	9.75
	23		10.25	6.75	9.75
	39-55		10.25	6.75	9.75
	71		10.00	7.25	10.00
	87		10.00	7.25	10.00
	103		10.25	6.75	9.75
	119		10.25	5.00	8.00
	135-167		10.25	5.00	8.00
	183		10.25	5.00	8.00
	199		9.75	5.25	8.25
	215		9.75	5.25	8.25
6 GHz WIFI LP 160MHz BW	15		10.25	9.25	10.25
	47		10.25	9.25	10.25
	79		10.00	9.75	10.00
	111		10.25	7.50	10.25
	143		10.75	7.50	10.50
	175		10.75	7.50	10.50
	207		9.75	7.75	9.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above. 802.11a supports up to 20MHz, 802.11ax supports up to 160MHz.

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP 20MHz BW	2	NS	NS	NS	NS
	1	10.25	10.25	10.25	10.25
	5	10.25	10.25	10.25	10.25
	9-29	10.25	10.25	10.25	10.25
	33-61	10.25	10.25	10.25	10.25
	65-85	10.00	10.00	10.00	10.00
	89	10.00	10.00	10.00	10.00
	93	10.00	10.00	10.00	10.00
	97-113	NS	NS	NS	NS
	117-181	10.25	10.25	10.25	10.25
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP 40MHz BW	3	[redacted]	10.25	10.25	10.25
	11		10.25	10.25	10.25
	19-27		10.25	10.25	10.25
	35-59		10.25	10.25	10.25
	67-75		10.00	10.00	10.00
	83		10.00	10.00	10.00
	91		10.00	10.00	10.00
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		10.25	10.25	10.25
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP 80MHz BW	7		10.25	10.25	10.25
	23		10.25	10.25	10.25
	39-55		10.25	10.25	10.25
	71		10.00	10.00	10.00
	87		10.00	10.00	10.00
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		10.75	10.75	10.75
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP 160MHz BW	15		10.25	10.25	10.25
	47		10.25	10.25	10.25
	79		10.00	10.00	10.00
	111		NS	NS	NS
	143		10.75	10.75	10.75
	175		NS	NS	NS
	207		NS	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above. 802.11a supports up to 20MHz, 802.11ax supports up to 160MHz.

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 4a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP 20MHz BW	2	NS	NS	NS	NS
	1	6.50	6.50	0.75	3.75
	5	6.50	6.50	0.75	3.75
	9-29	6.50	6.50	0.75	3.75
	33-61	6.50	6.50	0.75	3.75
	65-85	6.75	6.75	1.25	4.25
	89	6.75	6.75	1.25	4.25
	93	6.75	6.75	1.25	4.25
	97-113	6.50	6.50	0.75	3.75
	117-181	4.25	4.25	-1.00	2.00
	185	4.25	4.25	-1.00	2.00
	189-225	4.75	4.75	-0.75	2.25
	229	4.75	4.75	-0.75	2.25
	233	4.75	4.75	-0.75	2.25
6 GHz WIFI LP 40MHz BW	3		8.25	3.75	6.75
	11		8.25	3.75	6.75
	19-27		8.25	3.75	6.75
	35-59		8.25	3.75	6.75
	67-75		9.75	4.25	7.25
	83		9.75	4.25	7.25
	91		9.75	4.25	7.25
	99-107		9.50	3.75	6.75
	115		7.25	2.00	5.00
	123-179		7.25	2.00	5.00
	187		7.25	2.00	5.00
	195-219		7.75	2.25	5.25
	227		7.75	2.25	5.25
6 GHz WIFI LP 80MHz BW	7		8.25	6.75	8.25
	23		8.25	6.75	8.25
	39-55		8.25	6.75	8.25
	71		9.75	7.25	9.75
	87		9.75	7.25	9.75
	103		9.50	6.75	9.50
	119		9.50	5.00	8.00
	135-167		8.75	5.00	8.00
	183		8.75	5.00	8.00
	199		8.50	5.25	8.25
	215		8.50	5.25	8.25
6 GHz WIFI LP 160MHz BW	15		8.25	8.25	8.25
	47		8.25	8.25	8.25
	79		9.75	9.75	9.75
	111		9.50	7.50	9.50
	143		8.75	7.50	8.75
	175		8.75	7.50	8.75
	207		8.50	7.75	8.50

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above. 802.11a supports up to 20MHz, 802.11ax supports up to 160MHz.

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 4a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP 20MHz BW	2	NS	NS	NS	NS
	1	8.25	8.25	8.25	8.25
	5	8.25	8.25	8.25	8.25
	9-29	8.25	8.25	8.25	8.25
	33-61	8.25	8.25	8.25	8.25
	65-85	9.75	9.75	9.75	9.75
	89	9.75	9.75	9.75	9.75
	93	9.75	9.75	9.75	9.75
	97-113	NS	NS	NS	NS
	117-181	8.75	8.75	8.75	8.75
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP 40MHz BW	3	[redacted]	8.25	8.25	8.25
	11		8.25	8.25	8.25
	19-27		8.25	8.25	8.25
	35-59		8.25	8.25	8.25
	67-75		9.75	9.75	9.75
	83		9.75	9.75	9.75
	91		9.75	9.75	9.75
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		8.75	8.75	8.75
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP 80MHz BW	7		8.25	8.25	8.25
	23		8.25	8.25	8.25
	39-55		8.25	8.25	8.25
	71		9.75	9.75	9.75
	87		9.75	9.75	9.75
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		8.75	8.75	8.75
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP 160MHz BW	15		8.25	8.25	8.25
	47		8.25	8.25	8.25
	79		9.75	9.75	9.75
	111		NS	NS	NS
	143		8.75	8.75	8.75
	175		NS	NS	NS
	207		NS	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above. 802.11a supports up to 20MHz, 802.11n supports up to 40MHz, 802.11ac/ax support up to 160MHz.

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1.3.1 Reduced WLAN Time-Averaged Output Power

*The tolerances specified in these tables in this report refers to conducted tolerances.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2b and wPT active
-Simultaneous conditions with Inter-Band ULCA and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 2a Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	7.25	7.25	7.25	7.25	7.25	7.25
	2	7.25	7.25	7.25	7.25	7.25	7.25
	3	7.25	7.25	7.25	7.25	7.25	7.25
	4	7.25	7.25	7.25	7.25	7.25	7.25
	5	7.25	7.25	7.25	7.25	7.25	7.25
	6	7.25	7.25	7.25	7.25	7.25	7.25
	7	7.25	7.25	7.25	7.25	7.25	7.25
	8	7.25	7.25	7.25	7.25	7.25	7.25
	9	7.25	7.25	7.25	7.25	7.25	7.25
	10	7.25	7.25	7.25	7.25	7.25	7.25
	11	7.25	7.25	7.25	7.25	7.25	7.25
	12	7.25	7.25	7.25	7.25	7.25	7.25
	13	7.25	7.25	7.25	NS	7.25	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 4b and wPT active
-Simultaneous conditions with Inter-Band ULCA and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 4a Tolerance (+0/-3 dB)						
	Channel	SISO				MIMO	
		b	g	n	ax SU	g/n	ax SU
2.4 GHz WIFI 20 MHz Bandwidth	1	6.00	6.00	6.00	6.00	6.00	6.00
	2	6.00	6.00	6.00	6.00	6.00	6.00
	3	6.00	6.00	6.00	6.00	6.00	6.00
	4	6.00	6.00	6.00	6.00	6.00	6.00
	5	6.00	6.00	6.00	6.00	6.00	6.00
	6	6.00	6.00	6.00	6.00	6.00	6.00
	7	6.00	6.00	6.00	6.00	6.00	6.00
	8	6.00	6.00	6.00	6.00	6.00	6.00
	9	6.00	6.00	6.00	6.00	6.00	6.00
	10	6.00	6.00	6.00	6.00	6.00	6.00
	11	6.00	6.00	6.00	6.00	6.00	6.00
	12	6.00	6.00	6.00	6.00	6.00	6.00
	13	6.00	6.00	6.00	NS	6.00	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2b and wPT active
-Simultaneous conditions with Inter-Band ULCA and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 2a Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	2.25	2.25	2.25	2.25	2.25	2.25	2.25
	40	2.25	2.25	2.25	2.25	2.25	2.25	2.25
	44	2.25	2.25	2.25	2.25	2.25	2.25	2.25
	48	2.25	2.25	2.25	2.25	2.25	2.25	2.25
	52	2.50	2.50	2.50	2.50	2.50	2.50	2.50
	56	2.50	2.50	2.50	2.50	2.50	2.50	2.50
	60	2.50	2.50	2.50	2.50	2.50	2.50	2.50
	64	2.50	2.50	2.50	2.50	2.50	2.50	2.50
	100	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	104	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	108	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	112	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	116	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	120	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	124	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	128	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	132	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	136	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	140	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	144	3.75	3.75	3.75	3.75	3.75	3.75	3.75
	149	4.25	4.25	4.25	4.25	4.25	4.25	4.25
	153	4.25	4.25	4.25	4.25	4.25	4.25	4.25
	157	4.25	4.25	4.25	4.25	4.25	4.25	4.25
	161	4.25	4.25	4.25	4.25	4.25	4.25	4.25
	165	4.25	4.25	4.25	4.25	4.25	4.25	4.25
5 GHz WIFI 40 MHz Bandwidth	38		2.25	2.25	2.25	2.25	2.25	2.25
	46		2.25	2.25	2.25	2.25	2.25	2.25
	54		2.50	2.50	2.50	2.50	2.50	2.50
	62		2.50	2.50	2.50	2.50	2.50	2.50
	102		3.75	3.75	3.75	3.75	3.75	3.75
	110		3.75	3.75	3.75	3.75	3.75	3.75
	118		3.75	3.75	3.75	3.75	3.75	3.75
	126		3.75	3.75	3.75	3.75	3.75	3.75
	134		3.75	3.75	3.75	3.75	3.75	3.75
	142		3.75	3.75	3.75	3.75	3.75	3.75
	151		4.25	4.25	4.25	4.25	4.25	4.25
	159		4.25	4.25	4.25	4.25	4.25	4.25
5 GHz WIFI 80 MHz Bandwidth	42		2.25	2.25	2.25	2.25	2.25	2.25
	58		2.50	2.50	2.50	2.50	2.50	2.50
	106		3.75	3.75	3.75	3.75	3.75	3.75
	122		3.75	3.75	3.75	3.75	3.75	3.75
	138		3.75	3.75	3.75	3.75	3.75	3.75
	155		4.25	4.25	4.25	4.25	4.25	4.25
5 GHz WIFI 160 MHz Bandwidth	50		2.50	2.50	2.50	2.50	2.50	2.50
	114		3.75	3.75	3.75	3.75	3.75	3.75

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 4b and wPT active
-Simultaneous conditions with Inter-Band ULCA and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 4a Tolerance (+0/-3 dB)							
	Channel	SISO			MIMO CDD		MIMO SDM	
		a	n/ac	ax SU	n/ac	ax SU	n/ac	ax SU
5 GHz WIFI 20 MHz Bandwidth	36	2.75	2.75	2.75	2.75	2.75	2.75	2.75
	40	2.75	2.75	2.75	2.75	2.75	2.75	2.75
	44	2.75	2.75	2.75	2.75	2.75	2.75	2.75
	48	2.75	2.75	2.75	2.75	2.75	2.75	2.75
	52	2.75	2.75	2.75	2.75	2.75	2.75	2.75
	56	2.75	2.75	2.75	2.75	2.75	2.75	2.75
	60	2.75	2.75	2.75	2.75	2.75	2.75	2.75
	64	2.75	2.75	2.75	2.75	2.75	2.75	2.75
	100	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	104	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	108	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	112	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	116	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	120	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	124	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	128	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	132	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	136	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	140	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	144	3.00	3.00	3.00	3.00	3.00	3.00	3.00
	149	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	153	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	157	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	161	3.50	3.50	3.50	3.50	3.50	3.50	3.50
	165	3.50	3.50	3.50	3.50	3.50	3.50	3.50
5 GHz WIFI 40 MHz Bandwidth	38		2.75	2.75	2.75	2.75	2.75	2.75
	46		2.75	2.75	2.75	2.75	2.75	2.75
	54		2.75	2.75	2.75	2.75	2.75	2.75
	62		2.75	2.75	2.75	2.75	2.75	2.75
	102		3.00	3.00	3.00	3.00	3.00	3.00
	110		3.00	3.00	3.00	3.00	3.00	3.00
	118		3.00	3.00	3.00	3.00	3.00	3.00
	126		3.00	3.00	3.00	3.00	3.00	3.00
	134		3.00	3.00	3.00	3.00	3.00	3.00
	142		3.00	3.00	3.00	3.00	3.00	3.00
	151		3.50	3.50	3.50	3.50	3.50	3.50
	159		3.50	3.50	3.50	3.50	3.50	3.50
5 GHz WIFI 80 MHz Bandwidth	42		2.75	2.75	2.75	2.75	2.75	2.75
	58		2.75	2.75	2.75	2.75	2.75	2.75
	106		3.00	3.00	3.00	3.00	3.00	3.00
	122		3.00	3.00	3.00	3.00	3.00	3.00
	138		3.00	3.00	3.00	3.00	3.00	3.00
	155		3.50	3.50	3.50	3.50	3.50	3.50
5 GHz WIFI 160 MHz Bandwidth	50		2.75	2.75	2.75	2.75	2.75	2.75
	114		3.00	3.00	3.00	3.00	3.00	3.00

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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Tables below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2b and wPT active
-Simultaneous conditions with Inter-Band ULCA and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP 20MHz BW	2	NS	NS	NS	NS
	1	4.75	4.75	0.75	3.75
	5	4.75	4.75	0.75	3.75
	9-29	4.75	4.75	0.75	3.75
	33-61	4.75	4.75	0.75	3.75
	65-85	4.25	4.25	1.25	4.25
	89	4.25	4.25	1.25	4.25
	93	4.25	4.25	1.25	4.25
	97-113	4.75	4.75	0.75	3.75
	117-181	4.25	4.25	-1.00	2.00
	185	4.25	4.25	-1.00	2.00
	189-225	4.25	4.25	-0.75	2.25
	229	4.25	4.25	-0.75	2.25
	233	4.25	4.25	-0.75	2.25
6 GHz WIFI LP 40MHz BW	3		4.75	3.75	4.75
	11		4.75	3.75	4.75
	19-27		4.75	3.75	4.75
	35-59		4.75	3.75	4.75
	67-75		4.25	4.25	4.25
	83		4.25	4.25	4.25
	91		4.25	4.25	4.25
	99-107		4.75	3.75	4.75
	115		5.25	2.00	5.00
	123-179		5.25	2.00	5.00
	187		4.25	2.00	4.25
	195-219		4.25	2.25	4.25
	227		4.25	2.25	4.25
6 GHz WIFI LP 80MHz BW	7		4.75	4.75	4.75
	23		4.75	4.75	4.75
	39-55		4.75	4.75	4.75
	71		4.25	4.25	4.25
	87		4.25	4.25	4.25
	103		4.75	4.75	4.75
	119		5.25	5.00	5.25
	135-167		5.25	5.00	5.25
	183		4.25	4.25	4.25
	199		4.25	4.25	4.25
	215		4.25	4.25	4.25
6 GHz WIFI LP 160MHz BW	15		4.75	4.75	4.75
	47		4.75	4.75	4.75
	79		4.50	4.50	4.50
	111		4.75	4.75	4.75
	143		5.25	5.25	5.25
	175		5.25	5.25	5.25
	207		4.25	4.25	4.25

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 2a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP 20MHz BW	2	NS	NS	NS	NS
	1	4.75	4.75	4.75	4.75
	5	4.75	4.75	4.75	4.75
	9-29	4.75	4.75	4.75	4.75
	33-61	4.75	4.75	4.75	4.75
	65-85	4.25	4.25	4.25	4.25
	89	4.25	4.25	4.25	4.25
	93	4.25	4.25	4.25	4.25
	97-113	NS	NS	NS	NS
	117-181	5.25	5.25	5.25	5.25
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP 40MHz BW	3		4.75	4.75	4.75
	11		4.75	4.75	4.75
	19-27		4.75	4.75	4.75
	35-59		4.75	4.75	4.75
	67-75		4.25	4.25	4.25
	83		4.25	4.25	4.25
	91		4.25	4.25	4.25
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		5.25	5.25	5.25
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP 80MHz BW	7		4.75	4.75	4.75
	23		4.75	4.75	4.75
	39-55		4.75	4.75	4.75
	71		4.25	4.25	4.25
	87		4.25	4.25	4.25
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		5.25	5.25	5.25
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP 160MHz BW	15		4.75	4.75	4.75
	47		4.75	4.75	4.75
	79		4.50	4.50	4.50
	111		NS	NS	NS
	143		5.25	5.25	5.25
	175		NS	NS	NS
	207		NS	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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Tables below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 4b and wPT active
-Simultaneous conditions with Inter-Band ULCA and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 4a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI LP 20MHz BW	2	NS	NS	NS	NS
	1	2.75	2.75	0.75	2.75
	5	2.75	2.75	0.75	2.75
	9-29	2.75	2.75	0.75	2.75
	33-61	2.75	2.75	0.75	2.75
	65-85	4.25	4.25	1.25	4.25
	89	4.25	4.25	1.25	4.25
	93	4.25	4.25	1.25	4.25
	97-113	4.00	4.00	0.75	3.75
	117-181	3.25	3.25	-1.00	2.00
	185	3.25	3.25	-1.00	2.00
	189-225	3.00	3.00	-0.75	2.25
	229	3.00	3.00	-0.75	2.25
	233	3.00	3.00	-0.75	2.25
6 GHz WIFI LP 40MHz BW	3	[redacted]	2.75	2.75	2.75
	11		2.75	2.75	2.75
	19-27		2.75	2.75	2.75
	35-59		2.75	2.75	2.75
	67-75		4.25	4.25	4.25
	83		4.25	4.25	4.25
	91		4.25	4.25	4.25
	99-107		4.00	3.75	4.00
	115		3.25	2.00	3.25
	123-179		3.25	2.00	3.25
	187		3.00	2.00	3.00
	195-219		3.00	2.25	3.00
	227		3.00	2.25	3.00
6 GHz WIFI LP 80MHz BW	7		2.75	2.75	2.75
	23		2.75	2.75	2.75
	39-55		2.75	2.75	2.75
	71		4.25	4.25	4.25
	87		4.25	4.25	4.25
	103		4.00	4.00	4.00
	119		3.25	3.25	3.25
	135-167		3.25	3.25	3.25
	183		3.00	3.00	3.00
	199		3.00	3.00	3.00
	215		3.00	3.00	3.00
6 GHz WIFI LP 160MHz BW	15		2.75	2.75	2.75
	47		2.75	2.75	2.75
	79		4.25	4.25	4.25
	111		4.00	4.00	4.00
	143		3.25	3.25	3.25
	175		3.25	3.25	3.25
	207		3.00	3.00	3.00

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 4a			
		Tolerance (+0/-3 dB)			
		SISO		MIMO	
		a	ax (SU)	ax (SU) CDD	ax (SU) SDM
6 GHz WIFI SP 20MHz BW	2	NS	NS	NS	NS
	1	2.75	2.75	2.75	2.75
	5	2.75	2.75	2.75	2.75
	9-29	2.75	2.75	2.75	2.75
	33-61	2.75	2.75	2.75	2.75
	65-85	4.25	4.25	4.25	4.25
	89	4.25	4.25	4.25	4.25
	93	4.25	4.25	4.25	4.25
	97-113	NS	NS	NS	NS
	117-181	3.25	3.25	3.25	3.25
	185	NS	NS	NS	NS
	189-225	NS	NS	NS	NS
	229	NS	NS	NS	NS
	233	NS	NS	NS	NS
6 GHz WIFI SP 40MHz BW	3		2.75	2.75	2.75
	11		2.75	2.75	2.75
	19-27		2.75	2.75	2.75
	35-59		2.75	2.75	2.75
	67-75		4.25	4.25	4.25
	83		4.25	4.25	4.25
	91		4.25	4.25	4.25
	99-107		NS	NS	NS
	115		NS	NS	NS
	123-179		3.25	3.25	3.25
	187		NS	NS	NS
	195-219		NS	NS	NS
	227		NS	NS	NS
6 GHz WIFI SP 80MHz BW	7		2.75	2.75	2.75
	23		2.75	2.75	2.75
	39-55		2.75	2.75	2.75
	71		4.25	4.25	4.25
	87		4.25	4.25	4.25
	103		NS	NS	NS
	119		NS	NS	NS
	135-167		3.25	3.25	3.25
	183		NS	NS	NS
	199		NS	NS	NS
	215		NS	NS	NS
6 GHz WIFI SP 160MHz BW	15		2.75	2.75	2.75
	47		2.75	2.75	2.75
	79		4.25	4.25	4.25
	111		NS	NS	NS
	143		3.25	3.25	3.25
	175		NS	NS	NS
	207		NS	NS	NS

Note: In MIMO operations, each antenna transmits at maximum allowed powers as indicated above.

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1.3.2 Bluetooth Maximum and Reduced Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
Bluetooth BDR	Maximum	**13.50**	**10.00**
	Nominal	**12.00**	**8.50**
Bluetooth EDR	Maximum	**13.00**	**6.00**
	Nominal	**11.50**	**4.50**
Bluetooth LE	Maximum	**13.50**	**10.00**
	Nominal	**12.00**	**8.50**
Bluetooth HDR4	Maximum	**10.00**	**3.50**
	Nominal	**8.50**	**2.00**
Bluetooth HDR8	Maximum	**10.00**	**3.50**
	Nominal	**8.50**	**2.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 2a	Modulated Average (iPA) TXBF (dBm) Antenna 2a
Bluetooth BDR	Maximum	**13.50**	**10.00**
	Nominal	**12.00**	**8.50**
Bluetooth EDR	Maximum	**13.00**	**6.00**
	Nominal	**11.50**	**4.50**
Bluetooth LE	Maximum	**13.50**	**10.00**
	Nominal	**12.00**	**8.50**
Bluetooth HDR4	Maximum	**10.00**	**3.50**
	Nominal	**8.50**	**2.00**
Bluetooth HDR8	Maximum	**10.00**	**3.50**
	Nominal	**8.50**	**2.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
Bluetooth BDR	Maximum	**12.50**	**11.00**
	Nominal	**11.00**	**9.50**
Bluetooth EDR	Maximum	**12.50**	**7.00**
	Nominal	**11.00**	**5.50**
Bluetooth LE	Maximum	**12.50**	**11.00**
	Nominal	**11.00**	**9.50**
Bluetooth HDR4	Maximum	**10.00**	**4.50**
	Nominal	**8.50**	**3.00**
Bluetooth HDR8	Maximum	**10.00**	**4.50**
	Nominal	**8.50**	**3.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
Bluetooth BDR	Maximum	**12.50**	**11.00**
	Nominal	**11.00**	**9.50**
Bluetooth EDR	Maximum	**12.50**	**7.00**
	Nominal	**11.00**	**5.50**
Bluetooth LE	Maximum	**12.50**	**11.00**
	Nominal	**11.00**	**9.50**
Bluetooth HDR4	Maximum	**10.00**	**4.50**
	Nominal	**8.50**	**3.00**
Bluetooth HDR8	Maximum	**10.00**	**4.50**
	Nominal	**8.50**	**3.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
Bluetooth BDR	Maximum	**10.50**	**10.00**
	Nominal	**9.00**	**8.50**
Bluetooth EDR	Maximum	**10.50**	**6.00**
	Nominal	**9.00**	**4.50**
Bluetooth LE	Maximum	**10.50**	**10.00**
	Nominal	**9.00**	**8.50**
Bluetooth HDR4	Maximum	**10.00**	**3.50**
	Nominal	**8.50**	**2.00**
Bluetooth HDR8	Maximum	**10.00**	**3.50**
	Nominal	**8.50**	**2.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 2a	Modulated Average (iPA) TXBF (dBm) Antenna 2a
Bluetooth BDR	Maximum	**10.50**	**10.00**
	Nominal	**9.00**	**8.50**
Bluetooth EDR	Maximum	**10.50**	**6.00**
	Nominal	**9.00**	**4.50**
Bluetooth LE	Maximum	**10.50**	**10.00**
	Nominal	**9.00**	**8.50**
Bluetooth HDR4	Maximum	**10.00**	**3.50**
	Nominal	**8.50**	**2.00**
Bluetooth HDR8	Maximum	**10.00**	**3.50**
	Nominal	**8.50**	**2.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1/3/4b, 5/6 GHz WLAN and WPT active
-Simultaneous conditions with 5/6 GHz WLAN active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
Bluetooth BDR	Maximum	**7.50**	**7.50**
	Nominal	**6.00**	**6.00**
Bluetooth EDR	Maximum	**7.50**	**6.00**
	Nominal	**6.00**	**4.50**
Bluetooth LE	Maximum	**7.50**	**7.50**
	Nominal	**6.00**	**6.00**
Bluetooth HDR4	Maximum	**7.50**	**3.50**
	Nominal	**6.00**	**2.00**
Bluetooth HDR8	Maximum	**7.50**	**3.50**
	Nominal	**6.00**	**2.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 2a	Modulated Average (iPA) TXBF (dBm) Antenna 2a
Bluetooth BDR	Maximum	**7.50**	**7.50**
	Nominal	**6.00**	**6.00**
Bluetooth EDR	Maximum	**7.50**	**6.00**
	Nominal	**6.00**	**4.50**
Bluetooth LE	Maximum	**7.50**	**7.50**
	Nominal	**6.00**	**6.00**
Bluetooth HDR4	Maximum	**7.50**	**3.50**
	Nominal	**6.00**	**2.00**
Bluetooth HDR8	Maximum	**7.50**	**3.50**
	Nominal	**6.00**	**2.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2b, 5/6 GHz WLAN and WPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
Bluetooth BDR	Maximum	**6.50**	**6.50**
	Nominal	**5.00**	**5.00**
Bluetooth EDR	Maximum	**6.50**	**6.00**
	Nominal	**5.00**	**4.50**
Bluetooth LE	Maximum	**6.50**	**6.50**
	Nominal	**5.00**	**5.00**
Bluetooth HDR4	Maximum	**6.50**	**3.50**
	Nominal	**5.00**	**2.00**
Bluetooth HDR8	Maximum	**6.50**	**3.50**
	Nominal	**5.00**	**2.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 2a	Modulated Average (iPA) TXBF (dBm) Antenna 2a
Bluetooth BDR	Maximum	**6.50**	**6.50**
	Nominal	**5.00**	**5.00**
Bluetooth EDR	Maximum	**6.50**	**6.00**
	Nominal	**5.00**	**4.50**
Bluetooth LE	Maximum	**6.50**	**6.50**
	Nominal	**5.00**	**5.00**
Bluetooth HDR4	Maximum	**6.50**	**3.50**
	Nominal	**5.00**	**2.00**
Bluetooth HDR8	Maximum	**6.50**	**3.50**
	Nominal	**5.00**	**2.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 4b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
Bluetooth BDR	Maximum	**9.50**	**9.50**
	Nominal	**8.00**	**8.00**
Bluetooth EDR	Maximum	**9.50**	**7.00**
	Nominal	**8.00**	**5.50**
Bluetooth LE	Maximum	**9.50**	**9.50**
	Nominal	**8.00**	**8.00**
Bluetooth HDR4	Maximum	**9.50**	**4.50**
	Nominal	**8.00**	**3.00**
Bluetooth HDR8	Maximum	**9.50**	**4.50**
	Nominal	**8.00**	**3.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
Bluetooth BDR	Maximum	**9.50**	**9.50**
	Nominal	**8.00**	**8.00**
Bluetooth EDR	Maximum	**9.50**	**7.00**
	Nominal	**8.00**	**5.50**
Bluetooth LE	Maximum	**9.50**	**9.50**
	Nominal	**8.00**	**8.00**
Bluetooth HDR4	Maximum	**9.50**	**4.50**
	Nominal	**8.00**	**3.00**
Bluetooth HDR8	Maximum	**9.50**	**4.50**
	Nominal	**8.00**	**3.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1/2b/3, 5/6 GHz WLAN, and wPT active
-Simultaneous conditions with 5/6 GHz WLAN, and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
Bluetooth BDR	Maximum	**6.50**	**6.50**
	Nominal	**5.00**	**5.00**
Bluetooth EDR	Maximum	**6.50**	**6.50**
	Nominal	**5.00**	**5.00**
Bluetooth LE	Maximum	**6.50**	**6.50**
	Nominal	**5.00**	**5.00**
Bluetooth HDR4	Maximum	**6.50**	**4.50**
	Nominal	**5.00**	**3.00**
Bluetooth HDR8	Maximum	**6.50**	**4.50**
	Nominal	**5.00**	**3.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
Bluetooth BDR	Maximum	**6.50**	**6.50**
	Nominal	**5.00**	**5.00**
Bluetooth EDR	Maximum	**6.50**	**6.50**
	Nominal	**5.00**	**5.00**
Bluetooth LE	Maximum	**6.50**	**6.50**
	Nominal	**5.00**	**5.00**
Bluetooth HDR4	Maximum	**6.50**	**4.50**
	Nominal	**5.00**	**3.00**
Bluetooth HDR8	Maximum	**6.50**	**4.50**
	Nominal	**5.00**	**3.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 4b, 5/6 GHz WLAN and WPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
Bluetooth BDR	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**
Bluetooth EDR	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**
Bluetooth LE	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**
Bluetooth HDR4	Maximum	**5.50**	**4.50**
	Nominal	**4.00**	**3.00**
Bluetooth HDR8	Maximum	**5.50**	**4.50**
	Nominal	**4.00**	**3.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
Bluetooth BDR	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**
Bluetooth EDR	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**
Bluetooth LE	Maximum	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**
Bluetooth HDR4	Maximum	**5.50**	**4.50**
	Nominal	**4.00**	**3.00**
Bluetooth HDR8	Maximum	**5.50**	**4.50**
	Nominal	**4.00**	**3.00**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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1.3.3 802.15.4 Maximum and Reduced Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
802.15.4	Maximum	**13.50**	**10.00**
	Nominal	**12.00**	**8.50**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
802.15.4	Maximum	**13.00**	**11.00**
	Nominal	**11.50**	**9.50**

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
802.15.4	Maximum	**10.50**	**10.00**
	Nominal	**9.00**	**8.50**

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1/3/4b, 5/6 GHz WLAN, and wPT active
-Simultaneous conditions with 5/6 GHz WLAN, and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
802.15.4	Maximum	**7.50**	**7.50**
	Nominal	**6.00**	**6.00**

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Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2b, 5/6 GHz WLAN, and wPT active
-Simultaneous conditions with Inter-Band ULCA Active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
802.15.4	Maximum	**6.50**	**6.50**
	Nominal	**5.00**	**5.00**

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 4b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
802.15.4	Maximum	**10.00**	**10.00**
	Nominal	**8.50**	**8.50**

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1/2b/3, 5/6 GHz WLAN, and wPT active
-Simultaneous conditions with 5/6 GHz WLAN, and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
802.15.4	Maximum	**7.00**	**7.00**
	Nominal	**5.50**	**5.50**

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 4b, 5/6 GHz WLAN, and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
802.15.4	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**

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1.3.4 NB UNII Maximum and Reduced Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5B
NB UNII-1 BDR	Maximum	**10.00**	**-2.00**
	Nominal	**8.50**	**-3.50**
NB UNII-1 HDR4	Maximum	**12.50**	**-2.00**
	Nominal	**11.00**	**-3.50**
NB UNII-1 HDR8	Maximum	**12.50**	**-2.00**
	Nominal	**11.00**	**-3.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF5B	Modulated Average (iPA) TXBF (dBm) Antenna WF5B
NB UNII-1 BDR	Maximum	**7.00**	**-2.00**
	Nominal	**5.50**	**-3.50**
NB UNII-1 HDR4	Maximum	**9.50**	**-2.00**
	Nominal	**8.00**	**-3.50**
NB UNII-1 HDR8	Maximum	**12.00**	**-2.00**
	Nominal	**10.50**	**-3.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna WF5B	Modulated Average (iPA) Single Tx Chain (dBm) Antenna WF5B
NB UNII-3 BDR	Maximum	**13.50**	**-1.00**
	Nominal	**12.00**	**-2.50**
NB UNII-3 HDR4	Maximum	**13.50**	**-1.00**
	Nominal	**12.00**	**-2.50**
NB UNII-3 HDR8	Maximum	**13.50**	**-1.00**
	Nominal	**12.00**	**-2.50**

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Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna WF5B	Modulated Average (iPA) TXBF (dBm) Antenna WF5B
NB UNII-3 BDR	Maximum	**13.50**	**-1.00**
	Nominal	**12.00**	**-2.50**
NB UNII-3 HDR4	Maximum	**13.50**	**-1.00**
	Nominal	**12.00**	**-2.50**
NB UNII-3 HDR8	Maximum	**13.50**	**-1.00**
	Nominal	**12.00**	**-2.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-1 BDR	Maximum	**9.00**	**-2.00**
	Nominal	**7.50**	**-3.50**
NB UNII-1 HDR4	Maximum	**9.00**	**-2.00**
	Nominal	**7.50**	**-3.50**
NB UNII-1 HDR8	Maximum	**9.00**	**-2.00**
	Nominal	**7.50**	**-3.50**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-3 BDR	Maximum	**10.50**	**-1.00**
	Nominal	**9.00**	**-2.50**
NB UNII-3 HDR4	Maximum	**10.50**	**-1.00**
	Nominal	**9.00**	**-2.50**
NB UNII-3 HDR8	Maximum	**10.50**	**-1.00**
	Nominal	**9.00**	**-2.50**

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Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	**9.50**	**1.00**
	Nominal	**8.00**	**-0.50**
NB UNII-1 HDR4	Maximum	**9.50**	**1.00**
	Nominal	**8.00**	**-0.50**
NB UNII-1 HDR8	Maximum	**9.50**	**1.00**
	Nominal	**8.00**	**-0.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	**7.00**	**1.00**
	Nominal	**5.50**	**-0.50**
NB UNII-1 HDR4	Maximum	**9.50**	**1.00**
	Nominal	**8.00**	**-0.50**
NB UNII-1 HDR8	Maximum	**9.50**	**1.00**
	Nominal	**8.00**	**-0.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	**10.50**	**2.00**
	Nominal	**9.00**	**0.50**
NB UNII-3 HDR4	Maximum	**10.50**	**2.00**
	Nominal	**9.00**	**0.50**
NB UNII-3 HDR8	Maximum	**10.50**	**2.00**
	Nominal	**9.00**	**0.50**

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Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	**10.50**	**2.00**
	Nominal	**9.00**	**0.50**
NB UNII-3 HDR4	Maximum	**10.50**	**2.00**
	Nominal	**9.00**	**0.50**
NB UNII-3 HDR8	Maximum	**10.50**	**2.00**
	Nominal	**9.00**	**0.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Tables below is applicable in the following conditions:
- Simultaneous conditions with Licensed Bands Antenna 2b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-1 BDR	Maximum	**6.00**	**-2.00**
	Nominal	**4.50**	**-3.50**
NB UNII-1 HDR4	Maximum	**6.00**	**-2.00**
	Nominal	**4.50**	**-3.50**
NB UNII-1 HDR8	Maximum	**6.00**	**-2.00**
	Nominal	**4.50**	**-3.50**

Tables below is applicable in the following conditions:
- Simultaneous conditions with Licensed Bands Antenna 2b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-3 BDR	Maximum	**7.50**	**-1.00**
	Nominal	**6.00**	**-2.50**
NB UNII-3 HDR4	Maximum	**7.50**	**-1.00**
	Nominal	**6.00**	**-2.50**
NB UNII-3 HDR8	Maximum	**7.50**	**-1.00**
	Nominal	**6.00**	**-2.50**

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Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1/2b/3, 2.4 GHz WLAN and wPT active
-Simultaneous conditions with 2.4 GHz WLAN active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-1 BDR	Maximum	**3.00**	**-2.00**
	Nominal	**1.50**	**-3.50**
NB UNII-1 HDR4	Maximum	**3.00**	**-2.00**
	Nominal	**1.50**	**-3.50**
NB UNII-1 HDR8	Maximum	**3.00**	**-2.00**
	Nominal	**1.50**	**-3.50**

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1/2b/3, 2.4 GHz WLAN and wPT active
-Simultaneous conditions with 2.4 GHz WLAN active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-3 BDR	Maximum	**4.50**	**-1.00**
	Nominal	**3.00**	**-2.50**
NB UNII-3 HDR4	Maximum	**4.50**	**-1.00**
	Nominal	**3.00**	**-2.50**
NB UNII-3 HDR8	Maximum	**4.50**	**-1.00**
	Nominal	**3.00**	**-2.50**

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2b, 2.4 GHz WLAN and WPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-1 BDR	Maximum	**2.00**	**-2.00**
	Nominal	**0.50**	**-3.50**
NB UNII-1 HDR4	Maximum	**2.00**	**-2.00**
	Nominal	**0.50**	**-3.50**
NB UNII-1 HDR8	Maximum	**2.00**	**-2.00**
	Nominal	**0.50**	**-3.50**

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Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 2b, 2.4 GHz WLAN and WPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 2a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 2a
NB UNII-3 BDR	Maximum	**3.50**	**-1.00**
	Nominal	**2.00**	**-2.50**
NB UNII-3 HDR4	Maximum	**3.50**	**-1.00**
	Nominal	**2.00**	**-2.50**
NB UNII-3 HDR8	Maximum	**3.50**	**-1.00**
	Nominal	**2.00**	**-2.50**

Tables below is applicable in the following conditions:
- Simultaneous conditions with Licensed Bands Antenna 4b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	**6.50**	**1.00**
	Nominal	**5.00**	**-0.50**
NB UNII-1 HDR4	Maximum	**6.50**	**1.00**
	Nominal	**5.00**	**-0.50**
NB UNII-1 HDR8	Maximum	**6.50**	**1.00**
	Nominal	**5.00**	**-0.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	**6.50**	**1.00**
	Nominal	**5.00**	**-0.50**
NB UNII-1 HDR4	Maximum	**6.50**	**1.00**
	Nominal	**5.00**	**-0.50**
NB UNII-1 HDR8	Maximum	**6.50**	**1.00**
	Nominal	**5.00**	**-0.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Tables below is applicable in the following conditions:
- Simultaneous conditions with Licensed Bands Antenna 4b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	**7.50**	**2.00**
	Nominal	**6.00**	**0.50**
NB UNII-3 HDR4	Maximum	**7.50**	**2.00**
	Nominal	**6.00**	**0.50**
NB UNII-3 HDR8	Maximum	**7.50**	**2.00**
	Nominal	**6.00**	**0.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	**7.50**	**2.00**
	Nominal	**6.00**	**0.50**
NB UNII-3 HDR4	Maximum	**7.50**	**2.00**
	Nominal	**6.00**	**0.50**
NB UNII-3 HDR8	Maximum	**7.50**	**2.00**
	Nominal	**6.00**	**0.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Tables below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1/2b/3, 2.4 GHz WLAN and WPT active
-Simultaneous conditions with 2.4 GHz WLAN active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	**3.50**	**1.00**
	Nominal	**2.00**	**-0.50**
NB UNII-1 HDR4	Maximum	**3.50**	**1.00**
	Nominal	**2.00**	**-0.50**
NB UNII-1 HDR8	Maximum	**3.50**	**1.00**
	Nominal	**2.00**	**-0.50**

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Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	**3.50**	**1.00**
	Nominal	**2.00**	**-0.50**
NB UNII-1 HDR4	Maximum	**3.50**	**1.00**
	Nominal	**2.00**	**-0.50**
NB UNII-1 HDR8	Maximum	**3.50**	**1.00**
	Nominal	**2.00**	**-0.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 1/2b/3, 2.4 GHz WLAN and wPT active
-Simultaneous conditions with 2.4 GHz WLAN active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	**4.50**	**2.00**
	Nominal	**4.50**	**2.00**
NB UNII-3 HDR4	Maximum	**4.50**	**2.00**
	Nominal	**4.50**	**2.00**
NB UNII-3 HDR8	Maximum	**4.50**	**2.00**
	Nominal	**4.50**	**2.00**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	**4.50**	**2.00**
	Nominal	**3.00**	**0.50**
NB UNII-3 HDR4	Maximum	**4.50**	**2.00**
	Nominal	**3.00**	**0.50**
NB UNII-3 HDR8	Maximum	**4.50**	**2.00**
	Nominal	**3.00**	**0.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

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Tables below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 4b, 2.4 GHz WLAN and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	**2.50**	**1.00**
	Nominal	**1.00**	**-0.50**
NB UNII-1 HDR4	Maximum	**2.50**	**1.00**
	Nominal	**1.00**	**-0.50**
NB UNII-1 HDR8	Maximum	**2.50**	**1.00**
	Nominal	**1.00**	**-0.50**

Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-1 BDR	Maximum	**2.50**	**1.00**
	Nominal	**1.00**	**-0.50**
NB UNII-1 HDR4	Maximum	**2.50**	**1.00**
	Nominal	**1.00**	**-0.50**
NB UNII-1 HDR8	Maximum	**2.50**	**1.00**
	Nominal	**1.00**	**-0.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

Table below is applicable in the following conditions:
-Simultaneous conditions with Licensed Bands Antenna 4b, 2.4 GHz WLAN and wPT active
-Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 4a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	**3.50**	**2.00**
	Nominal	**2.00**	**0.50**
NB UNII-3 HDR4	Maximum	**3.50**	**2.00**
	Nominal	**2.00**	**0.50**
NB UNII-3 HDR8	Maximum	**3.50**	**2.00**
	Nominal	**2.00**	**0.50**

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Mode / Band		Modulated Average (ePA) TXBF (dBm) Antenna 4a	Modulated Average (iPA) TXBF (dBm) Antenna 4a
NB UNII-3 BDR	Maximum	**3.50**	**2.00**
	Nominal	**2.00**	**0.50**
NB UNII-3 HDR4	Maximum	**3.50**	**2.00**
	Nominal	**2.00**	**0.50**
NB UNII-3 HDR8	Maximum	**3.50**	**2.00**
	Nominal	**2.00**	**0.50**

Note: In TxBF operations, each antenna transmits at maximum allowed powers as indicated above.

1.4 DUT Antenna Locations

The overall diagonal dimension of the device is > 200 mm. A diagram showing the location of the device antennas can be found in DUT Antenna Diagram & SAR Test Setup Photographs Appendix. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filings.

Note: Per FCC KDB Publication 616217 D04v01r01, front side of the device is not required to be evaluated for SAR. All other edges were evaluated for simultaneous transmission analysis.

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1.5 Simultaneous Transmission Capabilities

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

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D04v01 4.3.2 procedures.

Table 1-6
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Body
1	2.4 GHz WI-FI MIMO + WPT	Yes
2	5/6 GHz WI-FI MIMO + WPT	Yes
3	2.4 GHz Bluetooth (TXBF) + WPT	Yes
4	NB UNII (TXBF) + WPT	Yes
5	Cellular Band + 2.4 GHz WI-FI + WPT	Yes
6	Cellular Band + 5/6 GHz WI-FI + WPT	Yes
7	Cellular Band + 2.4 GHz Bluetooth + WPT	Yes
8	Cellular Band + 802.15.4 + WPT	Yes
9	Cellular Band + 2.4 GHz WI-FI MIMO + WPT	Yes
10	Cellular Band + 5/6 GHz WI-FI MIMO + WPT	Yes
11	Cellular Band + 2.4 GHz Bluetooth + 5/6 GHz WI-FI + WPT	Yes
12	Cellular Band + 802.15.4 + 5/6 GHz WI-FI + WPT	Yes
13	Cellular Band + 2.4 GHz Bluetooth + 5/6 GHz WI-FI MIMO + WPT	Yes
14	Cellular Band + 802.15.4 + 5/6 GHz WI-FI MIMO + WPT	Yes
15	2.4 GHz Bluetooth + 5/6 GHz WI-FI + WPT	Yes
16	802.15.4 + 5/6 GHz WI-FI + WPT	Yes
17	2.4 GHz Bluetooth + 5/6 GHz WI-FI MIMO + WPT	Yes
18	802.15.4 + 5/6 GHz WI-FI MIMO + WPT	Yes
19	Cellular Band + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI + WPT	Yes
20	Cellular Band + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI MIMO + WPT	Yes
21	2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI + WPT	Yes
22	2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI MIMO + WPT	Yes
23	Cellular Band + NB UNII + WPT	Yes
24	Cellular Band + NB UNII+ 2.4 GHz WI-FI + WPT	Yes
25	Cellular Band + NB UNII+ 2.4 GHz WI-FI MIMO + WPT	Yes
26	NB UNII + 2.4 GHz WI-FI + WPT	Yes
27	NB UNII + 2.4 GHz WI-FI MIMO + WPT	Yes
28	Cellular Band + NB UNII (TXBF) + 2.4 GHz WI-FI + WPT	Yes
29	NB UNII (TXBF) + 2.4 GHz WI-FI + WPT	Yes
30	Cellular Band + NB UNII (TXBF) + 2.4 GHz WI-FI MIMO + WPT	Yes
31	NB UNII (TXBF) + 2.4 GHz WI-FI MIMO + WPT	Yes
32	Cellular Band + NB UNII (TXBF) + WPT	Yes
33	Cellular Band + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
34	Cellular Band + 2.4 GHz WI-FI Antenna 4a + 2.4 GHz Bluetooth Antenna 2a + WPT	Yes
35	Cellular Band + 2.4 GHz WI-FI Antenna 4a + 802.15.4 Antenna 2a + WPT	Yes
36	2.4 GHz WI-FI Antenna 4a + 2.4 GHz Bluetooth Antenna 2a + WPT	Yes
37	2.4 GHz WI-FI Antenna 4a + 802.15.4 Antenna 2a + WPT	Yes

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Table 1-7
Simultaneous Transmission Scenarios of Inter-Band ULCA

No.	Capable Transmit Configuration	Body	Notes
1	Cellular Ant 1 LB + Cellular Ant 2b MB/HB	Yes	LTE Bands transmitting from Ant 1 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 2b MB/HB: LTE B2/4/7/30/66
2	Cellular Ant 1 LB + Cellular Ant 3 MB/HB	Yes	LTE Bands transmitting from Ant 1 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 3 MB/HB: LTE B2/4/7/30/66
3	Cellular Ant 1 LB + Cellular Ant 4b MB/HB	Yes	LTE Bands transmitting from Ant 1 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 4b MB/HB: LTE B2/4/7/30/66
4	Cellular Ant 3 LB + Cellular Ant 1 MB/HB	Yes	LTE Bands transmitting from Ant 3 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 1 MB/HB: LTE B2/4/7/30/66
5	Cellular Ant 3 LB + Cellular Ant 2b MB/HB	Yes	LTE Bands transmitting from Ant 3 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 2b MB/HB: LTE B2/4/7/30/66
6	Cellular Ant 3 LB + Cellular Ant 4b MB/HB	Yes	LTE Bands transmitting from Ant 3 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 4b MB/HB: LTE B2/4/7/30/66

Note: The technical description includes all the possible Inter-band ULCA combinations.

Table 1-8
Simultaneous Transmission Scenarios with Inter-Band ULCA Active

No.	Capable Transmit Configuration	Body
1	LTE Inter-Band ULCA + 2.4 GHz WI-FI + WPT	Yes
2	LTE Inter-Band ULCA + 5/6 GHz WI-FI + WPT	Yes
3	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + WPT	Yes
4	LTE Inter-Band ULCA + 802.15.4 + WPT	Yes
5	LTE Inter-Band ULCA + 2.4 GHz WI-FI MIMO + WPT	Yes
6	LTE Inter-Band ULCA + 5/6 GHz WI-FI MIMO + WPT	Yes
7	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5/6 GHz WI-FI + WPT	Yes
8	LTE Inter-Band ULCA + 802.15.4 + 5/6 GHz WI-FI + WPT	Yes
9	LTE Inter-Band ULCA + 2.4 GHz Bluetooth + 5/6 GHz WI-FI MIMO + WPT	Yes
10	LTE Inter-Band ULCA + 802.15.4 + 5/6 GHz WI-FI MIMO + WPT	Yes
11	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI + WPT	Yes
12	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + 5/6 GHz WI-FI MIMO + WPT	Yes
13	LTE Inter-Band ULCA + NB UNII + WPT	Yes
14	LTE Inter-Band ULCA + NB UNII+ 2.4 GHz WI-FI + WPT	Yes
15	LTE Inter-Band ULCA + NB UNII+ 2.4 GHz WI-FI MIMO + WPT	Yes
16	LTE Inter-Band ULCA + NB UNII (TXBF) + 2.4 GHz WI-FI + WPT	Yes
17	LTE Inter-Band ULCA + NB UNII (TXBF) + 2.4 GHz WI-FI MIMO + WPT	Yes
18	LTE Inter-Band ULCA + NB UNII (TXBF) + WPT	Yes
19	LTE Inter-Band ULCA + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
20	LTE Inter-Band ULCA + 2.4 GHz WI-FI Antenna 4a + 2.4 GHz Bluetooth Antenna 2a	Yes
21	LTE Inter-Band ULCA + 2.4 GHz WI-FI Antenna 4a + 802.15.4 Antenna 2a	Yes

Note: LTE inter-band ULCA can operate in any of the combinations in Table 1-9

1. There are no limitations in the above listed simultaneous transmission scenarios between cellular antennas and BT/WI-FI antennas.
2. 2.4GHz WIFI and 2.4 GHz Bluetooth/802.15.4 can transmit simultaneously on separate antennas. Specific 2.4 GHz WIFI Antenna that can only transmit simultaneously with 2.4 GHz Bluetooth/802.15.4 is listed in the above table. In this scenario, Wi-Fi max power will not exceed minimum of (13.5 dBm, SAR max cap, Reg max cap) power. Additionally, in disconnected mode, BT will be using iPA only.
3. Specific NB UNII TXBF Antennas that can only transmit simultaneously are listed in the Simultaneous Transmission Backoff Scenarios document.
4. 2.4 GHz WLAN and 5 GHz WLAN cannot transmit simultaneously.
5. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.

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6. EN-DC operation is supported with LTE + 5G NR FR1 scenarios. The LTE anchor bands are shown in the NR FR1 checklist.
7. This device supports VoWIFI.

1.6 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Based on the maximum allowed power for the respective antennas, U-NII-2A was evaluated for Antenna 2a, Antenna 4a and Antenna WF5B. Additional testing for U-NII-1 Antenna 2a, Antenna 4a and Antenna WF5B SAR was not required since all reported SAR was less than 1.2 W/kg per FCC KDB Publication 248227 D01v02r02.

The WLAN/Bluetooth/802.15.4/NB UNII chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report. WLAN/Bluetooth/802.15.4/NB UNII SAR worst case configuration was spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining WLAN/Bluetooth/802.15.4/NB UNII configurations.

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

This device supports IEEE 802.11ac with the following features:
a) Up to 160 MHz Bandwidth only for 5/6 GHz
b) 3 Tx antenna output
c) 256 QAM is supported
d) TDWR and Band gap channels are supported

This device supports IEEE 802.11ax with the following features:
a) Up to 160 MHz Bandwidth only for 5/6 GHz
b) Up to 20 MHz Bandwidth only for 2.4 GHz
c) No aggregate channel configurations
d) 3 Tx antenna output
e) Up to 1024 QAM is supported
f) TDWR and Band gap channels are supported for 5 GHz
g) MU-MIMO UL Operations are not supported

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

Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. FCC KDB 648474 and FCC KDB 248227 were followed for test positions, distances, and modes. Per TCB workshop October 2020 notes, 5 channels were tested. 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%.

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(B) Licensed Transmitter(s)

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.

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.

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

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

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

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

This device supports both Power Class 2 (PC2) and Power Class 3 (PC3) for LTE Band 41 and NR Band n41/77. Per May 2017 TCB Workshop Notes, SAR tests were performed with Power Class 3 (given the specific UL/DL limitations for Power Class 2). Additionally, SAR testing for the power class 2 condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 13).

This device supports LTE Carrier Aggregation (CA) for LTE Band 41, LTE Band 48, LTE Band 5, and LTE Band 7 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

This device supports inter-band LTE Carrier Aggregation (CA) for LTE Bands 2/4/5/7/12/13/14/66 with two component carriers in the uplink.

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.

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1.7 Guidance Applied

- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02 (3G/4G)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (Interim General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r02 (Tablet)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO, LTE Band 41 Power Class 2/3)
- November 2017, April 2018, October 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- October 2018 TCB Workshop Notes (Inter-band Uplink Carrier Aggregation)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCB Workshop Notes (IEEE 802.11ax)
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEEE 1528-2013
- IEC TR 63170:2018
- IEC 62479:2010

1.8 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 10.

1.9 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report	1C2311270070-01.BCG
RF Exposure Part 2 Test Report	1C2311270070-03.BCG
RF Exposure Compliance Summary Report	1C2311270070-04.BCG

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2 LTE AND NR INFORMATION

LTE Information					
Form Factor	Tablet				
Frequency Range of each LTE transmission	LTE Band 71 (665.5 - 695.5 MHz)				
	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 14 (790.5 - 795.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)				
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)				
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)				
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)				
	LTE Band 30 (2307.5 - 2312.5 MHz)				
	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
	LTE Band 48 (3552.5 - 3697.5 MHz)				
Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 30: 5 MHz, 10 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133147)		680.5 (133297)	695.5 (133447)	
LTE Band 71: 10 MHz	668 (133172)		680.5 (133297)	693 (133422)	
LTE Band 71: 15 MHz	670.5 (133197)		680.5 (133297)	690.5 (133397)	
LTE Band 71: 20 MHz	673 (133222)		680.5 (133297)	688 (133372)	
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)	711 (23130)	
LTE Band 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 14: 5 MHz	790.5 (23305)		793 (23330)	795.5 (23355)	
LTE Band 14: 10 MHz	N/A		793 (23330)	N/A	
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)		831.5 (26865)	848.3 (27033)	
LTE Band 26 (Cell): 3 MHz	815.5 (26705)		831.5 (26865)	847.5 (27025)	
LTE Band 26 (Cell): 5 MHz	816.5 (26715)		831.5 (26865)	846.5 (27015)	
LTE Band 26 (Cell): 10 MHz	819 (26740)		831.5 (26865)	844 (26990)	
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)		836.5 (20525)	848.3 (20643)	
LTE Band 5 (Cell): 3 MHz	825.5 (20415)		836.5 (20525)	847.5 (20635)	
LTE Band 5 (Cell): 5 MHz	826.5 (20425)		836.5 (20525)	846.5 (20625)	
LTE Band 5 (Cell): 10 MHz	829 (20450)		836.5 (20525)	844 (20600)	
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)		1745 (132322)	1779.3 (132665)	
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)		1745 (132322)	1778.5 (132657)	
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)		1745 (132322)	1777.5 (132647)	
LTE Band 66 (AWS): 10 MHz	1715 (132022)		1745 (132322)	1775 (132622)	
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)		1745 (132322)	1772.5 (132597)	
LTE Band 66 (AWS): 20 MHz	1720 (132072)		1745 (132322)	1770 (132572)	
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)		1732.5 (20175)	1754.3 (20393)	
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)		1732.5 (20175)	1753.5 (20385)	
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)		1732.5 (20175)	1752.5 (20375)	
LTE Band 4 (AWS): 10 MHz	1715 (20000)		1732.5 (20175)	1750 (20350)	
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)		1732.5 (20175)	1747.5 (20325)	
LTE Band 4 (AWS): 20 MHz	1720 (20050)		1732.5 (20175)	1745 (20300)	
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)		1882.5 (26365)	1914.3 (26683)	
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)		1882.5 (26365)	1913.5 (26675)	
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)		1882.5 (26365)	1912.5 (26665)	
LTE Band 25 (PCS): 10 MHz	1855 (26090)		1882.5 (26365)	1910 (26640)	
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)		1882.5 (26365)	1907.5 (26615)	
LTE Band 25 (PCS): 20 MHz	1860 (26140)		1882.5 (26365)	1905 (26590)	
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)		1880 (18900)	1909.3 (19193)	
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)		1880 (18900)	1908.5 (19185)	
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)		1880 (18900)	1907.5 (19175)	
LTE Band 2 (PCS): 10 MHz	1855 (18650)		1880 (18900)	1905 (19150)	
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)		1880 (18900)	1902.5 (19125)	
LTE Band 2 (PCS): 20 MHz	1860 (18700)		1880 (18900)	1900 (19100)	
LTE Band 30: 5 MHz	2307.5 (27685)		2310 (27710)	2312.5 (27735)	
LTE Band 30: 10 MHz	N/A		2310 (27710)	N/A	
LTE Band 7: 5 MHz	2502.5 (20775)		2535 (21100)	2567.5 (21425)	
LTE Band 7: 10 MHz	2505 (20800)		2535 (21100)	2565 (21400)	
LTE Band 7: 15 MHz	2507.5 (20825)		2405 (21100)	2562.5 (21375)	
LTE Band 7: 20 MHz	2510 (20850)		2535 (21100)	2560 (21350)	
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	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)
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	N/A	3649.2 (56232)	3697.5 (56715)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)	3695 (56690)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)	3692.5 (56665)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)	3690 (56640)
UE Category	DL UE Cat 20, UL UE Cat 18				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3~6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR	YES				
LTE Carrier Aggregation Possible	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO, LAA features as shown in the RF Conducted Powers section of this report and the Downlink LTE CA RF Conductive Powers Appendix. All uplink communications are identical to the Release 8 Specifications. The following LTE Release 15 Features are not supported: Carrier Aggregation, Relay, HetNet, Enhanced MIMO, eICIC, WIFI Offloading, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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NR Information						
Form Factor	Tablet					
Frequency Range of each NR transmission band	NR Band n71 (665.5 - 695.5 MHz)					
	NR Band n12 (701.5 - 713.5 MHz)					
	NR Band n14 (790.5 - 795.5 MHz)					
	NR Band n26 (Cell) (816.5 - 846.5 MHz)					
	NR Band n5 (Cell) (826.5 - 846.5 MHz)					
	NR Band n70 (1697.5 - 1707.5 MHz)					
	NR Band n66 (AWS) (1712.5 - 1777.5 MHz)					
	NR Band n25 (PCS) (1852.5 - 1912.5 MHz)					
	NR Band n2 (PCS) (1852.5 - 1907.5 MHz)					
	NR Band n30 (2307.5 - 2312.5 MHz)					
	NR Band n7 (2502.5 - 2567.5 MHz)					
	NR Band n41 (2501.01 - 2685 MHz)					
	NR Band n48 (3555.0 - 3694.98 MHz)					
	NR Band n77 DoD (3455.01 - 3544.98 MHz)					
	NR Band n77 C (3705.0 - 3975.0 MHz)					
Channel Bandwidths	NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz					
	NR Band n12: 5 MHz, 10 MHz, 15 MHz					
	NR Band n14: 5 MHz, 10 MHz					
	NR Band n26 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz					
	NR Band n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz					
	NR Band n70: 5 MHz, 10 MHz, 15 MHz					
	NR Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz					
	NR Band n25 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 35 MHz, 40 MHz					
	NR Band n2 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz					
	NR Band n30: 5 MHz, 10 MHz					
	NR Band n7: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz					
	NR Band n41: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz					
	NR Band n48: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz					
	NR Band n77 DoD: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz					
	NR Band n77 C: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz					
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid		Mid-High	High
NR Band n71: 5 MHz	665.5 (133100)		680.5 (136100)		695.5 (139100)	
NR Band n71: 10 MHz	668 (133600)		680.5 (136100)		693 (138600)	
NR Band n71: 15 MHz	670.5 (134100)		680.5 (136100)		690.5 (138100)	
NR Band n71: 20 MHz	673 (134600)		680.5 (136100)		688 (137600)	
NR Band n12: 5 MHz	701.5 (140300)		707.5 (141500)		713.5 (142700)	
NR Band n12: 10 MHz	704 (140800)		707.5 (141500)		711 (142200)	
NR Band n12: 15 MHz	706.5 (141300)		707.5 (141500)		708.5 (141700)	
NR Band n14: 5 MHz	790.5 (158100)		793 (158600)		795.5 (159100)	
NR Band n14: 10 MHz	N/A		793 (158600)		N/A	
NR Band n26 (Cell): 5 MHz	816.5 (163300)		831.5 (166300)		846.5 (169300)	
NR Band n26 (Cell): 10 MHz	819 (163800)		831.5 (166300)		844 (168800)	
NR Band n26 (Cell): 15 MHz	821.5 (164300)		831.5 (166300)		841.5 (168300)	
NR Band n26 (Cell): 20 MHz	N/A		831.5 (166300)		N/A	
NR Band n5 (Cell): 5 MHz	826.5 (165300)		836.5 (167300)		846.5 (169300)	
NR Band n5 (Cell): 10 MHz	829 (165800)		836.5 (167300)		844 (168800)	
NR Band n5 (Cell): 15 MHz	831.5 (166300)		836.5 (167300)		841.5 (168300)	
NR Band n5 (Cell): 20 MHz	834 (166800)		836.5 (167300)		839 (167800)	
NR Band n70: 5 MHz	1697.5 (339500)		1702.5 (340500)		1707.5 (341500)	
NR Band n70: 10 MHz	1700 (340000)		1702.5 (340500)		1705 (341000)	
NR Band n70: 15 MHz	N/A		1702.5 (340500)		N/A	
NR Band n66 (AWS): 5 MHz	1712.5 (342500)		1745 (349000)		1777.5 (355500)	
NR Band n66 (AWS): 10 MHz	1715 (343000)		1745 (349000)		1775 (355000)	
NR Band n66 (AWS): 15 MHz	1717.5 (343500)		1745 (349000)		1772.5 (354500)	
NR Band n66 (AWS): 20 MHz	1720 (344000)		1745 (349000)		1770 (354000)	
NR Band n66 (AWS): 25 MHz	1722.5 (344500)		1745 (349000)		1767.5 (353500)	
NR Band n66 (AWS): 30 MHz	1725 (345000)		1745 (349000)		1765 (353000)	
NR Band n66 (AWS): 35 MHz	1727.5 (345500)		1745 (349000)		1762.5 (352500)	
NR Band n66 (AWS): 40 MHz	1730 (346000)		1745 (349000)		1760 (352000)	
NR Band n25 (PCS): 5 MHz	1852.5 (370500)		1882.5 (376500)		1912.5 (382500)	
NR Band n25 (PCS): 10 MHz	1855 (371000)		1882.5 (376500)		1910 (382000)	
NR Band n25 (PCS): 15 MHz	1857.5 (371500)		1882.5 (376500)		1907.5 (381500)	
NR Band n25 (PCS): 20 MHz	1860 (372000)		1882.5 (376500)		1905 (381000)	
NR Band n25 (PCS): 30 MHz	1865 (373000)		1882.5 (376500)		1900 (380000)	
NR Band n25 (PCS): 35 MHz	1867.5 (373500)		1882.5 (376500)		1897.5 (379500)	
NR Band n25 (PCS): 40 MHz	1870 (374000)		1882.5 (376500)		1895 (379000)	
NR Band n2 (PCS): 5 MHz	1852.5 (370500)		1880 (376000)		1907.5 (381500)	
NR Band n2 (PCS): 10 MHz	1855 (371000)		1880 (376000)		1905 (381000)	
NR Band n2 (PCS): 15 MHz	1857.5 (371500)		1880 (376000)		1902.5 (380500)	
NR Band n2 (PCS): 20 MHz	1860 (372000)		1880 (376000)		1900 (380000)	
NR Band n30: 5 MHz	2307.5 (461500)		2310 (462000)		2312.5 (462500)	
NR Band n30: 10 MHz	N/A		2310 (462000)		N/A	
NR Band n7: 5 MHz	2502.5 (500500)		2535 (507000)		2567.5 (513500)	
NR Band n7: 10 MHz	2505 (501000)		2535 (507000)		2565 (513000)	
NR Band n7: 15 MHz	2507.5 (501500)		2535 (507000)		2562.5 (512500)	
NR Band n7: 20 MHz	2510 (502000)		2535 (507000)		2560 (512000)	
NR Band n7: 25 MHz	2512.5 (502500)		2535 (507000)		2557.5 (511500)	
NR Band n7: 30 MHz	2515 (503000)		2535 (507000)		2555 (511000)	
NR Band n7: 35 MHz	2517.5 (503500)		2535 (507000)		2552.5 (511500)	
NR Band n7: 40 MHz	2520 (504000)		2535 (507000)		2550 (510000)	
NR Band n41: 10 MHz	2501.01 (500202)	2547 (509400)	2592.99 (518598)		2639.01 (527802)	2685 (537000)
NR Band n41: 15 MHz	2503.5 (500700)	2548.26 (509652)	2592.99 (518598)		2637.75 (527550)	2682.48 (536496)
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)		2636.49 (527298)	2679.99 (535998)
NR Band n41: 30 MHz	2511 (502200)	2552.01 (510402)	2592.99 (518598)		2634 (526800)	2674.98 (534996)
NR Band n41: 40 MHz	2516.01 (503202)	2567.34 (513468)	N/A		2618.67 (523734)	2670 (534000)
NR Band n41: 50 MHz	2521.02 (504204)		2592.99 (518598)		2664.99 (532998)	
NR Band n41: 60 MHz	2526 (505200)		2592.99 (518598)		2659.98 (531996)	
NR Band n41: 70 MHz	2531.01 (506202)		N/A		2655 (531000)	
NR Band n41: 80 MHz	2536.02 (507204)		N/A		2649.99 (529998)	
NR Band n41: 90 MHz	2541 (508200)		N/A		2644.98 (528996)	
NR Band n41: 100 MHz	2546.01 (509202)		2592.99 (518598)		2640 (528000)	
NR Band n48: 10 MHz	3555 (637000)	3601.68 (640112)	N/A		3648.33 (643222)	3694.98 (646332)
NR Band n48: 15 MHz	3557.52 (637168)	3602.49 (640166)	N/A		3647.49 (643166)	3692.49 (646166)
NR Band n48: 20 MHz	3560.01 (637334)	3603.33 (640222)	N/A		3646.68 (643112)	3690 (646000)
NR Band n48: 30 MHz	3565.02 (637668)	3605.01 (640334)	N/A		3645 (643000)	3684.99 (645666)
NR Band n48: 40 MHz	3570 (638000)	N/A	3624.99 (641666)		N/A	3679.98 (645332)
NR Band n77 DoD: 10 MHz	3455.01 (630334)		3500.01 (633334)		3544.98 (636332)	
NR Band n77 DoD: 15 MHz	3457.5 (630500)		3500.01 (633334)		3542.49 (636166)	
NR Band n77 DoD: 20 MHz	3460.02 (630668)		3500.01 (633334)		3540 (636000)	
NR Band n77 DoD: 30 MHz	3465 (631000)		3500.01 (633334)		3534.99 (635666)	
NR Band n77 DoD: 40 MHz	3470.01 (631334)		N/A		3529.98 (635332)	
NR Band n77 DoD: 50 MHz	3475.02 (631668)		N/A		3525 (635000)	
NR Band n77 DoD: 60 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 70 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 80 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 90 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 DoD: 100 MHz	N/A		3500.01(633334)		N/A	
NR Band n77 C: 10 MHz	3705 (647000)	3759 (650600)	3813 (654200)	3867 (657800)	3921 (661400)	3975 (665000)
NR Band n77 C: 15 MHz	3707.52 (647168)	3760.5 (650700)	3813.51 (654234)	3866.49 (657766)	3919.5 (661300)	3972.48 (664832)
NR Band n77 C: 20 MHz	3710.01 (647334)	3762 (650800)	3813.99 (654266)	3866.01 (657734)	3918 (661200)	3969.99 (664666)
NR Band n77 C: 30 MHz	3715.02 (647668)	3765 (651000)	3815.01 (654334)	3864.99 (657666)	3915 (661000)	3964.98 (664332)
NR Band n77 C: 40 MHz	3720 (648000)	3768 (651200)	3816 (654400)	3864 (657600)	3912 (660800)	3960 (664000)
NR Band n77 C: 50 MHz	3725.01 (648334)	3782.49 (652166)	3840 (656000)		3897.51 (659834)	3954.99 (663666)
NR Band n77 C: 60 MHz	3730.02 (648668)	3803.34 (653556)	N/A	N/A	3876.66 (658444)	3949.98 (663332)
NR Band n77 C: 70 MHz	3735 (649000)	3804.99 (653666)	N/A		3875.01 (658334)	3945 (663000)
NR Band n77 C: 80 MHz	3740.01 (649334)	N/A	3840 (656000)		N/A	3939.99 (662666)
NR Band n77 C: 90 MHz	3745.02 (649668)	N/A	3840 (656000)		N/A	3934.98 (662332)
NR Band n77 C: 100 MHz	3750 (650000)	N/A	N/A	N/A	N/A	3930 (662000)
SCS for NR Band	15 kHz					
SCS for NR Band n41/n48/n77 DoD/n77 C	30 kHz					
Modulations Supported in UL	DFT-s-OFDM: π/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM					
A-MPR (Additional MPR) disabled for SAR Testing?	YES					
EN-DC Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations					
LTE Anchor Bands for NR Band n71	LTE Band 66/2/7/48					
LTE Anchor Bands for NR Band n12	LTE Band 66/2/30/48					
LTE Anchor Bands for NR Band n14	LTE Band 66/2/30					
LTE Anchor Bands for NR Band n26 (Cell)	N/A					
TE Anchor Bands for NR Band n5 (Cell)	LTE Band 66/2/30/7/48					
LTE Anchor Bands for NR Band n70	N/A					
LTE Anchor Bands for NR Band n66 (AWS)	LTE Band 71/12/13/14/5/2/30/7/48					
LTE Anchor Bands for NR Band n25 (PCS)	LTE Band 12/66/48					
LTE Anchor Bands for NR Band n2 (PCS)	LTE Band 12/13/14/5/66/48					
LTE Anchor Bands for NR Band n30	LTE Band 12/14/5/66					
LTE Anchor Bands for NR Band n7	LTE Band 12/5/66					
LTE Anchor Bands for NR Band n41	LTE Band 12/26/5/66/4/25/2					
LTE Anchor Bands for NR Band n48	LTE Band 71/13/5/66/2					
LTE Anchor Bands for NR Band n77 DoD	LTE Band 71/12/13/14/5/66/2/30/7/41					
LTE Anchor Bands for NR Band n77 C	LTE Band 71/12/13/14/5/66/2/30/7/41					

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3 INTRODUCTION

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

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

3.1 SAR Definition

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

Equation 3-1
SAR Mathematical Equation

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

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

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

where:

σ = conductivity of the tissue-simulating material (S/m)
ρ = mass density of the tissue-simulating material (kg/m^3)
E = Total RMS electric field strength (V/m)

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

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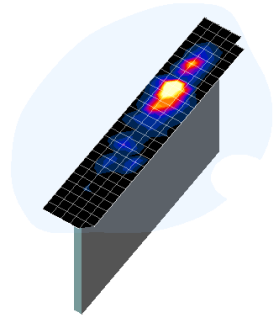
4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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



1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface, and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013.

Figure 4-1
Sample SAR Area Scan

2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):

   a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).

   b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.

   c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

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

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

*Also compliant to IEEE 1528-2013 Table 6

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5 TEST CONFIGURATION POSITIONS

5.1 Device Holder

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

5.2 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

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

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6 RF EXPOSURE LIMITS

6.1 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.

6.2 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.

6.3 RF Exposure Limits for Frequencies below 6 GHz

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

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT *General Population* (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT *Occupational* (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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6.4 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 6-2
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/cm^2 is 10 W/m^2

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7 FCC MEASUREMENT PROCEDURES

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

7.1 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.

7.2 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.

7.3 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 an 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.

7.4 SAR Measurement Conditions for UMTS

7.4.1 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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7.4.2 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.

7.4.3 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.

7.4.4 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.

7.4.5 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.

7.5 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).

7.5.1 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.

7.5.2 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.

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7.5.3 A-MPR

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

7.5.4 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 ½ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is <1.45 W/kg.

7.5.5 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.

7.5.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance with 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 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.

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7.6 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.

7.6.1 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.

7.6.2 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.

7.6.3 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.

7.6.4 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.

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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.

7.6.5 OFDM Transmission Mode and SAR Test Channel Selection

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

7.6.6 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 7.6.5). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.6.7 Subsequent Test Configuration Procedures

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

7.6.8 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D01v06 should be applied to determine simultaneous transmission SAR test exclusion for WIFI. 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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8 RF CONDUCTED POWERS

All conducted power measurements for 3G/4G/5G Sub6 WWAN technologies and bands in this section were performed by setting Reserve power margin (Qualcomm® Smart Transmit EFS entry) to 0dB, so that the EUT transmits continuously at minimum (Plimit, maximum tune up output power Pmax).

8.1 UMTS P_{limit} Conducted Powers

Table 8-1
Measured P_{limit} Antenna 1

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	19.22	**19.23**	19.16	15.80	**15.91**	15.90	14.75	**14.79**	14.71	-
6	HSDPA	Subtest 1	18.74	18.63	18.55	15.78	15.77	15.77	14.59	14.68	14.46	0
6		Subtest 2	18.75	18.64	18.57	15.79	15.76	15.75	14.58	14.69	14.47	0
6		Subtest 3	18.23	18.26	18.21	15.27	15.24	15.25	14.08	14.17	13.98	0.5
6		Subtest 4	18.24	18.25	18.22	15.29	15.25	15.26	14.09	14.19	13.99	0.5
6	HSUPA	Subtest 1	18.62	18.58	18.44	15.85	15.90	15.88	14.41	14.42	14.23	0
6		Subtest 2	16.63	16.57	16.43	13.87	13.91	13.89	12.40	12.42	12.22	2
6		Subtest 3	17.62	17.58	17.44	14.85	14.90	14.90	13.40	13.41	13.23	1
6		Subtest 4	16.61	16.56	16.44	13.86	13.90	13.88	12.42	12.44	12.24	2
6		Subtest 5	18.64	18.57	18.43	15.86	15.89	15.87	14.43	14.43	14.20	0
8	DC-HSDPA	Subtest 1	18.59	18.48	18.41	15.81	15.81	15.84	14.37	14.35	14.23	0
8		Subtest 2	18.58	18.46	18.39	15.80	15.82	15.85	14.36	14.33	14.22	0
8		Subtest 3	18.05	17.99	17.92	15.29	15.29	15.38	13.80	13.84	13.87	0.5
8		Subtest 4	18.07	18.00	17.93	15.31	15.30	15.40	13.82	13.85	13.86	0.5

Table 8-2
Measured P_{limit} Antenna 2b

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	12.80	12.78	**12.91**	12.62	**12.64**	12.60	-
6	HSDPA	Subtest 1	12.56	12.63	12.75	12.75	12.87	12.85	0
6		Subtest 2	12.53	12.60	12.74	12.76	12.87	12.91	0
6		Subtest 3	12.03	12.10	12.24	12.29	12.42	12.39	0.5
6		Subtest 4	12.02	12.10	12.24	12.31	12.43	12.39	0.5
6	HSUPA	Subtest 1	12.55	12.62	12.78	12.80	12.89	12.91	0
6		Subtest 2	10.54	10.65	10.79	10.81	10.91	10.92	2
6		Subtest 3	11.57	11.66	11.77	11.82	11.92	11.90	1
6		Subtest 4	10.55	10.63	10.78	10.80	10.93	10.92	2
6		Subtest 5	12.55	12.64	12.77	12.81	12.90	12.92	0
8	DC-HSDPA	Subtest 1	12.54	12.65	12.73	12.80	12.92	12.85	0
8		Subtest 2	12.55	12.64	12.72	12.81	12.93	12.84	0
8		Subtest 3	11.97	12.03	12.21	12.22	12.33	12.40	0.5
8		Subtest 4	12.00	12.06	12.23	12.75	12.34	12.42	0.5

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Table 8-3
Measured P_{limit} Antenna 3

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	18.60	18.59	**18.71**	16.90	16.99	**17.00**	14.95	**14.97**	14.85	-
6	HSDPA	Subtest 1	18.79	18.80	18.89	16.27	16.37	16.40	15.02	15.01	14.94	0
6		Subtest 2	18.77	18.77	18.91	16.24	16.35	16.39	15.01	15.00	14.93	0
6		Subtest 3	18.28	18.30	18.41	15.77	15.87	15.90	14.53	14.51	14.40	0.5
6		Subtest 4	18.31	18.29	18.42	15.72	15.89	15.91	14.52	14.50	14.43	0.5
6	HSUPA	Subtest 1	18.71	18.73	18.80	16.29	16.38	16.42	15.01	15.04	14.93	0
6		Subtest 2	16.72	16.74	16.82	14.30	14.42	14.45	13.04	13.06	13.02	2
6		Subtest 3	17.70	17.73	17.81	15.31	15.41	15.44	14.05	14.04	13.93	1
6		Subtest 4	16.71	16.73	16.82	14.28	14.40	14.41	13.03	13.04	13.05	2
6		Subtest 5	18.70	18.72	18.82	16.28	16.37	16.43	15.02	15.06	14.94	0
8	DC-HSDPA	Subtest 1	18.70	18.83	18.87	16.25	16.29	16.41	14.99	14.98	14.91	0
8		Subtest 2	18.73	18.82	18.86	16.23	16.28	16.37	14.98	14.99	14.92	0
8		Subtest 3	18.20	18.23	18.34	15.74	15.84	15.91	14.48	14.47	14.43	0.5
8		Subtest 4	18.25	18.23	18.35	15.73	15.85	15.93	14.47	14.44	14.42	0.5

Table 8-4
Measured P_{limit} Antenna 4b

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	12.99	**13.15**	13.00	12.69	**12.80**	12.67	-
6	HSDPA	Subtest 1	12.86	12.81	12.99	12.16	12.26	12.34	0
6		Subtest 2	12.85	12.80	12.95	12.14	12.26	12.30	0
6		Subtest 3	12.35	12.30	12.45	11.63	11.77	11.82	0.5
6		Subtest 4	12.84	12.31	12.46	11.65	11.76	11.81	0.5
6	HSUPA	Subtest 1	12.82	12.78	12.91	12.06	12.24	12.31	0
6		Subtest 2	10.84	10.77	10.93	10.08	10.24	10.29	2
6		Subtest 3	11.85	11.78	11.94	11.07	11.25	11.31	1
6		Subtest 4	10.86	10.79	10.95	10.08	10.24	10.33	2
6		Subtest 5	12.86	12.81	12.96	12.13	12.26	12.36	0
8	DC-HSDPA	Subtest 1	12.82	12.78	12.96	12.09	12.21	12.22	0
8		Subtest 2	12.80	12.76	12.95	12.06	12.20	12.21	0
8		Subtest 3	12.31	12.27	12.45	11.58	11.72	11.70	0.5
8		Subtest 4	12.28	12.24	12.46	11.59	11.71	11.71	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

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Figure 8-1
Power Measurement Setup

8.2 LTE Conducted Powers

Notes: Per FCC KDB Publication 941225 D05v02, 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 appendix LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Some bands do not support 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.

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8.2.1 LTE Band 71

Table 8-5
LTE Band 71 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **133297** **(680.5 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	**18.22**	0	0
	1	50	18.19		0
	1	99	18.17		0
	50	0	18.11	0-1	0
	50	25	**18.18**		0
	50	50	18.10		0
	100	0	18.17		0
16QAM	1	0	18.07	0-1	0
	1	50	18.33		0
	1	99	18.03		0
	50	0	18.11	0-2	0
	50	25	18.18		0
	50	50	18.07		0
	100	0	18.06		0
64QAM	1	0	18.20	0-2	0
	1	50	18.31		0
	1	99	18.21		0
	50	0	18.10	0-3	0
	50	25	18.15		0
	50	50	18.01		0
	100	0	18.06		0
256QAM	1	0	18.18	0-5	0
	1	50	18.12		0
	1	99	18.24		0
	50	0	18.10		0
	50	25	18.20		0
	50	50	18.11		0
	100	0	18.07		0

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Table 8-6
LTE Band 71 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **133297** **(680.5 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	20.23	0	0
	1	50	**20.30**		0
	1	99	20.25		0
	50	0	20.31	0-1	0
	50	25	**20.35**		0
	50	50	20.30		0
	100	0	20.29		0
16QAM	1	0	20.09	0-1	0
	1	50	20.29		0
	1	99	19.98		0
	50	0	19.95	0-2	0
	50	25	19.98		0
	50	50	19.89		0
	100	0	19.95		0
64QAM	1	0	19.99	0-2	0
	1	50	20.24		0
	1	99	19.91		0
	50	0	19.90	0-3	0
	50	25	19.97		0
	50	50	19.79		0
	100	0	19.96		0
256QAM	1	0	20.15	0-5	0
	1	50	20.08		0
	1	99	20.09		0
	50	0	19.90		0
	50	25	20.00		0
	50	50	19.88		0
	100	0	19.95		0

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8.2.2 LTE Band 12

Table 8-7
LTE Band 12 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel 23095 (707.5 MHz) Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	**19.66**	0	0
	1	25	19.60		0
	1	49	19.63		0
	25	0	19.51	0-1	0
	25	12	**19.58**		0
	25	25	19.55		0
	50	0	19.56		0
16QAM	1	0	19.87	0-1	0
	1	25	19.68		0
	1	49	19.65		0
	25	0	19.62	0-2	0
	25	12	19.70		0
	25	25	19.63		0
	50	0	19.62		0
64QAM	1	0	19.91	0-2	0
	1	25	19.85		0
	1	49	19.85		0
	25	0	19.65	0-3	0
	25	12	19.72		0
	25	25	19.67		0
	50	0	19.66		0
256QAM	1	0	18.78	0-5	0.8
	1	25	18.90		0.8
	1	49	18.77		0.8
	25	0	18.56		0.8
	25	12	18.67		0.8
	25	25	18.58		0.8
	50	0	18.63		0.8

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Table 8-8
LTE Band 12 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **23095** **(707.5 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	**19.24**	0	0
	1	25	19.18		0
	1	49	19.17		0
	25	0	19.20	0-1	0
	25	12	**19.30**		0
	25	25	19.25		0
	50	0	19.21		0
16QAM	1	0	19.22	0-1	0
	1	25	19.21		0
	1	49	19.13		0
	25	0	19.07	0-2	0
	25	12	19.16		0
	25	25	19.07		0
	50	0	19.02		0
64QAM	1	0	19.30	0-2	0
	1	25	19.38		0
	1	49	19.22		0
	25	0	19.05	0-3	0
	25	12	19.11		0
	25	25	19.10		0
	50	0	19.01		0
256QAM	1	0	19.06	0-5	0
	1	25	19.17		0
	1	49	19.09		0
	25	0	18.97		0
	25	12	19.14		0
	25	25	19.03		0
	50	0	19.01		0

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8.2.3 LTE Band 13

Table 8-9
LTE Band 13 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **23230** **(782.0 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	20.26	0	0
	1	25	**20.33**		0
	1	49	20.30		0
	25	0	20.32	0-1	0
	25	12	20.34		0
	25	25	**20.37**		0
	50	0	20.32		0
16QAM	1	0	20.35	0-1	0
	1	25	20.33		0
	1	49	20.48		0
	25	0	20.37	0-2	0
	25	12	20.34		0
	25	25	20.41		0
	50	0	20.36		0
64QAM	1	0	20.30	0-2	0
	1	25	20.40		0
	1	49	20.42		0
	25	0	20.33	0-3	0.3
	25	12	20.39		0.3
	25	25	20.43		0.3
	50	0	20.33		0.3
256QAM	1	0	18.61	0-5	2.3
	1	25	18.68		2.3
	1	49	18.60		2.3
	25	0	18.62		2.3
	25	12	18.65		2.3
	25	25	18.70		2.3
	50	0	18.66		2.3

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Table 8-10
LTE Band 13 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **23230** **(782.0 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	19.29	0	0
	1	25	**19.45**		0
	1	49	19.32		0
	25	0	19.28	0-1	0
	25	12	**19.51**		0
	25	25	19.30		0
	50	0	19.42		0
16QAM	1	0	19.35	0-1	0
	1	25	19.40		0
	1	49	19.57		0
	25	0	19.29	0-2	0
	25	12	19.37		0
	25	25	19.28		0
	50	0	19.31		0
64QAM	1	0	19.48	0-2	0
	1	25	19.52		0
	1	49	19.40		0
	25	0	19.28	0-3	0
	25	12	19.33		0
	25	25	19.29		0
	50	0	19.32		0
256QAM	1	0	19.46	0-5	0
	1	25	19.59		0
	1	49	19.48		0
	25	0	19.21		0
	25	12	19.33		0
	25	25	19.25		0
	50	0	19.30		0

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8.2.4 LTE Band 14

Table 8-11
LTE Band 14 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	19.14	0	0
	1	25	19.17		0
	1	49	**19.25**		0
	25	0	19.26	0-1	0
	25	12	**19.35**		0
	25	25	19.31		0
	50	0	19.20		0
16QAM	1	0	19.18	0-1	0
	1	25	19.30		0
	1	49	19.18		0
	25	0	19.04	0-2	0
	25	12	19.18		0
	25	25	19.13		0
	50	0	19.15		0
64QAM	1	0	19.31	0-2	0
	1	25	19.32		0
	1	49	19.39		0
	25	0	19.07	0-3	0
	25	12	19.18		0
	25	25	19.14		0
	50	0	19.13		0
256QAM	1	0	18.69	0-5	0.4
	1	25	18.74		0.4
	1	49	18.74		0.4
	25	0	18.73		0.4
	25	12	18.77		0.4
	25	25	18.69		0.4
	50	0	18.69		0.4

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Table 8-12
LTE Band 14 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel** **23330** **(793.0 MHz)** **Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	19.50	0	0
	1	25	**19.57**		0
	1	49	19.56		0
	25	0	19.54	0-1	0
	25	12	19.62		0
	25	25	**19.66**		0
	50	0	19.55		0
16QAM	1	0	19.47	0-1	0
	1	25	19.52		0
	1	49	19.61		0
	25	0	19.31	0-2	0
	25	12	19.39		0
	25	25	19.35		0
	50	0	19.36		0
64QAM	1	0	19.49	0-2	0
	1	25	19.53		0
	1	49	19.58		0
	25	0	19.26	0-3	0
	25	12	19.38		0
	25	25	19.33		0
	50	0	19.35		0
256QAM	1	0	19.50	0-5	0
	1	25	19.53		0
	1	49	19.67		0
	25	0	19.26		0
	25	12	19.40		0
	25	25	19.36		0
	50	0	19.35		0

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8.2.5 LTE Band 26

Table 8-13
LTE Band 26 (Cell) Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26740 (819.0 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 26990 (844.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	**19.11**	19.10	18.98	0	0
	1	25	19.05	19.03	18.89		0
	1	49	19.06	19.04	18.98		0
	25	0	18.97	18.96	18.92	0-1	0
	25	12	**19.06**	19.05	18.97		0
	25	25	19.03	19.02	18.93		0
	50	0	19.03	19.02	18.91		0
16QAM	1	0	19.05	19.07	19.09	0-1	0
	1	25	19.08	19.18	19.04		0
	1	49	19.07	19.07	19.09		0
	25	0	19.07	18.98	18.93	0-2	0
	25	12	19.01	19.03	18.99		0
	25	25	19.04	19.08	18.99		0
	50	0	19.06	18.97	18.93		0
64QAM	1	0	18.98	19.07	18.94	0-2	0
	1	25	19.06	18.99	18.98		0
	1	49	19.01	19.06	18.96		0
	25	0	18.82	19.00	18.95	0-3	0
	25	12	18.93	18.92	18.97		0
	25	25	19.07	19.05	19.06		0
	50	0	19.06	19.06	18.96		0
256QAM	1	0	18.67	18.83	18.70	0-5	0.4
	1	25	18.69	18.81	18.74		0.4
	1	49	18.66	18.72	18.70		0.4
	25	0	18.76	18.78	18.72		0.4
	25	12	18.89	18.88	18.76		0.4
	25	25	18.86	18.83	18.77		0.4
	50	0	18.87	18.87	18.72		0.4

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Table 8-14
LTE Band 26 (Cell) Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 26 (Cell) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26740 (819.0 MHz)	Mid Channel 26865 (831.5 MHz)	High Channel 26990 (844.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	18.83	**18.96**	18.83	0	0
	1	25	18.79	18.85	18.93		0
	1	49	18.77	18.88	18.69		0
	25	0	18.89	18.90	18.92	0-1	0
	25	12	18.96	**18.98**	18.90		0
	25	25	18.92	18.93	18.88		0
	50	0	18.93	18.94	18.87		0
16QAM	1	0	19.15	18.94	18.98	0-1	0
	1	25	19.15	18.91	18.83		0
	1	49	19.04	18.88	18.86		0
	25	0	18.96	18.94	18.88	0-2	0
	25	12	19.07	19.02	18.89		0
	25	25	19.04	18.99	18.95		0
	50	0	19.04	19.01	18.89		0
64QAM	1	0	19.06	18.97	18.97	0-2	0
	1	25	19.11	19.06	18.99		0
	1	49	18.99	18.99	18.90		0
	25	0	19.02	18.89	18.92	0-3	0
	25	12	19.09	19.05	18.95		0
	25	25	19.04	18.98	18.97		0
	50	0	19.08	19.00	18.92		0
256QAM	1	0	19.01	19.06	18.91	0-5	0
	1	25	19.08	19.13	19.04		0
	1	49	19.15	19.03	18.91		0
	25	0	18.98	18.95	18.83		0
	25	12	19.09	19.03	18.87		0
	25	25	19.04	18.96	18.93		0
	50	0	19.06	19.01	18.87		0

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8.2.6 LTE Band 5

Table 8-15
LTE Band 5 (Cell) Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	19.01	0	0
	1	25	**19.02**		0
	1	49	19.01		0
	25	0	18.95	0-1	0
	25	12	**18.99**		0
	25	25	18.98		0
	50	0	18.98		0
16QAM	1	0	19.25	0-1	0
	1	25	19.16		0
	1	49	19.15		0
	25	0	19.04	0-2	0
	25	12	19.10		0
	25	25	19.07		0
	50	0	19.07		0
64QAM	1	0	19.17	0-2	0
	1	25	19.27		0
	1	49	19.29		0
	25	0	19.03	0-3	0
	25	12	19.10		0
	25	25	19.07		0
	50	0	19.05		0
256QAM	1	0	18.75	0-5	0.4
	1	25	18.77		0.4
	1	49	18.79		0.4
	25	0	18.44		0.4
	25	12	18.50		0.4
	25	25	18.48		0.4
	50	0	18.52		0.4

Table 8-16
LTE Band 5 (Cell) Antenna 1 Uplink Carrier Aggregation Measured P_{Limit}

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	25	25	LTE B5	5	20597	843.7	2597	888.7	QPSK	12	0	18.98	18.98

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Table 8-17
LTE Band 5 (Cell) Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 20525 (836.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	**18.69**	0	0
	1	25	18.63		0
	1	49	18.64		0
	25	0	18.65	0-1	0
	25	12	**18.70**		0
	25	25	18.61		0
	50	0	18.68		0
16QAM	1	0	19.00	0-1	0
	1	25	18.97		0
	1	49	18.98		0
	25	0	18.76	0-2	0
	25	12	18.78		0
	25	25	18.76		0
	50	0	18.76		0
64QAM	1	0	18.89	0-2	0
	1	25	18.89		0
	1	49	18.86		0
	25	0	18.71	0-3	0
	25	12	18.78		0
	25	25	18.73		0
	50	0	18.74		0
256QAM	1	0	18.83	0-5	0
	1	25	18.88		0
	1	49	18.81		0
	25	0	18.66		0
	25	12	18.73		0
	25	25	18.73		0
	50	0	18.72		0

Table 8-18
LTE Band 5 (Cell) Antenna 3 Uplink Carrier Aggregation Measured P_{Limit}

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	50	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	25	0	18.63	18.68

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8.2.7 LTE Band 66

Table 8-19
LTE Band 66 (AWS) Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	16.48	**16.53**	16.28	0	0
	1	50	16.42	16.45	16.26		0
	1	99	16.46	16.44	16.15		0
	50	0	16.45	16.43	16.45	0-1	0
	50	25	16.47	**16.49**	16.42		0
	50	50	16.43	16.44	16.44		0
	100	0	16.46	16.45	16.43		0
16QAM	1	0	16.11	16.18	16.26	0-1	0
	1	50	16.18	16.17	16.42		0
	1	99	16.08	15.99	16.17		0
	50	0	15.99	15.97	15.89	0-2	0
	50	25	16.14	16.04	16.04		0
	50	50	16.12	15.99	16.00		0
	100	0	16.08	16.02	15.96		0
64QAM	1	0	16.02	16.04	16.00	0-2	0
	1	50	16.12	16.16	16.10		0
	1	99	16.19	16.08	16.00		0
	50	0	15.93	15.96	15.84	0-3	0
	50	25	16.06	16.04	15.96		0
	50	50	16.03	15.96	15.88		0
	100	0	15.96	16.01	15.85		0
256QAM	1	0	16.05	16.03	16.03	0-5	0
	1	50	16.26	16.13	15.92		0
	1	99	16.12	16.09	15.98		0
	50	0	15.93	15.96	15.84		0
	50	25	16.06	16.01	15.94		0
	50	50	15.98	15.95	15.89		0
	100	0	16.01	15.97	15.82		0

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Table 8-20
LTE Band 66 (AWS) Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.76	12.91	**13.09**	0	0
	1	50	12.80	12.90	13.08		0
	1	99	12.82	12.95	12.94		0
	50	0	12.87	12.92	12.96	0-1	0
	50	25	12.99	13.00	**13.03**		0
	50	50	12.96	12.94	12.97		0
	100	0	12.94	12.93	12.92		0
16QAM	1	0	12.91	13.01	12.80	0-1	0
	1	50	13.13	13.19	13.17		0
	1	99	13.00	13.00	12.67		0
	50	0	12.71	12.68	12.54	0-2	0
	50	25	12.74	12.65	12.55		0
	50	50	12.67	12.58	12.57		0
	100	0	12.67	12.61	12.48		0
64QAM	1	0	12.80	12.79	12.75	0-2	0
	1	50	13.00	12.87	13.03		0
	1	99	12.91	12.78	12.61		0
	50	0	12.68	12.60	12.54	0-3	0
	50	25	12.71	12.61	12.55		0
	50	50	12.67	12.54	12.56		0
	100	0	12.66	12.56	12.50		0
256QAM	1	0	12.80	12.73	12.60	0-5	0
	1	50	12.82	12.76	12.62		0
	1	99	12.76	12.73	12.72		0
	50	0	12.69	12.61	12.57		0
	50	25	12.71	12.61	12.55		0
	50	50	12.66	12.55	12.57		0
	100	0	12.66	12.59	12.53		0

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Table 8-21
LTE Band 66 (AWS) Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	16.95	16.96	16.78	0	0
	1	50	**17.00**	16.92	16.80		0
	1	99	16.93	16.90	16.71		0
	50	0	16.92	16.91	16.81	0-1	0
	50	25	**17.04**	17.00	16.85		0
	50	50	17.01	16.95	16.88		0
	100	0	16.99	16.94	16.82		0
16QAM	1	0	16.62	16.71	16.78	0-1	0
	1	50	16.96	16.96	16.98		0
	1	99	16.70	16.66	16.64		0
	50	0	16.70	16.60	16.47	0-2	0
	50	25	16.79	16.68	16.58		0
	50	50	16.77	16.63	16.56		0
	100	0	16.76	16.67	16.55		0
64QAM	1	0	16.82	16.93	16.51	0-2	0
	1	50	17.07	16.97	16.74		0
	1	99	16.84	16.78	16.53		0
	50	0	16.66	16.61	16.45	0-3	0
	50	25	16.77	16.70	16.60		0
	50	50	16.72	16.61	16.51		0
	100	0	16.71	16.64	16.52		0
256QAM	1	0	16.88	16.68	16.75	0-5	0
	1	50	16.87	16.72	16.73		0
	1	99	16.90	16.74	16.64		0
	50	0	16.62	16.59	16.49		0
	50	25	16.74	16.68	16.59		0
	50	50	16.74	16.60	16.50		0
	100	0	16.69	16.64	16.54		0

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Table 8-22
LTE Band 66 (AWS) Measured P_{Limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.88	13.07	13.03	0	0
	1	50	12.92	**13.16**	13.14		0
	1	99	12.90	13.11	12.99		0
	50	0	13.03	13.10	13.08	0-1	0
	50	25	13.13	**13.20**	13.13		0
	50	50	13.12	13.16	13.15		0
	100	0	13.09	13.15	13.08		0
16QAM	1	0	13.23	13.04	13.32	0-1	0
	1	50	13.29	13.15	13.59		0
	1	99	13.13	13.12	13.47		0
	50	0	13.19	13.11	13.18	0-2	0
	50	25	13.19	13.14	13.24		0
	50	50	13.07	13.08	13.29		0
	100	0	13.19	13.07	13.21		0
64QAM	1	0	13.24	13.09	13.43	0-2	0
	1	50	13.28	13.26	13.57		0
	1	99	13.12	13.28	13.46		0
	50	0	13.20	13.11	13.26	0-3	0
	50	25	13.20	13.13	13.24		0
	50	50	13.12	13.10	13.30		0
	100	0	13.15	13.09	13.21		0
256QAM	1	0	13.18	13.14	13.47	0-5	0
	1	50	13.22	13.15	13.63		0
	1	99	13.09	13.16	13.50		0
	50	0	13.16	13.10	13.22		0
	50	25	13.21	13.15	13.28		0
	50	50	13.12	13.12	13.30		0
	100	0	13.15	13.11	13.22		0

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8.2.8 LTE Band 25

Table 8-23
LTE Band 25 (PCS) Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.03	14.25	14.24	0	0
	1	50	14.12	**14.35**	14.20		0
	1	99	14.05	14.28	14.14		0
	50	0	14.29	14.37	14.28	0-1	0
	50	25	14.37	**14.38**	14.26		0
	50	50	14.34	14.35	14.25		0
	100	0	14.32	14.33	14.27		0
16QAM	1	0	14.12	14.18	14.04	0-1	0
	1	50	14.36	14.49	14.24		0
	1	99	14.20	14.14	14.10		0
	50	0	14.12	14.19	14.07	0-2	0
	50	25	14.22	14.22	14.09		0
	50	50	14.21	14.18	14.07		0
	100	0	14.16	14.17	14.06		0
64QAM	1	0	14.26	14.20	14.22	0-2	0
	1	50	14.39	14.29	14.44		0
	1	99	14.22	14.06	14.15		0
	50	0	14.09	14.17	14.05	0-3	0
	50	25	14.21	14.20	14.06		0
	50	50	14.18	14.16	14.01		0
	100	0	14.16	14.18	14.06		0
256QAM	1	0	14.42	14.43	14.31	0-5	0
	1	50	14.59	14.47	14.39		0
	1	99	14.57	14.35	14.19		0
	50	0	14.28	14.31	14.26		0
	50	25	14.44	14.43	14.33		0
	50	50	14.39	14.41	14.23		0
	100	0	14.39	14.44	14.28		0

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Table 8-24
LTE Band 25 (PCS) Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.58	12.45	12.60	0	0
	1	50	**12.72**	12.53	12.68		0
	1	99	12.59	12.46	12.62		0
	50	0	12.63	12.68	12.63	0-1	0
	50	25	**12.73**	12.69	12.66		0
	50	50	12.72	12.71	12.69		0
	100	0	12.65	12.62	12.61		0
16QAM	1	0	12.62	12.85	12.70	0-1	0
	1	50	12.75	12.94	12.74		0
	1	99	12.74	12.77	12.66		0
	50	0	12.67	12.68	12.55	0-2	0
	50	25	12.76	12.67	12.63		0
	50	50	12.73	12.72	12.62		0
	100	0	12.72	12.61	12.59		0
64QAM	1	0	12.75	12.78	12.85	0-2	0
	1	50	13.04	13.08	12.93		0
	1	99	12.80	12.70	12.77		0
	50	0	12.66	12.64	12.54	0-3	0
	50	25	12.77	12.63	12.65		0
	50	50	12.74	12.68	12.61		0
	100	0	12.72	12.57	12.59		0
256QAM	1	0	12.63	12.80	12.68	0-5	0
	1	50	12.67	12.88	12.74		0
	1	99	12.84	12.91	12.75		0
	50	0	12.62	12.61	12.49		0
	50	25	12.74	12.65	12.61		0
	50	50	12.72	12.68	12.55		0
	100	0	12.69	12.58	12.60		0

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Table 8-25
LTE Band 25 (PCS) Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	14.70	14.68	14.40	0	0
	1	50	14.72	14.72	14.42		0
	1	99	**14.77**	14.62	14.31		0
	50	0	14.74	14.73	14.61	0-1	0
	50	25	**14.82**	14.71	14.60		0
	50	50	14.80	14.75	14.64		0
	100	0	14.73	14.68	14.59		0
16QAM	1	0	14.34	14.44	14.51	0-1	0
	1	50	14.78	14.91	14.80		0
	1	99	14.44	14.51	14.56		0
	50	0	14.47	14.44	14.30	0-2	0
	50	25	14.57	14.39	14.41		0
	50	50	14.53	14.43	14.37		0
	100	0	14.53	14.37	14.35		0
64QAM	1	0	14.61	14.71	14.44	0-2	0
	1	50	14.80	14.94	14.80		0
	1	99	14.51	14.44	14.45		0
	50	0	14.43	14.39	14.30	0-3	0
	50	25	14.51	14.39	14.39		0
	50	50	14.50	14.43	14.33		0
	100	0	14.47	14.36	14.35		0
256QAM	1	0	14.51	14.49	14.38	0-5	0
	1	50	14.67	14.59	14.46		0
	1	99	14.70	14.47	14.47		0
	50	0	14.41	14.36	14.24		0
	50	25	14.55	14.37	14.37		0
	50	50	14.50	14.41	14.34		0
	100	0	14.51	14.35	14.35		0

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Table 8-26
LTE Band 25 (PCS) Measured P_{Limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	12.48	12.59	12.70	0	0
	1	50	12.60	**12.72**	12.71		0
	1	99	12.62	12.68	12.63		0
	50	0	12.58	12.70	12.76	0-1	0
	50	25	12.63	12.69	12.77		0
	50	50	12.69	**12.78**	12.73		0
	100	0	12.62	12.66	12.71		0
16QAM	1	0	12.26	12.27	12.72	0-1	0
	1	50	12.58	12.56	12.76		0
	1	99	12.39	12.47	12.72		0
	50	0	12.38	12.40	12.38	0-2	0
	50	25	12.47	12.52	12.41		0
	50	50	12.46	12.47	12.44		0
	100	0	12.44	12.47	12.39		0
64QAM	1	0	12.35	12.53	12.51	0-2	0
	1	50	12.59	12.62	12.57		0
	1	99	12.43	12.57	12.41		0
	50	0	12.35	12.33	12.37	0-3	0
	50	25	12.43	12.46	12.36		0
	50	50	12.39	12.44	12.41		0
	100	0	12.38	12.40	12.34		0
256QAM	1	0	12.38	12.30	12.42	0-5	0
	1	50	12.59	12.50	12.48		0
	1	99	12.62	12.44	12.38		0
	50	0	12.29	12.31	12.33		0
	50	25	12.42	12.45	12.35		0
	50	50	12.40	12.44	12.41		0
	100	0	12.38	12.43	12.30		0

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8.2.9 LTE Band 30

Table 8-27
LTE Band 30 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	14.35	0	0
	1	25	**14.41**		0
	1	49	14.31		0
	25	0	14.31	0-1	0
	25	12	**14.33**		0
	25	25	14.28		0
	50	0	14.27		0
16QAM	1	0	14.17	0-1	0
	1	25	14.34		0
	1	49	14.25		0
	25	0	14.09	0-2	0
	25	12	14.02		0
	25	25	14.10		0
	50	0	14.10		0
64QAM	1	0	14.38	0-2	0
	1	25	14.33		0
	1	49	14.24		0
	25	0	14.07	0-3	0
	25	12	14.11		0
	25	25	14.06		0
	50	0	14.07		0
256QAM	1	0	14.20	0-5	0
	1	25	14.24		0
	1	49	14.13		0
	25	0	14.09		0
	25	12	14.10		0
	25	25	14.08		0
	50	0	14.05		0

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Table 8-28
LTE Band 30 Measured P_{Limit} Antenna 2b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	**12.04**	0	0
	1	25	12.02		0
	1	49	12.01		0
	25	0	12.03	0-1	0
	25	12	**12.05**		0
	25	25	12.02		0
	50	0	12.03		0
16QAM	1	0	12.05	0-1	0
	1	25	12.08		0
	1	49	12.03		0
	25	0	11.90	0-2	0
	25	12	11.95		0
	25	25	11.86		0
	50	0	11.92		0
64QAM	1	0	12.26	0-2	0
	1	25	12.05		0
	1	49	12.10		0
	25	0	11.97	0-3	0
	25	12	11.98		0
	25	25	11.83		0
	50	0	11.94		0
256QAM	1	0	12.05	0-5	0
	1	25	12.15		0
	1	49	11.87		0
	25	0	11.92		0
	25	12	11.97		0
	25	25	11.82		0
	50	0	11.94		0

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Table 8-29
LTE Band 30 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	13.88	0	0
	1	25	**13.96**		0
	1	49	13.94		0
	25	0	13.92	0-1	0
	25	12	**14.05**		0
	25	25	14.02		0
	50	0	13.95		0
16QAM	1	0	14.02	0-1	0
	1	25	14.06		0
	1	49	13.93		0
	25	0	13.79	0-2	0
	25	12	13.81		0
	25	25	13.82		0
	50	0	13.78		0
64QAM	1	0	14.09	0-2	0
	1	25	14.06		0
	1	49	14.00		0
	25	0	13.77	0-3	0
	25	12	13.82		0
	25	25	13.78		0
	50	0	13.80		0
256QAM	1	0	13.79	0-5	0
	1	25	14.03		0
	1	49	13.80		0
	25	0	13.78		0
	25	12	13.79		0
	25	25	13.76		0
	50	0	13.81		0

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Table 8-30
LTE Band 30 Measured P_{Limit} Antenna 4b - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	**RB Size**	**RB Offset**	**Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]**	**MPR Allowed per 3GPP [dB]**	**MPR [dB]**
QPSK	1	0	11.40	0	0
	1	25	**11.49**		0
	1	49	11.34		0
	25	0	11.43	0-1	0
	25	12	**11.54**		0
	25	25	11.50		0
	50	0	11.45		0
16QAM	1	0	11.69	0-1	0
	1	25	11.77		0
	1	49	11.82		0
	25	0	11.68	0-2	0
	25	12	11.78		0
	25	25	11.76		0
	50	0	11.73		0
64QAM	1	0	11.84	0-2	0
	1	25	11.82		0
	1	49	11.89		0
	25	0	11.61	0-3	0
	25	12	11.74		0
	25	25	11.72		0
	50	0	11.73		0
256QAM	1	0	11.66	0-5	0
	1	25	11.78		0
	1	49	11.68		0
	25	0	11.55		0
	25	12	11.66		0
	25	25	11.61		0
	50	0	11.52		0

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8.2.10 LTE Band 7

Table 8-31
LTE Band 7 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.23	13.40	13.38	0	0
	1	50	13.50	**13.51**	13.43		0
	1	99	13.25	13.39	13.32		0
	50	0	13.48	**13.54**	13.49	0-1	0
	50	25	13.46	13.52	13.48		0
	50	50	13.45	13.45	13.42		0
	100	0	13.43	13.44	13.43		0
16QAM	1	0	13.50	13.43	13.35	0-1	0
	1	50	13.35	13.50	13.34		0
	1	99	13.52	13.34	13.24		0
	50	0	13.37	13.29	13.18	0-2	0
	50	25	13.40	13.23	13.17		0
	50	50	13.32	13.21	13.10		0
	100	0	13.29	13.24	13.15		0
64QAM	1	0	13.46	13.38	13.18	0-2	0
	1	50	13.57	13.41	13.35		0
	1	99	13.54	13.41	13.31		0
	50	0	13.41	13.28	13.18	0-3	0
	50	25	13.41	13.25	13.16		0
	50	50	13.30	13.20	13.10		0
	100	0	13.31	13.22	13.14		0
256QAM	1	0	13.53	13.27	13.20	0-5	0
	1	50	13.59	13.50	13.37		0
	1	99	13.39	13.44	13.28		0
	50	0	13.41	13.25	13.18		0
	50	25	13.39	13.27	13.19		0
	50	50	13.32	13.20	13.11		0
	100	0	13.30	13.25	13.15		0

Table 8-32
LTE Band 7 Antenna 1 Uplink Carrier Aggregation Measured P_{Limit}

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	20850	2510.0	2850	2630.0	QPSK	1	99	LTE B7	20	21048	2529.8	3048	2649.8	QPSK	1	0	13.20	13.25

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Table 8-33
LTE Band 7 Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
QPSK	1	0	11.58	11.80	11.45	0	0
	1	50	11.66	**11.91**	11.49		0
	1	99	11.60	11.74	11.34		0
	50	0	11.69	11.70	11.58	0-1	0
	50	25	11.68	**11.76**	11.59		0
	50	50	11.67	11.67	11.48		0
	100	0	11.71	11.65	11.55		0
16QAM	1	0	11.80	11.73	11.68	0-1	0
	1	50	11.74	11.83	11.76		0
	1	99	11.64	11.56	11.52		0
	50	0	11.66	11.60	11.46	0-2	0
	50	25	11.63	11.52	11.42		0
	50	50	11.53	11.46	11.35		0
	100	0	11.53	11.50	11.41		0
64QAM	1	0	11.70	11.69	11.56	0-2	0
	1	50	11.80	11.63	11.56		0
	1	99	11.59	11.55	11.47		0
	50	0	11.66	11.58	11.47	0-3	0
	50	25	11.77	11.54	11.41		0
	50	50	11.55	11.44	11.32		0
	100	0	11.56	11.52	11.38		0
256QAM	1	0	11.73	11.75	11.54	0-5	0
	1	50	11.66	11.65	11.55		0
	1	99	11.60	11.65	11.48		0
	50	0	11.63	11.52	11.39		0
	50	25	11.65	11.52	11.43		0
	50	50	11.54	11.46	11.34		0
	100	0	11.54	11.51	11.40		0

Table 8-34
LTE Band 7 Antenna 2b Uplink Carrier Aggregation Measured P_{Limit}

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	1	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	1	99	11.78	11.45

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Table 8-35
LTE Band 7 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	13.44	13.34	13.29	0	0
	1	50	13.49	**13.50**	13.41		0
	1	99	13.39	13.32	13.31		0
	50	0	13.50	13.51	13.43	0-1	0
	50	25	13.48	**13.78**	13.47		0
	50	50	13.45	13.41	13.36		0
	100	0	13.46	13.49	13.43		0
16QAM	1	0	13.57	13.43	13.53	0-1	0
	1	50	13.56	13.54	13.66		0
	1	99	13.55	13.52	13.52		0
	50	0	13.42	13.45	13.36	0-2	0
	50	25	13.40	13.46	13.40		0
	50	50	13.37	13.40	13.27		0
	100	0	13.39	13.41	13.34		0
64QAM	1	0	13.54	13.52	13.33	0-2	0
	1	50	13.75	13.65	13.61		0
	1	99	13.50	13.53	13.24		0
	50	0	13.43	13.41	13.30	0-3	0
	50	25	13.36	13.44	13.32		0
	50	50	13.37	13.33	13.23		0
	100	0	13.36	13.36	13.34		0
256QAM	1	0	13.54	13.52	13.38	0-5	0
	1	50	13.49	13.54	13.53		0
	1	99	13.52	13.47	13.47		0
	50	0	13.48	13.41	13.35		0
	50	25	13.42	13.44	13.36		0
	50	50	13.42	13.34	13.25		0
	100	0	13.39	13.38	13.33		0

Table 8-36
LTE Band 7 Antenna 3 Uplink Carrier Aggregation Measured P_{Limit}

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	50	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	50	50	13.10	13.43

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Table 8-37
LTE Band 7 Measured P_{Limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]				
QPSK	1	0	11.01	10.97	11.04	0	0
	1	50	10.97	10.99	**11.11**		0
	1	99	11.02	11.02	11.01		0
	50	0	11.06	11.11	**11.12**	0-1	0
	50	25	11.03	11.08	11.10		0
	50	50	11.02	11.03	11.06		0
	100	0	11.04	11.02	11.10		0
16QAM	1	0	11.18	11.17	11.34	0-1	0
	1	50	11.27	11.39	11.42		0
	1	99	11.13	11.14	11.31		0
	50	0	11.24	11.18	11.14	0-2	0
	50	25	11.19	11.21	11.13		0
	50	50	11.19	11.12	11.04		0
	100	0	11.13	11.08	11.10		0
64QAM	1	0	11.09	11.13	11.30	0-2	0
	1	50	11.21	11.29	11.44		0
	1	99	11.13	11.03	11.32		0
	50	0	11.21	11.18	11.13	0-3	0
	50	25	11.16	11.21	11.15		0
	50	50	11.11	11.13	11.06		0
	100	0	11.16	11.09	11.10		0
256QAM	1	0	11.20	11.10	11.31	0-5	0
	1	50	11.28	11.27	11.40		0
	1	99	11.16	11.03	11.36		0
	50	0	11.24	11.18	11.12		0
	50	25	11.22	11.22	11.15		0
	50	50	11.16	11.13	11.05		0
	100	0	11.16	11.11	11.12		0

Table 8-38
LTE Band 7 Antenna 4b Uplink Carrier Aggregation Measured P_{Limit}

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_7C	LTE B7	20	21350	2560.0	3350	2680.0	QPSK	50	0	LTE B7	20	21152	2540.2	3152	2660.2	QPSK	50	50	11.08	11.12

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8.2.11 LTE Band 41

Table 8-39
LTE Band 41 PC3 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]						
QPSK	1	0	13.94	14.12	14.04	14.05	14.07	0	0
	1	50	14.07	14.08	14.00	13.99	14.05		0
	1	99	13.99	14.06	14.10	14.11	**14.16**		0
	50	0	14.11	14.18	14.13	14.06	14.14	0-1	0
	50	25	14.07	14.16	14.16	14.13	**14.19**		0
	50	50	14.09	14.17	14.09	14.06	14.12		0
	100	0	14.05	14.13	14.14	14.11	14.15		0
16QAM	1	0	14.08	14.36	14.27	14.09	14.29	0-1	0
	1	50	14.39	14.45	14.47	14.37	14.45		0
	1	99	14.15	14.40	14.26	14.09	14.40		0
	50	0	14.34	14.32	14.24	14.14	14.14	0-2	0
	50	25	14.26	14.35	14.29	14.22	14.23		0
	50	50	14.27	14.23	14.19	14.14	14.14		0
	100	0	14.20	14.31	14.27	14.18	14.19		0
64QAM	1	0	14.14	14.12	14.06	14.02	14.09	0-2	0
	1	50	14.30	14.24	14.04	14.14	14.22		0
	1	99	14.08	14.12	14.01	14.14	14.24		0
	50	0	14.30	14.31	14.23	14.15	14.18	0-3	0
	50	25	14.24	14.33	14.29	14.23	14.23		0
	50	50	14.22	14.26	14.20	14.12	14.15		0
	100	0	14.22	14.34	14.27	14.18	14.20		0
256QAM	1	0	14.28	14.20	14.01	14.20	14.18	0-5	0
	1	50	14.34	14.20	14.03	14.14	14.28		0
	1	99	14.17	14.16	14.03	14.14	14.26		0
	50	0	14.28	14.30	14.24	14.19	14.19		0
	50	25	14.26	14.36	14.27	14.23	14.25		0
	50	50	14.26	14.23	14.17	14.19	14.16		0
	100	0	14.20	14.27	14.25	14.21	14.20		0

Table 8-40
LTE Band 41 PC3 Antenna 1 Uplink Carrier Aggregation Measured P_{Limit}

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40620	2593.0	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	13.95	14.10

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Table 8-41
LTE Band 41 PC2 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]						
QPSK	1	0	15.41	15.57	15.57	15.41	15.50	0	0
	1	50	15.52	15.64	15.63	15.51	15.60		0
	1	99	15.47	15.56	15.66	15.54	15.69		0
	50	0	15.64	15.63	15.55	15.59	15.60	0-1	0
	50	25	15.60	15.64	15.67	15.60	15.68		0
	50	50	15.62	15.54	15.55	15.58	15.58		0
	100	0	15.62	15.63	15.60	15.61	15.64		0

Table 8-42
LTE Band 41 PC2 Antenna 1 Uplink Carrier Aggregation Measured P_{Limit}

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40620	2593.0	QPSK	1	99	LTE B41 PC2	20	40818	2612.8	QPSK	1	0	15.70	15.66

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Table 8-43
LTE Band 41 PC3 Antenna 2b - 20 MHz Bandwidth Measured P_{Limit}

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]						
QPSK	1	0	13.61	13.66	13.71	13.70	13.87	0	0
	1	50	13.68	13.77	13.78	13.71	13.84		0
	1	99	13.69	13.74	13.75	13.78	**13.95**		0
	50	0	13.82	13.88	13.77	13.82	13.90	0-1	0
	50	25	13.74	13.82	13.81	13.83	**13.97**		0
	50	50	13.76	13.82	13.76	13.77	13.93		0
	100	0	13.74	13.80	13.77	13.82	13.94		0
16QAM	1	0	13.35	13.62	13.53	13.50	13.58	0-1	0
	1	50	13.49	13.70	13.55	13.52	13.66		0
	1	99	13.55	13.57	13.56	13.61	13.68		0
	50	0	13.50	13.72	13.56	13.56	13.60	0-2	0
	50	25	13.74	13.65	13.60	13.61	13.66		0
	50	50	13.66	13.60	13.58	13.55	13.59		0
	100	0	13.71	13.61	13.58	13.62	13.64		0
64QAM	1	0	13.59	13.56	13.60	13.61	13.59	0-2	0
	1	50	13.58	13.61	13.61	13.62	13.66		0
	1	99	13.64	13.59	13.59	13.63	13.65		0
	50	0	13.63	13.62	13.61	13.58	13.57	0-3	0
	50	25	13.62	13.64	13.64	13.60	13.67		0
	50	50	13.58	13.62	13.66	13.56	13.57		0
	100	0	13.63	13.69	13.71	13.65	13.64		0
256QAM	1	0	13.66	13.61	13.60	13.56	13.55	0-5	0
	1	50	13.74	13.58	13.59	13.60	13.56		0
	1	99	13.71	13.59	13.58	13.61	13.59		0
	50	0	13.70	13.60	13.61	13.58	13.61		0
	50	25	13.69	13.62	13.63	13.64	13.60		0
	50	50	13.73	13.58	13.62	13.63	13.58		0
	100	0	13.75	13.66	13.64	13.65	13.62		0

Table 8-44
LTE Band 41 PC3 Antenna 2b Uplink Carrier Aggregation Measured P_{Limit}

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	40620	2593.0	QPSK	50	0	LTE B41	20	40422	2573.2	QPSK	50	50	13.63	13.77

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Table 8-45
LTE Band 41 PC2 Antenna 2b - 20 MHz Bandwidth Measured P_{Limit}

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]						
QPSK	1	0	15.24	15.22	15.09	14.98	15.15	0	0
	1	50	15.28	15.31	15.12	15.07	15.22		0
	1	99	15.26	15.19	15.08	15.04	15.20		0
	50	0	15.30	15.37	15.11	15.09	15.14	0-1	0
	50	25	15.33	15.19	15.17	15.12	15.22		0
	50	50	15.32	15.14	15.03	15.06	15.13		0
	100	0	15.29	15.19	15.12	15.11	15.30		0

Table 8-46
LTE Band 41 PC2 Antenna 2b Uplink Carrier Aggregation Measured P_{Limit}

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	40620	2593.0	QPSK	50	0	LTE B41 PC2	20	40422	2573.2	QPSK	50	50	15.11	15.11

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Table 8-47
LTE Band 41 PC3 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]						
QPSK	1	0	13.27	13.21	13.26	**13.35**	13.28	0	0
	1	50	13.24	13.14	13.22	13.23	13.21		0
	1	99	13.25	13.13	13.24	13.25	13.27		0
	50	0	13.32	13.35	13.35	**13.37**	13.36	0-1	0
	50	25	13.25	13.27	13.33	13.31	13.35		0
	50	50	13.26	13.28	13.28	13.29	13.30		0
	100	0	13.24	13.25	13.32	13.34	13.31		0
16QAM	1	0	13.10	13.12	13.10	13.00	13.00	0-1	0
	1	50	13.29	13.20	13.34	13.16	13.12		0
	1	99	13.18	13.09	13.21	13.16	13.06		0
	50	0	13.23	13.16	13.13	13.01	13.02	0-2	0
	50	25	13.19	13.11	13.22	13.13	13.11		0
	50	50	13.17	13.16	13.11	13.07	13.02		0
	100	0	13.12	13.09	13.15	13.08	13.04		0
64QAM	1	0	13.10	13.00	13.00	12.87	12.83	0-2	0
	1	50	13.29	13.17	12.99	13.09	13.21		0
	1	99	13.18	12.99	13.07	13.05	13.11		0
	50	0	13.25	13.15	13.10	13.01	13.01	0-3	0
	50	25	13.20	13.12	13.20	13.06	13.11		0
	50	50	13.17	13.11	13.08	13.01	13.01		0
	100	0	13.14	13.07	13.14	13.03	13.08		0
256QAM	1	0	13.24	13.14	12.97	12.94	12.93	0-5	0
	1	50	13.33	13.17	13.03	13.05	13.03		0
	1	99	13.25	13.07	13.06	13.04	13.03		0
	50	0	13.29	13.14	13.07	13.05	13.08		0
	50	25	13.28	13.22	13.14	13.14	13.16		0
	50	50	13.19	13.12	13.04	13.01	13.08		0
	100	0	13.18	13.16	13.11	13.06	13.11		0

Table 8-48
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	13.33	13.28

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Table 8-49
LTE Band 41 PC2 Antenna 3 - 20 MHz Bandwidth Measured P_{Limit}

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]						
QPSK	1	0	14.88	14.73	14.61	14.76	14.63	0	0
	1	50	14.89	14.75	14.63	14.79	14.59		0
	1	99	14.84	14.66	14.74	14.85	14.71		0
	50	0	14.90	14.82	14.68	14.73	14.76	0-1	0
	50	25	14.84	14.83	14.73	14.77	14.81		0
	50	50	14.85	14.75	14.69	14.75	14.74		0
	100	0	14.81	14.79	14.72	14.76	14.78		0

Table 8-50
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	41490	2680.0	QPSK	1	0	LTE B41 PC2	20	41292	2660.2	QPSK	1	99	14.62	14.63

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Table 8-51
LTE Band 41 PC3 Measured P_{Limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]						
QPSK	1	0	12.17	12.14	12.22	12.06	12.21	0	0
	1	50	12.23	12.17	12.25	12.02	12.26		0
	1	99	12.25	12.21	12.26	12.09	**12.40**		0
	50	0	12.29	12.25	12.34	12.11	12.33	0-1	0
	50	25	12.32	12.30	12.35	12.16	**12.42**		0
	50	50	12.19	12.28	12.27	12.08	12.37		0
	100	0	12.29	12.22	12.33	12.15	12.39		0
16QAM	1	0	12.24	12.24	12.32	12.27	12.27	0-1	0
	1	50	12.41	12.42	12.40	12.25	12.27		0
	1	99	12.24	12.38	12.47	12.34	12.43		0
	50	0	12.41	12.36	12.49	12.31	12.32	0-2	0
	50	25	12.35	12.31	12.54	12.38	12.40		0
	50	50	12.31	12.32	12.45	12.31	12.35		0
	100	0	12.34	12.30	12.42	12.34	12.37		0
64QAM	1	0	12.24	12.08	12.41	12.26	12.07	0-2	0
	1	50	12.67	12.16	12.38	12.35	12.25		0
	1	99	12.31	12.02	12.44	12.36	12.44		0
	50	0	12.41	12.32	12.41	12.33	12.29	0-3	0
	50	25	12.37	12.27	12.51	12.37	12.37		0
	50	50	12.33	12.31	12.43	12.27	12.33		0
	100	0	12.31	12.26	12.43	12.32	12.36		0
256QAM	1	0	12.24	12.33	12.46	12.27	12.08	0-5	0
	1	50	12.35	12.25	12.40	12.35	12.20		0
	1	99	12.33	12.20	12.48	12.18	12.28		0
	50	0	12.35	12.30	12.43	12.31	12.30		0
	50	25	12.28	12.28	12.49	12.37	12.40		0
	50	50	12.27	12.27	12.42	12.27	12.34		0
	100	0	12.28	12.26	12.42	12.31	12.36		0

Table 8-52
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4b

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	41055	2636.5	QPSK	1	99	LTE B41	20	41253	2656.3	QPSK	1	0	12.22	12.09

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Table 8-53
LTE Band 41 PC2 Measured P_{Limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]						
QPSK	1	0	13.87	13.82	13.88	13.84	13.76	0	0
	1	50	13.88	13.89	13.91	13.87	13.95		0
	1	99	13.89	13.96	13.97	13.85	13.99		0
	50	0	13.86	13.96	14.00	13.82	13.91	0-1	0
	50	25	13.95	14.02	14.05	13.89	14.10		0
	50	50	13.88	13.89	13.99	13.80	13.94		0
	100	0	13.84	13.97	13.96	13.83	13.98		0

Table 8-54
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4b

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	41055	2636.5	QPSK	1	99	LTE B41 PC2	20	41253	2656.3	QPSK	1	0	14.15	13.85

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8.2.12 LTE Band 48

Table 8-55
LTE Band 48 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55340 (3560.0 MHz)	Low-Mid Channel 55773 (3603.3 MHz)	Mid-High Channel 56207 (3646.7 MHz)	High Channel 56640 (3690.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	13.38	13.46	13.51	13.45	0	0
	1	50	13.55	13.61	**13.67**	13.56		0
	1	99	13.49	13.53	13.58	13.39		0
	50	0	13.50	13.57	13.63	13.56	0-1	0
	50	25	13.63	13.70	**13.71**	13.61		0
	50	50	13.61	13.68	13.67	13.54		0
	100	0	13.64	13.65	13.66	13.55		0
16QAM	1	0	13.11	13.27	13.46	13.30	0-1	0
	1	50	13.35	13.36	13.50	13.27		0
	1	99	13.26	13.27	13.32	13.10		0
	50	0	13.16	13.30	13.40	13.31	0-2	0
	50	25	13.31	13.43	13.41	13.31		0
	50	50	13.32	13.41	13.37	13.28		0
	100	0	13.27	13.39	13.40	13.30		0
64QAM	1	0	13.00	13.18	13.29	13.24	0-2	0
	1	50	13.24	13.35	13.38	13.31		0
	1	99	13.18	13.12	13.22	13.15		0
	50	0	13.15	13.25	13.38	13.29	0-3	0
	50	25	13.31	13.43	13.42	13.30		0
	50	50	13.29	13.40	13.34	13.25		0
	100	0	13.24	13.37	13.35	13.26		0
256QAM	1	0	13.05	13.19	13.20	13.23	0-5	0
	1	50	13.12	13.32	13.29	13.25		0
	1	99	13.21	13.39	13.32	13.14		0
	50	0	13.16	13.32	13.38	13.28		0
	50	25	13.29	13.45	13.44	13.34		0
	50	50	13.27	13.39	13.36	13.27		0
	100	0	13.26	13.38	13.36	13.32		0

Table 8-56
LTE Band 48 Antenna 1 Uplink Carrier Aggregation Measured P_{Limit}

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56640	3690.0	QPSK	50	0	LTE B48	20	56442	3670.2	QPSK	50	50	13.58	13.56

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Table 8-57
LTE Band 48 Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55340 (3560.0 MHz)	Low-Mid Channel 55773 (3603.3 MHz)	Mid-High Channel 56207 (3646.7 MHz)	High Channel 56640 (3690.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	14.45	14.45	14.48	14.78	0	0
	1	50	14.58	14.59	14.68	**14.91**		0
	1	99	14.51	14.58	14.57	14.79		0
	50	0	14.55	14.54	14.56	14.73	0-1	0
	50	25	14.61	14.63	14.60	**14.92**		0
	50	50	14.60	14.61	14.65	14.75		0
	100	0	14.57	14.58	14.60	14.90		0
16QAM	1	0	14.39	14.50	14.48	14.47	0-1	0
	1	50	14.46	14.58	14.36	14.51		0
	1	99	14.37	14.47	14.41	14.40		0
	50	0	14.46	14.46	14.43	14.47	0-2	0
	50	25	14.48	14.49	14.53	14.53		0
	50	50	14.46	14.47	14.50	14.51		0
	100	0	14.48	14.48	14.50	14.53		0
64QAM	1	0	14.29	14.44	14.50	14.45	0-2	0
	1	50	14.57	14.52	14.40	14.39		0
	1	99	14.36	14.47	14.38	14.30		0
	50	0	14.49	14.48	14.43	14.64	0-3	0
	50	25	14.51	14.51	14.51	14.56		0
	50	50	14.51	14.49	14.52	14.51		0
	100	0	14.48	14.50	14.56	14.52		0
256QAM	1	0	14.44	14.63	14.34	14.44	0-5	0
	1	50	14.34	14.54	14.37	14.42		0
	1	99	14.45	14.58	14.45	14.46		0
	50	0	14.49	14.50	14.46	14.46		0
	50	25	14.54	14.52	14.54	14.54		0
	50	50	14.51	14.48	14.50	14.50		0
	100	0	14.50	14.50	14.51	14.51		0

Table 8-58
LTE Band 48 Antenna 2b Uplink Carrier Aggregation Measured P_{Limit}

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56640	3690.0	QPSK	50	0	LTE B48	20	56442	3670.2	QPSK	50	50	14.75	14.73

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Table 8-59
LTE Band 48 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55340 (3560.0 MHz)	Low-Mid Channel 55773 (3603.3 MHz)	Mid-High Channel 56207 (3646.7 MHz)	High Channel 56640 (3690.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	11.36	11.25	11.35	11.39	0	0
	1	50	11.42	11.39	**11.47**	11.41		0
	1	99	11.33	11.30	11.41	11.31		0
	50	0	11.50	11.48	11.45	11.41	0-1	0
	50	25	11.52	11.49	**11.58**	11.51		0
	50	50	11.51	11.51	11.57	11.45		0
	100	0	11.41	11.40	11.42	11.43		0
16QAM	1	0	11.18	11.27	11.49	11.37	0-1	0
	1	50	11.41	11.30	11.54	11.33		0
	1	99	11.26	11.32	11.50	11.30		0
	50	0	11.29	11.40	11.53	11.45	0-2	0
	50	25	11.33	11.43	11.54	11.45		0
	50	50	11.32	11.43	11.52	11.40		0
	100	0	11.30	11.40	11.53	11.42		0
64QAM	1	0	11.03	11.21	11.34	11.26	0-2	0
	1	50	11.21	11.39	11.45	11.32		0
	1	99	11.12	11.28	11.38	11.19		0
	50	0	11.35	11.42	11.51	11.40	0-3	0
	50	25	11.35	11.45	11.52	11.42		0
	50	50	11.32	11.45	11.51	11.37		0
	100	0	11.31	11.43	11.48	11.39		0
256QAM	1	0	11.12	11.28	11.51	11.29	0-5	0
	1	50	11.14	11.40	11.46	11.25		0
	1	99	11.21	11.43	11.50	11.24		0
	50	0	11.32	11.40	11.50	11.39		0
	50	25	11.32	11.48	11.50	11.43		0
	50	50	11.32	11.47	11.48	11.39		0
	100	0	11.31	11.45	11.49	11.40		0

Table 8-60
LTE Band 48 Antenna 3 Uplink Carrier Aggregation Measured P_{Limit}

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56207	3646.7	QPSK	1	0	LTE B48	20	56009	3626.9	QPSK	1	99	11.18	11.35

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Table 8-61
LTE Band 48 Measured P_{Limit} Antenna 4b - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 55340 (3560.0 MHz)	Low-Mid Channel 55773 (3603.3 MHz)	Mid-High Channel 56207 (3646.7 MHz)	High Channel 56640 (3690.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]					
QPSK	1	0	11.63	11.66	11.72	11.70	0	0
	1	50	11.73	11.77	**11.87**	11.75		0
	1	99	11.66	11.73	11.75	11.64		0
	50	0	11.70	11.76	11.92	11.83	0-1	0
	50	25	11.84	11.87	**11.95**	11.88		0
	50	50	11.81	11.86	11.94	11.82		0
	100	0	11.79	11.85	11.86	11.82		0
16QAM	1	0	10.95	11.16	11.08	11.16	0-1	0
	1	50	11.33	11.21	11.26	11.42		0
	1	99	11.21	10.98	11.29	11.38		0
	50	0	11.12	11.16	11.07	11.36	0-2	0
	50	25	11.31	11.27	11.13	11.41		0
	50	50	11.29	11.22	11.20	11.39		0
	100	0	11.26	11.23	11.10	11.36		0
64QAM	1	0	11.05	11.29	11.08	11.41	0-2	0
	1	50	11.24	11.25	11.34	11.57		0
	1	99	11.45	11.17	11.34	11.50		0
	50	0	11.36	11.39	11.27	11.55	0-3	0
	50	25	11.54	11.49	11.36	11.65		0
	50	50	11.52	11.44	11.40	11.63		0
	100	0	11.50	11.42	11.27	11.60		0
256QAM	1	0	11.31	11.30	11.17	11.56	0-5	0
	1	50	11.49	11.38	11.25	11.52		0
	1	99	11.59	11.36	11.26	11.55		0
	50	0	11.36	11.37	11.31	11.60		0
	50	25	11.53	11.48	11.36	11.66		0
	50	50	11.55	11.42	11.44	11.65		0
	100	0	11.48	11.46	11.33	11.61		0

Table 8-62
LTE Band 48 Antenna 4b Uplink Carrier Aggregation Measured P_{Limit}

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56640	3690.0	QPSK	1	0	LTE B48	20	56442	3670.2	QPSK	1	99	11.89	11.70

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Notes:

1. This device supports uplink carrier aggregation for LTE CA_7C, LTE CA_5B, LTE CA_41C and LTE CA_48C with a maximum of two component carriers. For intra-band contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.
2. Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.

Figure 8-2
Power Measurement Setup

8.3 NR Plimit Conducted Powers

Notes: 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.

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.

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8.3.1 NR Band n71

Table 8-63
NR Band n71 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**18.22**	0	0.0
	1	53	18.20		0.0
	1	104	18.11		0.0
	50	0	18.19	0-1	0.0
	50	28	**18.21**	0	0.0
	50	56	18.12	0-1	0.0
	100	0	18.20		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

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Table 8-64
NR Band n71 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.32	0	0.0
	1	53	**20.37**		0.0
	1	104	20.33		0.0
	50	0	20.27	0-1	0.0
	50	28	**20.33**	0	0.0
	50	56	20.29	0-1	0.0
	100	0	20.28		0.0
DFT-s-OFDM 16QAM	1	1	20.40	0-1	0.0
CP-OFDM QPSK	1	1	20.44	0-1.5	0.0

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8.3.2 NR Band n12

Table 8-65
NR Band n12 Measured P_{Limit} Antenna 1 - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**19.64**	0	0.0
	1	40	19.57		0.0
	1	77	19.46		0.0
	36	0	**19.61**	0-1	0.0
	36	22	19.55	0	0.0
	36	43	19.50	0-1	0.0
	75	0	19.54		0.0
DFT-s-OFDM 16QAM	1	1	19.76	0-1	0.0
CP-OFDM QPSK	1	1	19.70	0-1.5	0.0

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Table 8-66
NR Band n12 Measured P_{Limit} Antenna 3 - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**19.17**	0	0.0
	1	40	19.10		0.0
	1	77	19.05		0.0
	36	0	**19.09**	0-1	0.0
	36	22	19.00	0	0.0
	36	43	19.02	0-1	0.0
	75	0	19.01		0.0
DFT-s-OFDM 16QAM	1	1	19.25	0-1	0.0
CP-OFDM QPSK	1	1	19.16	0-1.5	0.0

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8.3.3 NR Band n14

Table 8-67
NR Band n14 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**19.04**	0	0.0
	1	26	18.98		0.0
	1	50	19.01		0.0
	25	0	**19.07**	0-1	0.0
	25	14	19.06	0	0.0
	25	27	19.00	0-1	0.0
	50	0	19.00		0.0
DFT-s-OFDM 16QAM	1	1	19.27	0-1	0.0
CP-OFDM QPSK	1	1	19.20	0-1.5	0.0

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Table 8-68
NR Band n14 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**19.44**	0	0.0
	1	26	19.35		0.0
	1	50	19.32		0.0
	25	0	**19.39**	0-1	0.0
	25	14	19.30	0	0.0
	25	27	19.27	0-1	0.0
	50	0	19.26		0.0
DFT-s-OFDM 16QAM	1	1	19.41	0-1	0.0
CP-OFDM QPSK	1	1	19.38	0-1.5	0.0

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8.3.4 NR Band n26

Table 8-69
NR Band n26 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**19.09**	0	0.0
	1	53	19.00		0.0
	1	104	18.93		0.0
	50	0	**19.00**	0-1	0.0
	50	28	18.96	0	0.0
	50	56	18.89	0-1	0.0
	100	0	18.94		0.0
DFT-s-OFDM 16QAM	1	1	19.00	0-1	0.0
CP-OFDM QPSK	1	1	18.97	0-1.5	0.0

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Table 8-70
NR Band n26 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**18.86**	0	0.0
	1	53	18.75		0.0
	1	104	18.72		0.0
	50	0	**18.84**	0-1	0.0
	50	28	18.73	0	0.0
	50	56	18.62	0-1	0.0
	100	0	18.67		0.0
DFT-s-OFDM 16QAM	1	1	18.75	0-1	0.0
CP-OFDM QPSK	1	1	18.77	0-1.5	0.0

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8.3.5 NR Band n5

Table 8-71
NR Band n5 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**19.20**	0	0.0
	1	53	19.06		0.0
	1	104	19.04		0.0
	50	0	**19.16**	0-1	0.0
	50	28	19.04	0	0.0
	50	56	19.03	0-1	0.0
	100	0	19.02		0.0
DFT-s-OFDM 16QAM	1	1	18.98	0-1	0.0
CP-OFDM QPSK	1	1	19.11	0-1.5	0.0

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Table 8-72
NR Band n5 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**18.36**	0	0.0
	1	53	18.18		0.0
	1	104	18.00		0.0
	50	0	**18.19**	0-1	0.0
	50	28	18.08	0	0.0
	50	56	18.00	0-1	0.0
	100	0	18.08		0.0
DFT-s-OFDM 16QAM	1	1	18.46	0-1	0.0
CP-OFDM QPSK	1	1	18.26	0-1.5	0.0

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8.3.6 NR Band n70

Table 8-73
NR Band n70 Measured P_{Limit} Antenna 1 - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**16.70**	0	0.0
	1	40	16.59		0.0
	1	77	16.66		0.0
	36	0	**16.56**	0-1	0.0
	36	22	16.55	0	0.0
	36	43	16.52	0-1	0.0
	75	0	16.53		0.0
DFT-s-OFDM 16QAM	1	1	16.61	0-1	0.0
CP-OFDM QPSK	1	1	16.54	0-1.5	0.0

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Table 8-74
NR Band n70 Measured P_{Limit} Antenna 2b - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**12.57**	0	0.0
	1	40	12.50		0.0
	1	77	12.41		0.0
	36	0	**12.50**	0-1	0.0
	36	22	12.40	0	0.0
	36	43	12.38	0-1	0.0
	75	0	12.49		0.0
DFT-s-OFDM 16QAM	1	1	12.34	0-1	0.0
CP-OFDM QPSK	1	1	12.47	0-1.5	0.0

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Table 8-75
NR Band n70 Measured P_{Limit} Antenna 3 - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.41	0	0.0
	1	40	16.39		0.0
	1	77	**16.42**		0.0
	36	0	**16.42**	0-1	0.0
	36	22	16.37	0	0.0
	36	43	16.32	0-1	0.0
	75	0	16.39		0.0
DFT-s-OFDM 16QAM	1	1	16.27	0-1	0.0
CP-OFDM QPSK	1	1	16.54	0-1.5	0.0

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Table 8-76
NR Band n70 Measured P_{Limit} Antenna 4b - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.76	0	0.0
	1	40	12.84		0.0
	1	77	**12.88**		0.0
	36	0	12.74	0-1	0.0
	36	22	**12.78**	0	0.0
	36	43	12.75	0-1	0.0
	75	0	12.75		0.0
DFT-s-OFDM 16QAM	1	1	12.72	0-1	0.0
CP-OFDM QPSK	1	1	12.75	0-1.5	0.0

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8.3.7 NR Band n66

Table 8-77
NR Band n66 Measured P_{Limit} Antenna 1 - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.31	0	0.0
	1	108	16.29		0.0
	1	214	**16.37**		0.0
	108	0	**16.40**	0-1	0.0
	108	54	16.35	0	0.0
	108	108	16.30	0-1	0.0
	216	0	16.36		0.0
DFT-s-OFDM 16QAM	1	1	16.49	0-1	0.0
CP-OFDM QPSK	1	1	16.27	0-1.5	0.0

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Table 8-78
NR Band n66 Measured P_{Limit} Antenna 2b - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.97	0	0.0
	1	108	**13.02**		0.0
	1	214	12.87		0.0
	108	0	12.72	0-1	0.0
	108	54	**12.80**	0	0.0
	108	108	12.71	0-1	0.0
	216	0	12.71		0.0
DFT-s-OFDM 16QAM	1	1	12.68	0-1	0.0
CP-OFDM QPSK	1	1	12.77	0-1.5	0.0

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Table 8-79
NR Band n66 Measured P_{Limit} Antenna 3 - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.93	0	0.0
	1	108	**17.20**		0.0
	1	214	17.09		0.0
	108	0	17.11	0-1	0.0
	108	54	**17.16**	0	0.0
	108	108	17.13	0-1	0.0
	216	0	17.14		0.0
DFT-s-OFDM 16QAM	1	1	16.98	0-1	0.0
CP-OFDM QPSK	1	1	17.15	0-1.5	0.0

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Table 8-80
NR Band n66 Measured P_{Limit} Antenna 4b - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.97	0	0.0
	1	108	13.02		0.0
	1	214	**13.10**		0.0
	108	0	13.08	0-1	0.0
	108	54	**13.11**	0	0.0
	108	108	13.08	0-1	0.0
	216	0	13.09		0.0
DFT-s-OFDM 16QAM	1	1	13.01	0-1	0.0
CP-OFDM QPSK	1	1	13.05	0-1.5	0.0

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8.3.8 NR Band n25

Table 8-81
NR Band n25 Measured P_{Limit} Antenna 1 - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.44	0	0.0
	1	108	14.37		0.0
	1	214	**14.57**		0.0
	108	0	14.19	0-1	0.0
	108	54	14.13	0	0.0
	108	108	**14.20**	0-1	0.0
	216	0	14.19		0.0
DFT-s-OFDM 16QAM	1	1	14.56	0-1	0.0
CP-OFDM QPSK	1	1	14.55	0-1.5	0.0

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Table 8-82
NR Band n25 Measured P_{Limit} Antenna 2b - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.70	0	0.0
	1	108	**12.90**		0.0
	1	214	12.77		0.0
	108	0	12.77	0-1	0.0
	108	54	**12.84**	0	0.0
	108	108	12.76	0-1	0.0
	216	0	12.79		0.0
DFT-s-OFDM 16QAM	1	1	12.68	0-1	0.0
CP-OFDM QPSK	1	1	12.98	0-1.5	0.0

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Table 8-83
NR Band n25 Measured P_{Limit} Antenna 3 - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.85	0	0.0
	1	108	**15.03**		0.0
	1	214	14.98		0.0
	108	0	14.92	0-1	0.0
	108	54	14.86	0	0.0
	108	108	**14.97**	0-1	0.0
	216	0	14.90		0.0
DFT-s-OFDM 16QAM	1	1	14.78	0-1	0.0
CP-OFDM QPSK	1	1	14.75	0-1.5	0.0

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Table 8-84
NR Band n25 Measured P_{Limit} Antenna 4b - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**12.82**	0	0.0
	1	108	12.73		0.0
	1	214	12.68		0.0
	108	0	**12.80**	0-1	0.0
	108	54	12.78	0	0.0
	108	108	12.73	0-1	0.0
	216	0	12.79		0.0
DFT-s-OFDM 16QAM	1	1	12.75	0-1	0.0
CP-OFDM QPSK	1	1	12.81	0-1.5	0.0

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8.3.9 NR Band n30

Table 8-85
NR Band n30 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.06	0	0.0
	1	26	**14.10**		0.0
	1	50	14.08		0.0
	25	0	14.07	0-1	0.0
	25	14	**14.16**	0	0.0
	25	27	14.07	0-1	0.0
	50	0	14.06		0.0
DFT-s-OFDM 16QAM	1	1	13.87	0-1	0.0
CP-OFDM QPSK	1	1	14.15	0-1.5	0.0

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Table 8-86
NR Band n30 Measured P_{Limit} Antenna 2b - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.07	0	0.0
	1	26	**12.13**		0.0
	1	50	12.06		0.0
	25	0	12.04	0-1	0.0
	25	14	**12.11**	0	0.0
	25	27	12.09	0-1	0.0
	50	0	12.05		0.0
DFT-s-OFDM 16QAM	1	1	12.14	0-1	0.0
CP-OFDM QPSK	1	1	11.91	0-1.5	0.0

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Table 8-87
NR Band n30 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**14.26**	0	0.0
	1	26	14.15		0.0
	1	50	14.11		0.0
	25	0	14.08	0-1	0.0
	25	14	**14.20**	0	0.0
	25	27	14.18	0-1	0.0
	50	0	14.18		0.0
DFT-s-OFDM 16QAM	1	1	14.27	0-1	0.0
CP-OFDM QPSK	1	1	14.17	0-1.5	0.0

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Table 8-88
NR Band n30 Measured P_{Limit} Antenna 4b - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.75	0	0.0
	1	26	**11.80**		0.0
	1	50	11.77		0.0
	25	0	11.71	0-1	0.0
	25	14	**11.81**	0	0.0
	25	27	11.76	0-1	0.0
	50	0	11.73		0.0
DFT-s-OFDM 16QAM	1	1	11.70	0-1	0.0
CP-OFDM QPSK	1	1	11.69	0-1.5	0.0

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8.3.10 NR Band n7

Table 8-89
NR Band n7 Measured P_{Limit} Antenna 1 - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.77	0	0.0
	1	108	**12.84**		0.0
	1	214	12.76		0.0
	108	0	12.71	0-1	0.0
	108	54	**12.77**	0	0.0
	108	108	12.76	0-1	0.0
	216	0	12.74		0.0
DFT-s-OFDM 16QAM	1	1	12.75	0-1	0.0
CP-OFDM QPSK	1	1	12.70	0-1.5	0.0

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Table 8-90
NR Band n7 Measured P_{Limit} Antenna 2b - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.94	0	0.0
	1	108	**11.99**		0.0
	1	214	11.89		0.0
	108	0	11.91	0-1	0.0
	108	54	**11.92**	0	0.0
	108	108	11.90	0-1	0.0
	216	0	11.86		0.0
DFT-s-OFDM 16QAM	1	1	12.08	0-1	0.0
CP-OFDM QPSK	1	1	11.95	0-1.5	0.0

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Table 8-91
NR Band n7 Measured P_{Limit} Antenna 3 - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**13.17**	0	0.0
	1	108	13.04		0.0
	1	214	12.96		0.0
	108	0	**13.03**	0-1	0.0
	108	54	12.94	0	0.0
	108	108	13.01	0-1	0.0
	216	0	12.99		0.0
DFT-s-OFDM 16QAM	1	1	12.97	0-1	0.0
CP-OFDM QPSK	1	1	13.09	0-1.5	0.0

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Table 8-92
NR Band n7 Measured P_{Limit} Antenna 4b - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**11.40**	0	0.0
	1	108	11.31		0.0
	1	214	11.02		0.0
	108	0	**11.34**	0-1	0.0
	108	54	11.18	0	0.0
	108	108	11.27	0-1	0.0
	216	0	11.25		0.0
DFT-s-OFDM 16QAM	1	1	11.60	0-1	0.0
CP-OFDM QPSK	1	1	11.36	0-1.5	0.0

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8.3.11 NR Band n41

Table 8-93
NR Band n41 Measured P_{Limit} Antenna 1 - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.90	0	0.0
	1	137	**12.35**		0.0
	1	271	11.91		0.0
	135	0	12.20	0-1	0.0
	135	69	**12.26**	0	0.0
	135	138	12.15	0-1	0.0
	270	0	12.16		0.0
DFT-s-OFDM 16QAM	1	1	11.73	0-1	0.0
CP-OFDM QPSK	1	1	11.80	0-1.5	0.0

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Table 8-94
NR Band n41 Measured P_{Limit} Antenna 2b - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.30	0	0.0
	1	137	11.47		0.0
	1	271	**11.55**		0.0
	135	0	11.46	0-1	0.0
	135	69	**11.55**	0	0.0
	135	138	11.48	0-1	0.0
	270	0	11.54		0.0
DFT-s-OFDM 16QAM	1	1	11.68	0-1	0.0
CP-OFDM QPSK	1	1	11.26	0-1.5	0.0

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Table 8-95
NR Band n41 Measured P_{Limit} Antenna 3 - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	12.12	0	0.0
	1	137	**12.34**		0.0
	1	271	12.25		0.0
	135	0	**12.35**	0-1	0.0
	135	69	12.29	0	0.0
	135	138	12.31	0-1	0.0
	270	0	12.30		0.0
DFT-s-OFDM 16QAM	1	1	12.18	0-1	0.0
CP-OFDM QPSK	1	1	12.09	0-1.5	0.0

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Table 8-96
NR Band n41 Measured P_{Limit} Antenna 4b - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	11.20	0	0.0
	1	137	**11.35**		0.0
	1	271	11.25		0.0
	135	0	11.36	0-1	0.0
	135	69	**11.40**	0	0.0
	135	138	11.37	0-1	0.0
	270	0	11.32		0.0
DFT-s-OFDM 16QAM	1	1	11.29	0-1	0.0
CP-OFDM QPSK	1	1	11.33	0-1.5	0.0

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8.3.12 NR Band n48

Table 8-97
NR Band n48 Measured P_{Limit} Antenna 1 - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	10.19	10.30	10.44	0	0.0
	1	53	10.34	10.40	10.40		0.0
	1	104	10.37	10.48	**10.51**		0.0
	50	0	10.31	10.42	**10.50**	0-1	0.0
	50	28	10.29	10.32	10.37	0	0.0
	50	56	10.28	10.28	10.23	0-1	0.0
	100	0	10.31	10.35	10.39		0.0
DFT-s-OFDM 16QAM	1	1	10.10	10.62	10.45	0-1	0.0
CP-OFDM QPSK	1	1	10.35	10.41	10.43	0-1.5	0.0

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Table 8-98
NR Band n48 Measured P_{Limit} Antenna 2b - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	12.49	12.70	12.86	0	0.0
	1	53	12.48	12.53	12.85		0.0
	1	104	12.70	12.76	**12.92**		0.0
	50	0	12.50	12.59	**12.85**	0-1	0.0
	50	28	12.43	12.52	12.79	0	0.0
	50	56	12.45	12.49	12.74	0-1	0.0
	100	0	12.48	12.53	12.84		0.0
DFT-s-OFDM 16QAM	1	1	12.78	12.97	12.87	0-1	0.0
CP-OFDM QPSK	1	1	12.56	12.56	13.01	0-1.5	0.0

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Table 8-99
NR Band n48 Measured P_{Limit} Antenna 3 - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	10.34	10.19	10.05	0	0.0
	1	53	**10.51**	10.10	9.90		0.0
	1	104	10.49	10.18	9.87		0.0
	50	0	10.38	10.12	10.00	0-1	0.0
	50	28	10.42	10.09	9.79	0	0.0
	50	56	**10.46**	10.06	9.80	0-1	0.0
	100	0	10.39	10.10	9.90		0.0
DFT-s-OFDM 16QAM	1	1	10.21	10.09	9.91	0-1	0.0
CP-OFDM QPSK	1	1	10.50	10.26	10.21	0-1.5	0.0

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Table 8-100
NR Band n48 Measured P_{Limit} Antenna 4b - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	**9.59**	9.45	9.23	0	0.0
	1	53	9.56	9.39	9.20		0.0
	1	104	9.55	9.30	9.21		0.0
	50	0	9.52	9.32	9.18	0-1	0.0
	50	28	9.50	9.36	9.09	0	0.0
	50	56	**9.54**	9.37	9.20	0-1	0.0
	100	0	9.48	9.30	9.14		0.0
DFT-s-OFDM 16QAM	1	1	9.54	9.11	9.35	0-1	0.0
CP-OFDM QPSK	1	1	9.59	9.16	9.08	0-1.5	0.0

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8.3.13 NR Band n77 DoD

Table 8-101
NR Band n77 DoD Measured P_{Limit} Antenna 1 - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**9.49**	0	0.0
	1	137	9.41		0.0
	1	271	9.34		0.0
	135	0	**9.50**	0-1	0.0
	135	69	9.46	0	0.0
	135	138	9.31	0-1	0.0
	270	0	9.40		0.0
DFT-s-OFDM 16QAM	1	1	9.34	0-1	0.0
CP-OFDM QPSK	1	1	9.43	0-1.5	0.0

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Table 8-102
NR Band n77 DoD Measured P_{Limit} Antenna 2b - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**10.28**	0	0.0
	1	137	10.21		0.0
	1	271	10.14		0.0
	135	0	**10.32**	0-1	0.0
	135	69	10.29	0	0.0
	135	138	10.30	0-1	0.0
	270	0	10.27		0.0
DFT-s-OFDM 16QAM	1	1	10.27	0-1	0.0
CP-OFDM QPSK	1	1	9.90	0-1.5	0.0

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Table 8-103
NR Band n77 DoD Measured P_{Limit} Antenna 3 - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	**9.76**	0	0.0
	1	137	9.71		0.0
	1	271	9.74		0.0
	135	0	**9.75**	0-1	0.0
	135	69	9.65	0	0.0
	135	138	9.70	0-1	0.0
	270	0	9.68		0.0
DFT-s-OFDM 16QAM	1	1	9.55	0-1	0.0
CP-OFDM QPSK	1	1	9.82	0-1.5	0.0

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Table 8-104
NR Band n77 DoD Measured P_{Limit} Antenna 4b - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	9.30	0	0.0
	1	137	**9.48**		0.0
	1	271	9.28		0.0
	135	0	**9.43**	0-1	0.0
	135	69	9.40	0	0.0
	135	138	9.31	0-1	0.0
	270	0	9.37		0.0
DFT-s-OFDM 16QAM	1	1	9.32	0-1	0.0
CP-OFDM QPSK	1	1	9.18	0-1.5	0.0

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8.3.14 NR Band n77

Table 8-105
NR Band n77 Measured P_{Limit} Antenna 1 - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.95	**10.00**	0	0.0
	1	137	9.87	9.93		0.0
	1	271	9.85	9.83		0.0
	135	0	9.83	**9.95**	0-1	0.0
	135	69	9.80	9.79	0	0.0
	135	138	9.80	9.69	0-1	0.0
	270	0	9.82	9.83		0.0
DFT-s-OFDM 16QAM	1	1	9.80	9.91	0-1	0.0
CP-OFDM QPSK	1	1	9.99	10.00	0-1.5	0.0

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Table 8-106
NR Band n77 Measured P_{Limit} Antenna 2b - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	10.34	**10.45**	0	0.0
	1	137	10.30	10.30		0.0
	1	271	10.29	10.20		0.0
	135	0	10.31	**10.40**	0-1	0.0
	135	69	10.12	10.35	0	0.0
	135	138	10.00	10.27	0-1	0.0
	270	0	10.21	10.25		0.0
DFT-s-OFDM 16QAM	1	1	10.10	10.50	0-1	0.0
CP-OFDM QPSK	1	1	10.40	10.42	0-1.5	0.0

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Table 8-107
NR Band n77 Measured P_{Limit} Antenna 3 - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.62	9.67	0	0.0
	1	137	9.65	9.64		0.0
	1	271	**9.90**	9.69		0.0
	135	0	9.67	9.57	0-1	0.0
	135	69	**9.75**	9.72	0	0.0
	135	138	9.69	9.68	0-1	0.0
	270	0	9.74	9.70		0.0
DFT-s-OFDM 16QAM	1	1	9.88	9.74	0-1	0.0
CP-OFDM QPSK	1	1	9.76	9.73	0-1.5	0.0

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Table 8-108
NR Band n77 Measured P_{Limit} Antenna 4b - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	9.14	8.93	0	0.0
	1	137	**9.35**	9.19		0.0
	1	271	9.12	8.97		0.0
	135	0	**9.35**	9.11	0-1	0.0
	135	69	9.18	9.16	0	0.0
	135	138	9.17	9.11	0-1	0.0
	270	0	9.34	9.15		0.0
DFT-s-OFDM 16QAM	1	1	9.04	8.98	0-1	0.0
CP-OFDM QPSK	1	1	9.08	9.20	0-1.5	0.0

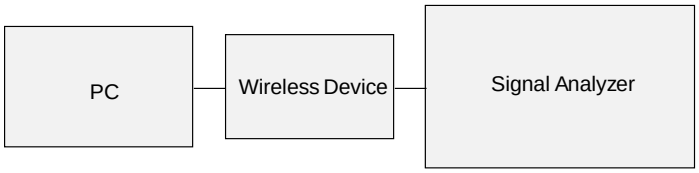

Figure 8-3
Power Measurement Setup

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8.4 WLAN Maximum Time-Averaged Conducted Powers

Table 8-109
2.4 GHz WLAN Maximum Average RF Power - Antenna 2a, - Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	12.21
2437	6		12.27
2462	11		12.13
2.4GHz WIFI (20MHz 802.11g SISO ANT 2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	12.29
2437	6		12.33
2462	11		12.16
2.4GHz WIFI (20MHz 802.11n SISO ANT 2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	12.27
2437	6		12.32
2462	11		12.22
2.4GHz WIFI (20MHz 802.11ax SISO ANT 2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	12.37
2437	6		12.40
2462	11		12.27

Table 8-110
2.4 GHz WLAN Maximum Average RF Power - Antenna 2a, - Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	12.26
2437	6		12.23
2462	11		12.09
2.4GHz WIFI (20MHz 802.11g SISO ANT 2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	12.20
2437	6		12.21
2462	11		12.12

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2.4GHz WIFI (20MHz 802.11n SISO ANT 2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	12.00
2437	6		12.06
2462	11		12.04
2.4GHz WIFI (20MHz 802.11ax SISO ANT2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	12.33
2437	6		12.36
2462	11		12.29

Table 8-111
2.4 GHz WLAN Maximum Average RF Power - Antenna 4a, - Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 4a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.05
2437	6		10.90
2462	11		11.06
2.4GHz WIFI (20MHz 802.11g SISO ANT 4a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	10.99
2437	6		10.84
2462	11		11.00
2.4GHz WIFI (20MHz 802.11n SISO ANT 4a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.22
2437	6		11.07
2462	11		11.23
2.4GHz WIFI (20MHz 802.11ax SISO ANT 4a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.07
2437	6		10.99
2462	11		11.09

Table 8-112
2.4 GHz WLAN Maximum Average RF Power - Antenna 4a, - Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 4a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.20
2437	6		10.93
2462	11		11.01

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2.4GHz WIFI (20MHz 802.11g SISO ANT 4a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.31
2437	6		11.08
2462	11		11.12
2.4GHz WIFI (20MHz 802.11n SISO ANT 4a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.22
2437	6		11.13
2462	11		11.15
2.4GHz WIFI (20MHz 802.11ax SISO ANT 4a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.25
2437	6		11.14
2462	11		11.17

Table 8-113
5 GHz WLAN Maximum Average RF Power - Antenna WF5B, - Variant 1

5GHz WIFI (40MHz 802.11n SISO ANT WF5B)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	13.34
	5230	46	16.33
UNII-2A	5270	54	16.28
	5310	62	16.31
5GHz WIFI (80MHz 802.11ac SISO ANT WF5B)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-2C	5530	106	13.04
	5610	122	16.34
	5690	138	16.44
UNII-3	5775	155	16.08
5GHz WIFI (40MHz 802.11ac SISO ANT WF5B)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	13.63
	5230	46	16.36
UNII-2A	5270	54	16.28
	5310	62	16.31
5GHz WIFI (40MHz 802.11ax SISO ANT WF5B)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	12.96
	5230	46	16.24
UNII-2A	5270	54	16.17
	5310	62	14.99

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5GHz WIFI (80MHz 802.11ax SISO ANT WF5B)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-2C	5530	106	13.50
	5610	122	16.17
	5690	138	16.31
UNII-3	5775	155	16.29

Table 8-114
5 GHz WLAN Maximum Average RF Power - Antenna WF5B, - Variant 2

5GHz WIFI (40MHz 802.11n SISO ANT WF5B)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	13.31
	5230	46	16.35
UNII-2A	5270	54	16.42
	5310	62	16.57
5GHz WIFI (80MHz 802.11ac SISO ANT WF5B)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-2C	5530	106	13.06
	5610	122	16.40
	5690	138	16.61
UNII-3	5775	155	15.95
5GHz WIFI (40MHz 802.11ac SISO ANT WF5B)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	13.33
	5230	46	16.20
UNII-2A	5270	54	16.39
	5310	62	16.21
5GHz WIFI (40MHz 802.11ax SISO ANT WF5B)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	12.79
	5230	46	16.10
UNII-2A	5270	54	16.17
	5310	62	14.86
5GHz WIFI (80MHz 802.11ax SISO ANT WF5B)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-2C	5530	106	13.40
	5610	122	16.48
	5690	138	16.25
UNII-3	5775	155	16.04

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Table 8-115
5 GHz WLAN Maximum Average RF Power - Antenna 2a, - Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT2a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	7.72
UNII-2A	5290	58	7.99
UNII-2C	5530	106	7.90
	5610	122	7.70
	5690	138	7.69
UNII-3	5775	155	8.30
5GHz WIFI (80MHz 802.11ax SISO ANT2a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	7.26
UNII-2A	5290	58	7.75
UNII-2C	5530	106	7.82
	5610	122	7.64
	5690	138	7.56
UNII-3	5775	155	8.27

Table 8-116
5 GHz WLAN Maximum Average RF Power - Antenna 2a, - Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT2a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	7.74
UNII-2A	5290	58	8.00
UNII-2C	5530	106	7.77
	5610	122	7.75
	5690	138	7.63
UNII-3	5775	155	8.20
5GHz WIFI (80MHz 802.11ax SISO ANT2a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	7.54
UNII-2A	5290	58	7.70
UNII-2C	5530	106	7.56
	5610	122	7.60
	5690	138	7.57
UNII-3	5775	155	8.14

Table 8-117
5 GHz WLAN Maximum Average RF Power - Antenna 4a, - Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT4a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	8.07
UNII-2A	5290	58	8.14
UNII-2C	5530	106	7.99
	5610	122	7.96
	5690	138	8.02
UNII-3	5775	155	8.74

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5GHz WIFI (80MHz 802.11ax SISO ANT4a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	8.00
UNII-2A	5290	58	7.94
UNII-2C	5530	106	8.09
	5610	122	8.05
	5690	138	8.15
UNII-3	5775	155	8.63

Table 8-118
5 GHz WLAN Maximum Average RF Power - Antenna 4a, - Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT4a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	8.07
UNII-2A	5290	58	8.15
UNII-2C	5530	106	7.98
	5610	122	7.95
	5690	138	7.93
UNII-3	5775	155	8.70
5GHz WIFI (80MHz 802.11ax SISO ANT4a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	7.99
UNII-2A	5290	58	7.76
UNII-2C	5530	106	7.93
	5610	122	7.89
	5690	138	7.88
UNII-3	5775	155	8.56

Table 8-119
6 GHz WLAN Maximum Average RF Power - Antenna WF5B, - Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT WF5B)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	13.83
	6345	79	15.68
UNII-6	6505	111	11.80
UNII-7	6665	143	12.10
UNII-8	6985	207	12.40

Table 8-120
6 GHz WLAN Maximum Average RF Power - Antenna WF5B, - Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT WF5B)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	15.15
	6345	79	15.64
UNII-6	6505	111	11.79
UNII-7	6665	143	12.06
UNII-8	6985	207	12.51

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Table 8-121
6 GHz WLAN Maximum Average RF Power - Antenna 2a, - Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 2a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	9.85
	6345	79	8.05
UNII-6	6505	111	8.29
UNII-7	6665	143	8.92
UNII-8	6985	207	8.43

Table 8-122
6 GHz WLAN Maximum Average RF Power - Antenna 2a, - Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT2a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	10.22
	6345	79	8.01
UNII-6	6505	111	10.06
UNII-7	6665	143	8.80
UNII-8	6985	207	8.52

Table 8-123
6 GHz WLAN Maximum Average RF Power - Antenna 4a, - Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 4a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	6.31
	6345	79	8.65
UNII-6	6505	111	8.74
UNII-7	6665	143	7.25
UNII-8	6985	207	7.46

Table 8-124
6 GHz WLAN Maximum Average RF Power - Antenna 4a, - Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT4a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	6.37
	6345	79	8.58
UNII-6	6505	111	8.67
UNII-7	6665	143	6.76
UNII-8	6985	207	7.95

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8.5 WLAN Reduced Time-Averaged Conducted Powers

Table 8-125
2.4 GHz WLAN Reduced 5.5 dB Average RF Power – Antenna 2a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	6.22
2437	6		6.23
2462	11		6.29
2.4GHz WIFI (20MHz 802.11g SISO ANT2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.98
2437	6		6.09
2462	11		6.12
2.4GHz WIFI (20MHz 802.11n SISO ANT2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	6.04
2437	6		6.11
2462	11		6.19
2.4GHz WIFI (20MHz 802.11ax SISO ANT2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.96
2437	6		6.08
2462	11		6.12

Table 8-126
2.4 GHz WLAN Reduced 5.5 dB Average RF Power – Antenna 2a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	6.17
2437	6		6.15
2462	11		6.25
2.4GHz WIFI (20MHz 802.11g SISO ANT2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	5.98
2437	6		6.01
2462	11		6.04
2.4GHz WIFI (20MHz 802.11n SISO ANT2a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	6.01
2437	6		6.08
2462	11		6.10

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2.4GHz WIFI (20MHz 802.11ax SISO ANT2a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	6.13
2437	6		6.11
2462	11		6.15

Table 8-127
2.4 GHz WLAN 5.5 dB Reduced Average RF Power – Antenna 4a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	5.10
2437	6		5.07
2462	11		5.15
2.4GHz WIFI (20MHz 802.11g SISO ANT4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	4.61
2437	6		4.81
2462	11		4.58
2.4GHz WIFI (20MHz 802.11n SISO ANT4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	4.48
2437	6		4.66
2462	11		4.61
2.4GHz WIFI (20MHz 802.11ax SISO ANT4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	4.40
2437	6		4.60
2462	11		4.53

Table 8-128
2.4 GHz WLAN 5.5 dB Reduced Average RF Power – Antenna 4a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	4.93
2437	6		4.92
2462	11		5.06
2.4GHz WIFI (20MHz 802.11g SISO ANT4a)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	4.53
2437	6		4.59
2462	11		4.61

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2.4GHz WIFI (20MHz 802.11n SISO ANT4a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	4.40
2437	6		4.44
2462	11		4.46
2.4GHz WIFI (20MHz 802.11ax SISO ANT4a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	4.17
2437	6		4.19
2462	11		4.20

Table 8-129
5 GHz WLAN Reduced 5.5 dB Average RF Power – Antenna 2a, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 2a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	2.44
UNII-2A	5290	58	2.34
UNII-2C	5530	106	2.22
	5610	122	2.20
	5690	138	2.39
UNII-3	5775	155	3.24
5GHz WIFI (80MHz 802.11ax SISO ANT 2a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	2.47
UNII-2A	5290	58	2.49
UNII-2C	5530	106	2.66
	5610	122	2.64
	5690	138	2.30
UNII-3	5775	155	3.22

Table 8-130
5 GHz WLAN Reduced 5.5 dB Average RF Power – Antenna 2a, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 2a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	2.03
UNII-2A	5290	58	2.37
UNII-2C	5530	106	2.24
	5610	122	2.20
	5690	138	2.26
UNII-3	5775	155	3.23
5GHz WIFI (80MHz 802.11ax SISO ANT 2a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	0.70
UNII-2A	5290	58	0.63
UNII-2C	5530	106	2.59
	5610	122	2.53
	5690	138	2.41
UNII-3	5775	155	3.17

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Table 8-131
5 GHz WLAN Reduced 5.5 dB Average RF Power – Antenna 4a, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 4a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	2.10
UNII-2A	5290	58	1.66
UNII-2C	5530	106	1.33
	5610	122	1.11
	5690	138	1.88
UNII-3	5775	155	1.81
5GHz WIFI (80MHz 802.11ax SISO ANT 4a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	2.27
UNII-2A	5290	58	1.57
UNII-2C	5530	106	1.02
	5610	122	2.36
	5690	138	2.10
UNII-3	5775	155	2.29

Table 8-132
5 GHz WLAN Reduced 5.5 dB Average RF Power – Antenna 4a, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 4a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	2.20
UNII-2A	5290	58	2.00
UNII-2C	5530	106	1.74
	5610	122	1.42
	5690	138	2.06
UNII-3	5775	155	2.23
5GHz WIFI (80MHz 802.11ax SISO ANT 4a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
II-1	5210	42	2.11
I-2A	5290	58	1.66
UNII-2C	5530	106	2.51
	5610	122	2.05
	5690	138	1.86
II-3	5775	155	2.32

Table 8-133
6 GHz WLAN Reduced 5.5 dB Average RF Power – Antenna 2a, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 2a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	3.80
	6345	79	3.27
UNII-6	6505	111	3.62
UNII-7	6665	143	4.12
UNII-8	6985	207	3.28

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Table 8-134
6 GHz WLAN Reduced 5.5 dB Average RF Power – Antenna 2a, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 2a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	3.85
	6345	79	3.11
UNII-6	6505	111	3.79
UNII-7	6665	143	4.19
UNII-8	6985	207	3.27

Table 8-135
6 GHz WLAN Reduced 5.5 dB Average RF Power – Antenna 4a, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 4a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	2.11
	6345	79	3.09
UNII-6	6505	111	3.01
UNII-7	6665	143	2.28
UNII-8	6985	207	2.19

Table 8-136
6 GHz WLAN Reduced 5.5 dB Average RF Power – Antenna 4a, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 4a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	2.23
	6345	79	3.17
UNII-6	6505	111	3.03
UNII-7	6665	143	2.33
UNII-8	6985	207	2.48

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8.6 WLAN Power Reduction Verification Summary

Table 8-137
WLAN Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
Ant 2A	2.4 GHz WLAN	Main Band 2B ON	12.75	7.25	10.81	6.06	PASS
	2.4 GHz WLAN	ULCA ON	12.75	7.25	10.81	7.09	PASS
Ant 4A	2.4 GHz WLAN	Main Band 4B ON	11.5	6	9.82	3.84	PASS
	2.4 GHz WLAN	ULCA ON	11.5	6	9.82	3.67	PASS
Ant 2A	5 GHz WLAN	Main Band 2B ON	9.75	4.25	8.78	2.37	PASS
	5 GHz WLAN	ULCA ON	9.75	4.25	8.78	2.08	PASS
Ant 4A	5 GHz WLAN	Main Band 4B ON	9	3.5	7.09	1.86	PASS
	5 GHz WLAN	ULCA ON	9	3.5	7.09	1.77	PASS

Maximum power will not exceed minimum of (SAR max cap, Reg max cap). Power reduction backoff for simultaneous transmission is applied to SAR max cap for each antenna. Reduced power level will not exceed minimum of (SAR max cap-power reduction backoff, Reg max cap).

Conducted powers were measured for each mode/band and applied condition. All conducted power measurements were verified to be below the maximum allowed.

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
Ant 2A	6 GHz WLAN	Main Band 2B ON	10.25	4.75	9.54	4.35	PASS
	6 GHz WLAN	ULCA ON	10.25	4.75	9.54	4.32	PASS
Ant 4A	6 GHz WLAN	Main Band 4B ON	8.25	2.75	8.01	1.09	PASS
	6 GHz WLAN	ULCA ON	8.25	2.75	8.01	1.52	PASS

Maximum power will not exceed minimum of (SAR max cap, Reg max cap). Power reduction backoff for simultaneous transmission is applied to SAR max cap for each antenna. Reduced power level will not exceed minimum of (SAR max cap-power reduction backoff, Reg max cap).

Conducted powers were measured for each mode/band and applied condition. All conducted power measurements were verified to be below the maximum allowed

8.7 Notes for WLAN

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.
- The WLAN chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structure to meet the same specifications and functions.
- Two device variants are referenced as Variant 1 and Variant 2 in this report.
- WLAN SAR worst case configuration was spotchecked on Variant 1 and Variant 2.

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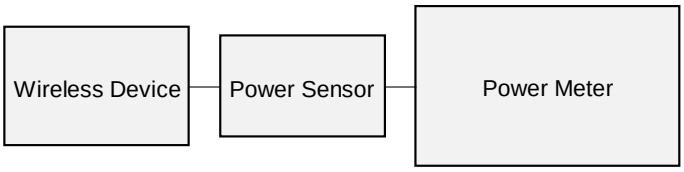

Figure 8-4
Power Measurement Setup

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8.8 Bluetooth Maximum Conducted Powers

Table 8-138
Bluetooth Maximum Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.27	21.232
2441	GFSK	1.0	39	12.79	19.011
2480	GFSK	1.0	78	12.63	18.323

Table 8-139
Bluetooth Maximum Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	13.34	21.577
2441	GFSK	1.0	39	12.86	19.320
2480	GFSK	1.0	78	12.80	19.055

Table 8-140
Bluetooth Maximum Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	10.63	11.561
2441	GFSK	1.0	39	11.36	13.677
2480	GFSK	1.0	78	10.98	12.531

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Table 8-141
Bluetooth Maximum Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	10.55	11.350
2441	GFSK	1.0	39	11.12	12.942
2480	GFSK	1.0	78	10.86	12.190

8.9 Bluetooth Reduced Conducted Powers

Table 8-142
Bluetooth Reduced 3dB Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	8.62	7.278
2441	GFSK	1.0	39	8.83	7.638
2480	GFSK	1.0	78	8.50	7.079

Table 8-143
Bluetooth Reduced 3dB Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	8.50	7.079
2441	GFSK	1.0	39	8.52	7.112
2480	GFSK	1.0	78	8.51	7.096

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Table 8-144
Bluetooth Reduced 6dB Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.28	4.246
2441	GFSK	1.0	39	6.59	4.560
2480	GFSK	1.0	78	6.03	4.009

Table 8-145
Bluetooth Reduced 6dB Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.26	4.227
2441	GFSK	1.0	39	6.69	4.667
2480	GFSK	1.0	78	5.96	3.945

Table 8-146
Bluetooth Reduced 7dB Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.65	3.673
2441	GFSK	1.0	39	5.83	3.828
2480	GFSK	1.0	78	5.29	3.381

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Table 8-147
Bluetooth Reduced 7dB Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.63	3.656
2441	GFSK	1.0	39	5.85	3.846
2480	GFSK	1.0	78	5.24	3.342

Table 8-148
Bluetooth Reduced 3dB Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.85	6.095
2441	GFSK	1.0	39	7.93	6.209
2480	GFSK	1.0	78	7.82	6.053

Table 8-149
Bluetooth Reduced 3dB Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.52	5.649
2441	GFSK	1.0	39	7.54	5.675
2480	GFSK	1.0	78	7.56	5.702

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Table 8-150
Bluetooth Reduced 6dB Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.31	3.396
2441	GFSK	1.0	39	4.94	3.119
2480	GFSK	1.0	78	5.23	3.334

Table 8-151
Bluetooth Reduced 6dB Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	5.00	3.162
2441	GFSK	1.0	39	5.06	3.206
2480	GFSK	1.0	78	5.11	3.243

Table 8-152
Bluetooth Reduced 7dB Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	3.86	2.432
2441	GFSK	1.0	39	3.71	2.350
2480	GFSK	1.0	78	3.99	2.506

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Table 8-153
Bluetooth Reduced 7dB Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	3.78	2.388
2441	GFSK	1.0	39	3.86	2.432
2480	GFSK	1.0	78	3.91	2.460

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8.10 Bluetooth Duty Cycle Plots

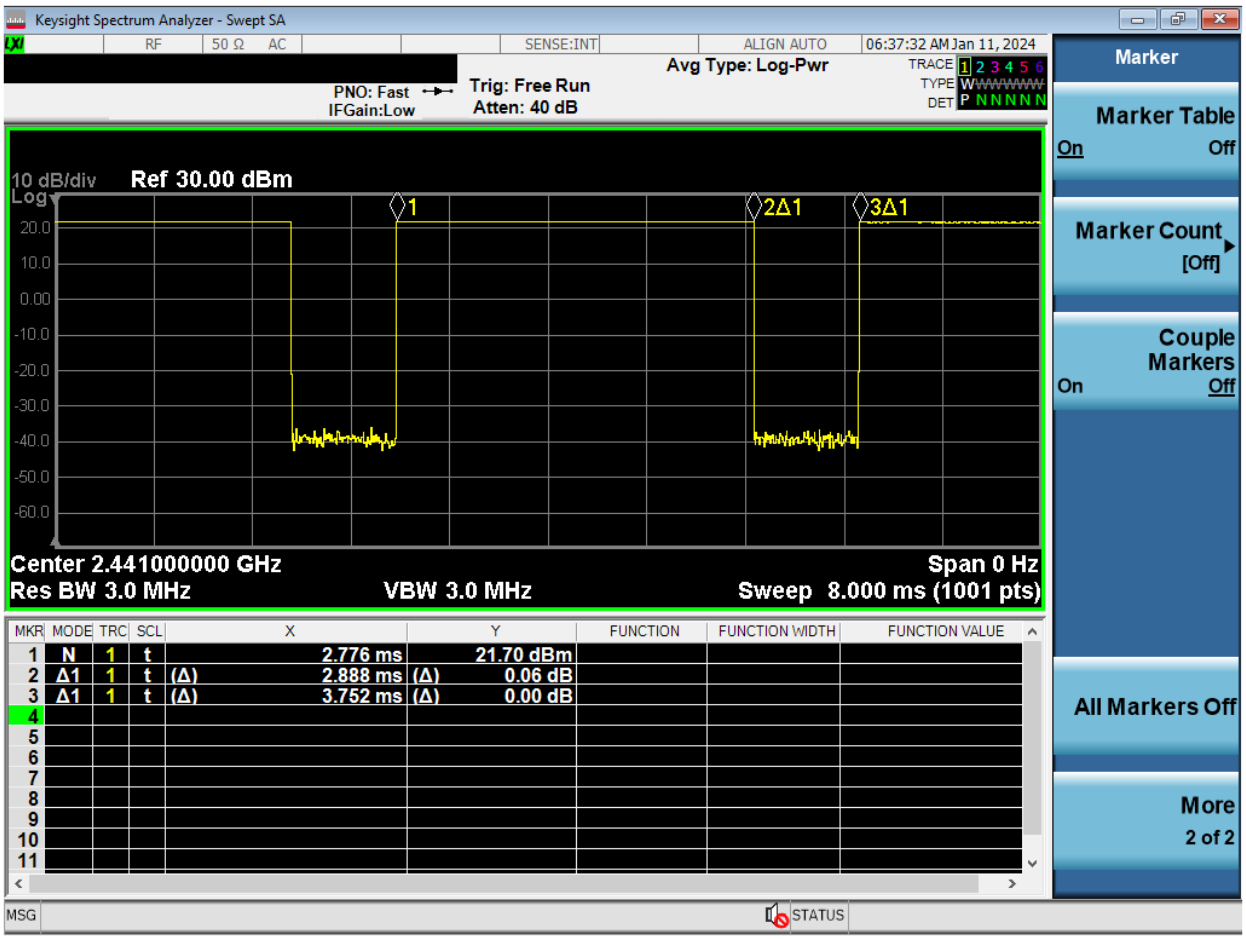

Figure 8-5
Bluetooth Transmission Plot – Antenna 4a, Variant 1

Equation 8-1
Bluetooth Duty Cycle Calculation – Antenna 4a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888}{3.752} * 100\% = 77.0\%$$

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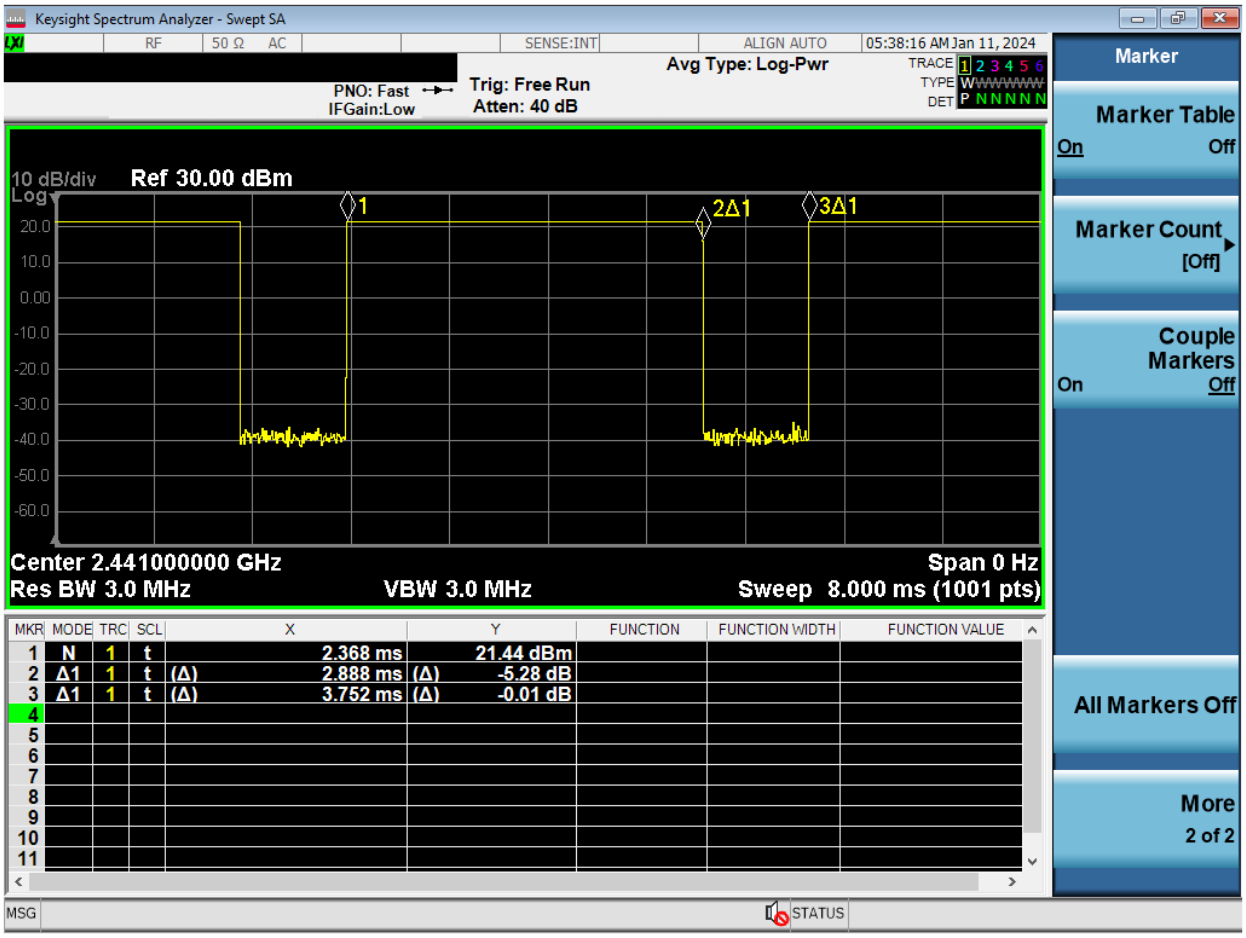

Figure 8-6
Bluetooth Transmission Plot – Antenna 4a, Variant 2

Equation 8-2
Bluetooth Duty Cycle Calculation – Antenna 4a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

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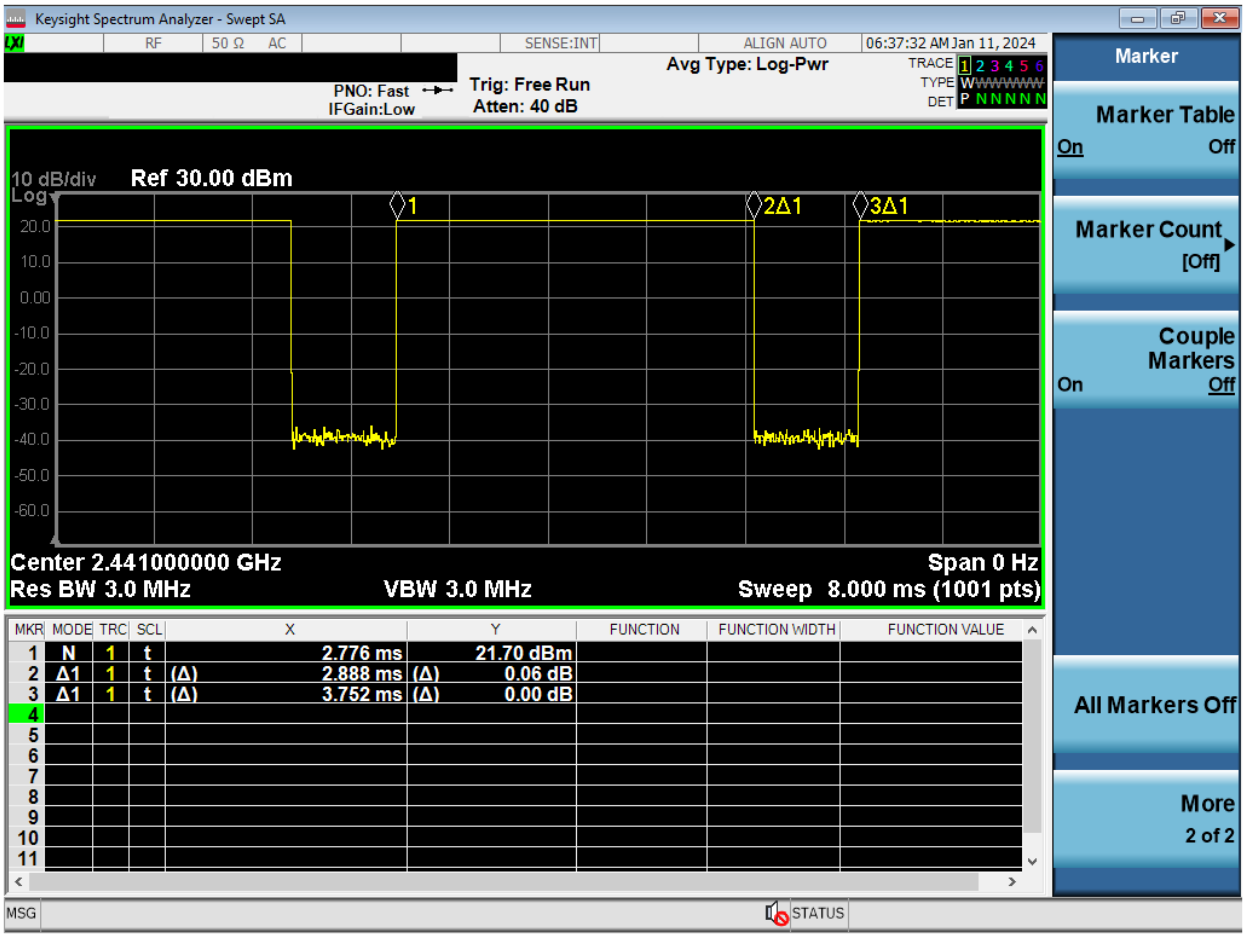

Figure 8-7
Bluetooth Transmission Plot – Antenna 2a, Variant 1

Equation 8-3
Bluetooth Duty Cycle Calculation – Antenna 2a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

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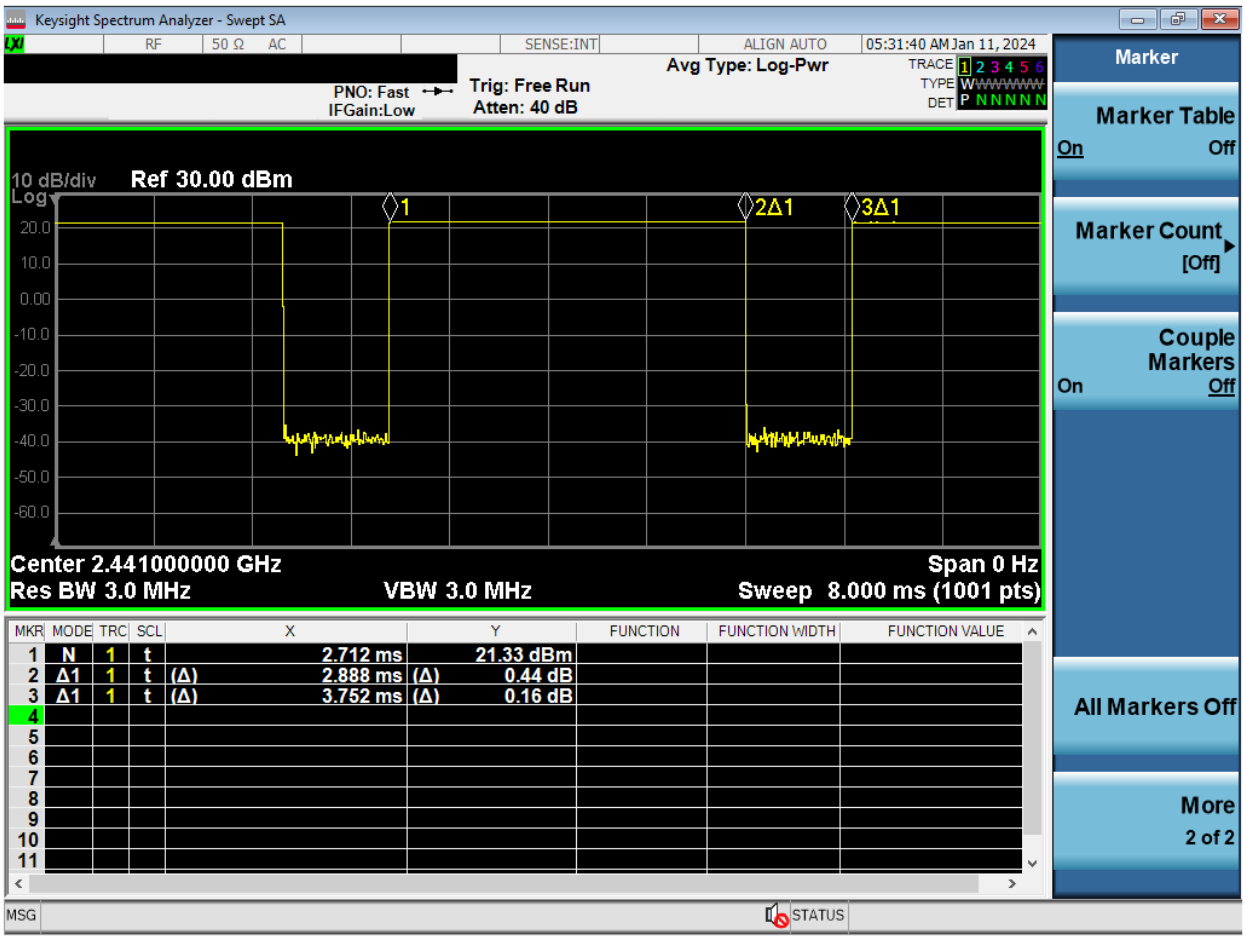

Figure 8-8
Bluetooth Transmission Plot – Antenna 2a, Variant 2

Equation 8-4
Bluetooth Duty Cycle Calculation – Antenna 2a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

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8.11 802.15.4 Maximum Conducted Powers

Table 8-154
802.15.4 Maximum Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	12.76	18.880
2440	O-QPSK	0.25	18	12.64	18.365
2475	O-QPSK	0.25	25	12.05	16.032

Table 8-155
802.15.4 Maximum Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	12.81	19.099
2440	O-QPSK	0.25	18	12.96	19.770
2475	O-QPSK	0.25	25	12.19	16.558

Table 8-156
802.15.4 Maximum Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	12.08	16.144
2440	O-QPSK	0.25	18	11.13	12.972
2475	O-QPSK	0.25	25	11.70	14.791

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Table 8-157
802.15.4 Maximum Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	11.99	15.812
2440	O-QPSK	0.25	18	11.71	14.825
2475	O-QPSK	0.25	25	11.40	13.804

8.12 802.15.4 Reduced Conducted Powers

Table 8-158
802.15.4 Reduced 3dB Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	9.76	9.462
2440	O-QPSK	0.25	18	10.27	10.641
2475	O-QPSK	0.25	25	9.47	8.851

Table 8-159
802.15.4 Reduced 3dB Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	9.36	8.630
2440	O-QPSK	0.25	18	10.15	10.351
2475	O-QPSK	0.25	25	9.20	8.318

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Table 8-160
802.15.4 Reduced 6dB Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	6.43	4.395
2440	O-QPSK	0.25	18	6.40	4.365
2475	O-QPSK	0.25	25	6.24	4.207

Table 8-161
802.15.4 Reduced 6dB Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	6.19	4.159
2440	O-QPSK	0.25	18	6.68	4.656
2475	O-QPSK	0.25	25	6.02	3.999

Table 8-162
802.15.4 Reduced 7dB Average RF Power – Antenna 2a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	5.20	3.311
2440	O-QPSK	0.25	18	5.31	3.396
2475	O-QPSK	0.25	25	5.20	3.311

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Table 8-163
802.15.4 Reduced 7dB Average RF Power – Antenna 2a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	5.10	3.236
2440	O-QPSK	0.25	18	5.50	3.548
2475	O-QPSK	0.25	25	5.93	3.917

Table 8-164
802.15.4 Reduced 3dB Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	8.09	6.442
2440	O-QPSK	0.25	18	8.29	6.745
2475	O-QPSK	0.25	25	8.10	6.457

Table 8-165
802.15.4 Reduced 3dB Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	8.59	7.228
2440	O-QPSK	0.25	18	9.23	8.375
2475	O-QPSK	0.25	25	8.44	6.982

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Table 8-166
802.15.4 Reduced 6dB Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	5.51	3.556
2440	O-QPSK	0.25	18	5.67	3.690
2475	O-QPSK	0.25	25	5.46	3.516

Table 8-167
802.15.4 Reduced 6dB Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	5.00	3.162
2440	O-QPSK	0.25	18	5.30	3.388
2475	O-QPSK	0.25	25	5.21	3.319

Table 8-168
802.15.4 Reduced 7dB Average RF Power – Antenna 4a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	4.97	3.141
2440	O-QPSK	0.25	18	5.38	3.451
2475	O-QPSK	0.25	25	4.87	3.069

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Table 8-169
802.15.4 Reduced 7dB Average RF Power – Antenna 4a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	0.25	11	4.96	3.133
2440	O-QPSK	0.25	18	4.69	2.944
2475	O-QPSK	0.25	25	4.49	2.812

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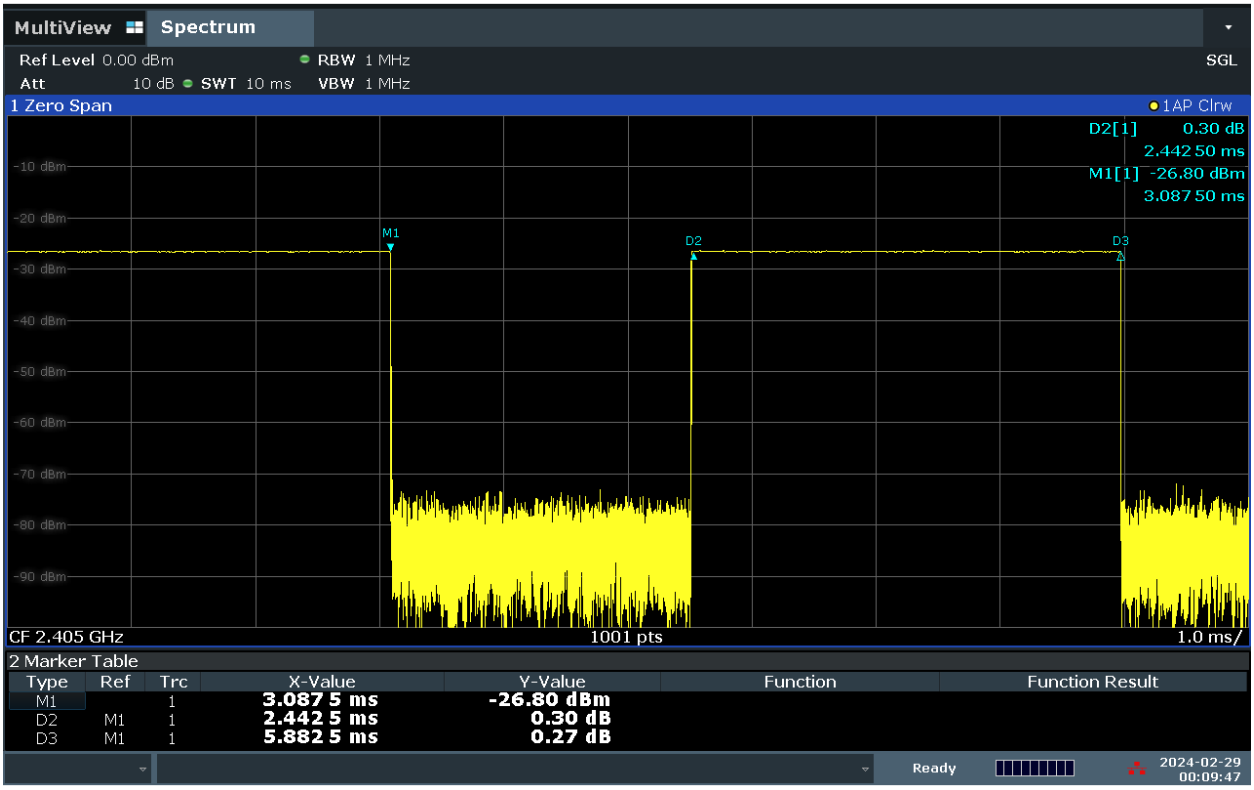
8.13 802.15.4 Duty Cycle Plots



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Note: Measured duty cycle as shown above is within the device maximum source-based duty cycle of 60%.

Figure 8-9
802.15.4 Transmission Plot – Antenna 4a/2a, Variant 1

Equation 8-5
802.15.4 Duty Cycle Calculation – Antenna 4a/2a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{3.440\ ms}{5.882\ ms} * 100\% = 58.5\%$$

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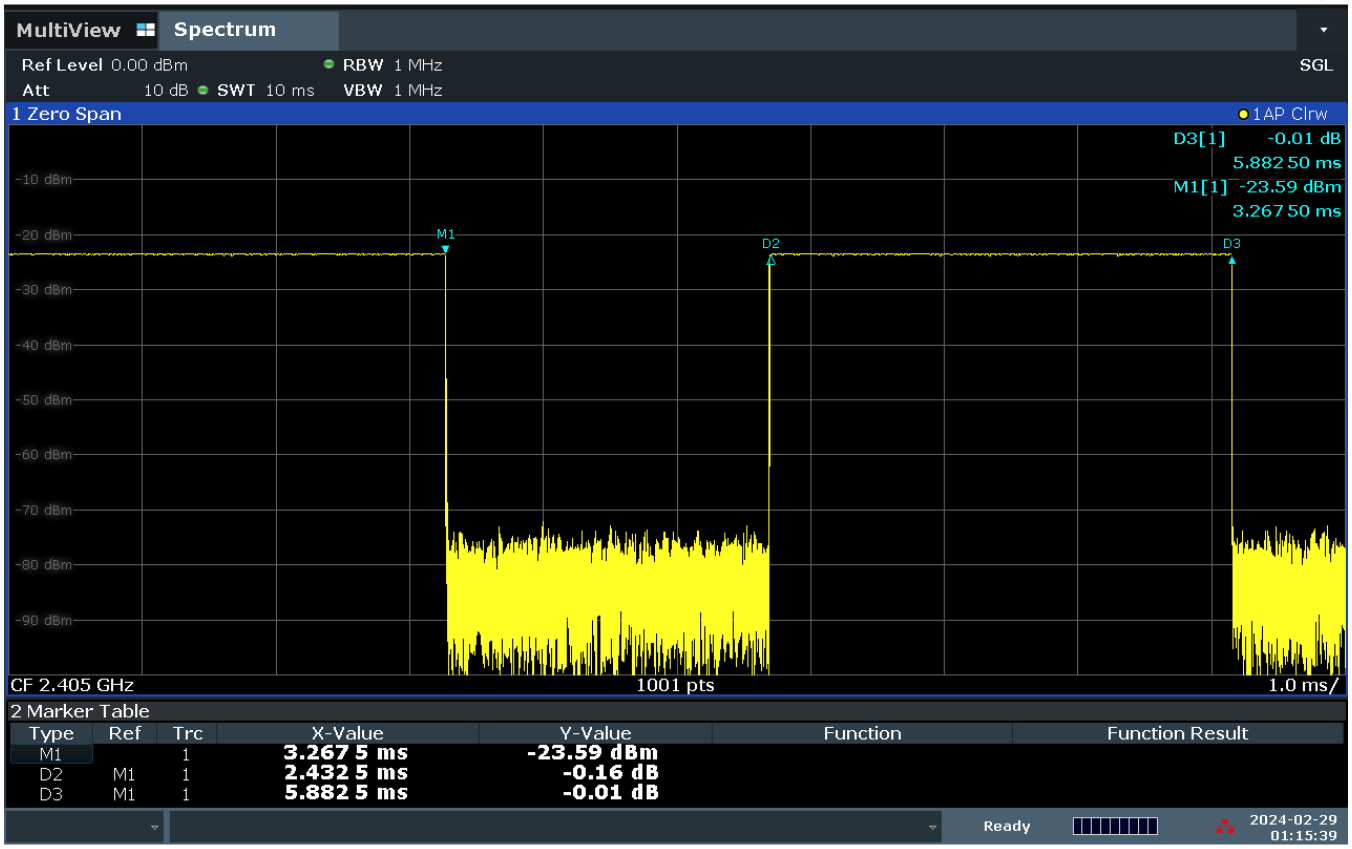

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Note: Measured duty cycle as shown above is within the device maximum source-based duty cycle of 60%.

Figure 8-10
802.15.4 Transmission Plot – Antenna 4a/2a, Variant 2

Equation 8-6
802.15.4 Duty Cycle Calculation – Antenna 4a/2a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{3.450\ ms}{5.882\ ms} * 100\% = 58.7\%$$

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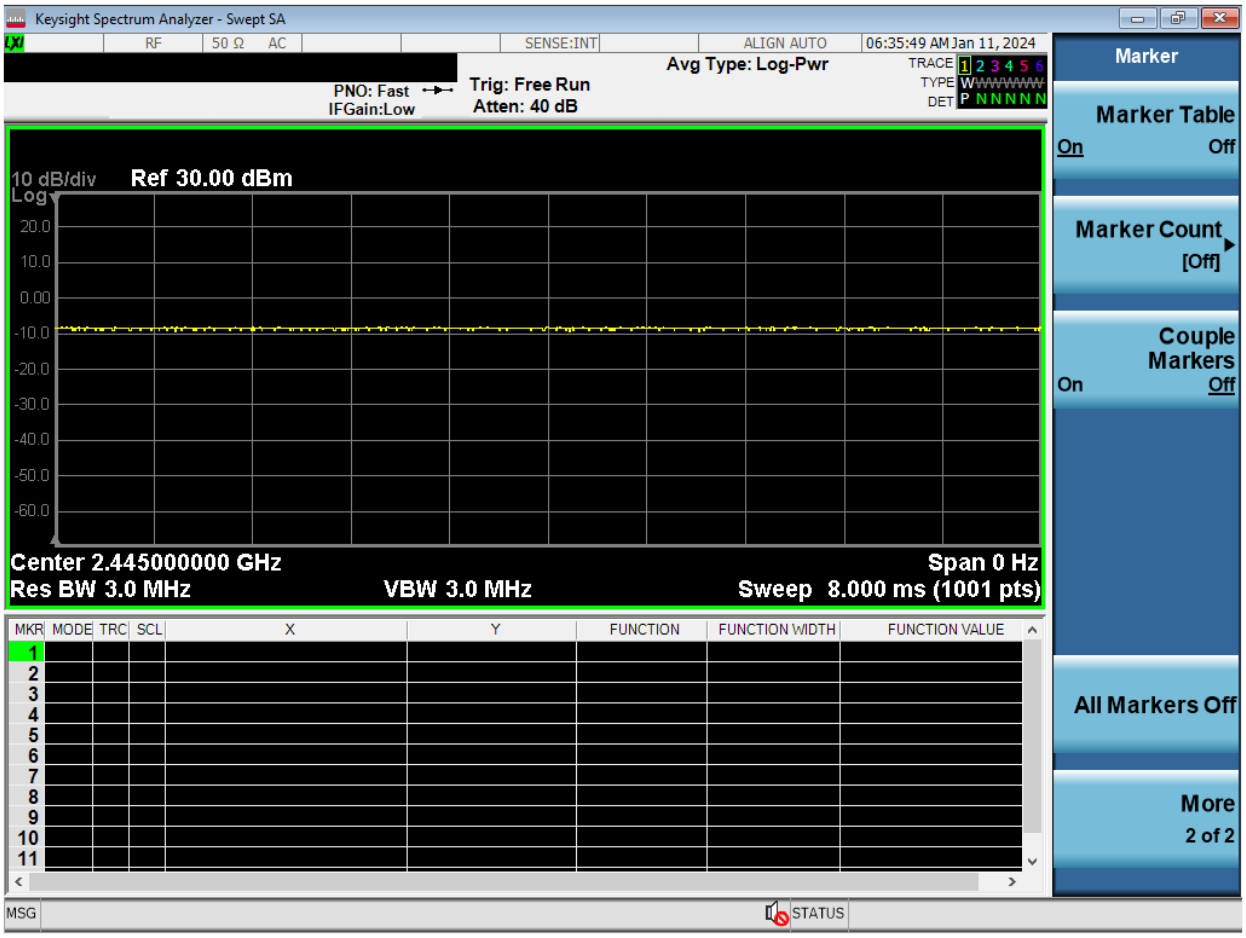

Note: Test mode measured duty cycle for 802.15.4 during SAR measurement.

Figure 8-11
802.15.4 Transmission Plot – Antenna 4a/2a, Variant 1 and 2

Equation 8-7
802.15.4 Duty Cycle Calculation – Antenna 4a/2a, Variant 1 and 2

$$Duty\ Cycle = 100\%$$

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8.14 Bluetooth Power Reduction Verification Summary

Table 8-170
Bluetooth Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
Ant 2A	2.4 GHz Bluetooth	Main Band 2B ON	13.5	10.5	11.96	7.94	PASS
	2.4 GHz Bluetooth	ULCA ON	13.5	6.5	11.96	4.69	PASS
	802.15.4	Main band Ant 1 ON and 5/6 GHZ WLAN 4A/5B/2A ON	13.5	7.5	11.89	4.92	PASS
	802.15.4	Main band Ant 2B ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	13.5	6.5	11.89	3.83	PASS
	802.15.4	Main band Ant 3 ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	13.5	7.5	11.89	5.03	PASS
	802.15.4	Main Band Ant 4B ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	13.5	7.5	11.89	4.94	PASS
	2.4 GHz Bluetooth	Main band Ant 1 ON and 5/6 GHZ WLAN 4A/5B/2A ON	13.5	7.5	11.96	5.71	PASS
	2.4 GHz Bluetooth	Main band Ant 2B ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	13.5	6.5	11.96	5.22	PASS
	2.4 GHz Bluetooth	Main band Ant 3 ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	13.5	7.5	11.96	5.6	PASS
	2.4 GHz Bluetooth	Main Band Ant 4B ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	13.5	7.5	11.96	5.64	PASS
	2.4 GHz Bluetooth	ULCA ON and 5/6 GHz WLAN 4A/5B/2A ON	13.5	6.5	11.96	4.79	PASS
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant 4A/5B/2A ON	13.5	7.5	11.96	5.75	PASS
Ant 4A	802.15.4	Main Band 4B ON	13	10	12.1	7.83	PASS
	802.15.4	ULCA ON	13	6	12.1	4.52	PASS
	2.4 GHz Bluetooth	Main Band 4B ON	12.5	9.5	11.68	8.47	PASS
	2.4 GHz Bluetooth	Main band Ant 1 ON and 5/6 GHZ WLAN 4A/5B/2A ON	12.5	6.5	11.68	5.38	PASS
	2.4 GHz Bluetooth	Main band Ant 2B ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	12.5	6.5	11.68	5.41	PASS
	2.4 GHz Bluetooth	Main band Ant 3 ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	12.5	6.5	11.68	5.48	PASS
	2.4 GHz Bluetooth	Main Band Ant 4B ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	12.5	5.5	11.68	4.43	PASS
	802.15.4	Main band Ant 1 ON and 5/6 GHZ WLAN 4A/5B/2A ON	13	7	12.1	5.65	PASS
	802.15.4	Main band Ant 2B ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	13	7	11.89	6.11	PASS
	802.15.4	Main Band Ant 4B ON and 5/6 GHz WLAN Ant 4A/5B/2A ON	13	6	12.1	4.57	PASS
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant 4A/5B/2A ON	12.5	6.5	11.68	5.81	PASS
	2.4 GHz Bluetooth	ULCA ON + 5/6 GHz WLAN Ant 4A/5B/2A ON	12.5	5.5	11.68	4.59	PASS
	802.15.4	ULCA ON and 5/6 GHz WLAN 4A/5B/2A ON	13	6	12.1	3.84	PASS
	802.15.4	5/6 GHz WLAN Ant 4A/5B/2A ON	13	7	12.1	5.12	PASS

Maximum power will not exceed minimum of (SAR max cap, Reg max cap). Power reduction backoff for simultaneous transmission is applied to SAR max cap for each antenna. Reduced power level will not exceed minimum of (SAR max cap-power reduction backoff, Reg max cap).

Per manufacturer, 2.4 GHz Bluetooth and 802.15.4 share the same antenna path and reduces with the same power backoff when it transmits simultaneously with cellular and 5/6 GHz WLAN antennas. Therefore, conducted power measurements were measured for both mode/band as shown above and applied condition. All conducted power measurements were verified to be below the maximum allowed.

8.15 Notes for Bluetooth/802.15.4

- The Bluetooth/802.15.4 chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- Bluetooth SAR worst case configuration was spotchecked on Variant 1 and Variant 2.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.

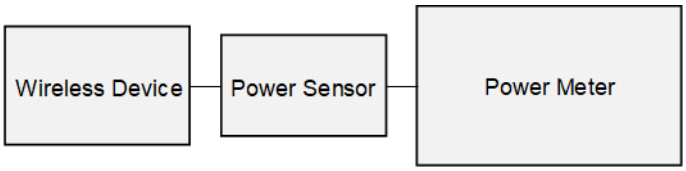

Figure 8-9
Power Measurement Setup

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8.16 NB UNII Maximum Conducted Powers

Table 8-171

NB UNII Average RF Power – Antenna WF5B, Variant 1

Type	Band	Frequency	Channel	Average
HDR-4	U-NII 1	5162	Low	11.32
		5204	Mid	11.23
		5245	High	11.10
BDR	U-NII 3	5733	Low	12.64
		5789	Mid	12.53
		5844	High	12.65

Table 8-172

NB UNII Average RF Power – Antenna WF5B, Variant 2

Type	Band	Frequency	Channel	Average
HDR-4	U-NII 1	5162	Low	11.42
		5204	Mid	11.61
		5245	High	11.54
BDR	U-NII 3	5733	Low	12.65
		5789	Mid	12.85
		5844	High	12.57

Table 8-173

NB UNII Average RF Power – Antenna 2a, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	8.75
		5204	Mid	8.84
		5245	High	8.92
BDR	U-NII 3	5733	Low	8.85
		5789	Mid	9.23
		5844	High	9.10

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Table 8-174

NB UNII Average RF Power – Antenna 2a, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	8.47
		5204	Mid	8.65
		5245	High	8.93
BDR	U-NII 3	5733	Low	9.07
		5789	Mid	9.13
		5844	High	9.03

Table 8-175

NB UNII Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	9.07
		5204	Mid	9.04
		5245	High	9.09
BDR	U-NII 3	5733	Low	10.26
		5789	Mid	9.88
		5844	High	9.70

Table 8-176

NB UNII Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	9.06
		5204	Mid	9.01
		5245	High	9.10
BDR	U-NII 3	5733	Low	10.13
		5789	Mid	9.83
		5844	High	9.82

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8.17 NB UNII Reduced Conducted Powers

Table 8-177

NB UNII 3 dB Reduced Average RF Power – Antenna 2a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	5.40
		5204	Mid	5.63
		5245	High	5.91
BDR	U-NII 3	5733	Low	6.10
		5789	Mid	5.95
		5844	High	5.75

Table 8-178

NB UNII 3 dB Reduced Average RF Power – Antenna 2a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	5.27
		5204	Mid	5.34
		5245	High	5.52
BDR	U-NII 3	5733	Low	6.07
		5789	Mid	5.89
		5844	High	6.05

Table 8-179

NB UNII 6 dB Reduced Average RF Power – Antenna 2a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	2.48
		5204	Mid	2.72
		5245	High	2.91
BDR	U-NII 3	5733	Low	3.43
		5789	Mid	3.27
		5844	High	3.12

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Table 8-180

NB UNII 6 dB Reduced Average RF Power – Antenna 2a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	2.13
		5204	Mid	2.32
		5245	High	2.48
BDR	U-NII 3	5733	Low	2.94
		5789	Mid	2.96
		5844	High	3.10

Table 8-181

NB UNII 7 dB Reduced Average RF Power – Antenna 2a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	1.43
		5204	Mid	1.27
		5245	High	1.30
BDR	U-NII 3	5733	Low	2.25
		5789	Mid	2.28
		5844	High	2.43

Table 8-182

NB UNII 7 dB Reduced Average RF Power – Antenna 2a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	1.45
		5204	Mid	1.34
		5245	High	1.39
BDR	U-NII 3	5733	Low	2.17
		5789	Mid	2.10
		5844	High	2.05

Table 8-183

NB UNII 3 dB Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	5.66
		5204	Mid	5.54
		5245	High	5.49
BDR	U-NII 3	5733	Low	5.91
		5789	Mid	6.07
		5844	High	6.09

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Table 8-184

NB UNII 3 dB Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	5.57
		5204	Mid	5.58
		5245	High	5.73
BDR	U-NII 3	5733	Low	6.58
		5789	Mid	6.01
		5844	High	6.28

Table 8-185

NB UNII 6 dB Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	2.62
		5204	Mid	2.57
		5245	High	2.66
BDR	U-NII 3	5733	Low	3.19
		5789	Mid	3.10
		5844	High	3.17

Table 8-186

NB UNII 6 dB Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	2.58
		5204	Mid	2.67
		5245	High	2.72
BDR	U-NII 3	5733	Low	3.72
		5789	Mid	3.04
		5844	High	3.38

Table 8-187

NB UNII 7 dB Reduced Average RF Power – Antenna 4a, Variant 1

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	1.36
		5204	Mid	1.47
		5245	High	1.63
BDR	U-NII 3	5733	Low	2.58
		5789	Mid	2.46
		5844	High	2.54

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Table 8-188

NB UNII 7 dB Reduced Average RF Power – Antenna 4a, Variant 2

Type	Band	Frequency	Frequency	Average
BDR	U-NII 1	5162	Low	1.61
		5204	Mid	1.49
		5245	High	1.73
BDR	U-NII 3	5733	Low	3.10
		5789	Mid	2.96
		5844	High	2.91

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8.18 NB UNII Duty Cycle Plots

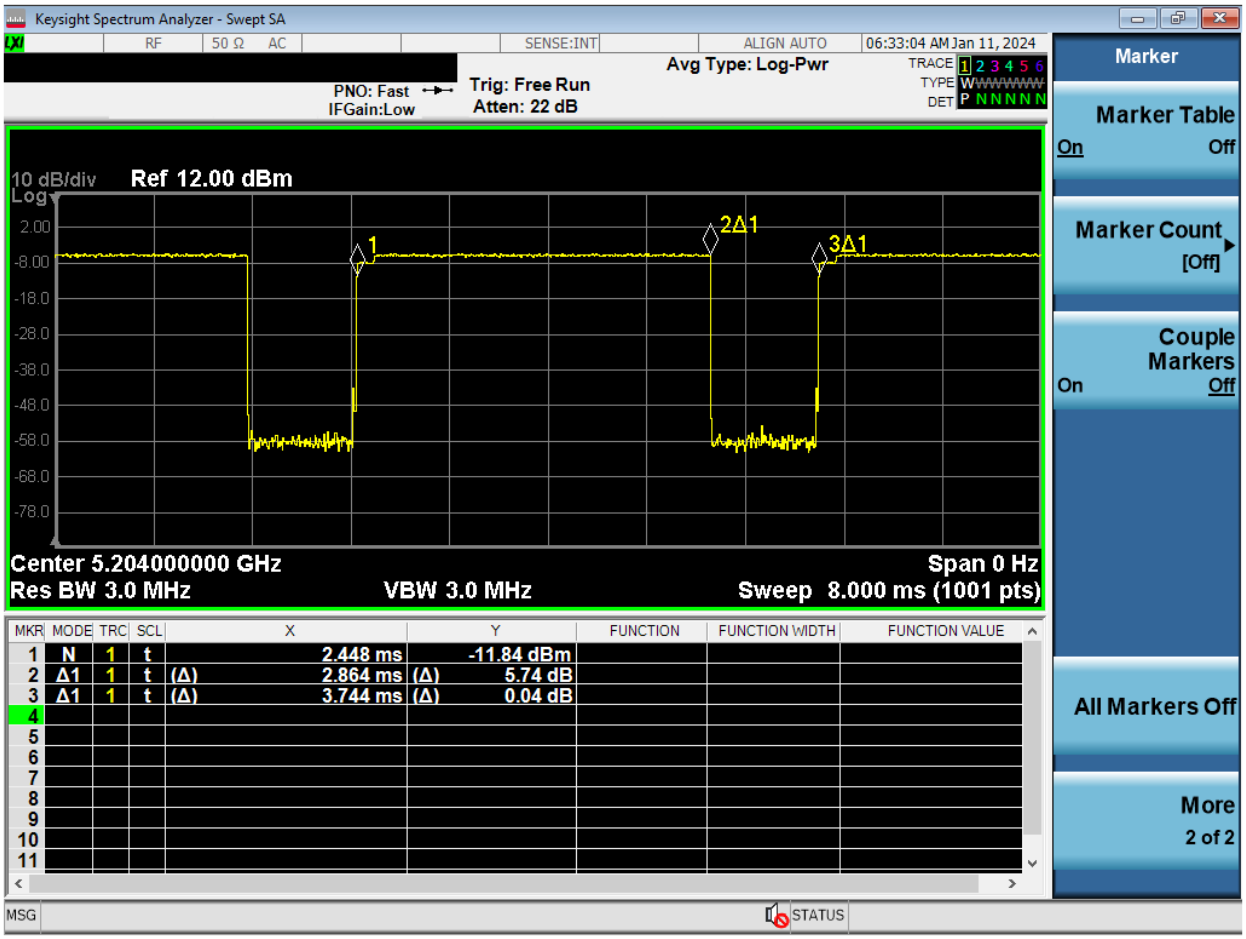

Figure 8-12
NB UNII-1 HDR4 Transmission Plot – Antenna WF5B, Variant 1

Equation 8-7
NB UNII-1 HDR4 Duty Cycle Calculation – Antenna WF5B, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.864\ ms}{3.744\ ms} * 100\% = 76.5\%$$

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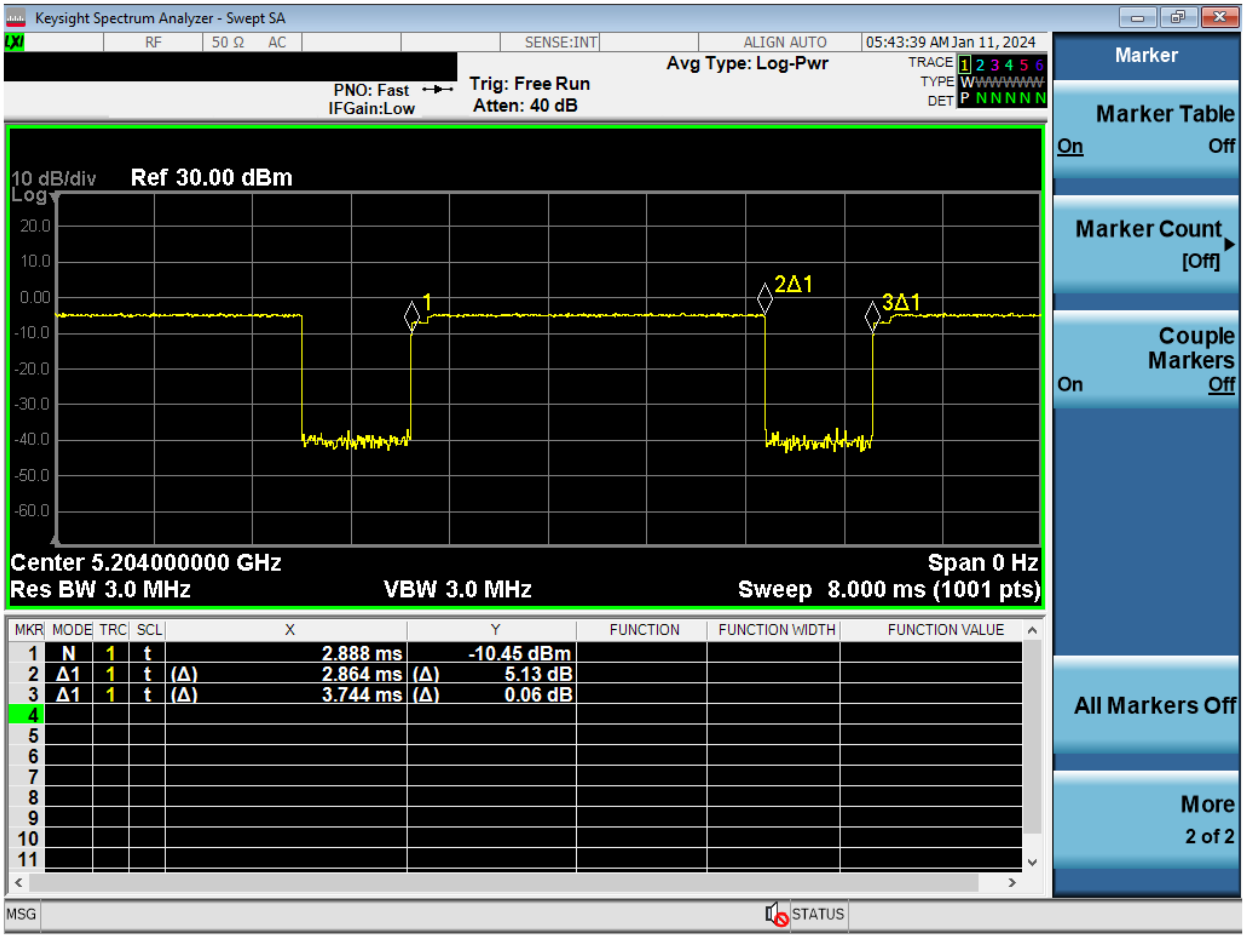

Figure 8-13
NB UNII-1 HDR4 Transmission Plot – Antenna WF5B, Variant 2

Equation 8-8
NB UNII-1 HDR4 Duty Cycle Calculation – Antenna WF5B, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.864\ ms}{3.744\ ms} * 100\% = 76.5\%$$

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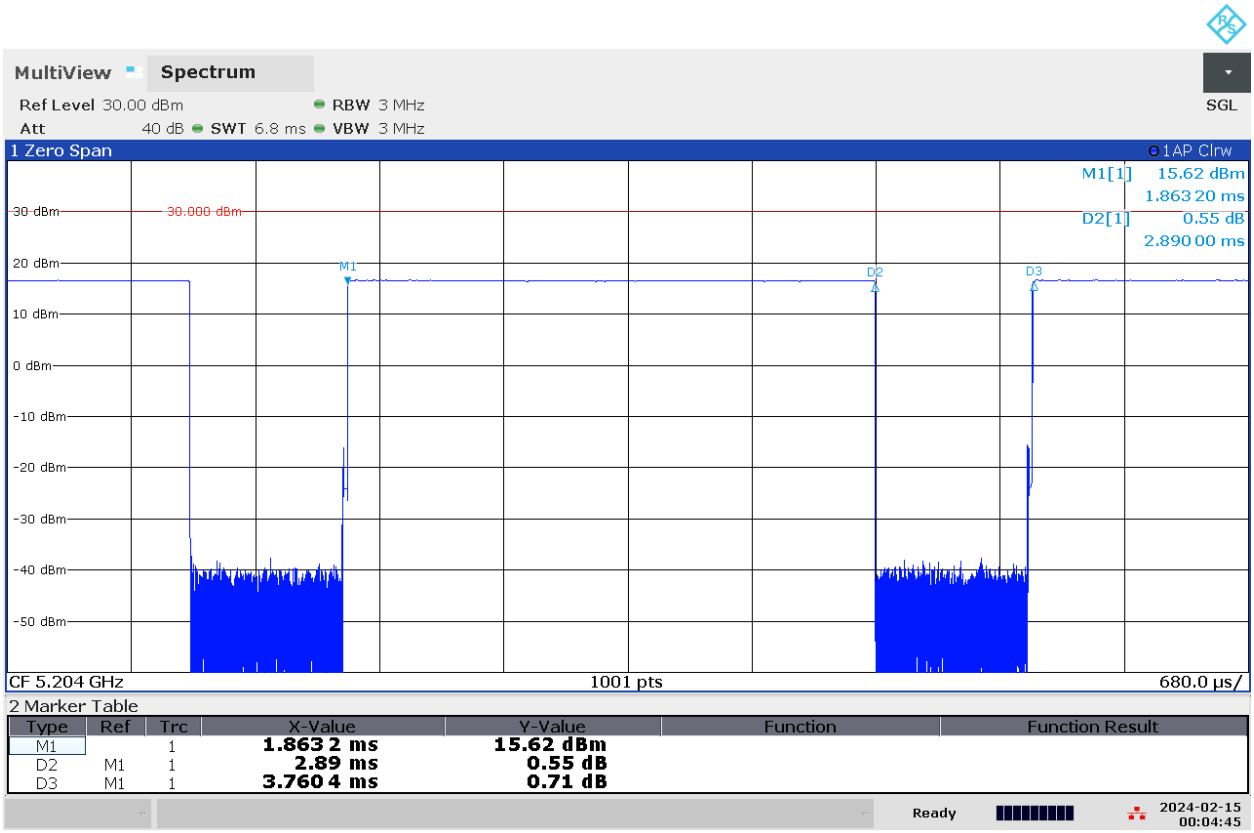

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Figure 8-14
NB UNII-1 BDR Transmission Plot – Antenna 4a, Variant 1

Equation 8-9
NB UNII-1 BDR Duty Cycle Calculation – Antenna 4a, Variant 1

$$\boldsymbol{Duty\ Cycle} = \frac{\boldsymbol{Pulse\ Width}}{\boldsymbol{Period}} * \mathbf{100\%} = \frac{\mathbf{2.89}\ \boldsymbol{ms}}{\mathbf{3.76}\ \boldsymbol{ms}} * \mathbf{100\%} = \mathbf{76.9\%}$$

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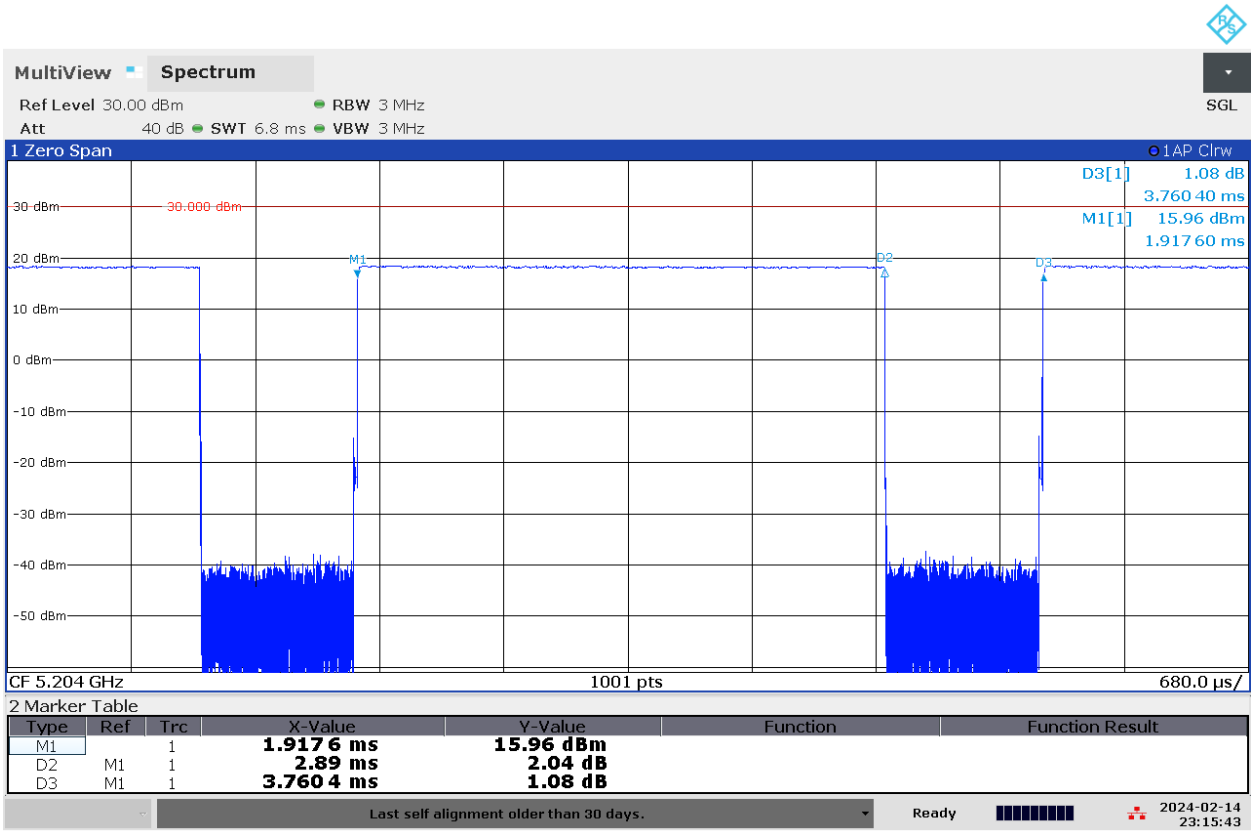

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Figure 8-15
NB UNII-1 BDR Transmission Plot – Antenna 4a, Variant 2

Equation 8-10
NB UNII-1 BDR Duty Cycle Calculation – Antenna 4a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.89\ ms}{3.76\ ms} * 100\% = 76.9\%$$

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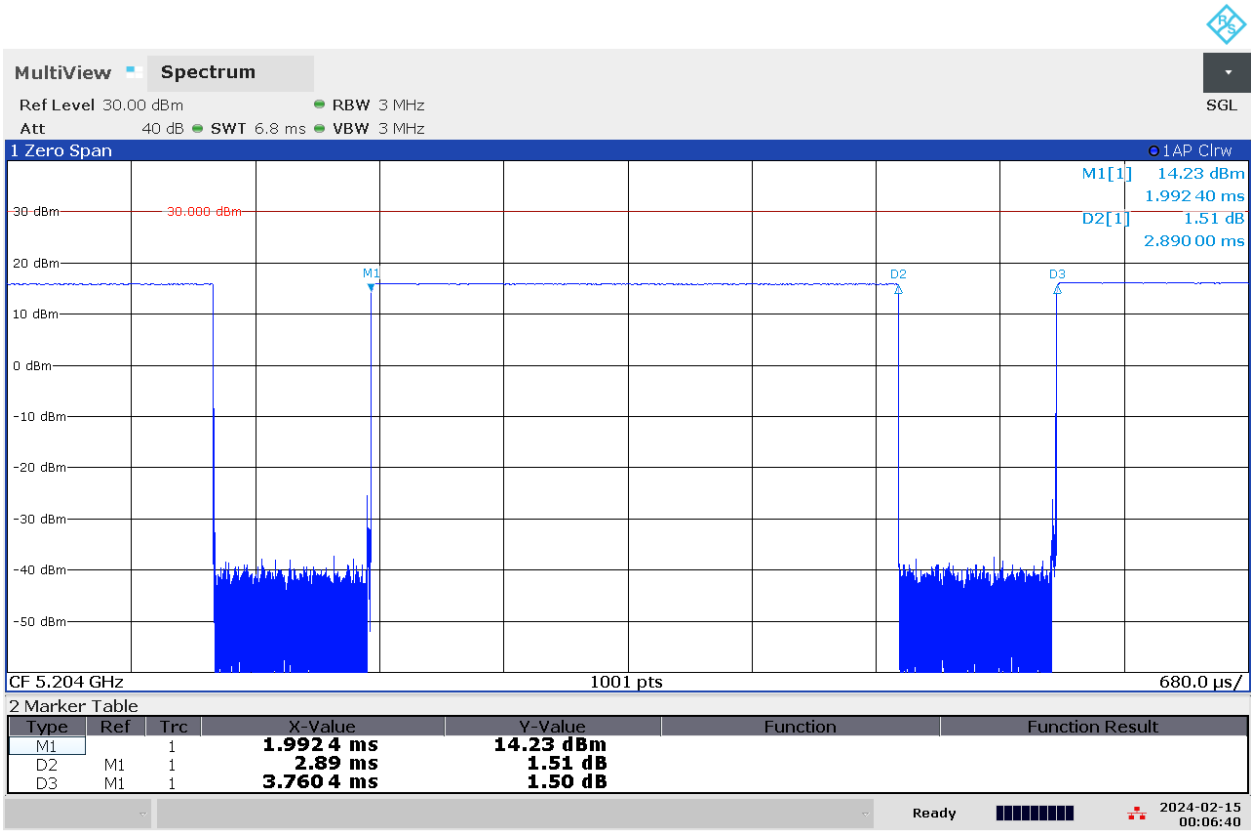

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Figure 8-16
NB UNII-1 BDR Transmission Plot – Antenna 2a, Variant 1

Equation 8-11
NB UNII-1 BDR Duty Cycle Calculation – Antenna 2a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.89\ ms}{3.76\ ms} * 100\% = 76.9\%$$

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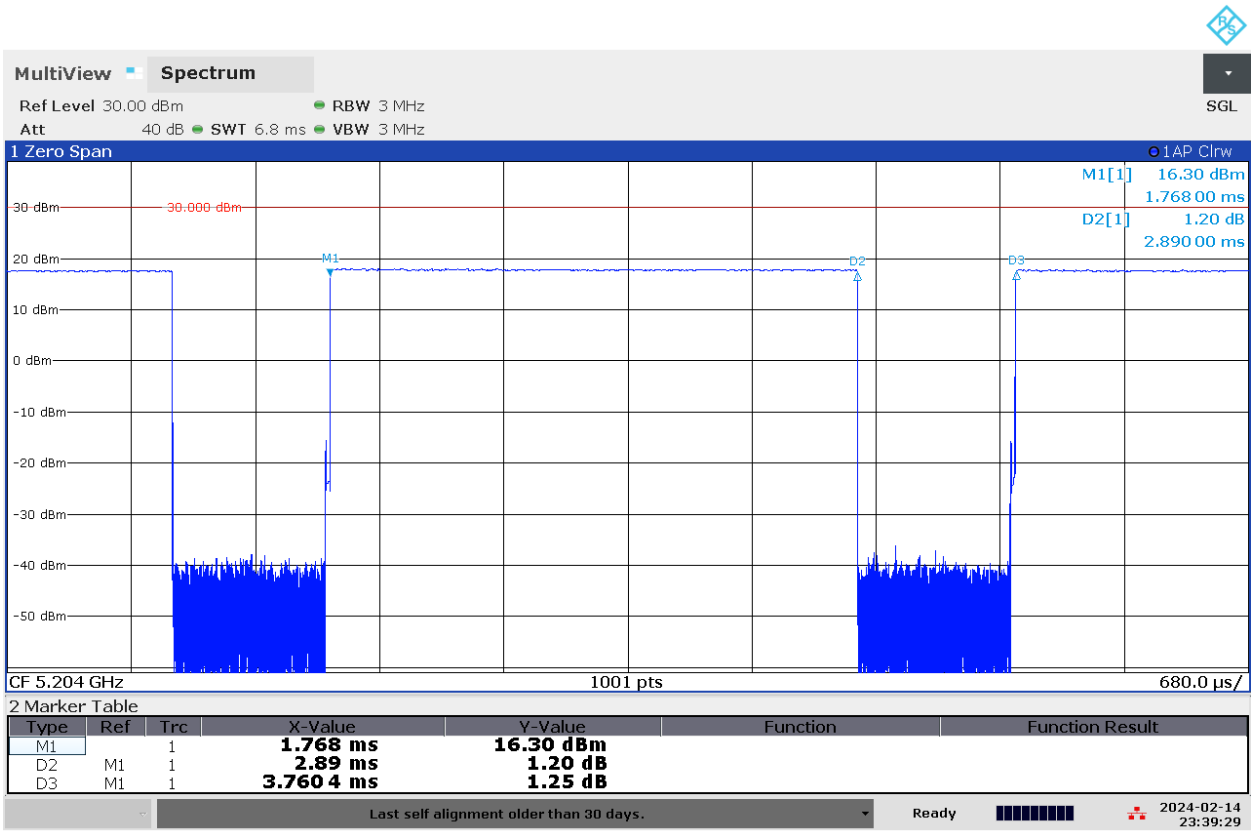

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Figure 8-17
NB UNII-1 BDR Transmission Plot – Antenna 2a, Variant 2

Equation 8-12
NB UNII-1 BDR Duty Cycle Calculation – Antenna 2a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.89\ ms}{3.76\ ms} * 100\% = 76.9\%$$

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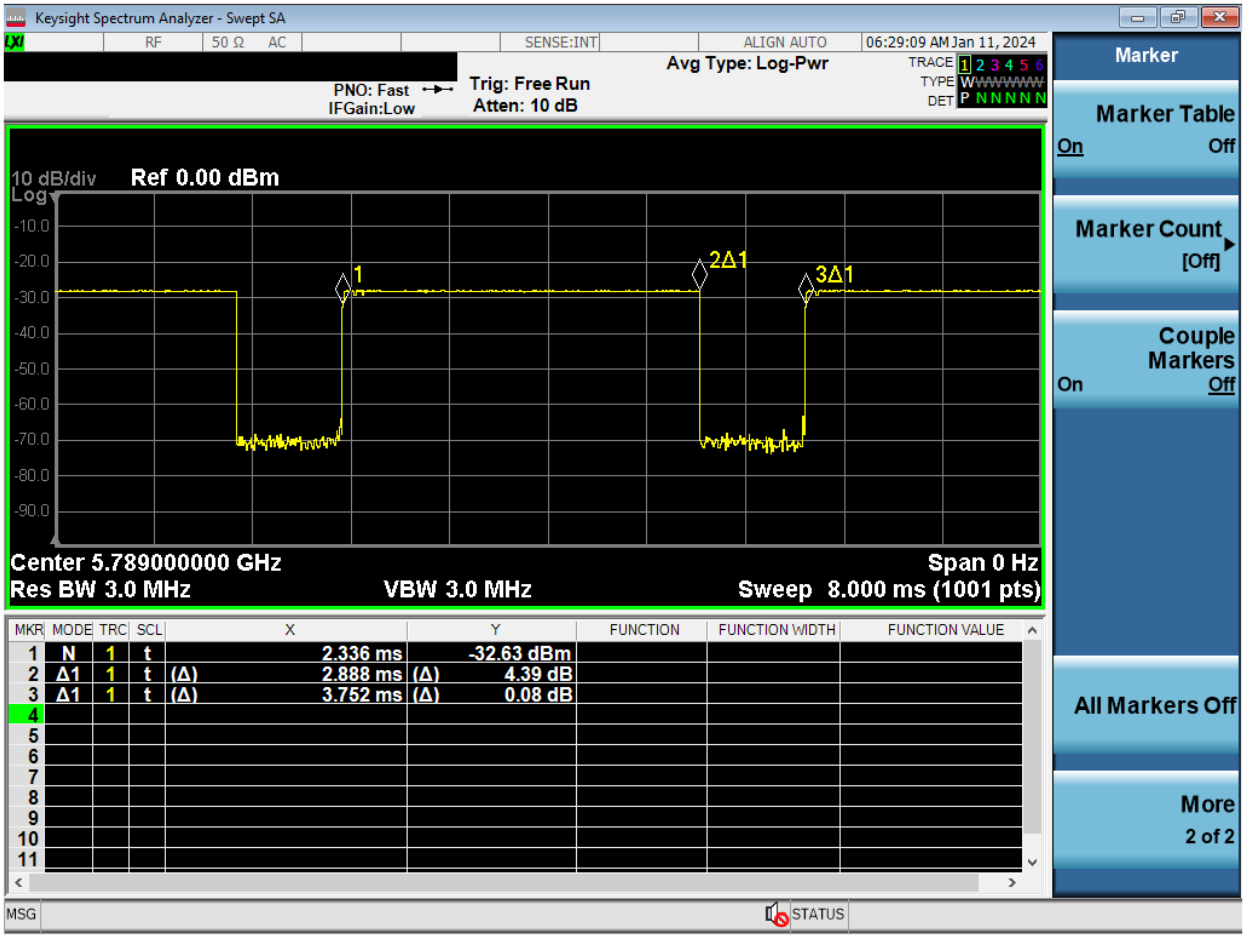

Figure 8-18
NB UNII-3 BDR Transmission Plot – Antenna WF5B, Variant 1

Equation 8-13
NB UNII-3 BDR Duty Cycle Calculation – Antenna WF5B, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

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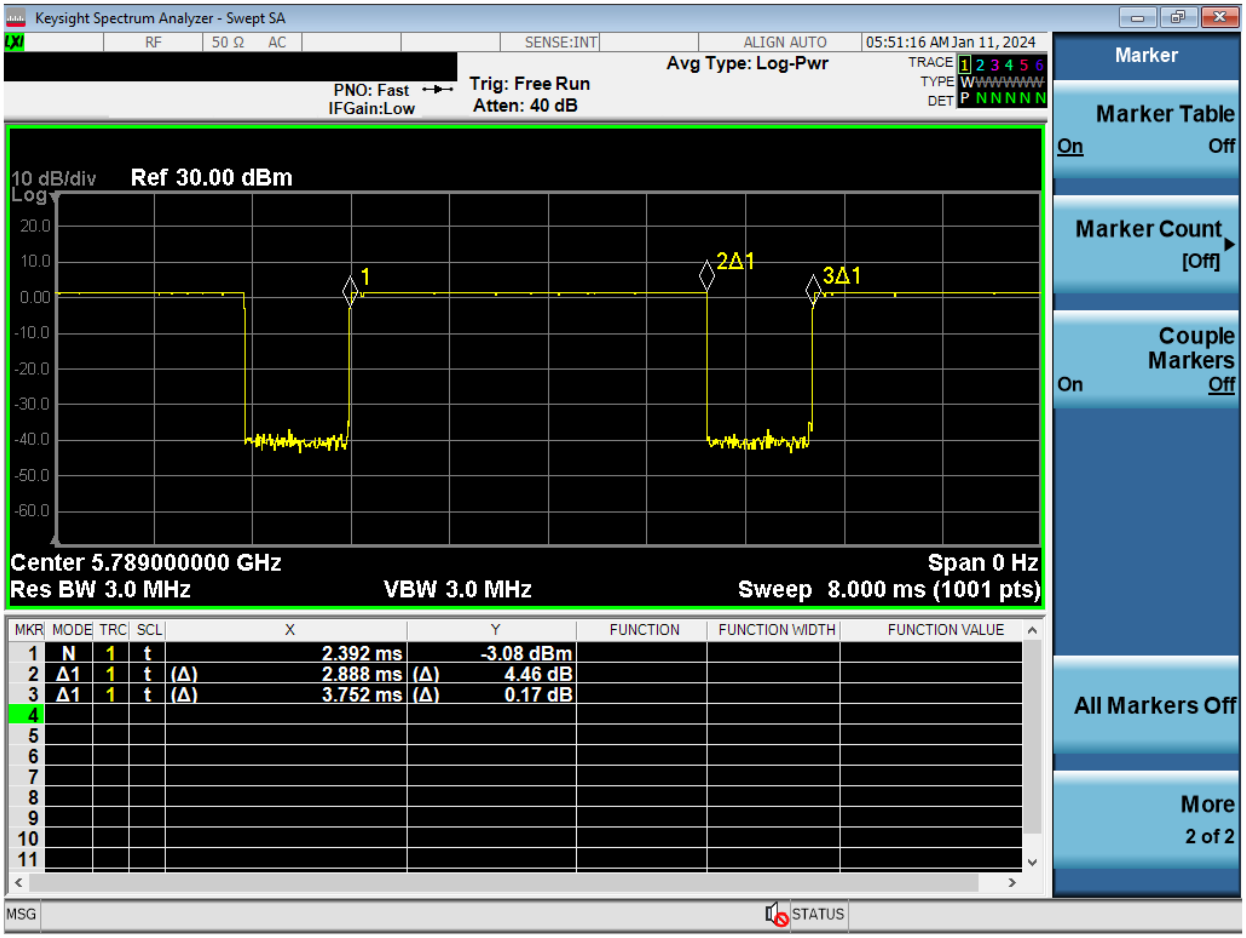

Figure 8-19
NB UNII-3 BDR Transmission Plot – Antenna WF5B, Variant 2

Equation 8-14
NB UNII-3 BDR Duty Cycle Calculation – Antenna WF5B, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

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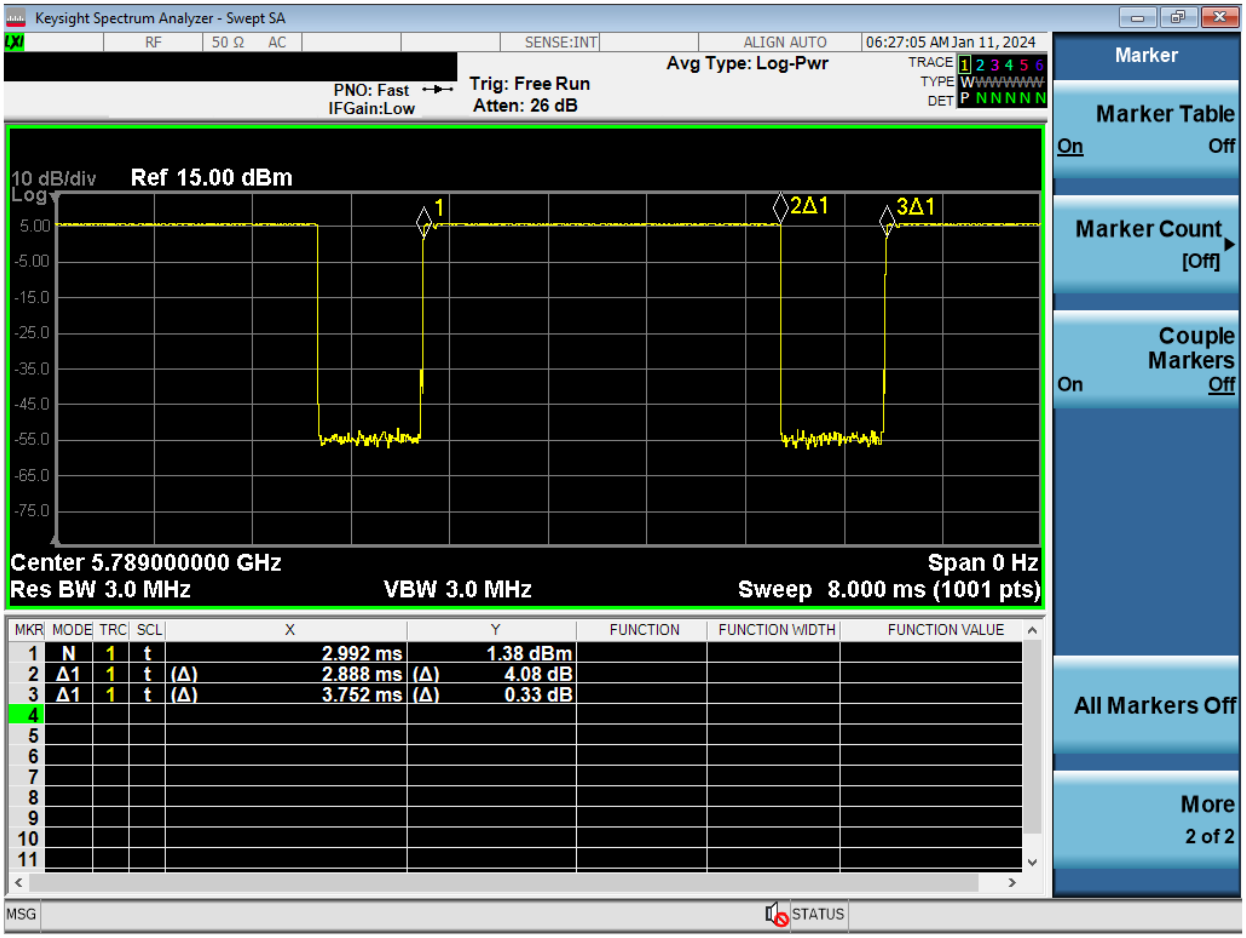

Figure 8-20
NB UNII-3 BDR Transmission Plot – Antenna 4a, Variant 1

Equation 8-15
NB UNII-3 BDR Duty Cycle Calculation – Antenna 4a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

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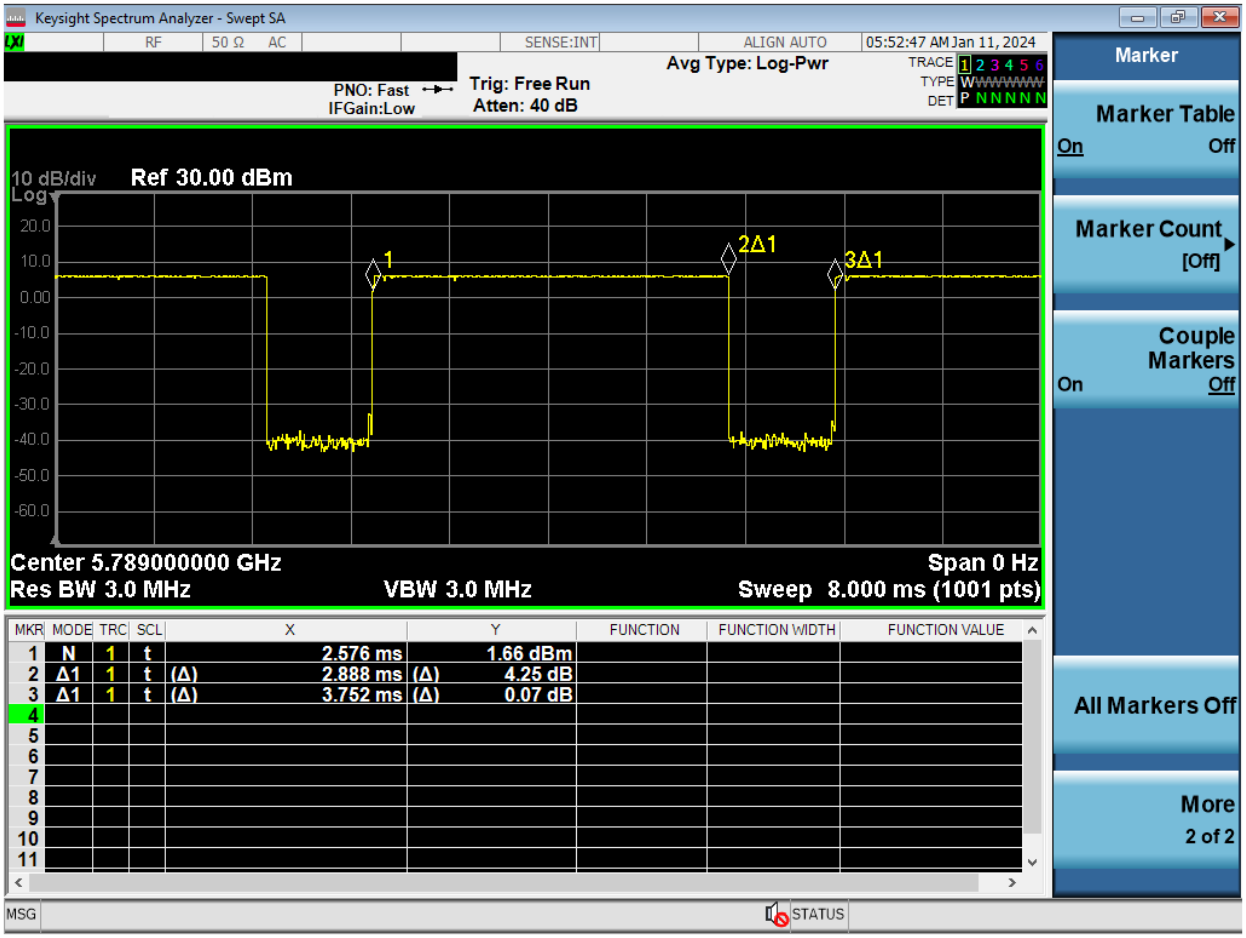

Figure 8-21
NB UNII-3 BDR Transmission Plot – Antenna 4a, Variant 2

Equation 8-16
NB UNII-3 BDR Duty Cycle Calculation – Antenna 4a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

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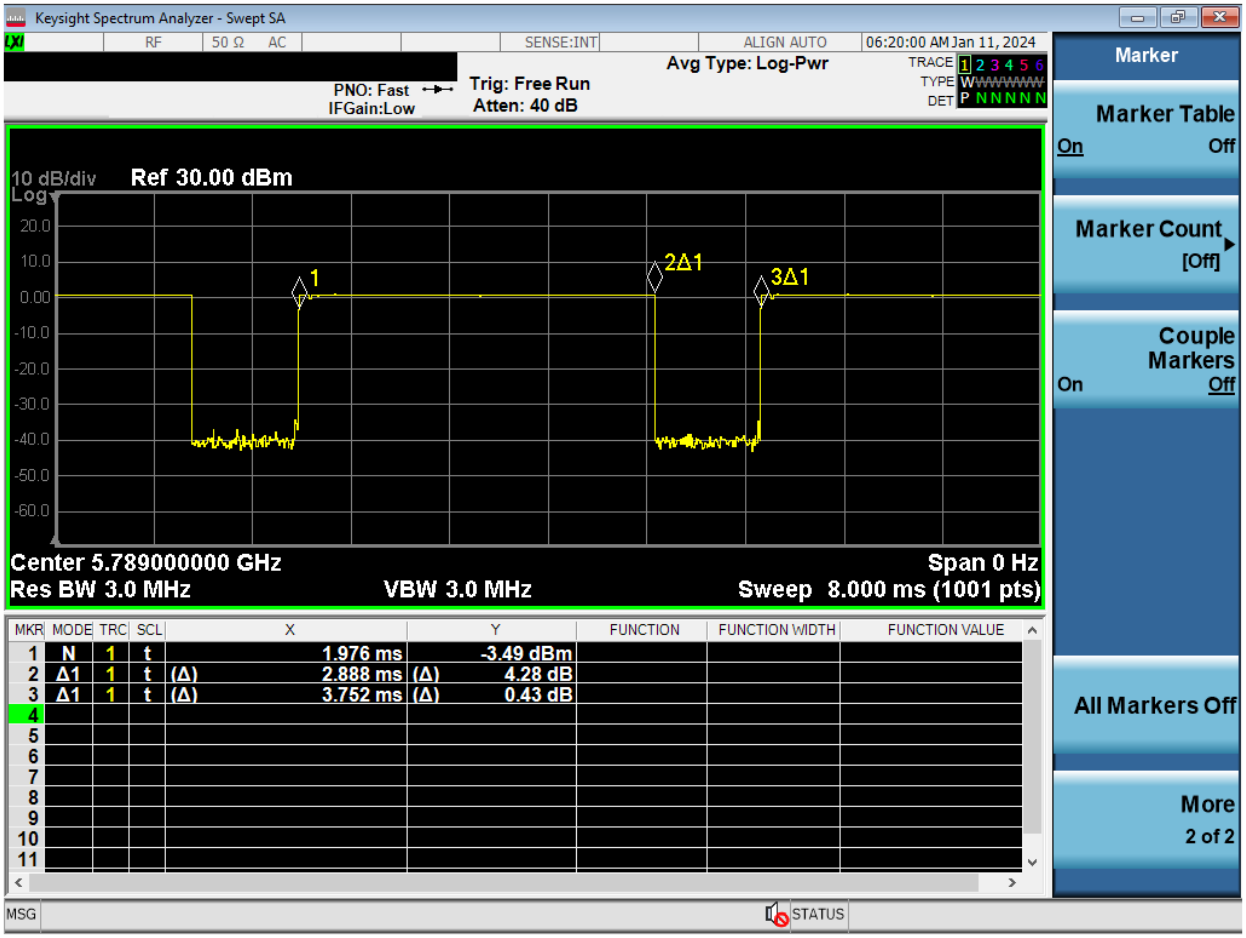

Figure 8-22
NB UNII-3 BDR Transmission Plot – Antenna 2a, Variant 1

Equation 8-17
NB UNII-3 BDR Duty Cycle Calculation – Antenna 2a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

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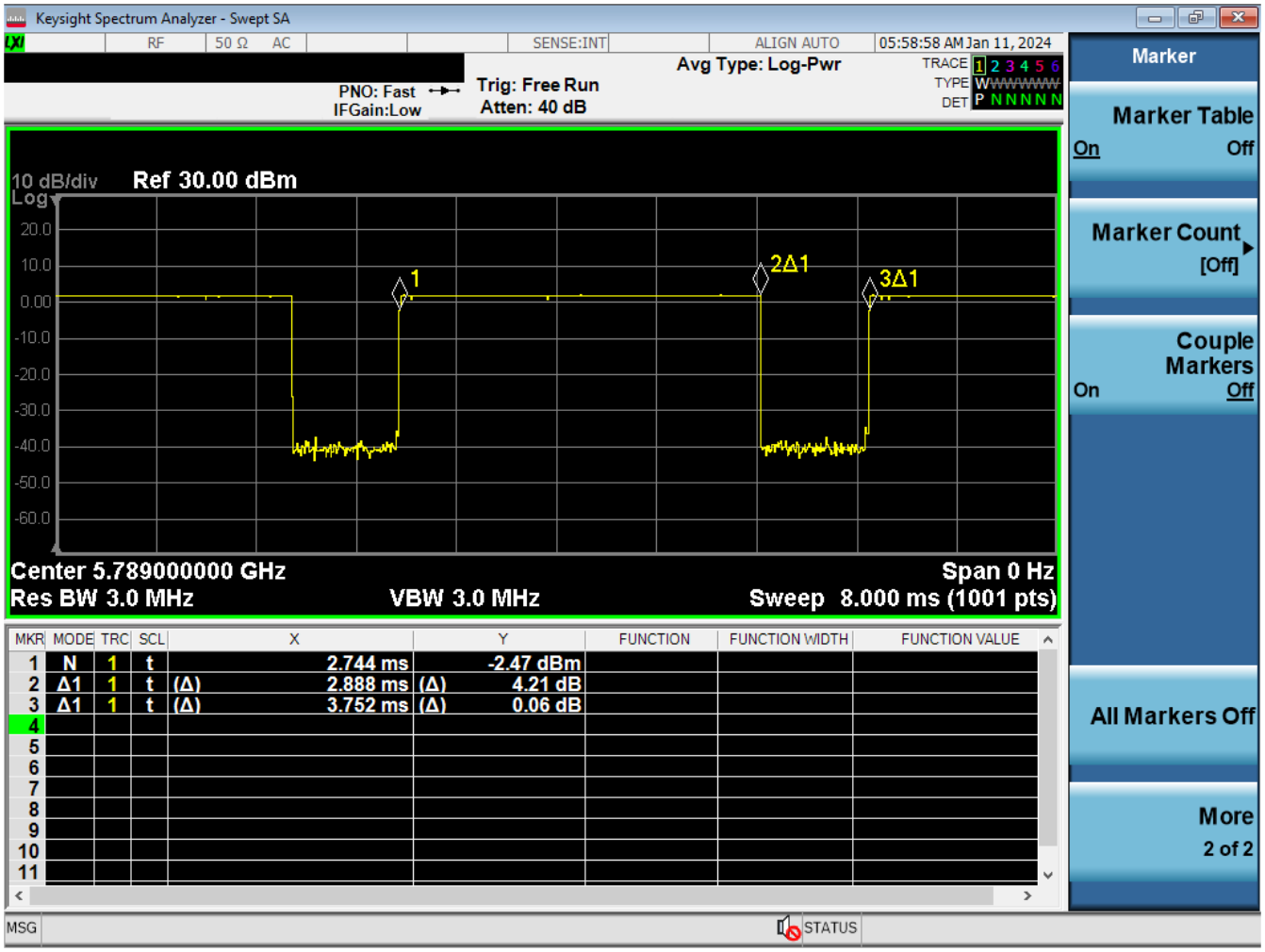

Figure 8-23
NB UNII-3 BDR Transmission Plot – Antenna 2a, Variant 2

Equation 8-18
NB UNII-3 BDR Duty Cycle Calculation – Antenna 2a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888\ ms}{3.752\ ms} * 100\% = 77.0\%$$

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8.19 NB UNII Reduction Verification Summary

Table 8-189
NB UNII Power Reduction Verification

Antenna	Mode/Band	Condition (s)	Maximum Scenario Maximum Allowed Tune Up Power [dBm]	Reduced Scenario Maximum Allowed Tune Up Power [dBm]	Maximum Measured Power [dBm]	Reduced Measured Power [dBm]	Verdict
Ant 2A	NB UNII	Main Band 2B ON	10.5	7.5	8.89	5.89	PASS
	NB UNII	ULCA ON	10.5	3.5	8.89	2.04	PASS
	NB UNII	2.4 GHz WLAN Ant 4A/2A ON	10.5	4.5	8.89	3.59	PASS
	NB UNII	ULCA ON an 2.4 GHz WLAN 4A/2A ON	10.5	3.5	8.89	2.01	PASS
	NB UNII	Main band Ant 1 ON and 2.4 GHZ WLAN 4A/2A ON	10.5	4.5	8.89	3.43	PASS
	NB UNII	Main band Ant 2B ON and 2.4 GHZ WLAN 4A/2A ON	10.5	3.5	8.89	2.62	PASS
	NB UNII	Main band Ant 3 ON and 2.4 GHZ WLAN 4A/2A ON	10.5	4.5	8.89	2.79	PASS
	NB UNII	Main band Ant 4B ON and 2.4 GHZ WLAN 4A/2A ON	10.5	4.5	8.89	3.02	PASS
Ant WF5B	NB UNII	ULCA ON	13.5	13.5	11.31	11.28	PASS
	NB UNII	2.4 GHz WLAN Ant 4A/2A ON	13.5	13.5	11.31	11.32	PASS
	NB UNII	ULCA ON an 2.4 GHz WLAN 4A/2A ON	13.5	13.5	11.31	11.2	PASS
	NB UNII	Main band Ant 1 ON and 2.4 GHZ WLAN 4A/2A ON	13.5	13.5	11.31	11.33	PASS
	NB UNII	Main band Ant 2B ON and 2.4 GHZ WLAN 4A/2A ON	13.5	13.5	11.31	11.13	PASS
	NB UNII	Main band Ant 3 ON and 2.4 GHZ WLAN 4A/2A ON	13.5	13.5	11.31	11.32	PASS
	NB UNII	Main band Ant 4B ON and 2.4 GHZ WLAN 4A/2A ON	13.5	13.5	11.31	11.29	PASS
Ant 4A	NB UNII	Main Band 4B ON	10.5	7.5	9.76	6.43	PASS
	NB UNII	ULCA ON	10.5	3.5	9.76	3.11	PASS
	NB UNII	2.4 GHz WLAN Ant 4A/2A ON	10.5	4.5	9.76	2.87	PASS
	NB UNII	ULCA ON an 2.4 GHz WLAN 4A/2A ON	10.5	3.5	9.76	3.17	PASS
	NB UNII	Main band Ant 1 ON and 2.4 GHZ WLAN 4A/2A ON	10.5	4.5	9.76	3.24	PASS
	NB UNII	Main band Ant 2B ON and 2.4 GHZ WLAN 4A/2A ON	10.5	4.5	9.76	3.48	PASS
	NB UNII	Main band Ant 3 ON and 2.4 GHZ WLAN 4A/2A ON	10.5	4.5	9.76	3.44	PASS
	NB UNII	Main band Ant 4B ON and 2.4 GHZ WLAN 4A/2A ON	10.5	3.5	9.76	2.43	PASS

Maximum power will not exceed minimum of (SAR max cap, Reg max cap). Power reduction backoff for simultaneous transmission is applied to SAR max cap for each antenna. Reduced power level will not exceed minimum of (SAR max cap-power reduction backoff, Reg max cap).

Conducted powers were measured for each mode/band and applied condition. All conducted power measurements were verified to be below the maximum allowed.

8.20 Notes for NB UNII

- The NB-UNII chipset in this device is produced by two different suppliers. The electrically identical modules are manufactured with identical mechanical structures to meet the same specifications and functions. Two device variants are referenced as Variant 1 and Variant 2 in this report.
- NB-UNII SAR worst case configuration was spot checked on Variant 1 and Variant 2.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.

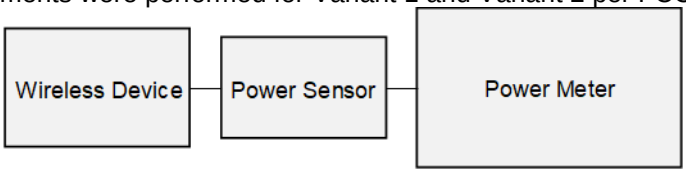

Figure 8-10
Power Measurement Setup

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured 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
02/14/2024	30 Head	22.5	12	0.727	53.515	0.750	55.000	-3.07%	-2.70%
			13	0.727	53.480	0.750	55.000	-3.07%	-2.76%
			14	0.727	53.404	0.750	55.000	-3.07%	-2.90%
			30	0.730	52.704	0.750	55.000	-2.67%	-4.17%
			60	0.735	52.001	0.753	54.325	-2.39%	-4.28%
			65	0.736	51.916	0.753	54.213	-2.26%	-4.24%
01/06/2024	750 Head	24.9	680	0.855	42.437	0.888	42.305	-3.72%	0.31%
			695	0.859	42.392	0.889	42.227	-3.37%	0.39%
			700	0.861	42.376	0.889	42.201	-3.15%	0.41%
			710	0.864	42.346	0.890	42.149	-2.92%	0.47%
			725	0.869	42.298	0.891	42.071	-2.47%	0.54%
			750	0.876	42.215	0.894	41.942	-2.01%	0.65%
			770	0.882	42.155	0.895	41.838	-1.45%	0.76%
			785	0.887	42.113	0.896	41.760	-1.00%	0.85%
			800	0.892	42.071	0.897	41.682	-0.56%	0.93%
01/08/2024	750 Head	19.8	680	0.846	44.019	0.888	42.305	-4.73%	4.05%
			695	0.851	43.968	0.889	42.227	-4.27%	4.12%
			700	0.853	43.955	0.889	42.201	-4.05%	4.16%
			710	0.857	43.922	0.890	42.149	-3.71%	4.21%
			725	0.862	43.874	0.891	42.071	-3.25%	4.29%
			750	0.870	43.804	0.894	41.942	-2.68%	4.44%
			770	0.877	43.734	0.895	41.838	-2.01%	4.53%
			785	0.884	43.689	0.896	41.760	-1.34%	4.62%
			800	0.890	43.638	0.897	41.682	-0.78%	4.69%
01/14/2024	750 Head	24.5	680	0.858	42.084	0.888	42.305	-3.38%	-0.52%
			695	0.862	42.055	0.889	42.227	-3.04%	-0.41%
			710	0.866	42.031	0.890	42.149	-2.70%	-0.28%
			725	0.871	41.994	0.891	42.071	-2.24%	-0.18%
			750	0.879	41.897	0.894	41.942	-1.68%	-0.11%
			770	0.886	41.832	0.895	41.838	-1.01%	-0.01%
			785	0.891	41.800	0.896	41.760	-0.56%	0.10%
			800	0.896	41.777	0.897	41.682	-0.11%	0.23%
01/18/2024	750 Head	22.3	680	0.853	40.872	0.888	42.305	-3.94%	-3.39%
			695	0.858	40.834	0.889	42.227	-3.49%	-3.30%
			700	0.859	40.823	0.889	42.201	-3.37%	-3.27%
			710	0.863	40.797	0.890	42.149	-3.03%	-3.21%
			725	0.867	40.751	0.891	42.071	-2.69%	-3.14%
			750	0.876	40.683	0.894	41.942	-2.01%	-3.00%
			770	0.883	40.631	0.895	41.838	-1.34%	-2.88%
			785	0.889	40.595	0.896	41.760	-0.78%	-2.79%
			800	0.894	40.554	0.897	41.682	-0.33%	-2.71%
01/18/2024	750 Head	24.9	680	0.847	42.315	0.888	42.305	-4.62%	0.02%
			695	0.852	42.270	0.889	42.227	-4.16%	0.10%
			710	0.856	42.236	0.890	42.149	-3.82%	0.21%
			725	0.860	42.206	0.891	42.071	-3.48%	0.32%
			750	0.866	42.123	0.894	41.942	-3.13%	0.43%
			770	0.872	42.054	0.895	41.838	-2.57%	0.52%
			785	0.877	42.000	0.896	41.760	-2.12%	0.57%
			800	0.882	41.956	0.897	41.682	-1.67%	0.66%

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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
01/04/2024	835 Head	20.0	815	0.878	42.637	0.898	41.594	-2.23%	2.51%
			820	0.880	42.618	0.899	41.578	-2.11%	2.50%
			835	0.885	42.566	0.900	41.500	-1.67%	2.57%
			850	0.891	42.518	0.916	41.500	-2.73%	2.45%
01/08/2024	835 Head	20.0	815	0.878	41.272	0.898	41.594	-2.23%	-0.77%
			820	0.880	41.257	0.899	41.578	-2.11%	-0.77%
			835	0.886	41.212	0.900	41.500	-1.56%	-0.69%
			850	0.890	41.179	0.916	41.500	-2.84%	-0.77%
01/11/2024	835 Head	19.2	815	0.860	41.198	0.898	41.594	-4.23%	-0.95%
			820	0.862	41.178	0.899	41.578	-4.12%	-0.96%
			835	0.868	41.139	0.900	41.500	-3.56%	-0.87%
			850	0.873	41.106	0.916	41.500	-4.69%	-0.95%
01/16/2024	1750 Head	20.2	1700	1.329	39.614	1.343	40.145	-1.04%	-1.32%
			1705	1.334	39.591	1.345	40.141	-0.82%	-1.37%
			1710	1.339	39.568	1.348	40.136	-0.67%	-1.42%
			1720	1.349	39.517	1.354	40.126	-0.37%	-1.52%
			1745	1.375	39.416	1.368	40.087	0.51%	-1.67%
			1750	1.380	39.397	1.371	40.079	0.66%	-1.70%
			1770	1.401	39.325	1.383	40.047	1.30%	-1.80%
			1790	1.419	39.236	1.394	40.016	1.79%	-1.95%
01/18/2024	1750 Head	20.7	1700	1.292	39.724	1.343	40.145	-3.80%	-1.05%
			1705	1.297	39.704	1.345	40.141	-3.57%	-1.09%
			1710	1.302	39.683	1.348	40.136	-3.41%	-1.13%
			1720	1.311	39.647	1.354	40.126	-3.18%	-1.19%
			1745	1.334	39.543	1.368	40.087	-2.49%	-1.36%
			1750	1.338	39.518	1.371	40.079	-2.41%	-1.40%
			1770	1.357	39.424	1.383	40.047	-1.88%	-1.56%
			1790	1.376	39.335	1.394	40.016	-1.29%	-1.70%
01/18/2024	1900 Head	21.3	1850	1.364	38.271	1.400	40.000	-2.57%	-4.32%
			1860	1.370	38.258	1.400	40.000	-2.14%	-4.35%
			1880	1.381	38.235	1.400	40.000	-1.36%	-4.41%
			1900	1.394	38.217	1.400	40.000	-0.43%	-4.46%
			1905	1.397	38.213	1.400	40.000	-0.21%	-4.47%
			1910	1.400	38.209	1.400	40.000	0.00%	-4.48%
			1920	1.407	38.200	1.400	40.000	0.50%	-4.50%
01/23/2024	1900 Head	20.6	1850	1.356	38.809	1.400	40.000	-3.14%	-2.98%
			1860	1.361	38.795	1.400	40.000	-2.79%	-3.01%
			1880	1.372	38.768	1.400	40.000	-2.00%	-3.08%
			1900	1.384	38.739	1.400	40.000	-1.14%	-3.15%
			1905	1.387	38.733	1.400	40.000	-0.93%	-3.17%
			1910	1.390	38.725	1.400	40.000	-0.71%	-3.19%
			1920	1.397	38.711	1.400	40.000	-0.21%	-3.22%
01/04/2024	2450 Head	24.8	2300	1.687	38.766	1.670	39.500	1.02%	-1.86%
			2310	1.699	38.727	1.679	39.480	1.19%	-1.91%
			2320	1.710	38.688	1.687	39.460	1.36%	-1.96%
			2400	1.800	38.380	1.756	39.289	2.51%	-2.31%
			2450	1.858	38.181	1.800	39.200	3.22%	-2.60%
			2480	1.893	38.072	1.833	39.162	3.27%	-2.78%
			2500	1.916	37.998	1.855	39.136	3.29%	-2.91%
			2510	1.929	37.958	1.866	39.123	3.38%	-2.98%
			2535	1.959	37.857	1.893	39.092	3.49%	-3.16%
			2550	1.977	37.800	1.909	39.073	3.56%	-3.26%
			2560	1.989	37.762	1.920	39.060	3.59%	-3.32%
			2600	2.036	37.592	1.964	39.009	3.67%	-3.63%
			2650	2.098	37.397	2.018	38.945	3.96%	-3.97%
			2680	2.132	37.270	2.051	38.907	3.95%	-4.21%
			2700	2.155	37.178	2.073	38.882	3.96%	-4.38%

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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
01/12/2024	2450 Head	20.3	2300	1.643	41.154	1.670	39.500	-1.62%	4.19%
			2310	1.650	41.138	1.679	39.480	-1.73%	4.20%
			2320	1.658	41.124	1.687	39.460	-1.72%	4.22%
			2400	1.720	41.014	1.756	39.289	-2.05%	4.39%
			2450	1.761	40.936	1.800	39.200	-2.17%	4.43%
			2480	1.783	40.880	1.833	39.162	-2.73%	4.39%
			2500	1.801	40.853	1.855	39.136	-2.91%	4.39%
			2510	1.810	40.840	1.866	39.123	-3.00%	4.39%
			2535	1.831	40.810	1.893	39.092	-3.28%	4.39%
			2550	1.843	40.792	1.909	39.073	-3.46%	4.40%
			2560	1.851	40.777	1.920	39.060	-3.59%	4.40%
			2600	1.886	40.683	1.964	39.009	-3.97%	4.29%
			2650	1.932	40.617	2.018	38.945	-4.26%	4.29%
			2680	1.956	40.565	2.051	38.907	-4.63%	4.26%
			2700	1.972	40.516	2.073	38.882	-4.87%	4.20%
01/17/2024	2450 Head	24.4	2300	1.733	38.018	1.670	39.500	3.77%	-3.75%
			2310	1.739	37.995	1.679	39.480	3.57%	-3.76%
			2320	1.746	37.973	1.687	39.460	3.50%	-3.77%
			2400	1.801	37.889	1.756	39.289	2.56%	-3.56%
			2450	1.836	37.787	1.800	39.200	2.00%	-3.60%
			2480	1.860	37.772	1.833	39.162	1.47%	-3.55%
			2500	1.872	37.758	1.855	39.136	0.92%	-3.52%
			2510	1.878	37.741	1.866	39.123	0.64%	-3.53%
			2535	1.896	37.682	1.893	39.092	0.16%	-3.61%
			2550	1.909	37.649	1.909	39.073	0.00%	-3.64%
			2560	1.917	37.633	1.920	39.060	-0.16%	-3.65%
			2600	1.948	37.597	1.964	39.009	-0.81%	-3.62%
			2650	1.984	37.511	2.018	38.945	-1.68%	-3.68%
			2680	2.008	37.451	2.051	38.907	-2.10%	-3.74%
			2700	2.024	37.422	2.073	38.882	-2.36%	-3.75%
01/20/2024	2450 Head	23.5	2300	1.654	39.601	1.670	39.500	-0.96%	0.26%
			2310	1.667	39.564	1.679	39.480	-0.71%	0.21%
			2320	1.679	39.531	1.687	39.460	-0.47%	0.18%
			2400	1.768	39.231	1.756	39.289	0.68%	-0.15%
			2450	1.829	39.045	1.800	39.200	1.61%	-0.40%
			2480	1.862	38.914	1.833	39.162	1.58%	-0.63%
			2500	1.883	38.837	1.855	39.136	1.51%	-0.76%
			2510	1.894	38.799	1.866	39.123	1.50%	-0.83%
			2535	1.926	38.709	1.893	39.092	1.74%	-0.98%
			2550	1.943	38.645	1.909	39.073	1.78%	-1.10%
			2560	1.954	38.605	1.920	39.060	1.77%	-1.16%
			2600	1.998	38.419	1.964	39.009	1.73%	-1.51%
			2650	2.061	38.242	2.018	38.945	2.13%	-1.81%
			2680	2.096	38.114	2.051	38.907	2.19%	-2.04%
			2700	2.117	38.026	2.073	38.882	2.12%	-2.20%
01/22/2024	2450 Head	19.4	2300	1.740	38.810	1.670	39.500	4.19%	-1.75%
			2310	1.749	38.797	1.679	39.480	4.17%	-1.73%
			2320	1.758	38.781	1.687	39.460	4.21%	-1.72%
			2400	1.823	38.661	1.756	39.289	3.82%	-1.60%
			2450	1.866	38.560	1.800	39.200	3.67%	-1.63%
			2480	1.890	38.521	1.833	39.162	3.11%	-1.64%
			2500	1.909	38.496	1.855	39.136	2.91%	-1.64%
			2510	1.919	38.479	1.866	39.123	2.84%	-1.65%
			2535	1.940	38.423	1.893	39.092	2.48%	-1.71%
			2550	1.951	38.392	1.909	39.073	2.20%	-1.74%
			2560	1.959	38.374	1.920	39.060	2.03%	-1.76%
			2600	1.996	38.304	1.964	39.009	1.63%	-1.81%
			2650	2.041	38.192	2.018	38.945	1.14%	-1.93%
			2680	2.069	38.143	2.051	38.907	0.88%	-1.96%
			2700	2.087	38.110	2.073	38.882	0.68%	-1.99%
01/22/2024	2450 Head	24.9	2300	1.613	38.501	1.670	39.500	-3.41%	-2.53%
			2310	1.625	38.473	1.679	39.480	-3.22%	-2.55%
			2320	1.635	38.443	1.687	39.460	-3.08%	-2.58%
			2400	1.724	38.139	1.756	39.289	-1.82%	-2.93%
			2450	1.774	37.962	1.800	39.200	-1.44%	-3.16%
			2480	1.807	37.807	1.833	39.162	-1.42%	-3.46%
			2500	1.833	37.727	1.855	39.136	-1.19%	-3.60%
			2510	1.845	37.698	1.866	39.123	-1.13%	-3.64%
			2535	1.872	37.637	1.893	39.092	-1.11%	-3.72%
			2550	1.887	37.590	1.909	39.073	-1.15%	-3.80%
			2560	1.896	37.547	1.920	39.060	-1.25%	-3.87%
			2600	1.944	37.335	1.964	39.009	-1.02%	-4.29%
			2650	2.000	37.189	2.018	38.945	-0.89%	-4.51%
			2680	2.027	37.052	2.051	38.907	-1.17%	-4.77%
			2700	2.052	36.952	2.073	38.882	-1.01%	-4.96%

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01/24/2024	2450 Head	24.9	2300	1.682	38.616	1.670	39.500	0.72%	-2.24%
			2310	1.693	38.582	1.679	39.480	0.83%	-2.27%
			2320	1.704	38.546	1.687	39.460	1.01%	-2.32%
			2400	1.789	38.283	1.756	39.289	1.88%	-2.56%
			2450	1.850	38.084	1.800	39.200	2.78%	-2.85%
			2480	1.886	37.986	1.833	39.162	2.89%	-3.00%
			2500	1.910	37.917	1.855	39.136	2.96%	-3.11%
			2510	1.922	37.875	1.866	39.123	3.00%	-3.19%
			2535	1.955	37.768	1.893	39.092	3.28%	-3.39%
			2550	1.974	37.712	1.909	39.073	3.40%	-3.48%
			2560	1.985	37.679	1.920	39.060	3.39%	-3.54%
			2600	2.028	37.537	1.964	39.009	3.26%	-3.77%
			2650	2.092	37.346	2.018	38.945	3.67%	-4.11%
			2680	2.125	37.230	2.051	38.907	3.61%	-4.31%
			2700	2.149	37.135	2.073	38.882	3.67%	-4.49%
01/28/2024	2450 Head	19.0	2300	1.644	40.672	1.670	39.500	-1.56%	2.97%
			2310	1.651	40.652	1.679	39.480	-1.67%	2.97%
			2320	1.659	40.629	1.687	39.460	-1.66%	2.96%
			2400	1.724	40.517	1.756	39.289	-1.82%	3.13%
			2450	1.765	40.401	1.800	39.200	-1.94%	3.06%
			2480	1.790	40.375	1.833	39.162	-2.35%	3.10%
			2500	1.804	40.351	1.855	39.136	-2.75%	3.10%
			2510	1.812	40.331	1.866	39.123	-2.89%	3.09%
			2535	1.832	40.275	1.893	39.092	-3.22%	3.03%
			2550	1.846	40.241	1.909	39.073	-3.30%	2.99%
			2560	1.856	40.223	1.920	39.060	-3.33%	2.98%
			2600	1.889	40.177	1.964	39.009	-3.82%	2.99%
			2650	1.928	40.084	2.018	38.945	-4.46%	2.92%
			2680	1.956	40.025	2.051	38.907	-4.63%	2.87%
			2700	1.974	40.000	2.073	38.882	-4.78%	2.88%
02/23/2024	2450 Head	19.0	2300	1.658	40.671	1.670	39.500	-0.72%	2.96%
			2310	1.667	40.656	1.679	39.480	-0.71%	2.98%
			2320	1.675	40.642	1.687	39.460	-0.71%	3.00%
			2400	1.735	40.515	1.756	39.289	-1.20%	3.12%
			2450	1.779	40.418	1.800	39.200	-1.17%	3.11%
			2480	1.801	40.359	1.833	39.162	-1.75%	3.06%
			2500	1.818	40.330	1.855	39.136	-1.99%	3.05%
			2510	1.827	40.318	1.866	39.123	-2.09%	3.05%
			2535	1.850	40.269	1.893	39.092	-2.27%	3.01%
			2550	1.863	40.239	1.909	39.073	-2.41%	2.98%
			2560	1.872	40.223	1.920	39.060	-2.50%	2.98%
			2600	1.906	40.154	1.964	39.009	-2.95%	2.94%
			2650	1.950	40.070	2.018	38.945	-3.37%	2.89%
			2680	1.977	40.015	2.051	38.907	-3.61%	2.85%
			2700	1.996	39.972	2.073	38.882	-3.71%	2.80%
01/08/2024	3600 Head	20.1	3350	2.896	36.833	2.759	38.100	4.97%	-3.33%
			3450	2.977	36.678	2.861	37.986	4.05%	-3.44%
			3500	3.018	36.605	2.913	37.929	3.60%	-3.49%
			3550	3.054	36.544	2.964	37.871	3.04%	-3.50%
			3560	3.063	36.509	2.974	37.860	2.99%	-3.57%
			3600	3.095	36.465	3.015	37.814	2.65%	-3.57%
			3650	3.135	36.403	3.066	37.757	2.25%	-3.59%
			3690	3.170	36.336	3.107	37.711	2.03%	-3.65%
			3700	3.180	36.321	3.117	37.700	2.02%	-3.66%
			3750	3.219	36.264	3.169	37.643	1.58%	-3.66%
			3900	3.349	36.047	3.323	37.471	0.78%	-3.80%
			3930	3.375	36.017	3.353	37.437	0.66%	-3.79%
			4100	3.528	35.791	3.528	37.243	0.00%	-3.90%
			4150	3.570	35.732	3.579	37.186	-0.25%	-3.91%
01/11/2024	3600 Head	20.1	3300	2.821	36.716	2.708	38.157	4.17%	-3.78%
			3350	2.850	36.667	2.759	38.100	3.30%	-3.76%
			3450	2.926	36.524	2.861	37.986	2.27%	-3.85%
			3500	2.969	36.443	2.913	37.929	1.92%	-3.92%
			3550	3.004	36.403	2.964	37.871	1.35%	-3.88%
			3560	3.013	36.381	2.974	37.860	1.31%	-3.91%
			3600	3.043	36.327	3.015	37.814	0.93%	-3.93%
			3650	3.084	36.261	3.066	37.757	0.59%	-3.96%
			3690	3.114	36.189	3.107	37.711	0.23%	-4.04%
			3700	3.122	36.169	3.117	37.700	0.16%	-4.06%
			3750	3.163	36.122	3.169	37.643	-0.19%	-4.04%
			3900	3.288	35.928	3.323	37.471	-1.05%	-4.12%
			3930	3.313	35.881	3.353	37.437	-1.19%	-4.16%
			4100	3.464	35.690	3.528	37.243	-1.81%	-4.17%
			4150	3.509	35.638	3.579	37.186	-1.96%	-4.16%

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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
			5180	4.409	35.946	4.635	36.009	-4.88%	-0.17%
			5190	4.418	35.918	4.645	35.998	-4.89%	-0.22%
			5200	4.431	35.910	4.655	35.986	-4.81%	-0.21%
			5210	4.444	35.904	4.666	35.975	-4.76%	-0.20%
			5220	4.453	35.880	4.676	35.963	-4.77%	-0.23%
			5240	4.479	35.834	4.696	35.940	-4.62%	-0.29%
			5250	4.492	35.825	4.706	35.929	-4.55%	-0.29%
			5260	4.500	35.823	4.717	35.917	-4.60%	-0.26%
			5270	4.506	35.795	4.727	35.906	-4.68%	-0.31%
			5280	4.519	35.774	4.737	35.894	-4.60%	-0.33%
			5290	4.536	35.753	4.748	35.883	-4.47%	-0.36%
			5300	4.548	35.741	4.758	35.871	-4.41%	-0.36%
			5310	4.557	35.726	4.768	35.860	-4.43%	-0.37%
			5320	4.568	35.705	4.778	35.849	-4.40%	-0.40%
			5500	4.766	35.374	4.963	35.643	-3.97%	-0.75%
			5510	4.777	35.356	4.973	35.632	-3.94%	-0.77%
			5520	4.790	35.336	4.983	35.620	-3.87%	-0.80%
			5530	4.800	35.308	4.994	35.609	-3.88%	-0.85%
			5540	4.809	35.283	5.004	35.597	-3.90%	-0.88%
			5550	4.816	35.272	5.014	35.586	-3.95%	-0.88%
			5560	4.827	35.271	5.024	35.574	-3.92%	-0.85%
			5580	4.848	35.245	5.045	35.551	-3.90%	-0.86%
			5600	4.880	35.198	5.065	35.529	-3.65%	-0.93%
			5610	4.894	35.181	5.076	35.518	-3.59%	-0.95%
			5620	4.905	35.161	5.086	35.506	-3.56%	-0.97%
			5640	4.932	35.107	5.106	35.483	-3.41%	-1.06%
			5660	4.956	35.091	5.127	35.460	-3.34%	-1.04%
01/08/2024	5200-5800 Head	19.0	5670	4.966	35.087	5.137	35.449	-3.33%	-1.02%
			5680	4.975	35.075	5.147	35.437	-3.34%	-1.02%
			5690	4.982	35.048	5.158	35.426	-3.41%	-1.07%
			5700	4.994	35.017	5.168	35.414	-3.37%	-1.12%
			5710	5.008	34.996	5.178	35.403	-3.28%	-1.15%
			5720	5.020	34.980	5.188	35.391	-3.24%	-1.16%
			5745	5.052	34.926	5.214	35.363	-3.11%	-1.24%
			5750	5.058	34.912	5.219	35.357	-3.08%	-1.26%
			5755	5.063	34.895	5.224	35.351	-3.08%	-1.29%
			5765	5.070	34.882	5.234	35.340	-3.13%	-1.30%
			5775	5.078	34.867	5.245	35.329	-3.18%	-1.31%
			5785	5.090	34.864	5.255	35.317	-3.14%	-1.28%
			5795	5.102	34.843	5.265	35.305	-3.10%	-1.31%
			5800	5.107	34.828	5.270	35.300	-3.09%	-1.34%
			5800	5.107	34.828	5.270	35.300	-3.09%	-1.34%
			5805	5.113	34.813	5.275	35.294	-3.07%	-1.36%
			5825	5.133	34.775	5.296	35.271	-3.08%	-1.41%
			5835	5.144	34.769	5.305	35.230	-3.03%	-1.31%
			5845	5.157	34.758	5.315	35.210	-2.97%	-1.28%
			5855	5.173	34.738	5.325	35.197	-2.85%	-1.30%
			5865	5.186	34.718	5.336	35.190	-2.81%	-1.34%
			5865	5.186	34.718	5.336	35.190	-2.81%	-1.34%
			5865	5.186	34.718	5.336	35.190	-2.81%	-1.34%
			5865	5.186	34.718	5.336	35.190	-2.81%	-1.34%
			5875	5.195	34.692	5.347	35.183	-2.84%	-1.40%
			5885	5.204	34.680	5.357	35.177	-2.86%	-1.41%
			5905	5.229	34.653	5.379	35.163	-2.79%	-1.45%
			5180	4.429	35.448	4.635	36.009	-4.44%	-1.56%
			5190	4.438	35.431	4.645	35.998	-4.46%	-1.58%
			5200	4.445	35.421	4.655	35.986	-4.51%	-1.57%
			5210	4.453	35.407	4.666	35.975	-4.56%	-1.58%
			5220	4.466	35.382	4.676	35.963	-4.49%	-1.62%
			5240	4.497	35.327	4.696	35.940	-4.24%	-1.71%
			5250	4.507	35.323	4.706	35.929	-4.23%	-1.69%
			5260	4.514	35.315	4.717	35.917	-4.30%	-1.68%
			5270	4.528	35.299	4.727	35.906	-4.21%	-1.69%
			5280	4.542	35.276	4.737	35.894	-4.12%	-1.72%
			5290	4.555	35.248	4.748	35.883	-4.06%	-1.77%
			5300	4.563	35.231	4.758	35.871	-4.10%	-1.78%
			5310	4.572	35.222	4.768	35.860	-4.11%	-1.78%
			5320	4.583	35.202	4.778	35.849	-4.08%	-1.80%
			5500	4.776	34.856	4.963	35.643	-3.77%	-2.21%
			5510	4.787	34.838	4.973	35.632	-3.74%	-2.23%
			5520	4.799	34.815	4.983	35.620	-3.69%	-2.26%
			5530	4.811	34.791	4.994	35.609	-3.66%	-2.30%
			5540	4.825	34.763	5.004	35.597	-3.58%	-2.34%
			5550	4.834	34.753	5.014	35.586	-3.59%	-2.34%
			5560	4.847	34.752	5.024	35.574	-3.52%	-2.31%
			5580	4.864	34.736	5.045	35.551	-3.59%	-2.29%
			5600	4.892	34.664	5.065	35.529	-3.42%	-2.43%
			5610	4.904	34.647	5.076	35.518	-3.39%	-2.45%
			5620	4.913	34.628	5.086	35.506	-3.40%	-2.47%
			5640	4.936	34.574	5.106	35.483	-3.33%	-2.56%
			5660	4.965	34.530	5.127	35.460	-3.16%	-2.62%
01/13/2024	5200-5800 Head	19.0	5670	4.976	34.525	5.137	35.449	-3.13%	-2.61%
			5680	4.984	34.511	5.147	35.437	-3.17%	-2.61%
			5690	4.992	34.498	5.158	35.426	-3.22%	-2.62%
			5700	5.006	34.477	5.168	35.414	-3.13%	-2.65%
			5710	5.019	34.469	5.178	35.403	-3.07%	-2.64%
			5720	5.028	34.452	5.188	35.391	-3.08%	-2.65%
			5745	5.059	34.397	5.214	35.363	-2.97%	-2.73%
			5750	5.067	34.380	5.219	35.357	-2.91%	-2.76%
			5755	5.072	34.368	5.224	35.351	-2.91%	-2.78%
			5765	5.082	34.349	5.234	35.340	-2.90%	-2.80%
			5775	5.094	34.340	5.245	35.329	-2.88%	-2.80%
			5785	5.104	34.340	5.255	35.317	-2.87%	-2.77%
			5795	5.114	34.310	5.265	35.305	-2.87%	-2.82%
			5800	5.117	34.292	5.270	35.300	-2.90%	-2.86%
			5800	5.117	34.292	5.270	35.300	-2.90%	-2.86%
			5805	5.122	34.280	5.275	35.294	-2.90%	-2.87%
			5825	5.148	34.259	5.296	35.271	-2.79%	-2.87%
			5835	5.159	34.254	5.305	35.230	-2.75%	-2.77%
			5845	5.172	34.238	5.315	35.210	-2.69%	-2.76%
			5855	5.184	34.211	5.325	35.197	-2.65%	-2.80%
			5865	5.197	34.184	5.336	35.190	-2.60%	-2.86%
			5865	5.197	34.184	5.336	35.190	-2.60%	-2.86%
			5865	5.197	34.184	5.336	35.190	-2.60%	-2.86%
			5865	5.197	34.184	5.336	35.190	-2.60%	-2.86%
			5875	5.209	34.158	5.347	35.183	-2.58%	-2.91%
			5885	5.216	34.142	5.357	35.177	-2.63%	-2.94%
			5905	5.239	34.102	5.379	35.163	-2.60%	-3.02%

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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
03/19/2024	5200-5800 Head	19.1	5180	4.543	35.312	4.635	36.009	-1.98%	-1.94%
			5190	4.553	35.295	4.645	35.998	-1.98%	-1.95%
			5200	4.564	35.272	4.655	35.986	-1.95%	-1.98%
			5210	4.572	35.263	4.666	35.975	-2.01%	-1.98%
			5220	4.582	35.245	4.676	35.963	-2.01%	-2.00%
			5240	4.610	35.199	4.696	35.940	-1.83%	-2.06%
			5250	4.623	35.184	4.706	35.929	-1.76%	-2.07%
			5260	4.630	35.167	4.717	35.917	-1.84%	-2.09%
			5270	4.640	35.144	4.727	35.906	-1.84%	-2.12%
			5280	4.654	35.124	4.737	35.894	-1.75%	-2.15%
			5290	4.666	35.103	4.748	35.883	-1.73%	-2.17%
			5300	4.676	35.095	4.758	35.871	-1.72%	-2.16%
			5310	4.682	35.072	4.768	35.860	-1.80%	-2.20%
			5320	4.690	35.049	4.778	35.849	-1.84%	-2.23%
			5500	4.898	34.715	4.963	35.643	-1.31%	-2.60%
			5510	4.912	34.710	4.973	35.632	-1.23%	-2.59%
			5520	4.921	34.684	4.983	35.620	-1.24%	-2.63%
			5530	4.932	34.651	4.994	35.609	-1.24%	-2.69%
			5540	4.943	34.616	5.004	35.597	-1.22%	-2.76%
			5550	4.954	34.596	5.014	35.586	-1.20%	-2.78%
			5600	5.013	34.532	5.065	35.529	-1.03%	-2.81%
			5610	5.023	34.508	5.076	35.518	-1.04%	-2.84%
			5620	5.032	34.500	5.086	35.506	-1.06%	-2.83%
			5640	5.061	34.458	5.106	35.483	-0.88%	-2.89%
			5660	5.086	34.410	5.127	35.460	-0.80%	-2.96%
			5670	5.096	34.396	5.137	35.449	-0.80%	-2.97%
			5680	5.107	34.380	5.147	35.437	-0.78%	-2.98%
			5690	5.120	34.360	5.158	35.426	-0.74%	-3.01%
			5700	5.132	34.345	5.168	35.414	-0.70%	-3.02%
			5710	5.140	34.329	5.178	35.403	-0.73%	-3.03%
			5720	5.149	34.315	5.188	35.391	-0.75%	-3.04%
			5745	5.179	34.273	5.214	35.363	-0.67%	-3.08%
			5750	5.188	34.261	5.219	35.357	-0.59%	-3.10%
			5755	5.195	34.246	5.224	35.351	-0.56%	-3.13%
			5765	5.208	34.224	5.234	35.340	-0.50%	-3.16%
			5775	5.217	34.208	5.245	35.329	-0.53%	-3.17%
			5785	5.226	34.192	5.255	35.317	-0.55%	-3.19%
			5795	5.237	34.166	5.265	35.305	-0.53%	-3.23%
			5800	5.243	34.151	5.270	35.300	-0.51%	-3.25%
			5800	5.243	34.151	5.270	35.300	-0.51%	-3.25%
			5805	5.248	34.141	5.275	35.294	-0.51%	-3.27%
			5825	5.274	34.118	5.296	35.271	-0.42%	-3.27%
			5835	5.285	34.114	5.305	35.230	-0.38%	-3.17%
			5845	5.297	34.105	5.315	35.210	-0.34%	-3.14%
			5850	5.302	34.097	5.320	35.200	-0.34%	-3.13%
			5855	5.306	34.088	5.325	35.197	-0.36%	-3.15%
			5865	5.317	34.059	5.336	35.190	-0.36%	-3.21%
			5865	5.317	34.059	5.336	35.190	-0.36%	-3.21%
			5865	5.317	34.059	5.336	35.190	-0.36%	-3.21%
			5865	5.317	34.059	5.336	35.190	-0.36%	-3.21%
			5875	5.333	34.032	5.347	35.183	-0.26%	-3.27%
			5885	5.344	34.009	5.357	35.177	-0.24%	-3.32%
			5905	5.367	33.977	5.379	35.163	-0.22%	-3.37%
01/08/2024	6000 Head	19.7	5935	5.298	34.618	5.411	35.143	-2.09%	-1.49%
			5970	5.351	34.594	5.448	35.120	-1.78%	-1.50%
			5985	5.369	34.587	5.464	35.110	-1.74%	-1.49%
			6000	5.386	34.570	5.480	35.100	-1.72%	-1.51%
			6025	5.405	34.492	5.510	35.070	-1.91%	-1.65%
			6065	5.449	34.374	5.557	35.022	-1.94%	-1.85%
			6075	5.469	34.365	5.569	35.010	-1.80%	-1.84%
			6085	5.487	34.361	5.580	34.998	-1.67%	-1.82%
			6185	5.589	34.164	5.698	34.878	-1.91%	-2.05%
			6275	5.703	34.038	5.805	34.770	-1.76%	-2.11%
			6285	5.708	34.010	5.816	34.758	-1.86%	-2.15%
			6305	5.732	33.936	5.840	34.734	-1.85%	-2.30%
			6345	5.798	33.854	5.887	34.686	-1.51%	-2.40%
			6475	5.952	33.652	6.041	34.530	-1.47%	-2.54%
			6485	5.961	33.650	6.052	34.518	-1.50%	-2.51%
			6500	5.975	33.637	6.070	34.500	-1.57%	-2.50%
			6505	5.979	33.627	6.076	34.494	-1.60%	-2.51%
			6545	6.030	33.532	6.122	34.446	-1.50%	-2.65%
			6665	6.198	33.338	6.265	34.302	-1.07%	-2.81%
			6675	6.203	33.312	6.273	34.290	-1.12%	-2.85%
			6685	6.208	33.281	6.285	34.278	-1.23%	-2.91%
			6715	6.253	33.210	6.319	34.242	-1.04%	-3.01%
			6785	6.334	33.206	6.400	34.158	-1.03%	-2.79%
			6825	6.364	33.062	6.447	34.110	-1.29%	-3.07%
			6985	6.579	32.797	6.633	33.918	-0.81%	-3.31%
			7500	7.206	31.866	7.240	33.300	-0.47%	-4.31%
			7980	7.753	31.202	7.816	32.724	-0.81%	-4.65%
			8000	7.763	31.148	7.840	32.700	-0.98%	-4.75%

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.

Note: Per April 2019 TCB Workshop Notes, single head-tissue simulating liquid specified in IEC 62209-1 is permitted to use for all SAR tests.

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9.2 Test System Verification

Prior to SAR assessment, the system is verified to ±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 the SAR System Validation Appendix.

Table 9-2
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 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
AM14	13	HEAD	02/14/2024	22.6	21.9	1.00	1004	7360	534	0.552	0.578	0.552	-4.50%				
AM13	750	HEAD	01/06/2024	23.7	23.3	0.20	1057	7357	1582	1.730	8.510	8.650	1.65%				
AM1	750	HEAD	01/08/2024	20.0	20.0	0.20	1034	3949	1684	1.770	8.640	8.850	2.43%				
AM13	750	HEAD	01/14/2024	22.9	23.0	0.20	1057	7357	1582	1.650	8.510	8.250	-3.06%				
AM1	750	HEAD	01/18/2024	23.0	21.9	0.20	1097	3949	1684	1.700	8.270	8.500	2.78%				
AM13	750	HEAD	01/18/2024	22.5	23.2	0.20	1057	7357	1582	1.700	8.510	8.500	-0.12%				
AM10	835	HEAD	01/04/2024	20.8	20.0	0.20	4d040	7416	701	1.890	9.790	9.450	-3.47%				
AM10	835	HEAD	01/08/2024	20.8	20.5	0.20	4d040	7416	701	1.820	9.790	9.100	-7.05%				
AM10	835	HEAD	01/11/2024	19.4	20.3	0.20	4d108	7416	701	1.900	9.800	9.500	-3.06%				
AM4	1750	HEAD	01/16/2024	21.5	21.3	0.10	1040	7639	1403	3.880	36.400	38.800	6.59%				
AM4	1750	HEAD	01/18/2024	21.4	21.0	0.10	1040	7639	1403	3.460	36.400	34.600	-4.95%				
AM11	1900	HEAD	01/18/2024	21.8	21.4	0.10	5d030	7682	1683	4.120	39.800	41.200	3.52%				
AM11	1900	HEAD	01/23/2024	22.0	20.7	0.10	5d030	7682	1683	3.680	39.800	36.800	-7.54%				
AM16	2300	HEAD	01/17/2024	20.7	24.0	0.10	1064	7308	467	5.000	49.300	50.000	1.42%				
AM16	2300	HEAD	01/22/2024	20.5	19.1	0.10	1038	7308	467	4.940	48.600	49.400	1.65%				
AM12	2450	HEAD	01/04/2024	21.1	23.4	0.10	750	7546	1402	5.280	52.600	52.800	0.38%				
AM8	2450	HEAD	01/12/2024	20.8	19.7	0.10	921	7421	604	5.120	54.200	51.200	-5.54%				
AM12	2450	HEAD	01/24/2024	22.0	24.6	0.10	750	7546	1402	5.380	52.600	53.800	2.28%				
AM8	2450	HEAD	01/28/2024	21.3	19.8	0.10	855	7421	604	5.040	52.400	50.400	-3.82%				
AM8	2450	HEAD	02/23/2024	19.3	19.4	0.10	921	7421	604	5.260	54.200	52.600	-2.95%				
AM12	2600	HEAD	01/04/2024	21.1	23.4	0.10	1042	7546	1402	5.720	55.800	57.200	2.51%				
AM7	2600	HEAD	01/20/2024	21.2	21.5	0.10	1068	7532	501	5.520	56.500	55.200	-2.30%				
AM12	2600	HEAD	01/22/2024	21.3	24.0	0.10	1042	7546	1402	5.810	55.800	58.100	4.12%				
AM12	2600	HEAD	01/24/2024	22.0	24.6	0.10	1042	7546	1402	5.890	55.800	58.900	5.56%				
AM3	3500	HEAD	01/08/2024	20.6	19.6	0.10	1126	7782	1646	6.630	67.000	66.300	-1.04%				
AM3	3500	HEAD	01/11/2024	21.4	20.3	0.10	1126	7782	1646	7.100	67.000	71.000	5.97%				
AM3	3700	HEAD	01/08/2024	20.6	19.6	0.10	1097	7782	1646	7.040	68.100	70.400	3.38%				
AM3	3700	HEAD	01/11/2024	21.4	20.3	0.10	1097	7782	1646	7.150	68.100	71.500	4.99%				
AM3	3900	HEAD	01/08/2024	20.6	19.6	0.10	1073	7782	1646	7.000	69.700	70.000	0.43%				
AM3	3900	HEAD	01/11/2024	21.4	20.3	0.10	1073	7782	1646	7.270	69.700	72.700	4.30%				
AM9	5250	HEAD	01/08/2024	19.0	20.0	0.05	1123	3746	1237	3.760	80.500	75.200	-6.58%				
AM9	5250	HEAD	01/13/2024	20.9	19.0	0.05	1123	3746	1237	3.760	80.500	75.200	-6.58%				
AM8	5250	HEAD	03/19/2024	20.1	19.5	0.05	1066	7427	467	3.850	80.300	77.000	-4.11%				
AM9	5600	HEAD	01/08/2024	19.0	20.0	0.05	1123	3746	1237	4.260	83.700	85.200	1.79%				
AM9	5600	HEAD	01/13/2024	20.9	19.0	0.05	1123	3746	1237	4.000	83.700	80.000	-4.42%				
AM8	5600	HEAD	03/19/2024	20.1	19.5	0.05	1066	7427	467	4.070	83.900	81.400	-2.98%				
AM9	5750	HEAD	01/08/2024	19.0	20.0	0.05	1123	3746	1237	3.860	80.500	77.200	-4.10%				
AM9	5750	HEAD	01/13/2024	20.9	19.0	0.05	1123	3746	1237	3.720	80.500	74.400	-7.58%				
AM8	5750	HEAD	03/19/2024	20.1	19.5	0.05	1066	7427	467	3.700	79.500	74.000	-6.92%				
AM9	5800	HEAD	01/08/2024	19.0	20.0	0.05	1123	3746	1237	3.820	80.500	76.400	-5.09%				
AM9	5800	HEAD	01/13/2024	20.9	19.0	0.05	1123	3746	1237	3.750	80.500	75.000	-6.83%				
AM8	5800	HEAD	03/19/2024	20.1	19.5	0.05	1066	7427	467	4.020	82.200	80.400	-2.19%				
AM2	6500	HEAD	01/08/2024	21.5	19.0	0.03	1019	7420	1333	7.760	293.000	310.400	5.94%	34.5	1320	1380	4.55%

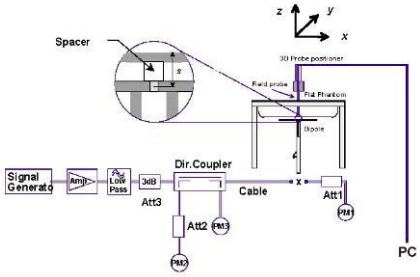

Figure 9-1
System Verification Setup Diagram

Figure 9-2
System Verification Setup Photo

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9.3 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.

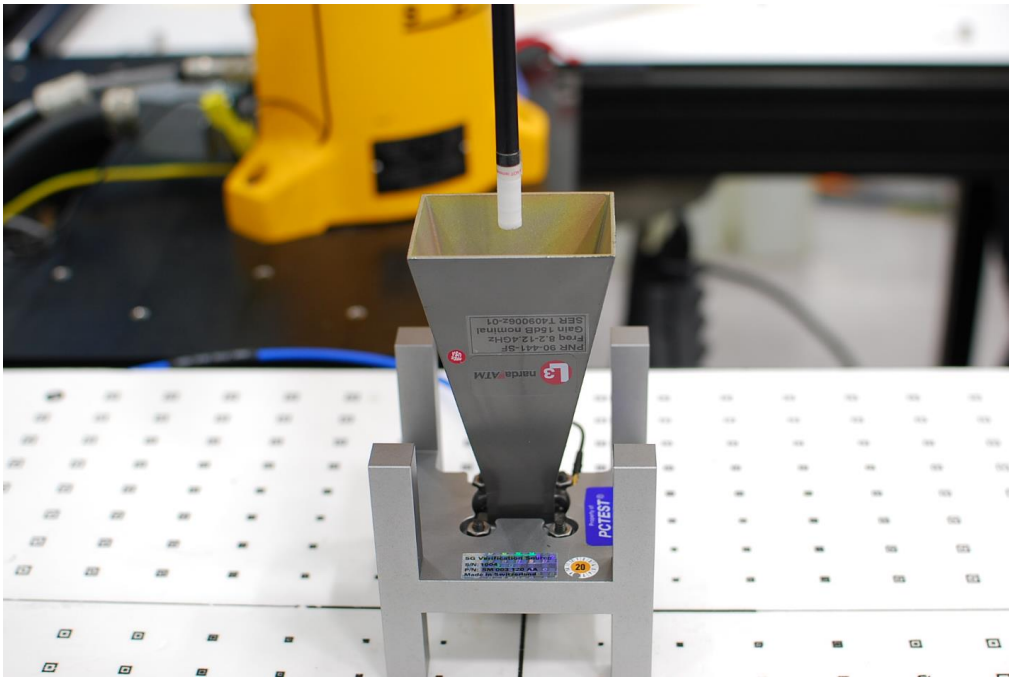

Figure 9-3
System Verification Setup Photo

Table 9-3
10 GHz Verification Results

System	Frequency (GHz)	Date	Source S/N	Probe S/N	Prad (mW)	Normal psPD (W/m² over 4 cm²)		Deviation (dB)	Total psPD (W/m² over 4 cm²)		Deviation (dB)
						Measured	Target		Measured	Target	
AM5	10	01/31/2024	1002	9407	89.1	52.40	52.80	-0.0330	52.50	53.10	-0.0494

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

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10 SAR DATA SUMMARY

10.1 UMTS 850 Standalone SAR

Table 10-1 Antenna 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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 850	RMC	1	WFG6R	1:1	-0.01	826.40	4132	19.60	19.22	Back	0	0.905	0.409	1.091	0.987	0.446	A1	18.6	18.6
Body	UMTS 850	RMC	1	WFG6R	1:1	0.00	826.40	4132	19.60	19.22	Back	0	0.892	0.405	1.091	0.973	0.442		18.7	
Body	UMTS 850	RMC	1	WFG6R	1:1	-0.04	836.60	4183	19.60	19.23	Back	0	0.841	0.375	1.089	0.916	0.408		19.0	
Body	UMTS 850	RMC	1	WFG6R	1:1	-0.04	846.60	4233	19.60	19.16	Back	0	0.825	0.372	1.107	0.913	0.412		19.0	
Body	UMTS 850	RMC	1	WFG6R	1:1	-0.01	836.60	4183	19.60	19.23	Top	0	0.015	0.007	1.089	0.016	0.008		36.4	
Body	UMTS 850	RMC	1	WFG6R	1:1	0.00	836.60	4183	19.60	19.23	Bottom	0	0.606	0.244	1.089	0.660	0.266		20.4	
Body	UMTS 850	RMC	1	WFG6R	1:1	-0.06	836.60	4183	19.60	19.23	Right	0	0.032	0.014	1.089	0.035	0.015		33.2	
Body	UMTS 850	RMC	1	WFG6R	1:1	-0.02	836.60	4183	19.60	19.23	Left	0	0.277	0.122	1.089	0.302	0.133		23.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-2 Antenna 3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 850	RMC	3	QT49N	1:1	-0.01	826.40	4132	19.80	18.60	Back	0	0.633	0.332	1.318	0.834	0.438		19.6	18.9
Body	UMTS 850	RMC	3	QT49N	1:1	-0.02	836.60	4183	19.80	18.59	Back	0	0.642	0.334	1.321	0.848	0.441		19.5	
Body	UMTS 850	RMC	3	QT49N	1:1	-0.01	846.60	4233	19.80	18.71	Back	0	0.648	0.336	1.285	0.833	0.432		19.6	
Body	UMTS 850	RMC	3	QT49N	1:1	-0.01	826.40	4132	19.80	18.60	Top	0	0.724	0.309	1.318	0.954	0.407		19.0	
Body	UMTS 850	RMC	3	QT49N	1:1	0.04	836.60	4183	19.80	18.59	Top	0	0.732	0.311	1.321	0.967	0.411		18.9	
Body	UMTS 850	RMC	3	QT49N	1:1	-0.02	846.60	4233	19.80	18.71	Top	0	0.725	0.310	1.285	0.932	0.398		19.1	
Body	UMTS 850	RMC	3	QT49N	1:1	0.16	846.60	4233	19.80	18.71	Bottom	0	0.019	0.008	1.285	0.024	0.010		34.9	
Body	UMTS 850	RMC	3	QT49N	1:1	-0.02	846.60	4233	19.80	18.71	Right	0	0.194	0.091	1.285	0.249	0.117		24.8	
Body	UMTS 850	RMC	3	QT49N	1:1	-0.01	846.60	4233	19.80	18.71	Left	0	0.036	0.016	1.285	0.046	0.021		32.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.2 UMTS 1750 Standalone SAR

Table 10-3 Antenna 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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	1	QQKCQ	1:1	0.00	1712.40	1312	16.90	15.80	Back	0	0.562	0.241	1.288	0.724	0.310		17.3	16.0
Body	UMTS 1750	RMC	1	QQKCQ	1:1	-0.01	1732.40	1412	16.90	15.91	Back	0	0.661	0.283	1.256	0.830	0.355		16.7	
Body	UMTS 1750	RMC	1	QQKCQ	1:1	0.01	1752.60	1513	16.90	15.90	Back	0	0.771	0.326	1.259	0.971	0.410		16.0	
Body	UMTS 1750	RMC	1	QQKCQ	1:1	0.09	1732.40	1412	16.90	15.91	Top	0	0.000	0.000	1.256	0.000	0.000		54.9	
Body	UMTS 1750	RMC	1	QQKCQ	1:1	0.01	1732.40	1412	16.90	15.91	Bottom	0	0.599	0.240	1.256	0.752	0.301		17.1	
Body	UMTS 1750	RMC	1	QQKCQ	1:1	0.09	1732.40	1412	16.90	15.91	Right	0	0.005	0.002	1.256	0.006	0.003		37.9	
Body	UMTS 1750	RMC	1	QQKCQ	1:1	-0.04	1732.40	1412	16.90	15.91	Left	0	0.058	0.025	1.256	0.073	0.031		27.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-4 Antenna 2b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	2b	FDHG7	1:1	0.02	1712.40	1312	13.60	12.80	Back	0	0.819	0.334	1.202	0.984	0.401		12.6	12.6
Body	UMTS 1750	RMC	2b	FDHG7	1:1	-0.01	1732.40	1412	13.60	12.78	Back	0	0.809	0.330	1.208	0.977	0.399		12.7	
Body	UMTS 1750	RMC	2b	FDHG7	1:1	-0.01	1752.60	1513	13.60	12.91	Back	0	0.830	0.337	1.172	0.973	0.395		12.7	
Body	UMTS 1750	RMC	2b	FDHG7	1:1	-0.07	1752.60	1513	13.60	12.91	Top	0	0.000	0.000	1.172	0.000	0.000		51.9	
Body	UMTS 1750	RMC	2b	FDHG7	1:1	-0.05	1752.60	1513	13.60	12.91	Bottom	0	0.657	0.238	1.172	0.770	0.279		13.7	
Body	UMTS 1750	RMC	2b	FDHG7	1:1	0.12	1752.60	1513	13.60	12.91	Right	0	0.022	0.010	1.172	0.026	0.012		28.5	
Body	UMTS 1750	RMC	2b	FDHG7	1:1	0.04	1752.60	1513	13.60	12.91	Left	0	0.005	0.002	1.172	0.006	0.002		34.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

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Table 10-5 Antenna 3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	3	6T02Y	1:1	-0.03	1712.40	1312	17.40	16.90	Back	0	0.837	0.414	1.122	0.939	0.465	A2	16.7	16.7
Body	UMTS 1750	RMC	3	6T02Y	1:1	0.00	1732.40	1412	17.40	16.99	Back	0	0.769	0.381	1.099	0.845	0.419		17.1	
Body	UMTS 1750	RMC	3	6T02Y	1:1	0.00	1752.60	1513	17.40	17.00	Back	0	0.685	0.339	1.096	0.751	0.372		17.6	
Body	UMTS 1750	RMC	3	6T02Y	1:1	-0.02	1752.60	1513	17.40	17.00	Top	0	0.497	0.193	1.096	0.545	0.212		19.0	
Body	UMTS 1750	RMC	3	6T02Y	1:1	-0.10	1752.60	1513	17.40	17.00	Bottom	0	0.091	0.053	1.096	0.100	0.058		26.4	
Body	UMTS 1750	RMC	3	6T02Y	1:1	-0.02	1712.40	1312	17.40	16.90	Right	0	0.824	0.355	1.122	0.925	0.398		16.7	
Body	UMTS 1750	RMC	3	6T02Y	1:1	0.00	1732.40	1412	17.40	16.99	Right	0	0.799	0.342	1.099	0.878	0.376		16.9	
Body	UMTS 1750	RMC	3	6T02Y	1:1	0.00	1752.60	1513	17.40	17.00	Right	0	0.751	0.320	1.096	0.823	0.351		17.2	
Body	UMTS 1750	RMC	3	6T02Y	1:1	-0.02	1752.60	1513	17.40	17.00	Left	0	0.010	0.004	1.096	0.011	0.004		36.0	
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 10-6 Antenna 4b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	4b	6T02Y	1:1	-0.01	1712.40	1312	14.00	12.99	Back	0	0.777	0.319	1.262	0.981	0.403		13.1	13.1
Body	UMTS 1750	RMC	4b	6T02Y	1:1	0.01	1732.40	1412	14.00	13.15	Back	0	0.753	0.311	1.216	0.916	0.378		13.4	
Body	UMTS 1750	RMC	4b	6T02Y	1:1	0.03	1752.60	1513	14.00	13.00	Back	0	0.751	0.311	1.259	0.946	0.392		13.2	
Body	UMTS 1750	RMC	4b	6T02Y	1:1	-0.03	1732.40	1412	14.00	13.15	Top	0	0.616	0.231	1.216	0.749	0.281		14.2	
Body	UMTS 1750	RMC	4b	6T02Y	1:1	0.05	1732.40	1412	14.00	13.15	Bottom	0	0.000	0.000	1.216	0.000	0.000		52.1	
Body	UMTS 1750	RMC	4b	6T02Y	1:1	0.07	1732.40	1412	14.00	13.15	Right	0	0.001	0.000	1.216	0.001	0.000		42.1	
Body	UMTS 1750	RMC	4b	6T02Y	1:1	-0.16	1732.40	1412	14.00	13.15	Left	0	0.051	0.024	1.216	0.062	0.029		25.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.3 UMTS 1900 Standalone SAR

Table 10-7 Antenna 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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	1	HV2K9	1:1	0.03	1880.00	9400	15.50	14.79	Back	0	0.480	0.240	1.178	0.565	0.283		17.9	14.5
Body	UMTS 1900	RMC	1	HV2K9	1:1	0.01	1880.00	9400	15.50	14.79	Top	0	0.005	0.002	1.178	0.006	0.002		37.8	
Body	UMTS 1900	RMC	1	HV2K9	1:1	0.08	1880.00	9400	15.50	14.79	Bottom	0	0.392	0.148	1.178	0.462	0.174		18.8	
Body	UMTS 1900	RMC	1	HV2K9	1:1	0.05	1880.00	9400	15.50	14.79	Right	0	0.000	0.000	1.178	0.000	0.000		54.7	
Body	UMTS 1900	RMC	1	HV2K9	1:1	0.00	1852.40	9262	15.50	14.75	Left	0	0.830	0.319	1.189	0.987	0.379		14.5	
Body	UMTS 1900	RMC	1	HV2K9	1:1	-0.01	1880.00	9400	15.50	14.79	Left	0	0.823	0.317	1.178	0.969	0.373		15.6	
Body	UMTS 1900	RMC	1	HV2K9	1:1	-0.02	1907.60	9538	15.50	14.71	Left	0	0.818	0.313	1.199	0.981	0.375		15.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-8 Antenna 2b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	2b	FDHG7	1:1	-0.02	1852.40	9262	13.80	12.62	Back	0	0.697	0.296	1.312	0.914	0.388		13.2	12.9
Body	UMTS 1900	RMC	2b	FDHG7	1:1	0.00	1880.00	9400	13.80	12.64	Back	0	0.730	0.310	1.306	0.953	0.405		13.0	
Body	UMTS 1900	RMC	2b	FDHG7	1:1	0.00	1907.60	9538	13.80	12.60	Back	0	0.741	0.317	1.318	0.977	0.418		12.9	
Body	UMTS 1900	RMC	2b	FDHG7	1:1	0.03	1880.00	9400	13.80	12.64	Top	0	0.003	0.000	1.306	0.004	0.000		36.8	
Body	UMTS 1900	RMC	2b	FDHG7	1:1	0.00	1852.40	9262	13.80	12.62	Bottom	0	0.668	0.247	1.312	0.876	0.324		13.4	
Body	UMTS 1900	RMC	2b	FDHG7	1:1	0.01	1880.00	9400	13.80	12.64	Bottom	0	0.695	0.254	1.306	0.908	0.332		13.2	
Body	UMTS 1900	RMC	2b	FDHG7	1:1	0.00	1907.60	9538	13.80	12.60	Bottom	0	0.735	0.270	1.318	0.969	0.356		12.9	
Body	UMTS 1900	RMC	2b	FDHG7	1:1	0.01	1880.00	9400	13.80	12.64	Right	0	0.034	0.016	1.306	0.044	0.021		26.3	
Body	UMTS 1900	RMC	2b	FDHG7	1:1	0.03	1880.00	9400	13.80	12.64	Left	0	0.006	0.002	1.306	0.008	0.003		33.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

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Table 10-9 Antenna 3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	3	HV2K9	1:1	-0.01	1880.00	9400	16.00	14.97	Back	0	0.608	0.287	1.268	0.771	0.364		16.1	15.2
Body	UMTS 1900	RMC	3	HV2K9	1:1	-0.02	1880.00	9400	16.00	14.97	Top	0	0.399	0.153	1.268	0.506	0.194		17.9	
Body	UMTS 1900	RMC	3	HV2K9	1:1	0.18	1880.00	9400	16.00	14.97	Bottom	0	0.015	0.006	1.268	0.019	0.008		32.2	
Body	UMTS 1900	RMC	3	HV2K9	1:1	-0.01	1852.40	9262	16.00	14.95	Right	0	0.669	0.280	1.274	0.852	0.357		15.7	
Body	UMTS 1900	RMC	3	HV2K9	1:1	0.00	1880.00	9400	16.00	14.97	Right	0	0.710	0.296	1.268	0.900	0.375		15.4	
Body	UMTS 1900	RMC	3	HV2K9	1:1	0.00	1907.60	9538	16.00	14.85	Right	0	0.736	0.305	1.303	0.959	0.397		15.2	
Body	UMTS 1900	RMC	3	HV2K9	1:1	0.01	1880.00	9400	16.00	14.97	Left	0	0.000	0.000	1.268	0.000	0.000		54.0	
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 10-10 Antenna 4b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	4b	HV2K9	1:1	0.00	1852.40	9262	13.30	12.69	Back	0	0.659	0.277	1.151	0.759	0.319		13.5	12.3
Body	UMTS 1900	RMC	4b	HV2K9	1:1	0.00	1880.00	9400	13.30	12.80	Back	0	0.706	0.293	1.122	0.792	0.329		13.3	
Body	UMTS 1900	RMC	4b	HV2K9	1:1	0.00	1907.60	9538	13.30	12.67	Back	0	0.793	0.328	1.156	0.917	0.379		12.7	
Body	UMTS 1900	RMC	4b	HV2K9	1:1	-0.01	1852.40	9262	13.30	12.69	Top	0	0.764	0.285	1.151	0.879	0.328		12.8	
Body	UMTS 1900	RMC	4b	HV2K9	1:1	-0.05	1880.00	9400	13.30	12.80	Top	0	0.801	0.298	1.122	0.899	0.334		12.7	
Body	UMTS 1900	RMC	4b	HV2K9	1:1	-0.05	1907.60	9538	13.30	12.67	Top	0	0.853	0.316	1.156	0.986	0.365	A3	12.3	
Body	UMTS 1900	RMC	4b	HV2K9	1:1	0.02	1880.00	9400	13.30	12.80	Bottom	0	0.000	0.000	1.122	0.000	0.000		51.8	
Body	UMTS 1900	RMC	4b	HV2K9	1:1	0.05	1880.00	9400	13.30	12.80	Right	0	0.007	0.002	1.122	0.008	0.002		33.3	
Body	UMTS 1900	RMC	4b	HV2K9	1:1	0.04	1880.00	9400	13.30	12.80	Left	0	0.010	0.004	1.122	0.011	0.004		31.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.4 LTE Band 71 Standalone SAR

Table 10-11 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 71	20	QPSK	1	CV0TW	1:1	0.00	680.50	133297	0.0	19.20	18.22	1	0	Back	0	0.721	0.312	1.253	0.903	0.391		18.6	18.6
Body	LTE Band 71	20	QPSK	1	CV0TW	1:1	0.00	680.50	133297	0.0	19.20	18.18	50	25	Back	0	0.675	0.294	1.265	0.854	0.372		18.9	
Body	LTE Band 71	20	QPSK	1	CV0TW	1:1	0.01	680.50	133297	0.0	19.20	18.17	100	0	Back	0	0.662	0.286	1.268	0.839	0.363		18.9	
Body	LTE Band 71	20	QPSK	1	CV0TW	1:1	-0.12	680.50	133297	0.0	19.20	18.22	1	0	Top	0	0.006	0.002	1.253	0.008	0.003		39.4	
Body	LTE Band 71	20	QPSK	1	CV0TW	1:1	0.05	680.50	133297	0.0	19.20	18.18	50	25	Top	0	0.010	0.004	1.265	0.013	0.005		37.2	
Body	LTE Band 71	20	QPSK	1	CV0TW	1:1	-0.02	680.50	133297	0.0	19.20	18.22	1	0	Bottom	0	0.502	0.192	1.253	0.629	0.241		20.2	
Body	LTE Band 71	20	QPSK	1	CV0TW	1:1	0.00	680.50	133297	0.0	19.20	18.18	50	25	Bottom	0	0.514	0.195	1.265	0.650	0.247		20.1	
Body	LTE Band 71	20	QPSK	1	CV0TW	1:1	-0.17	680.50	133297	0.0	19.20	18.22	1	0	Right	0	0.018	0.007	1.253	0.023	0.009		34.6	
Body	LTE Band 71	20	QPSK	1	CV0TW	1:1	-0.16	680.50	133297	0.0	19.20	18.18	50	25	Right	0	0.024	0.010	1.265	0.030	0.013		33.4	
Body	LTE Band 71	20	QPSK	1	CV0TW	1:1	0.02	680.50	133297	0.0	19.20	18.22	1	0	Left	0	0.197	0.078	1.253	0.247	0.098		24.3	
Body	LTE Band 71	20	QPSK	1	CV0TW	1:1	-0.01	680.50	133297	0.0	19.20	18.18	50	25	Left	0	0.231	0.090	1.265	0.292	0.114		23.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-12 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 71	20	QPSK	3	MVHMV	1:1	0.06	680.50	133297	0.0	21.00	20.30	1	50	Back	0	0.762	0.405	1.175	0.895	0.476		20.5	20.1
Body	LTE Band 71	20	QPSK	3	MVHMV	1:1	-0.02	680.50	133297	0.0	21.00	20.35	50	25	Back	0	0.776	0.411	1.161	0.901	0.477		20.4	
Body	LTE Band 71	20	QPSK	3	MVHMV	1:1	-0.04	680.50	133297	0.0	21.00	20.29	100	0	Back	0	0.786	0.418	1.178	0.926	0.492		20.3	
Body	LTE Band 71	20	QPSK	3	MVHMV	1:1	0.00	680.50	133297	0.0	21.00	20.30	1	50	Top	0	0.737	0.279	1.175	0.866	0.328		20.6	
Body	LTE Band 71	20	QPSK	3	MVHMV	1:1	-0.01	680.50	133297	0.0	21.00	20.35	50	25	Top	0	0.783	0.296	1.161	0.909	0.344		20.4	
Body	LTE Band 71	20	QPSK	3	MVHMV	1:1	0.03	680.50	133297	0.0	21.00	20.29	100	0	Top	0	0.833	0.299	1.178	0.981	0.352	A4	20.1	
Body	LTE Band 71	20	QPSK	3	MVHMV	1:1	0.09	680.50	133297	0.0	21.00	20.30	1	50	Bottom	0	0.015	0.006	1.175	0.018	0.007		37.5	
Body	LTE Band 71	20	QPSK	3	MVHMV	1:1	0.03	680.50	133297	0.0	21.00	20.35	50	25	Bottom	0	0.011	0.004	1.161	0.013	0.005		38.9	
Body	LTE Band 71	20	QPSK	3	MVHMV	1:1	0.01	680.50	133297	0.0	21.00	20.30	1	50	Right	0	0.222	0.102	1.175	0.261	0.120		25.8	
Body	LTE Band 71	20	QPSK	3	MVHMV	1:1	0.02	680.50	133297	0.0	21.00	20.35	50	25	Right	0	0.235	0.109	1.161	0.273	0.127		25.6	
Body	LTE Band 71	20	QPSK	3	MVHMV	1:1	0.09	680.50	133297	0.0	21.00	20.30	1	50	Left	0	0.039	0.016	1.175	0.046	0.019		33.4	
Body	LTE Band 71	20	QPSK	3	MVHMV	1:1	0.04	680.50	133297	0.0	21.00	20.35	50	25	Left	0	0.040	0.017	1.161	0.046	0.020		33.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

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10.5 LTE Band 12 Standalone SAR

Table 10-13 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 12	10	QPSK	1	CV0TW	1:1	0.00	707.50	23095	0.0	20.0	19.66	1	0	Back	0	0.916	0.391	1.081	0.990	0.423		19.0	19.0
Body	LTE Band 12	10	QPSK	1	CV0TW	1:1	0.00	707.50	23095	0.0	20.0	19.58	25	12	Back	0	0.879	0.379	1.102	0.969	0.418		19.1	
Body	LTE Band 12	10	QPSK	1	CV0TW	1:1	0.04	707.50	23095	0.0	20.0	19.56	50	0	Back	0	0.843	0.371	1.107	0.933	0.411		19.3	
Body	LTE Band 12	10	QPSK	1	CV0TW	1:1	0.01	707.50	23095	0.0	20.0	19.66	1	0	Top	0	0.009	0.004	1.081	0.010	0.004		39.1	
Body	LTE Band 12	10	QPSK	1	CV0TW	1:1	0.06	707.50	23095	0.0	20.0	19.58	25	12	Top	0	0.009	0.004	1.102	0.010	0.004		39.0	
Body	LTE Band 12	10	QPSK	1	CV0TW	1:1	0.02	707.50	23095	0.0	20.0	19.66	1	0	Bottom	0	0.695	0.263	1.081	0.751	0.284		20.2	
Body	LTE Band 12	10	QPSK	1	CV0TW	1:1	0.03	707.50	23095	0.0	20.0	19.58	25	12	Bottom	0	0.698	0.263	1.102	0.769	0.290		20.1	
Body	LTE Band 12	10	QPSK	1	CV0TW	1:1	0.04	707.50	23095	0.0	20.0	19.66	1	0	Right	0	0.039	0.016	1.081	0.042	0.017		32.7	
Body	LTE Band 12	10	QPSK	1	CV0TW	1:1	-0.07	707.50	23095	0.0	20.0	19.58	25	12	Right	0	0.041	0.017	1.102	0.045	0.019		32.4	
Body	LTE Band 12	10	QPSK	1	CV0TW	1:1	0.10	707.50	23095	0.0	20.0	19.66	1	0	Left	0	0.299	0.123	1.081	0.323	0.133		23.9	
Body	LTE Band 12	10	QPSK	1	CV0TW	1:1	0.02	707.50	23095	0.0	20.0	19.58	25	12	Left	0	0.304	0.126	1.102	0.335	0.139		23.7	
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 10-14 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 12	10	QPSK	3	5X2QD	1:1	-0.01	707.50	23095	0.0	19.50	19.24	1	0	Back	0	0.647	0.346	1.062	0.687	0.367		20.1	18.5
Body	LTE Band 12	10	QPSK	3	5X2QD	1:1	-0.01	707.50	23095	0.0	19.50	19.30	25	12	Back	0	0.664	0.353	1.047	0.695	0.370		20.1	
Body	LTE Band 12	10	QPSK	3	5X2QD	1:1	-0.15	707.50	23095	0.0	19.50	19.24	1	0	Top	0	0.925	0.341	1.062	0.982	0.362		18.6	
Body	LTE Band 12	10	QPSK	3	5X2QD	1:1	0.00	707.50	23095	0.0	19.50	19.30	25	12	Top	0	0.933	0.344	1.047	0.977	0.360	A5	18.6	
Body	LTE Band 12	10	QPSK	3	5X2QD	1:1	-0.03	707.50	23095	0.0	19.50	19.30	25	12	Top	0	0.890	0.348	1.047	0.932	0.364		18.8	
Body	LTE Band 12	10	QPSK	3	5X2QD	1:1	0.02	707.50	23095	0.0	19.50	19.21	50	0	Top	0	0.923	0.341	1.069	0.987	0.365		18.5	
Body	LTE Band 12	10	QPSK	3	5X2QD	1:1	0.03	707.50	23095	0.0	19.50	19.24	1	0	Bottom	0	0.019	0.009	1.062	0.020	0.010		35.4	
Body	LTE Band 12	10	QPSK	3	5X2QD	1:1	-0.18	707.50	23095	0.0	19.50	19.30	25	12	Bottom	0	0.019	0.008	1.047	0.020	0.008		35.5	
Body	LTE Band 12	10	QPSK	3	5X2QD	1:1	-0.01	707.50	23095	0.0	19.50	19.24	1	0	Right	0	0.259	0.120	1.062	0.275	0.127		24.1	
Body	LTE Band 12	10	QPSK	3	5X2QD	1:1	-0.06	707.50	23095	0.0	19.50	19.30	25	12	Right	0	0.262	0.118	1.047	0.274	0.124		24.1	
Body	LTE Band 12	10	QPSK	3	5X2QD	1:1	-0.01	707.50	23095	0.0	19.50	19.24	1	0	Left	0	0.034	0.016	1.062	0.036	0.017		32.9	
Body	LTE Band 12	10	QPSK	3	5X2QD	1:1	0.21	707.50	23095	0.0	19.50	19.30	25	12	Left	0	0.036	0.016	1.047	0.038	0.017		32.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Blue entry represents variability measurement

10.6 LTE Band 13 Standalone SAR

Table 10-15 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 13	10	QPSK	1	P6MNX	1:1	0.08	782.00	23230	0.0	21.50	20.33	1	25	Back	0	0.754	0.333	1.309	0.987	0.436		20.5	20.5
Body	LTE Band 13	10	QPSK	1	P6MNX	1:1	0.01	782.00	23230	0.0	21.50	20.37	25	25	Back	0	0.732	0.335	1.297	0.949	0.434		20.7	
Body	LTE Band 13	10	QPSK	1	P6MNX	1:1	0.01	782.00	23230	0.0	21.50	20.32	50	0	Back	0	0.733	0.338	1.312	0.962	0.443		20.6	
Body	LTE Band 13	10	QPSK	1	P6MNX	1:1	-0.03	782.00	23230	0.0	21.50	20.33	1	25	Top	0	0.013	0.005	1.309	0.017	0.007		38.2	
Body	LTE Band 13	10	QPSK	1	P6MNX	1:1	-0.03	782.00	23230	0.0	21.50	20.37	25	25	Top	0	0.011	0.005	1.297	0.014	0.006		38.9	
Body	LTE Band 13	10	QPSK	1	P6MNX	1:1	-0.02	782.00	23230	0.0	21.50	20.33	1	25	Bottom	0	0.648	0.244	1.309	0.848	0.319		21.2	
Body	LTE Band 13	10	QPSK	1	P6MNX	1:1	0.04	782.00	23230	0.0	21.50	20.37	25	25	Bottom	0	0.645	0.244	1.297	0.837	0.316		21.3	
Body	LTE Band 13	10	QPSK	1	P6MNX	1:1	0.03	782.00	23230	0.0	21.50	20.32	50	0	Bottom	0	0.648	0.244	1.312	0.850	0.320		21.2	
Body	LTE Band 13	10	QPSK	1	P6MNX	1:1	-0.10	782.00	23230	0.0	21.50	20.33	1	25	Right	0	0.048	0.021	1.309	0.063	0.027		32.5	
Body	LTE Band 13	10	QPSK	1	P6MNX	1:1	0.04	782.00	23230	0.0	21.50	20.37	25	25	Right	0	0.043	0.018	1.297	0.056	0.023		33.0	
Body	LTE Band 13	10	QPSK	1	P6MNX	1:1	0.09	782.00	23230	0.0	21.50	20.33	1	25	Left	0	0.261	0.115	1.309	0.342	0.151		25.1	
Body	LTE Band 13	10	QPSK	1	P6MNX	1:1	-0.01	782.00	23230	0.0	21.50	20.37	25	25	Left	0	0.247	0.109	1.297	0.320	0.141		25.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-16 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 13	10	QPSK	3	HV2K9	1:1	0.00	782.00	23230	0.0	20.10	19.45	1	25	Back	0	0.784	0.415	1.161	0.910	0.482		19.5	19.2
Body	LTE Band 13	10	QPSK	3	HV2K9	1:1	-0.03	782.00	23230	0.0	20.10	19.51	25	12	Back	0	0.798	0.422	1.146	0.915	0.484		19.5	
Body	LTE Band 13	10	QPSK	3	HV2K9	1:1	-0.01	782.00	23230	0.0	20.10	19.42	50	0	Back	0	0.783	0.413	1.169	0.915	0.483		19.5	
Body	LTE Band 13	10	QPSK	3	HV2K9	1:1	-0.08	782.00	23230	0.0	20.10	19.45	1	25	Top	0	0.826	0.319	1.161	0.959	0.370		19.3	
Body	LTE Band 13	10	QPSK	3	HV2K9	1:1	0.01	782.00	23230	0.0	20.10	19.51	25	12	Top	0	0.843	0.324	1.146	0.966	0.371	A6	19.2	
Body	LTE Band 13	10	QPSK	3	HV2K9	1:1	-0.05	782.00	23230	0.0	20.10	19.42	50	0	Top	0	0.818	0.316	1.169	0.956	0.369		19.3	
Body	LTE Band 13	10	QPSK	3	HV2K9	1:1	0.06	782.00	23230	0.0	20.10	19.45	1	25	Bottom	0	0.029	0.013	1.161	0.034	0.015		33.8	
Body	LTE Band 13	10	QPSK	3	HV2K9	1:1	-0.02	782.00	23230	0.0	20.10	19.51	25	12	Bottom	0	0.027	0.012	1.146	0.031	0.014		34.2	
Body	LTE Band 13	10	QPSK	3	HV2K9	1:1	-0.20	782.00	23230	0.0	20.10	19.45	1	25	Right	0	0.274	0.133	1.161	0.318	0.154		24.1	
Body	LTE Band 13	10	QPSK	3	HV2K9	1:1	0.07	782.00	23230	0.0	20.10	19.51	25	12	Right	0	0.272	0.132	1.146	0.312	0.151		24.1	
Body	LTE Band 13	10	QPSK	3	HV2K9	1:1	-0.13	782.00	23230	0.0	20.10	19.45	1	25	Left	0	0.037	0.017	1.161	0.043	0.020		32.7	
Body	LTE Band 13	10	QPSK	3	HV2K9	1:1	0.05	782.00	23230	0.0	20.10	19.51	25	12	Left	0	0.039	0.018	1.146	0.045	0.021		32.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

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10.7 LTE Band 14 Standalone SAR

Table 10-17 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 14	10	QPSK	1	P6MNX	1:1	0.06	793.00	23330	0.0	19.60	19.25	1	49	Back	0	0.861	0.387	1.084	0.933	0.420		18.9	18.7
Body	LTE Band 14	10	QPSK	1	P6MNX	1:1	0.00	793.00	23330	0.0	19.60	19.35	25	12	Back	0	0.899	0.399	1.059	0.952	0.423	A7	18.8	
Body	LTE Band 14	10	QPSK	1	P6MNX	1:1	0.01	793.00	23330	0.0	19.60	19.20	50	0	Back	0	0.881	0.393	1.096	0.966	0.431		18.7	
Body	LTE Band 14	10	QPSK	1	P6MNX	1:1	-0.19	793.00	23330	0.0	19.60	19.25	1	49	Top	0	0.013	0.006	1.084	0.014	0.007		37.1	
Body	LTE Band 14	10	QPSK	1	P6MNX	1:1	-0.02	793.00	23330	0.0	19.60	19.35	25	12	Top	0	0.016	0.007	1.059	0.017	0.007		36.3	
Body	LTE Band 14	10	QPSK	1	P6MNX	1:1	0.06	793.00	23330	0.0	19.60	19.25	1	49	Bottom	0	0.727	0.282	1.084	0.788	0.306		19.6	
Body	LTE Band 14	10	QPSK	1	P6MNX	1:1	0.01	793.00	23330	0.0	19.60	19.35	25	12	Bottom	0	0.760	0.297	1.059	0.805	0.315		19.5	
Body	LTE Band 14	10	QPSK	1	P6MNX	1:1	0.01	793.00	23330	0.0	19.60	19.20	50	0	Bottom	0	0.748	0.292	1.096	0.820	0.320		19.4	
Body	LTE Band 14	10	QPSK	1	P6MNX	1:1	0.00	793.00	23330	0.0	19.60	19.25	1	49	Right	0	0.048	0.020	1.084	0.052	0.022		31.4	
Body	LTE Band 14	10	QPSK	1	P6MNX	1:1	0.02	793.00	23330	0.0	19.60	19.35	25	12	Right	0	0.039	0.017	1.059	0.041	0.018		32.4	
Body	LTE Band 14	10	QPSK	1	P6MNX	1:1	0.13	793.00	23330	0.0	19.60	19.25	1	49	Left	0	0.374	0.162	1.084	0.405	0.176		22.5	
Body	LTE Band 14	10	QPSK	1	P6MNX	1:1	-0.02	793.00	23330	0.0	19.60	19.35	25	12	Left	0	0.371	0.160	1.059	0.393	0.169		22.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-18 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 14	10	QPSK	3	MVHMV	1:1	-0.03	793.00	23330	0.0	20.10	19.57	1	25	Back	0	0.768	0.405	1.130	0.868	0.458		19.7	19.1
Body	LTE Band 14	10	QPSK	3	MVHMV	1:1	0.01	793.00	23330	0.0	20.10	19.66	25	25	Back	0	0.752	0.396	1.107	0.832	0.438		19.9	
Body	LTE Band 14	10	QPSK	3	MVHMV	1:1	0.01	793.00	23330	0.0	20.10	19.55	50	0	Back	0	0.763	0.403	1.135	0.866	0.457		19.7	
Body	LTE Band 14	10	QPSK	3	MVHMV	1:1	0.07	793.00	23330	0.0	20.10	19.57	1	25	Top	0	0.868	0.340	1.130	0.981	0.384		19.2	
Body	LTE Band 14	10	QPSK	3	MVHMV	1:1	0.01	793.00	23330	0.0	20.10	19.66	25	25	Top	0	0.893	0.343	1.107	0.989	0.380		19.1	
Body	LTE Band 14	10	QPSK	3	MVHMV	1:1	-0.01	793.00	23330	0.0	20.10	19.55	50	0	Top	0	0.868	0.338	1.135	0.985	0.384		19.1	
Body	LTE Band 14	10	QPSK	3	MVHMV	1:1	0.04	793.00	23330	0.0	20.10	19.57	1	25	Bottom	0	0.008	0.003	1.130	0.009	0.003		39.5	
Body	LTE Band 14	10	QPSK	3	MVHMV	1:1	0.07	793.00	23330	0.0	20.10	19.66	25	25	Bottom	0	0.011	0.005	1.107	0.012	0.006		38.2	
Body	LTE Band 14	10	QPSK	3	MVHMV	1:1	0.06	793.00	23330	0.0	20.10	19.57	1	25	Right	0	0.274	0.129	1.130	0.310	0.146		24.2	
Body	LTE Band 14	10	QPSK	3	MVHMV	1:1	-0.06	793.00	23330	0.0	20.10	19.66	25	25	Right	0	0.267	0.125	1.107	0.296	0.138		24.4	
Body	LTE Band 14	10	QPSK	3	MVHMV	1:1	0.02	793.00	23330	0.0	20.10	19.57	1	25	Left	0	0.037	0.015	1.130	0.042	0.017		32.9	
Body	LTE Band 14	10	QPSK	3	MVHMV	1:1	-0.19	793.00	23330	0.0	20.10	19.66	25	25	Left	0	0.047	0.025	1.107	0.052	0.028		31.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.8 LTE Band 26 (Cell) Standalone SAR

Table 10-19 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	-0.01	819.00	26740	0.0	19.60	19.11	1	0	Back	0	0.851	0.393	1.119	0.952	0.440	A8	18.8	18.8
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	-0.02	831.50	26865	0.0	19.60	19.10	1	0	Back	0	0.818	0.374	1.122	0.918	0.420		19.0	
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	-0.02	844.00	26990	0.0	19.60	18.98	1	0	Back	0	0.745	0.344	1.153	0.859	0.397		19.2	
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	0.01	819.00	26740	0.0	19.60	19.06	25	12	Back	0	0.818	0.385	1.132	0.926	0.436		18.9	
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	0.02	831.50	26865	0.0	19.60	19.05	25	12	Back	0	0.832	0.380	1.135	0.944	0.431		18.8	
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	0.01	844.00	26990	0.0	19.60	18.97	25	12	Back	0	0.753	0.346	1.156	0.870	0.400		19.2	
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	0.00	819.00	26740	0.0	19.60	19.03	50	0	Back	0	0.813	0.383	1.140	0.927	0.437		18.9	
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	0.04	819.00	26740	0.0	19.60	19.11	1	0	Top	0	0.013	0.005	1.119	0.015	0.006		37.0	
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	-0.17	819.00	26740	0.0	19.60	19.06	25	12	Top	0	0.012	0.005	1.132	0.014	0.006		37.2	
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	0.01	819.00	26740	0.0	19.60	19.11	1	0	Bottom	0	0.697	0.279	1.119	0.780	0.312		19.7	
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	-0.06	819.00	26740	0.0	19.60	19.06	25	12	Bottom	0	0.686	0.273	1.132	0.777	0.309		19.7	
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	-0.14	819.00	26740	0.0	19.60	19.11	1	0	Right	0	0.030	0.012	1.119	0.034	0.013		33.3	
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	0.03	819.00	26740	0.0	19.60	19.06	25	12	Right	0	0.033	0.014	1.132	0.037	0.016		32.9	
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	-0.04	819.00	26740	0.0	19.60	19.11	1	0	Left	0	0.334	0.134	1.119	0.374	0.150		22.9	
Body	LTE Band 26	10	QPSK	1	2K74D	1:1	0.01	819.00	26740	0.0	19.60	19.06	25	12	Left	0	0.348	0.139	1.132	0.394	0.157		22.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 10-20 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.02	819.00	26740	0.0	19.80	18.83	1	0	Back	0	0.698	0.365	1.250	0.873	0.456		19.4	19.1
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.00	831.50	26865	0.0	19.80	18.96	1	0	Back	0	0.718	0.370	1.213	0.871	0.449		19.4	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.11	844.00	26990	0.0	19.80	18.93	1	25	Back	0	0.722	0.371	1.222	0.882	0.453		19.3	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.02	819.00	26740	0.0	19.80	18.96	25	12	Back	0	0.711	0.370	1.213	0.862	0.449		19.4	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.02	831.50	26865	0.0	19.80	18.98	25	12	Back	0	0.726	0.373	1.208	0.877	0.451		19.4	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	-0.01	844.00	26990	0.0	19.80	18.92	25	0	Back	0	0.701	0.362	1.225	0.859	0.443		19.4	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.01	831.50	26865	0.0	19.80	18.94	50	0	Back	0	0.714	0.369	1.219	0.870	0.450		19.4	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	-0.02	819.00	26740	0.0	19.80	18.83	1	0	Top	0	0.746	0.321	1.250	0.933	0.401		19.1	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.05	831.50	26865	0.0	19.80	18.96	1	0	Top	0	0.739	0.323	1.213	0.896	0.392		19.3	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	-0.02	844.00	26990	0.0	19.80	18.93	1	25	Top	0	0.769	0.337	1.222	0.940	0.412		19.1	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.03	819.00	26740	0.0	19.80	18.96	25	12	Top	0	0.756	0.326	1.213	0.917	0.395		19.2	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.01	831.50	26865	0.0	19.80	18.98	25	12	Top	0	0.764	0.330	1.208	0.923	0.399		19.1	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.01	844.00	26990	0.0	19.80	18.92	25	0	Top	0	0.752	0.327	1.225	0.921	0.401		19.1	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.02	831.50	26865	0.0	19.80	18.94	50	0	Top	0	0.756	0.328	1.219	0.922	0.400		19.1	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.01	831.50	26865	0.0	19.80	18.96	1	0	Bottom	0	0.016	0.007	1.213	0.019	0.008		35.9	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.15	831.50	26865	0.0	19.80	18.98	25	12	Bottom	0	0.018	0.008	1.208	0.022	0.010		35.4	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	-0.04	831.50	26865	0.0	19.80	18.96	1	0	Right	0	0.217	0.102	1.213	0.263	0.124		24.6	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.00	831.50	26865	0.0	19.80	18.98	25	12	Right	0	0.219	0.103	1.208	0.265	0.124		24.6	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	0.14	831.50	26865	0.0	19.80	18.96	1	0	Left	0	0.032	0.015	1.213	0.039	0.018		32.9	
Body	LTE Band 26	10	QPSK	3	QT49N	1:1	-0.06	831.50	26865	0.0	19.80	18.98	25	12	Left	0	0.029	0.014	1.208	0.035	0.017		33.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.9 LTE Band 5 (Cell) Standalone SAR

Table 10-21 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 5	10	QPSK	1	022ML	1:1	-0.03	836.50	20525	0.0	19.60	19.02	1	25	Back	0	N/A	0.864	0.397	1.143	0.988	0.454	A9	18.6	18.6
Body	LTE Band 5	10	QPSK	1	022ML	1:1	0.00	836.50	20525	0.0	19.60	18.99	25	12	Back	0	N/A	0.858	0.391	1.151	0.988	0.450		18.6	
Body	LTE Band 5	10	QPSK	1	022ML	1:1	0.09	836.50	20525	0.0	19.60	18.98	25	25	Back	0	N/A	0.853	0.409	1.153	0.984	0.472		18.7	
Body	LTE Band 5	10	QPSK	1	022ML	1:1	0.02	836.50	20525	0.0	19.60	18.98	50	0	Back	0	N/A	0.842	0.401	1.153	0.971	0.462		18.7	
Body	LTE Band 5	10	QPSK	1	022ML	1:1	-0.17	836.50	20525	0.0	19.60	19.02	1	25	Top	0	N/A	0.026	0.015	1.143	0.030	0.017		33.9	
Body	LTE Band 5	10	QPSK	1	022ML	1:1	0.07	836.50	20525	0.0	19.60	18.99	25	12	Top	0	N/A	0.022	0.012	1.151	0.025	0.014		34.5	
Body	LTE Band 5	10	QPSK	1	022ML	1:1	0.07	836.50	20525	0.0	19.60	19.02	1	25	Bottom	0	N/A	0.572	0.232	1.143	0.654	0.265		20.4	
Body	LTE Band 5	10	QPSK	1	022ML	1:1	0.00	836.50	20525	0.0	19.60	18.99	25	12	Bottom	0	N/A	0.595	0.239	1.151	0.685	0.275		20.2	
Body	LTE Band 5	10	QPSK	1	022ML	1:1	0.06	836.50	20525	0.0	19.60	19.02	1	25	Right	0	N/A	0.042	0.020	1.143	0.048	0.023		31.8	
Body	LTE Band 5	10	QPSK	1	022ML	1:1	0.03	836.50	20525	0.0	19.60	18.99	25	12	Right	0	N/A	0.042	0.019	1.151	0.048	0.022		31.7	
Body	LTE Band 5	10	QPSK	1	022ML	1:1	0.03	836.50	20525	0.0	19.60	19.02	1	25	Left	0	N/A	0.257	0.111	1.143	0.294	0.127		23.9	
Body	LTE Band 5	10	QPSK	1	022ML	1:1	-0.01	836.50	20525	0.0	19.60	18.99	25	12	Left	0	N/A	0.267	0.115	1.151	0.307	0.132		23.7	
Body	LTE Band 5	10	QPSK	1	022ML	1:1	0.02	836.50	20525	0.0	19.60	18.98	25	25	Back	0	ULCA 5B	0.857	0.400	1.153	0.988	0.461		18.6	
		5						843.70	20597				25	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 10-22 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 5	10	QPSK	3	QT49N	1:1	-0.01	836.50	20525	0.0	19.80	18.69	1	0	Back	0	N/A	0.650	0.331	1.291	0.839	0.427		19.5	18.9
Body	LTE Band 5	10	QPSK	3	QT49N	1:1	-0.03	836.50	20525	0.0	19.80	18.70	25	12	Back	0	N/A	0.661	0.340	1.288	0.851	0.438		19.5	
Body	LTE Band 5	10	QPSK	3	QT49N	1:1	0.01	836.50	20525	0.0	19.80	18.68	50	0	Back	0	N/A	0.691	0.355	1.294	0.894	0.459		19.3	
Body	LTE Band 5	10	QPSK	3	QT49N	1:1	0.01	836.50	20525	0.0	19.80	18.69	1	0	Top	0	N/A	0.652	0.283	1.291	0.842	0.365		19.5	
Body	LTE Band 5	10	QPSK	3	QT49N	1:1	0.00	836.50	20525	0.0	19.80	18.70	25	12	Top	0	N/A	0.695	0.301	1.288	0.895	0.388		19.3	
Body	LTE Band 5	10	QPSK	3	QT49N	1:1	0.02	836.50	20525	0.0	19.80	18.68	50	0	Top	0	N/A	0.719	0.313	1.294	0.930	0.405		19.1	
Body	LTE Band 5	10	QPSK	3	QT49N	1:1	0.18	836.50	20525	0.0	19.80	18.69	1	0	Bottom	0	N/A	0.019	0.008	1.291	0.025	0.010		34.9	
Body	LTE Band 5	10	QPSK	3	QT49N	1:1	-0.18	836.50	20525	0.0	19.80	18.70	25	12	Bottom	0	N/A	0.019	0.008	1.288	0.024	0.010		34.9	
Body	LTE Band 5	10	QPSK	3	QT49N	1:1	0.09	836.50	20525	0.0	19.80	18.69	1	0	Right	0	N/A	0.229	0.102	1.291	0.296	0.132		24.1	
Body	LTE Band 5	10	QPSK	3	QT49N	1:1	-0.06	836.50	20525	0.0	19.80	18.70	25	12	Right	0	N/A	0.234	0.105	1.288	0.301	0.135		24.0	
Body	LTE Band 5	10	QPSK	3	QT49N	1:1	-0.21	836.50	20525	0.0	19.80	18.69	1	0	Left	0	N/A	0.035	0.015	1.291	0.045	0.019		32.2	
Body	LTE Band 5	10	QPSK	3	QT49N	1:1	-0.05	836.50	20525	0.0	19.80	18.70	25	12	Left	0	N/A	0.047	0.020	1.288	0.061	0.026		31.0	
Body	LTE Band 5	10	QPSK	3	QT49N	1:1	0.00	836.50	20525	0.0	19.80	18.63	50	0	Top	0	ULCA 5B	0.735	0.314	1.309	0.962	0.411		18.9	
		5						829.30	20453				25	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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10.10 LTE Band 66 (AWS) Standalone SAR

Table 10-23 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	-0.01	1720.00	132072	0.0	16.90	16.48	1	0	Back	0	0.597	0.255	1.102	0.658	0.281		17.7	
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	0.01	1745.00	132322	0.0	16.90	16.53	1	0	Back	0	0.648	0.276	1.089	0.706	0.301		17.4	
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	0.01	1770.00	132572	0.0	16.90	16.28	1	0	Back	0	0.852	0.361	1.153	0.982	0.416		16.0	
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	0.00	1720.00	132072	0.0	16.90	16.47	50	25	Back	0	0.654	0.280	1.104	0.722	0.309		17.3	
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	0.02	1745.00	132322	0.0	16.90	16.49	50	25	Back	0	0.771	0.325	1.099	0.847	0.357		16.6	
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	0.00	1770.00	132572	0.0	16.90	16.45	50	0	Back	0	0.881	0.372	1.109	0.977	0.413		16.0	
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	0.00	1720.00	132072	0.0	16.90	16.46	100	0	Back	0	0.651	0.279	1.107	0.721	0.309		17.3	
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	0.05	1745.00	132322	0.0	16.90	16.53	1	0	Top	0	0.000	0.000	1.089	0.000	0.000		55.5	16.0
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	0.07	1745.00	132322	0.0	16.90	16.49	50	25	Top	0	0.000	0.000	1.099	0.000	0.000		55.5	
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	0.04	1745.00	132322	0.0	16.90	16.53	1	0	Bottom	0	0.647	0.250	1.089	0.705	0.272		17.4	
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	-0.01	1745.00	132322	0.0	16.90	16.49	50	25	Bottom	0	0.645	0.253	1.099	0.709	0.278		17.4	
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	0.05	1745.00	132322	0.0	16.90	16.53	1	0	Right	0	0.004	0.001	1.089	0.004	0.001		39.5	
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	0.01	1745.00	132322	0.0	16.90	16.49	50	25	Right	0	0.006	0.003	1.099	0.007	0.003		37.7	
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	0.08	1745.00	132322	0.0	16.90	16.53	1	0	Left	0	0.057	0.024	1.089	0.062	0.026		28.0	
Body	LTE Band 66	20	QPSK	1	QQKCQ	1:1	0.06	1745.00	132322	0.0	16.90	16.49	50	25	Left	0	0.052	0.021	1.099	0.057	0.023		28.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-24 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	-0.01	1720.00	132072	0.0	13.60	12.82	1	99	Back	0	0.815	0.334	1.197	0.976	0.400		12.7	
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	-0.01	1745.00	132322	0.0	13.60	12.95	1	99	Back	0	0.815	0.332	1.161	0.946	0.385		12.8	
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	0.05	1770.00	132572	0.0	13.60	13.09	1	0	Back	0	0.831	0.335	1.125	0.935	0.377		12.9	
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	0.00	1720.00	132072	0.0	13.60	12.99	50	25	Back	0	0.838	0.343	1.151	0.965	0.395		12.7	
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	0.01	1745.00	132322	0.0	13.60	13.00	50	25	Back	0	0.831	0.339	1.148	0.954	0.389		12.8	
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	-0.03	1770.00	132572	0.0	13.60	13.03	50	25	Back	0	0.838	0.340	1.140	0.955	0.388		12.8	
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	-0.02	1720.00	132072	0.0	13.60	12.94	100	0	Back	0	0.836	0.341	1.164	0.973	0.397		12.7	
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	0.02	1770.00	132572	0.0	13.60	13.09	1	0	Top	0	0.000	0.000	1.125	0.000	0.000		52.1	
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	0.07	1770.00	132572	0.0	13.60	13.03	50	25	Top	0	0.000	0.000	1.140	0.000	0.000		52.0	
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	0.00	1770.00	132572	0.0	13.60	13.09	1	0	Bottom	0	0.655	0.236	1.125	0.737	0.266		13.9	
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	0.00	1770.00	132572	0.0	13.60	13.03	50	25	Bottom	0	0.685	0.246	1.140	0.781	0.280		13.7	
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	-0.02	1770.00	132572	0.0	13.60	13.09	1	0	Right	0	0.030	0.014	1.125	0.034	0.016		27.3	
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	0.02	1770.00	132572	0.0	13.60	13.03	50	25	Right	0	0.031	0.015	1.140	0.035	0.017		27.1	
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	0.03	1770.00	132572	0.0	13.60	13.09	1	0	Left	0	0.005	0.002	1.125	0.006	0.002		35.1	
Body	LTE Band 66	20	QPSK	2b	FDHG7	1:1	0.12	1770.00	132572	0.0	13.60	13.03	50	25	Left	0	0.006	0.003	1.140	0.007	0.003		34.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-25 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	-0.03	1720.00	132072	0.0	17.40	17.00	1	50	Back	0	0.861	0.426	1.096	0.944	0.467		16.6	
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	-0.01	1745.00	132322	0.0	17.40	16.96	1	0	Back	0	0.889	0.437	1.107	0.984	0.484		16.5	
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	0.00	1770.00	132572	0.0	17.40	16.80	1	50	Back	0	0.719	0.352	1.148	0.825	0.404		17.2	
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	-0.01	1720.00	132072	0.0	17.40	17.04	50	25	Back	0	0.901	0.445	1.086	0.978	0.483	A10	16.5	
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	0.00	1745.00	132322	0.0	17.40	17.00	50	25	Back	0	0.832	0.408	1.096	0.912	0.447		16.8	
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	-0.03	1770.00	132572	0.0	17.40	16.88	50	50	Back	0	0.714	0.349	1.127	0.805	0.393		17.3	
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	-0.04	1720.00	132072	0.0	17.40	16.99	100	0	Back	0	0.896	0.442	1.099	0.985	0.486		16.4	
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	-0.02	1720.00	132072	0.0	17.40	17.00	1	50	Top	0	0.497	0.205	1.096	0.545	0.225		19.0	16.4
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	0.00	1720.00	132072	0.0	17.40	17.04	50	25	Top	0	0.518	0.214	1.086	0.563	0.232		18.9	
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	0.02	1720.00	132072	0.0	17.40	17.00	1	50	Bottom	0	0.012	0.007	1.096	0.013	0.008		35.2	
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	0.07	1720.00	132072	0.0	17.40	17.04	50	25	Bottom	0	0.011	0.006	1.086	0.012	0.007		35.6	
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	0.00	1720.00	132072	0.0	17.40	17.00	1	50	Right	0	0.723	0.309	1.096	0.792	0.339		17.4	
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	-0.03	1720.00	132072	0.0	17.40	17.04	50	25	Right	0	0.727	0.311	1.086	0.790	0.338		17.4	
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	0.07	1720.00	132072	0.0	17.40	17.00	1	50	Left	0	0.000	0.000	1.096	0.000	0.000		56.0	
Body	LTE Band 66	20	QPSK	3	6T02Y	1:1	0.04	1720.00	132072	0.0	17.40	17.04	50	25	Left	0	0.000	0.000	1.086	0.000	0.000		56.0	
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 10-26 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	0.03	1720.00	132072	0.0	14.00	12.92	1	50	Back	0	0.728	0.305	1.282	0.933	0.391		13.3	13.0
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	-0.02	1745.00	132322	0.0	14.00	13.16	1	50	Back	0	0.702	0.300	1.213	0.852	0.364		13.7	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	0.09	1770.00	132572	0.0	14.00	13.14	1	50	Back	0	0.721	0.302	1.219	0.879	0.368		13.5	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	-0.03	1720.00	132072	0.0	14.00	13.13	50	25	Back	0	0.738	0.312	1.222	0.902	0.381		13.4	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	-0.01	1745.00	132322	0.0	14.00	13.20	50	25	Back	0	0.738	0.308	1.202	0.887	0.370		13.5	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	0.04	1770.00	132572	0.0	14.00	13.15	50	50	Back	0	0.721	0.302	1.216	0.877	0.367		13.6	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	-0.06	1745.00	132322	0.0	14.00	13.15	100	0	Back	0	0.730	0.305	1.216	0.888	0.371		13.5	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	-0.06	1720.00	132072	0.0	14.00	12.92	1	50	Top	0	0.723	0.269	1.282	0.927	0.345		13.3	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	-0.01	1745.00	132322	0.0	14.00	13.16	1	50	Top	0	0.739	0.276	1.213	0.896	0.335		13.5	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	-0.05	1770.00	132572	0.0	14.00	13.14	1	50	Top	0	0.788	0.292	1.219	0.961	0.356		13.2	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	-0.01	1720.00	132072	0.0	14.00	13.13	50	25	Top	0	0.744	0.275	1.222	0.909	0.336		13.4	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	-0.01	1745.00	132322	0.0	14.00	13.20	50	25	Top	0	0.762	0.282	1.202	0.916	0.339		13.4	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	0.02	1770.00	132572	0.0	14.00	13.15	50	50	Top	0	0.810	0.299	1.216	0.985	0.364		13.0	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	-0.02	1745.00	132322	0.0	14.00	13.15	100	0	Top	0	0.759	0.282	1.216	0.923	0.343		13.3	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	0.05	1745.00	132322	0.0	14.00	13.16	1	50	Bottom	0	0.000	0.000	1.213	0.000	0.000		52.1	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	0.06	1745.00	132322	0.0	14.00	13.20	50	25	Bottom	0	0.002	0.000	1.202	0.002	0.000		39.2	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	0.02	1745.00	132322	0.0	14.00	13.16	1	50	Right	0	0.004	0.002	1.213	0.005	0.002		36.1	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	0.20	1745.00	132322	0.0	14.00	13.20	50	25	Right	0	0.004	0.002	1.202	0.005	0.002		36.2	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	0.01	1745.00	132322	0.0	14.00	13.16	1	50	Left	0	0.058	0.026	1.213	0.070	0.032		24.5	
Body	LTE Band 66	20	QPSK	4b	HV2K9	1:1	-0.19	1745.00	132322	0.0	14.00	13.20	50	25	Left	0	0.061	0.028	1.202	0.073	0.034		24.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.11 LTE Band 25 (PCS) Standalone SAR

Table 10-27 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	0.04	1860.00	26140	0.0	15.50	14.12	1	50	Back	0	0.692	0.286	1.374	0.951	0.393		14.7	14.7
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	0.07	1882.50	26365	0.0	15.50	14.35	1	50	Back	0	0.710	0.293	1.303	0.925	0.382		14.8	
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	-0.01	1905.00	26590	0.0	15.50	14.24	1	0	Back	0	0.712	0.295	1.337	0.952	0.394		14.7	
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	-0.02	1860.00	26140	0.0	15.50	14.37	50	25	Back	0	0.690	0.285	1.297	0.895	0.370		15.0	
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	0.02	1882.50	26365	0.0	15.50	14.38	50	25	Back	0	0.721	0.296	1.294	0.933	0.383		14.8	
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	0.01	1905.00	26590	0.0	15.50	14.28	50	0	Back	0	0.720	0.302	1.324	0.953	0.400		14.7	
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	-0.03	1882.50	26365	0.0	15.50	14.33	100	0	Back	0	0.710	0.293	1.309	0.929	0.384		14.8	
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	0.09	1882.50	26365	0.0	15.50	14.35	1	50	Top	0	0.000	0.000	1.303	0.000	0.000		53.3	
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	0.02	1882.50	26365	0.0	15.50	14.38	50	25	Top	0	0.000	0.000	1.294	0.000	0.000		53.4	
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	-0.04	1882.50	26365	0.0	15.50	14.35	1	50	Bottom	0	0.297	0.117	1.303	0.387	0.152		18.6	
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	0.01	1882.50	26365	0.0	15.50	14.38	50	25	Bottom	0	0.314	0.123	1.294	0.406	0.159		18.4	
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	0.11	1882.50	26365	0.0	15.50	14.35	1	50	Right	0	0.012	0.004	1.303	0.016	0.005		32.5	
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	-0.11	1882.50	26365	0.0	15.50	14.38	50	25	Right	0	0.013	0.005	1.294	0.017	0.006		32.2	
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	0.03	1882.50	26365	0.0	15.50	14.35	1	50	Left	0	0.381	0.136	1.303	0.496	0.177		17.5	
Body	LTE Band 25	20	QPSK	1	PFJKX	1:1	-0.01	1882.50	26365	0.0	15.50	14.38	50	25	Left	0	0.375	0.135	1.294	0.485	0.175		17.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-28 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	-0.02	1860.00	26140	0.0	13.80	12.72	1	50	Back	0	0.656	0.280	1.282	0.841	0.359		13.5	13.1
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.01	1882.50	26365	0.0	13.80	12.53	1	50	Back	0	0.669	0.285	1.340	0.896	0.382		13.3	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.00	1905.00	26590	0.0	13.80	12.68	1	50	Back	0	0.705	0.300	1.294	0.912	0.388		13.2	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.01	1860.00	26140	0.0	13.80	12.73	50	25	Back	0	0.668	0.286	1.279	0.854	0.366		13.5	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.01	1882.50	26365	0.0	13.80	12.71	50	50	Back	0	0.694	0.296	1.285	0.892	0.380		13.3	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	-0.01	1905.00	26590	0.0	13.80	12.69	50	50	Back	0	0.721	0.307	1.291	0.931	0.396		13.1	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.02	1860.00	26140	0.0	13.80	12.65	100	0	Back	0	0.659	0.282	1.303	0.859	0.367		13.4	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.07	1860.00	26140	0.0	13.80	12.72	1	50	Top	0	0.000	0.000	1.282	0.000	0.000		51.7	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.08	1860.00	26140	0.0	13.80	12.73	50	25	Top	0	0.000	0.000	1.279	0.000	0.000		51.7	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	-0.03	1860.00	26140	0.0	13.80	12.72	1	50	Bottom	0	0.625	0.234	1.282	0.801	0.300		13.7	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.03	1882.50	26365	0.0	13.80	12.53	1	50	Bottom	0	0.655	0.243	1.340	0.878	0.326		13.3	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	-0.03	1905.00	26590	0.0	13.80	12.68	1	50	Bottom	0	0.665	0.247	1.294	0.861	0.320		13.4	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.02	1860.00	26140	0.0	13.80	12.73	50	25	Bottom	0	0.643	0.241	1.279	0.822	0.308		13.6	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.01	1882.50	26365	0.0	13.80	12.71	50	50	Bottom	0	0.658	0.245	1.285	0.846	0.315		13.5	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.01	1905.00	26590	0.0	13.80	12.69	50	50	Bottom	0	0.682	0.253	1.291	0.880	0.327		13.3	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.00	1860.00	26140	0.0	13.80	12.65	100	0	Bottom	0	0.637	0.238	1.303	0.830	0.310		13.6	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.08	1860.00	26140	0.0	13.80	12.72	1	50	Right	0	0.034	0.016	1.282	0.044	0.021		26.4	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.02	1860.00	26140	0.0	13.80	12.73	50	25	Right	0	0.034	0.015	1.279	0.043	0.019		26.4	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.06	1860.00	26140	0.0	13.80	12.72	1	50	Left	0	0.015	0.005	1.282	0.019	0.006		29.9	
Body	LTE Band 25	20	QPSK	2b	FDHG7	1:1	0.03	1860.00	26140	0.0	13.80	12.73	50	25	Left	0	0.017	0.006	1.279	0.022	0.008		29.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 10-29 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	0.01	1860.00	26140	0.0	16.00	14.77	1	99	Back	0	0.528	0.257	1.327	0.701	0.341		16.5	15.1
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	-0.01	1860.00	26140	0.0	16.00	14.82	50	25	Back	0	0.554	0.269	1.312	0.727	0.353		16.4	
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	0.15	1860.00	26140	0.0	16.00	14.77	1	99	Top	0	0.349	0.139	1.327	0.463	0.184		18.3	
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	-0.01	1860.00	26140	0.0	16.00	14.82	50	25	Top	0	0.355	0.143	1.312	0.466	0.188		18.3	
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	0.05	1860.00	26140	0.0	16.00	14.77	1	99	Bottom	0	0.017	0.006	1.327	0.023	0.008		31.4	
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	0.03	1860.00	26140	0.0	16.00	14.82	50	25	Bottom	0	0.018	0.007	1.312	0.024	0.009		31.2	
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	-0.07	1860.00	26140	0.0	16.00	14.77	1	99	Right	0	0.603	0.251	1.327	0.800	0.333		15.9	
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	-0.07	1882.50	26365	0.0	16.00	14.72	1	50	Right	0	0.623	0.257	1.343	0.837	0.345		15.8	
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	-0.01	1905.00	26590	0.0	16.00	14.42	1	50	Right	0	0.681	0.282	1.439	0.980	0.406		15.1	
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	-0.02	1860.00	26140	0.0	16.00	14.82	50	25	Right	0	0.621	0.259	1.312	0.815	0.340		15.9	
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	-0.02	1882.50	26365	0.0	16.00	14.75	50	50	Right	0	0.639	0.265	1.334	0.852	0.354		15.7	
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	-0.01	1905.00	26590	0.0	16.00	14.64	50	50	Right	0	0.658	0.272	1.368	0.900	0.372		15.4	
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	0.03	1860.00	26140	0.0	16.00	14.73	100	0	Right	0	0.626	0.260	1.340	0.839	0.348		15.7	
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	0.01	1860.00	26140	0.0	16.00	14.77	1	99	Left	0	0.000	0.000	1.327	0.000	0.000		53.8	
Body	LTE Band 25	20	QPSK	3	HV2K9	1:1	0.05	1860.00	26140	0.0	16.00	14.82	50	25	Left	0	0.000	0.000	1.312	0.000	0.000		53.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-30 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	-0.06	1882.50	26365	0.0	13.30	12.72	1	50	Back	0	0.678	0.281	1.143	0.775	0.321		13.4	12.6
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	0.03	1882.50	26365	0.0	13.30	12.78	50	50	Back	0	0.692	0.287	1.127	0.780	0.323		13.4	
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	-0.04	1860.00	26140	0.0	13.30	12.62	1	99	Top	0	0.753	0.278	1.169	0.880	0.325		12.8	
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	-0.02	1882.50	26365	0.0	13.30	12.72	1	50	Top	0	0.783	0.294	1.143	0.895	0.336		12.8	
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	-0.01	1905.00	26590	0.0	13.30	12.71	1	50	Top	0	0.805	0.301	1.146	0.923	0.345		12.6	
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	0.02	1860.00	26140	0.0	13.30	12.69	50	50	Top	0	0.765	0.286	1.151	0.881	0.329		12.8	
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	0.03	1882.50	26365	0.0	13.30	12.78	50	50	Top	0	0.807	0.302	1.127	0.909	0.340	A11	12.7	
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	-0.01	1905.00	26590	0.0	13.30	12.77	50	25	Top	0	0.800	0.299	1.130	0.904	0.338		12.7	
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	0.00	1905.00	26590	0.0	13.30	12.71	100	0	Top	0	0.804	0.300	1.146	0.921	0.344		12.6	
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	0.02	1882.50	26365	0.0	13.30	12.72	1	50	Bottom	0	0.000	0.000	1.143	0.000	0.000		51.7	
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	0.06	1882.50	26365	0.0	13.30	12.78	50	50	Bottom	0	0.000	0.000	1.127	0.000	0.000		51.8	
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	0.04	1882.50	26365	0.0	13.30	12.72	1	50	Right	0	0.006	0.002	1.143	0.007	0.002		33.9	
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	-0.15	1882.50	26365	0.0	13.30	12.78	50	50	Right	0	0.006	0.002	1.127	0.007	0.002		34.0	
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	0.03	1882.50	26365	0.0	13.30	12.72	1	50	Left	0	0.012	0.004	1.143	0.014	0.005		30.9	
Body	LTE Band 25	20	QPSK	4b	HV2K9	1:1	-0.20	1882.50	26365	0.0	13.30	12.78	50	50	Left	0	0.012	0.004	1.127	0.014	0.005		31.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.12 LTE Band 30 Standalone SAR

Table 10-31 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	1	YGX23	1:1	-0.08	2310.00	27710	0.0	14.90	14.41	1	25	Back	0	0.851	0.341	1.119	0.952	0.382		14.1	14.0
Body	LTE Band 30	10	QPSK	1	YGX23	1:1	-0.03	2310.00	27710	0.0	14.90	14.33	25	12	Back	0	0.853	0.342	1.140	0.972	0.390	A12	14.0	
Body	LTE Band 30	10	QPSK	1	YGX23	1:1	0.00	2310.00	27710	0.0	14.90	14.27	50	0	Back	0	0.847	0.339	1.156	0.979	0.392		14.0	
Body	LTE Band 30	10	QPSK	1	YGX23	1:1	0.01	2310.00	27710	0.0	14.90	14.41	1	25	Top	0	0.000	0.000	1.119	0.000	0.000		53.4	
Body	LTE Band 30	10	QPSK	1	YGX23	1:1	0.04	2310.00	27710	0.0	14.90	14.33	25	12	Top	0	0.000	0.000	1.140	0.000	0.000		53.3	
Body	LTE Band 30	10	QPSK	1	YGX23	1:1	-0.03	2310.00	27710	0.0	14.90	14.41	1	25	Bottom	0	0.494	0.176	1.119	0.553	0.197		16.5	
Body	LTE Band 30	10	QPSK	1	YGX23	1:1	0.01	2310.00	27710	0.0	14.90	14.33	25	12	Bottom	0	0.491	0.174	1.140	0.560	0.198		16.4	
Body	LTE Band 30	10	QPSK	1	YGX23	1:1	0.01	2310.00	27710	0.0	14.90	14.41	1	25	Right	0	0.007	0.003	1.119	0.008	0.003		34.9	
Body	LTE Band 30	10	QPSK	1	YGX23	1:1	0.02	2310.00	27710	0.0	14.90	14.33	25	12	Right	0	0.009	0.003	1.140	0.010	0.003		33.8	
Body	LTE Band 30	10	QPSK	1	YGX23	1:1	0.01	2310.00	27710	0.0	14.90	14.41	1	25	Left	0	0.541	0.200	1.119	0.605	0.224		16.1	
Body	LTE Band 30	10	QPSK	1	YGX23	1:1	-0.01	2310.00	27710	0.0	14.90	14.33	25	12	Left	0	0.541	0.200	1.140	0.617	0.228		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										

Table 10-32 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	2b	27K9T	1:1	0.01	2310.00	27710	0.0	13.10	12.04	1	0	Back	0	0.703	0.271	1.276	0.897	0.346		12.6	12.2
Body	LTE Band 30	10	QPSK	2b	27K9T	1:1	-0.02	2310.00	27710	0.0	13.10	12.05	25	12	Back	0	0.720	0.277	1.274	0.917	0.353		12.5	
Body	LTE Band 30	10	QPSK	2b	27K9T	1:1	-0.02	2310.00	27710	0.0	13.10	12.03	50	0	Back	0	0.709	0.273	1.279	0.907	0.349		12.5	
Body	LTE Band 30	10	QPSK	2b	27K9T	1:1	0.02	2310.00	27710	0.0	13.10	12.04	1	0	Top	0	0.005	0.001	1.276	0.006	0.001		34.0	
Body	LTE Band 30	10	QPSK	2b	27K9T	1:1	0.09	2310.00	27710	0.0	13.10	12.05	25	12	Top	0	0.005	0.002	1.274	0.006	0.003		34.0	
Body	LTE Band 30	10	QPSK	2b	27K9T	1:1	-0.06	2310.00	27710	0.0	13.10	12.04	1	0	Bottom	0	0.755	0.268	1.276	0.963	0.342		12.2	
Body	LTE Band 30	10	QPSK	2b	27K9T	1:1	-0.05	2310.00	27710	0.0	13.10	12.05	25	12	Bottom	0	0.764	0.269	1.274	0.973	0.343		12.2	
Body	LTE Band 30	10	QPSK	2b	27K9T	1:1	-0.03	2310.00	27710	0.0	13.10	12.03	50	0	Bottom	0	0.762	0.269	1.279	0.975	0.344		12.2	
Body	LTE Band 30	10	QPSK	2b	27K9T	1:1	0.09	2310.00	27710	0.0	13.10	12.04	1	0	Right	0	0.024	0.010	1.276	0.031	0.013		27.2	
Body	LTE Band 30	10	QPSK	2b	27K9T	1:1	-0.08	2310.00	27710	0.0	13.10	12.05	25	12	Right	0	0.024	0.009	1.274	0.031	0.011		27.2	
Body	LTE Band 30	10	QPSK	2b	27K9T	1:1	0.08	2310.00	27710	0.0	13.10	12.04	1	0	Left	0	0.008	0.003	1.276	0.010	0.004		32.0	
Body	LTE Band 30	10	QPSK	2b	27K9T	1:1	0.05	2310.00	27710	0.0	13.10	12.05	25	12	Left	0	0.007	0.003	1.274	0.009	0.004		32.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 10-33 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	3	7XTYO	1:1	-0.17	2310.00	27710	0.0	14.40	13.96	1	25	Back	0	0.822	0.302	1.107	0.910	0.334		13.8	
Body	LTE Band 30	10	QPSK	3	7XTYO	1:1	-0.07	2310.00	27710	0.0	14.40	14.05	25	12	Back	0	0.831	0.304	1.084	0.901	0.330		13.8	
Body	LTE Band 30	10	QPSK	3	7XTYO	1:1	-0.15	2310.00	27710	0.0	14.40	13.95	50	0	Back	0	0.814	0.298	1.109	0.903	0.330		13.8	
Body	LTE Band 30	10	QPSK	3	7XTYO	1:1	0.02	2310.00	27710	0.0	14.40	13.96	1	25	Top	0	0.691	0.250	1.107	0.765	0.277		14.5	
Body	LTE Band 30	10	QPSK	3	7XTYO	1:1	-0.03	2310.00	27710	0.0	14.40	14.05	25	12	Top	0	0.716	0.251	1.084	0.776	0.272		14.5	
Body	LTE Band 30	10	QPSK	3	7XTYO	1:1	0.02	2310.00	27710	0.0	14.40	13.96	1	25	Bottom	0	0.000	0.000	1.107	0.000	0.000		52.9	13.8
Body	LTE Band 30	10	QPSK	3	7XTYO	1:1	0.02	2310.00	27710	0.0	14.40	14.05	25	12	Bottom	0	0.000	0.000	1.084	0.000	0.000		53.0	
Body	LTE Band 30	10	QPSK	3	7XTYO	1:1	0.01	2310.00	27710	0.0	14.40	13.96	1	25	Right	0	0.119	0.039	1.107	0.132	0.043		22.2	
Body	LTE Band 30	10	QPSK	3	7XTYO	1:1	-0.02	2310.00	27710	0.0	14.40	14.05	25	12	Right	0	0.120	0.040	1.084	0.130	0.043		22.2	
Body	LTE Band 30	10	QPSK	3	7XTYO	1:1	0.12	2310.00	27710	0.0	14.40	13.96	1	25	Left	0	0.013	0.005	1.107	0.014	0.006		31.8	
Body	LTE Band 30	10	QPSK	3	7XTYO	1:1	0.03	2310.00	27710	0.0	14.40	14.05	25	12	Left	0	0.013	0.005	1.084	0.014	0.005		31.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-34 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	4b	FH74G	1:1	-0.08	2310.00	27710	0.0	12.80	11.49	1	25	Back	0	0.334	0.136	1.352	0.452	0.184		15.2	
Body	LTE Band 30	10	QPSK	4b	FH74G	1:1	0.02	2310.00	27710	0.0	12.80	11.54	25	12	Back	0	0.323	0.130	1.337	0.432	0.174		15.4	
Body	LTE Band 30	10	QPSK	4b	FH74G	1:1	0.00	2310.00	27710	0.0	12.80	11.49	1	25	Top	0	0.721	0.251	1.352	0.975	0.339		11.9	
Body	LTE Band 30	10	QPSK	4b	FH74G	1:1	0.03	2310.00	27710	0.0	12.80	11.54	25	12	Top	0	0.722	0.251	1.337	0.965	0.336		11.9	
Body	LTE Band 30	10	QPSK	4b	FH74G	1:1	0.00	2310.00	27710	0.0	12.80	11.45	50	0	Top	0	0.717	0.250	1.365	0.979	0.341		11.9	
Body	LTE Band 30	10	QPSK	4b	FH74G	1:1	0.09	2310.00	27710	0.0	12.80	11.49	1	25	Bottom	0	0.001	0.000	1.352	0.001	0.000		40.5	11.9
Body	LTE Band 30	10	QPSK	4b	FH74G	1:1	0.04	2310.00	27710	0.0	12.80	11.54	25	12	Bottom	0	0.000	0.000	1.337	0.000	0.000		50.5	
Body	LTE Band 30	10	QPSK	4b	FH74G	1:1	-0.12	2310.00	27710	0.0	12.80	11.49	1	25	Right	0	0.010	0.004	1.352	0.014	0.005		30.5	
Body	LTE Band 30	10	QPSK	4b	FH74G	1:1	0.06	2310.00	27710	0.0	12.80	11.54	25	12	Right	0	0.011	0.004	1.337	0.015	0.005		30.1	
Body	LTE Band 30	10	QPSK	4b	FH74G	1:1	0.09	2310.00	27710	0.0	12.80	11.49	1	25	Left	0	0.014	0.005	1.352	0.019	0.007		29.0	
Body	LTE Band 30	10	QPSK	4b	FH74G	1:1	0.10	2310.00	27710	0.0	12.80	11.54	25	12	Left	0	0.013	0.006	1.337	0.017	0.008		29.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.13 LTE Band 7 Standalone SAR

Table 10-35 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	1	QWMK4	1:1	0.01	2510.00	20850	0.0	13.6	13.50	1	50	Back	0	0.965	0.311	1.023	0.987	0.318	A13	12.6	
Body	LTE Band 7	20	QPSK	1	QWMK4	1:1	0.00	2510.00	20850	0.0	13.6	13.25	1	99	Back	0	0.848	0.272	1.084	0.919	0.295		12.9	
Body	LTE Band 7	20	QPSK	1	QWMK4	1:1	0.04	2535.00	21100	0.0	13.6	13.51	1	50	Back	0	0.931	0.298	1.021	0.951	0.304		12.8	
Body	LTE Band 7	20	QPSK	1	QWMK4	1:1	0.04	2560.00	21350	0.0	13.6	13.43	1	50	Back	0	0.901	0.291	1.040	0.937	0.303		12.9	
Body	LTE Band 7	20	QPSK	1	QWMK4	1:1	-0.02	2510.00	20850	0.0	13.6	13.48	50	0	Back	0	0.882	0.298	1.028	0.907	0.306		13.0	
Body	LTE Band 7	20	QPSK	1	QWMK4	1:1	0.02	2535.00	21100	0.0	13.6	13.54	50	0	Back	0	0.948	0.301	1.014	0.961	0.305		12.8	
Body	LTE Band 7	20	QPSK	1	QWMK4	1:1	0.01	2535.00	21100	0.0	13.6	13.54	50	0	Back	0	0.931	0.297	1.014	0.944	0.301		12.8	
Body	LTE Band 7	20	QPSK	1	QWMK4	1:1	0.03	2560.00	21350	0.0	13.6	13.49	50	0	Back	0	0.931	0.297	1.026	0.955	0.305		12.8	
Body	LTE Band 7	20	QPSK	1	QWMK4	1:1	-0.06	2535.00	21100	0.0	13.6	13.44	100	0	Back	0	0.912	0.295	1.038	0.947	0.306		12.8	
Body	LTE Band 7	20	QPSK	1	MVHMV	1:1	0.01	2535.00	21100	0.0	13.6	13.51	1	50	Top	0	0.004	0.003	1.021	0.004	0.003		36.5	12.6
Body	LTE Band 7	20	QPSK	1	MVHMV	1:1	0.08	2535.00	21100	0.0	13.6	13.54	50	0	Top	0	0.002	0.001	1.014	0.002	0.001		39.5	
Body	LTE Band 7	20	QPSK	1	QWMK4	1:1	-0.05	2535.00	21100	0.0	13.6	13.51	1	50	Bottom	0	0.518	0.175	1.021	0.529	0.179		15.3	
Body	LTE Band 7	20	QPSK	1	QWMK4	1:1	0.14	2535.00	21100	0.0	13.6	13.54	50	0	Bottom	0	0.528	0.177	1.014	0.535	0.179		15.3	
Body	LTE Band 7	20	QPSK	1	MVHMV	1:1	0.08	2535.00	21100	0.0	13.6	13.51	1	50	Right	0	0.021	0.008	1.021	0.021	0.008		29.3	
Body	LTE Band 7	20	QPSK	1	MVHMV	1:1	0.03	2535.00	21100	0.0	13.6	13.54	50	0	Right	0	0.019	0.007	1.014	0.019	0.007		29.7	
Body	LTE Band 7	20	QPSK	1	QWMK4	1:1	-0.04	2535.00	21100	0.0	13.6	13.51	1	50	Left	0	0.252	0.078	1.021	0.257	0.080		18.5	
Body	LTE Band 7	20	QPSK	1	QWMK4	1:1	0.01	2535.00	21100	0.0	13.6	13.54	50	0	Left	0	0.269	0.082	1.014	0.273	0.083		18.2	
Body	LTE Band 7	20	QPSK	1	QWMK4	1:1	-0.01	2510.00	20850	0.0	13.6	13.20	1	99	Back	0	0.879	0.281	1.096	0.963	0.308		12.7	
		20						2529.80	21048				1	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: Blue entry represents variability measurement

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Table 10-36 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	-0.03	2535.00	21100	0.0	13.00	11.91	1	50	Back	0	N/A	0.622	0.223	1.285	0.799	0.287		13.0	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	0.01	2510.00	20850	0.0	13.00	11.69	50	0	Back	0	N/A	0.635	0.227	1.352	0.859	0.307		12.6	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	-0.01	2535.00	21100	0.0	13.00	11.76	50	25	Back	0	N/A	0.643	0.229	1.330	0.855	0.305		12.7	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	0.00	2560.00	21350	0.0	13.00	11.59	50	25	Back	0	N/A	0.652	0.231	1.384	0.902	0.320		12.4	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	-0.04	2510.00	20850	0.0	13.00	11.71	100	0	Back	0	N/A	0.633	0.226	1.346	0.852	0.304		12.7	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	0.09	2535.00	21100	0.0	13.00	11.91	1	50	Top	0	N/A	0.003	0.000	1.285	0.004	0.000		36.1	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	0.09	2535.00	21100	0.0	13.00	11.76	50	25	Top	0	N/A	0.003	0.000	1.330	0.004	0.000		36.0	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	0.00	2510.00	20850	0.0	13.00	11.66	1	50	Bottom	0	N/A	0.674	0.224	1.361	0.917	0.305		12.4	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	-0.01	2535.00	21100	0.0	13.00	11.91	1	50	Bottom	0	N/A	0.662	0.221	1.285	0.851	0.284		12.7	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	-0.02	2560.00	21350	0.0	13.00	11.49	1	50	Bottom	0	N/A	0.696	0.229	1.416	0.986	0.324		12.0	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	-0.05	2560.00	21350	0.0	13.00	11.45	1	0	Bottom	0	N/A	0.677	0.223	1.429	0.967	0.319		12.1	12.0
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	-0.03	2510.00	20850	0.0	13.00	11.69	50	0	Bottom	0	N/A	0.674	0.223	1.352	0.911	0.301		12.4	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	-0.01	2535.00	21100	0.0	13.00	11.76	50	25	Bottom	0	N/A	0.682	0.227	1.330	0.907	0.302		12.4	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	0.00	2560.00	21350	0.0	13.00	11.59	50	25	Bottom	0	N/A	0.707	0.231	1.384	0.978	0.320		12.1	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	-0.03	2510.00	20850	0.0	13.00	11.71	100	0	Bottom	0	N/A	0.682	0.226	1.346	0.918	0.304		12.4	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	-0.04	2535.00	21100	0.0	13.00	11.91	1	50	Right	0	N/A	0.032	0.013	1.285	0.041	0.017		25.8	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	0.05	2535.00	21100	0.0	13.00	11.76	50	25	Right	0	N/A	0.033	0.014	1.330	0.044	0.019		25.6	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	-0.01	2535.00	21100	0.0	13.00	11.91	1	50	Left	0	N/A	0.030	0.028	1.285	0.039	0.036		26.1	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	0.05	2525.00	21100	0.0	13.00	11.76	50	25	Left	0	N/A	0.028	0.025	1.330	0.037	0.033		26.3	
Body	LTE Band 7	20	QPSK	2b	4QXHR	1:1	0.00	2560.00	21350	0.0	13.00	11.78	1	0	Bottom	0	ULCA 7C	0.727	0.240	1.324	0.963	0.318		12.1	
		20						2540.20	21152				1	99											
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 10-37 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	-0.01	2510.00	20850	0.0	14.00	13.49	1	50	Back	0	N/A	0.609	0.203	1.125	0.685	0.228		14.6	
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	-0.07	2535.00	21100	0.0	14.00	13.50	1	50	Back	0	N/A	0.744	0.247	1.122	0.835	0.277		13.8	
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	0.01	2560.00	21350	0.0	14.00	13.41	1	50	Back	0	N/A	0.851	0.279	1.146	0.975	0.320		13.1	
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	0.00	2510.00	20850	0.0	14.00	13.50	50	0	Back	0	N/A	0.598	0.200	1.122	0.671	0.224		14.7	
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	-0.04	2535.00	21100	0.0	14.00	13.78	50	25	Back	0	N/A	0.747	0.247	1.052	0.786	0.260		14.0	
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	0.00	2560.00	21350	0.0	14.00	13.47	50	25	Back	0	N/A	0.873	0.286	1.130	0.986	0.323		13.0	
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	-0.02	2560.00	21350	0.0	14.00	13.43	50	0	Back	0	N/A	0.834	0.273	1.140	0.951	0.311		13.2	
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	0.04	2535.00	21100	0.0	14.00	13.49	100	0	Back	0	N/A	0.733	0.243	1.125	0.825	0.273		13.8	
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	0.01	2535.00	21100	0.0	14.00	13.50	1	50	Top	0	N/A	0.425	0.136	1.122	0.477	0.153		16.2	
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	0.01	2535.00	21100	0.0	14.00	13.78	50	25	Top	0	N/A	0.435	0.139	1.052	0.458	0.146		16.4	13.0
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	0.08	2535.00	21100	0.0	14.00	13.50	1	50	Bottom	0	N/A	0.004	0.000	1.122	0.004	0.000		36.5	
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	0.03	2535.00	21100	0.0	14.00	13.78	50	25	Bottom	0	N/A	0.006	0.002	1.052	0.006	0.002		35.0	
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	-0.08	2535.00	21100	0.0	14.00	13.50	1	50	Right	0	N/A	0.229	0.084	1.122	0.257	0.094		18.9	
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	-0.02	2535.00	21100	0.0	14.00	13.78	50	25	Right	0	N/A	0.250	0.091	1.052	0.263	0.096		18.8	
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	-0.09	2535.00	21100	0.0	14.00	13.50	1	50	Left	0	N/A	0.016	0.006	1.122	0.018	0.007		30.4	
Body	LTE Band 7	20	QPSK	3	FH74G	1:1	0.05	2535.00	21100	0.0	14.00	13.78	50	25	Left	0	N/A	0.017	0.007	1.052	0.018	0.007		30.5	
Body	LTE Band 7	20	QPSK	3	GX4G2	1:1	0.00	2560.00	21350	0.0	14.00	13.10	50	0	Back	0	ULCA 7C	0.803	0.267	1.23	0.988	0.328		13.0	
		20						2540.20	21152				50	50											
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 10-38 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	-0.04	2560.00	21350	0.0	12.20	11.11	1	50	Back	0	N/A	0.598	0.202	1.285	0.768	0.260		13.3	
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	0.02	2560.00	21350	0.0	12.20	11.12	50	0	Back	0	N/A	0.614	0.209	1.282	0.787	0.268		13.2	
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	-0.09	2510.00	20850	0.0	12.20	11.02	1	99	Top	0	N/A	0.667	0.216	1.312	0.875	0.283		12.7	
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	0.04	2535.00	21100	0.0	12.20	11.02	1	99	Top	0	N/A	0.678	0.219	1.312	0.890	0.287		12.7	
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	-0.04	2560.00	21350	0.0	12.20	11.11	1	50	Top	0	N/A	0.706	0.228	1.285	0.907	0.293		12.6	
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	0.01	2510.00	20850	0.0	12.20	11.06	50	0	Top	0	N/A	0.683	0.222	1.300	0.888	0.289		12.7	
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	-0.04	2535.00	21100	0.0	12.20	11.11	50	0	Top	0	N/A	0.698	0.225	1.285	0.897	0.289		12.6	
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	0.05	2560.00	21350	0.0	12.20	11.12	50	0	Top	0	N/A	0.723	0.233	1.282	0.927	0.299		12.5	
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	-0.07	2560.00	21350	0.0	12.20	11.10	100	0	Top	0	N/A	0.708	0.230	1.288	0.912	0.296		12.5	12.5
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	0.05	2560.00	21350	0.0	12.20	11.11	1	50	Bottom	0	N/A	0.000	0.000	1.285	0.000	0.000		51.1	
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	0.09	2560.00	21350	0.0	12.20	11.12	50	0	Bottom	0	N/A	0.000	0.000	1.282	0.000	0.000		51.1	
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	0.13	2560.00	21350	0.0	12.20	11.11	1	50	Right	0	N/A	0.018	0.007	1.285	0.023	0.009		28.5	
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	0.07	2560.00	21350	0.0	12.20	11.12	50	0	Right	0	N/A	0.017	0.005	1.282	0.022	0.006		28.8	
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	-0.08	2560.00	21350	0.0	12.20	11.11	1	50	Left	0	N/A	0.011	0.004	1.285	0.014	0.005		30.6	
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	0.01	2560.00	21350	0.0	12.20	11.12	50	0	Left	0	N/A	0.011	0.004	1.282	0.014	0.005		30.7	
Body	LTE Band 7	20	QPSK	4b	FH74G	1:1	-0.01	2560.00	21350	0.0	12.20	11.08	50	0	Top	0	ULCA 7C	0.682	0.218	1.294	0.883	0.282		12.7	
		20						2540.20	21152				50	50											
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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10.14 LTE Band 41 Standalone SAR

Table 10-39 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	0.02	2506.00	39750	0.0	15.20	14.07	1	50	Back	0	N/A	0.695	0.226	1.297	0.901	0.293		12.6	12.6
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	0.00	2549.50	40185	0.0	15.20	14.12	1	0	Back	0	N/A	0.680	0.217	1.282	0.872	0.278		12.8	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	-0.07	2593.00	40620	0.0	15.20	14.10	1	99	Back	0	N/A	0.701	0.219	1.288	0.903	0.282		12.6	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:2.31	-0.03	2593.00	40620	0.0	16.80	15.66	1	99	Back	0	N/A	0.671	0.209	1.300	0.872	0.272		12.7	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	0.02	2636.50	41055	0.0	15.20	14.11	1	99	Back	0	N/A	0.689	0.209	1.285	0.885	0.269		12.7	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	0.03	2680.00	41490	0.0	15.20	14.16	1	99	Back	0	N/A	0.694	0.210	1.271	0.882	0.267		12.7	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	0.01	2506.00	39750	0.0	15.20	14.11	50	0	Back	0	N/A	0.694	0.226	1.285	0.892	0.290		12.7	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	-0.01	2549.50	40185	0.0	15.20	14.18	50	0	Back	0	N/A	0.695	0.221	1.265	0.879	0.280		12.8	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	0.01	2593.00	40620	0.0	15.20	14.16	50	25	Back	0	N/A	0.707	0.222	1.271	0.899	0.282		12.7	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	-0.03	2636.50	41055	0.0	15.20	14.13	50	25	Back	0	N/A	0.673	0.204	1.279	0.861	0.261		12.8	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	0.00	2680.00	41490	0.0	15.20	14.19	50	25	Back	0	N/A	0.663	0.201	1.262	0.837	0.254		13.0	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	-0.12	2680.00	41490	0.0	15.20	14.15	100	0	Back	0	N/A	0.705	0.213	1.274	0.898	0.271		12.7	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	0.03	2680.00	41490	0.0	15.20	14.16	1	99	Top	0	N/A	0.006	0.000	1.271	0.008	0.000		33.4	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	0.02	2680.00	41490	0.0	15.20	14.19	50	25	Top	0	N/A	0.000	0.000	1.262	0.000	0.000		51.2	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	-0.02	2680.00	41490	0.0	15.20	14.16	1	99	Bottom	0	N/A	0.467	0.152	1.271	0.594	0.193		14.5	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	0.03	2680.00	41490	0.0	15.20	14.19	50	25	Bottom	0	N/A	0.472	0.154	1.262	0.596	0.194		14.4	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	0.20	2680.00	41490	0.0	15.20	14.16	1	99	Right	0	N/A	0.016	0.006	1.271	0.020	0.008		29.1	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	-0.09	2680.00	41490	0.0	15.20	14.19	50	25	Right	0	N/A	0.016	0.006	1.262	0.020	0.008		29.1	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	-0.02	2680.00	41490	0.0	15.20	14.16	1	99	Left	0	N/A	0.386	0.120	1.271	0.491	0.153		15.3	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	-0.01	2680.00	41490	0.0	15.20	14.19	50	25	Left	0	N/A	0.428	0.134	1.262	0.540	0.169		14.9	
Body	LTE Band 41	20	QPSK	1	QWMK4	1:1.58	0.01	2593.00	40620	0.0	15.20	13.95	1	99	Back	0	ULCA 41C	0.645	0.200	1.334	0.860	0.267		12.9	
		20						2612.80	40818				1	0											
Body	LTE Band 41	20	QPSK	1	QWMK4	1:2.31	-0.03	2593.00	40620	0.0	16.80	15.70	1	99	Back	0	ULCA 41C	0.661	0.203	1.288	0.851	0.261		12.8	
		20						2612.80	40818				1	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: Green entry represents HPUE measurement

Table 10-40 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	-0.12	2506.00	39750	0.0	14.50	13.69	1	99	Back	0	N/A	0.722	0.257	1.205	0.870	0.310		12.1	11.5
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.00	2549.50	40185	0.0	14.50	13.77	1	50	Back	0	N/A	0.746	0.263	1.183	0.883	0.311		12.0	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.00	2593.00	40620	0.0	14.50	13.78	1	50	Back	0	N/A	0.743	0.259	1.180	0.877	0.306		12.1	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	-0.02	2636.50	41055	0.0	14.50	13.78	1	99	Back	0	N/A	0.755	0.260	1.180	0.891	0.307		12.0	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	-0.06	2680.00	41490	0.0	14.50	13.95	1	99	Back	0	N/A	0.721	0.242	1.135	0.818	0.275		12.4	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	-0.02	2506.00	39750	0.0	14.50	13.82	50	0	Back	0	N/A	0.739	0.264	1.169	0.864	0.309		12.1	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	-0.06	2549.50	40185	0.0	14.50	13.88	50	0	Back	0	N/A	0.749	0.265	1.153	0.864	0.306		12.1	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	-0.11	2593.00	40620	0.0	14.50	13.81	50	25	Back	0	N/A	0.742	0.260	1.172	0.870	0.305		12.1	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	-0.05	2636.50	41055	0.0	14.50	13.83	50	25	Back	0	N/A	0.768	0.263	1.167	0.896	0.307		12.0	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.01	2680.00	41490	0.0	14.50	13.97	50	25	Back	0	N/A	0.752	0.252	1.130	0.850	0.285		12.2	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.05	2680.00	41490	0.0	14.50	13.94	100	0	Back	0	N/A	0.754	0.253	1.138	0.858	0.288		12.2	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.02	2680.00	41490	0.0	14.50	13.95	1	99	Top	0	N/A	0.000	0.000	1.135	0.000	0.000		50.9	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.06	2680.00	41490	0.0	14.50	13.97	50	25	Top	0	N/A	0.000	0.000	1.130	0.000	0.000		51.0	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	-0.01	2506.00	39750	0.0	14.50	13.69	1	99	Bottom	0	N/A	0.789	0.263	1.205	0.951	0.317		11.7	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.00	2549.50	40185	0.0	14.50	13.77	1	50	Bottom	0	N/A	0.801	0.266	1.183	0.948	0.315		11.7	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.01	2593.00	40620	0.0	14.50	13.78	1	50	Bottom	0	N/A	0.814	0.268	1.180	0.961	0.316		11.7	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.05	2636.50	41055	0.0	14.50	13.78	1	99	Bottom	0	N/A	0.807	0.260	1.180	0.952	0.307		11.7	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.00	2680.00	41490	0.0	14.50	13.95	1	99	Bottom	0	N/A	0.772	0.246	1.135	0.876	0.279		12.1	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	-0.01	2506.00	39750	0.0	14.50	13.82	50	0	Bottom	0	N/A	0.820	0.278	1.169	0.959	0.325		11.7	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.00	2549.50	40185	0.0	14.50	13.88	50	0	Bottom	0	N/A	0.827	0.274	1.153	0.954	0.316		11.7	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.03	2593.00	40620	0.0	14.50	13.81	50	25	Bottom	0	N/A	0.844	0.277	1.172	0.989	0.325	A14	11.5	
Body	LTE Band 41	20	QPSK	2b	022ML	1:2.31	0.03	2593.00	40620	0.0	16.10	15.17	50	25	Bottom	0	N/A	0.758	0.248	1.239	0.939	0.307		11.7	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.00	2593.00	40620	0.0	14.50	13.77	50	0	Bottom	0	N/A	0.818	0.271	1.183	0.968	0.321		11.6	
Body	LTE Band 41	20	QPSK	2b	022ML	1:2.31	0.01	2593.00	40620	0.0	16.10	15.11	50	0	Bottom	0	N/A	0.755	0.247	1.256	0.948	0.310		11.7	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.03	2636.50	41055	0.0	14.50	13.83	50	25	Bottom	0	N/A	0.820	0.265	1.167	0.957	0.309		11.7	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.07	2680.00	41490	0.0	14.50	13.97	50	25	Bottom	0	N/A	0.786	0.253	1.130	0.888	0.286		12.0	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	-0.02	2680.00	41490	0.0	14.50	13.94	100	0	Bottom	0	N/A	0.783	0.252	1.138	0.891	0.287		12.0	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.01	2680.00	41490	0.0	14.50	13.95	1	99	Right	0	N/A	0.026	0.010	1.135	0.030	0.011		26.8	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.03	2680.00	41490	0.0	14.50	13.97	50	25	Right	0	N/A	0.030	0.011	1.130	0.034	0.012		26.2	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.01	2680.00	41490	0.0	14.50	13.95	1	99	Left	0	N/A	0.016	0.005	1.135	0.018	0.006		28.9	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	-0.14	2680.00	41490	0.0	14.50	13.97	50	25	Left	0	N/A	0.016	0.006	1.130	0.018	0.007		28.9	
Body	LTE Band 41	20	QPSK	2b	022ML	1:1.58	0.00	2593.00	40620	0.0	14.50	13.63	50	0	Bottom	0	ULCA 41C	0.799	0.262	1.222	0.976	0.320		11.6	
		20						2573.20	40422				50	50											
Body	LTE Band 41	20	QPSK	2b	022ML	1:2.31	0.01	2593.00	40620	0.0	16.10	15.11	50	0	Bottom	0	ULCA 41C	0.730	0.238	1.256	0.917	0.299		11.8	
		20						2573.20	40422				50	50											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Green entry represents HPUE measurement

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Table 10-41 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	-0.12	2506.00	39750	0.0	14.20	13.27	1	0	Back	0	N/A	0.323	0.109	1.239	0.400	0.135		16.1	12.4
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	0.02	2549.50	40185	0.0	14.20	13.21	1	0	Back	0	N/A	0.402	0.132	1.256	0.505	0.166		15.1	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	0.01	2593.00	40620	0.0	14.20	13.26	1	0	Back	0	N/A	0.562	0.182	1.242	0.698	0.226		13.7	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	-0.01	2636.50	41055	0.0	14.20	13.35	1	0	Back	0	N/A	0.697	0.224	1.216	0.848	0.272		12.9	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	0.00	2680.00	41490	0.0	14.20	13.28	1	0	Back	0	N/A	0.736	0.232	1.236	0.910	0.287		12.6	
Body	LTE Band 41	20	QPSK	3	27K9T	1:2.31	0.01	2680.00	41490	0.0	15.80	14.63	1	0	Back	0	N/A	0.689	0.216	1.309	0.902	0.283		12.6	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	-0.07	2506.00	39750	0.0	14.20	13.32	50	0	Back	0	N/A	0.516	0.172	1.225	0.632	0.211		14.2	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	-0.02	2549.50	40185	0.0	14.20	13.35	50	0	Back	0	N/A	0.430	0.142	1.216	0.523	0.173		15.0	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	-0.02	2593.00	40620	0.0	14.20	13.35	50	0	Back	0	N/A	0.605	0.195	1.216	0.736	0.237		13.5	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	0.00	2636.50	41055	0.0	14.20	13.37	50	0	Back	0	N/A	0.718	0.229	1.211	0.869	0.277		12.8	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	-0.03	2680.00	41490	0.0	14.20	13.36	50	0	Back	0	N/A	0.745	0.234	1.213	0.904	0.284		12.6	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	-0.05	2636.50	41055	0.0	14.20	13.34	100	0	Back	0	N/A	0.724	0.231	1.219	0.883	0.282		12.7	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	0.00	2636.50	41055	0.0	14.20	13.35	1	0	Top	0	N/A	0.388	0.121	1.216	0.472	0.147		15.4	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	0.01	2636.50	41055	0.0	14.20	13.37	50	0	Top	0	N/A	0.398	0.124	1.211	0.482	0.150		15.3	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	0.08	2636.50	41055	0.0	14.20	13.35	1	0	Bottom	0	N/A	0.006	0.002	1.216	0.007	0.002		33.5	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	0.04	2636.50	41055	0.0	14.20	13.37	50	0	Bottom	0	N/A	0.005	0.000	1.211	0.006	0.000		34.3	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	0.05	2636.50	41055	0.0	14.20	13.35	1	0	Right	0	N/A	0.145	0.049	1.216	0.176	0.060		19.7	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	-0.03	2636.50	41055	0.0	14.20	13.37	50	0	Right	0	N/A	0.138	0.046	1.211	0.167	0.056		19.9	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	0.08	2636.50	41055	0.0	14.20	13.35	1	0	Left	0	N/A	0.010	0.004	1.216	0.012	0.005		31.3	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	0.02	2636.50	41055	0.0	14.20	13.37	50	0	Left	0	N/A	0.014	0.006	1.211	0.017	0.007		29.9	
Body	LTE Band 41	20	QPSK	3	27K9T	1:1.58	-0.01	2680.00	41490	0.0	14.20	13.33	1	0	Back	0	ULCA 41C	0.778	0.243	1.222	0.951	0.297		12.4	
		20						2660.20	41292				1	99											
Body	LTE Band 41	20	QPSK	3	27K9T	1:2.31	0.02	2680.00	41490	0.0	15.80	14.62	1	0	Back	0	ULCA 41C	0.691	0.215	1.312	0.907	0.282		12.5	
		20						2660.20	41292				1	99											
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Green entry represents HPUE measurement

Table 10-42 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.01	2506.00	39750	0.0	13.40	12.25	1	99	Back	0	N/A	0.410	0.145	1.303	0.534	0.189		13.1	10.8
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	-0.01	2549.50	40185	0.0	13.40	12.21	1	99	Back	0	N/A	0.466	0.160	1.315	0.613	0.210		12.5	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.00	2593.00	40620	0.0	13.40	12.26	1	99	Back	0	N/A	0.506	0.171	1.300	0.658	0.222		12.2	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.04	2636.50	41055	0.0	13.40	12.09	1	99	Back	0	N/A	0.544	0.183	1.352	0.735	0.247		11.7	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.00	2680.00	41490	0.0	13.40	12.40	1	99	Back	0	N/A	0.569	0.190	1.259	0.716	0.239		11.8	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.01	2506.00	39750	0.0	13.40	12.32	50	25	Back	0	N/A	0.464	0.160	1.282	0.595	0.205		12.7	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.02	2549.50	40185	0.0	13.40	12.30	50	25	Back	0	N/A	0.478	0.163	1.288	0.616	0.210		12.5	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	-0.02	2593.00	40620	0.0	13.40	12.35	50	25	Back	0	N/A	0.508	0.172	1.274	0.647	0.219		12.3	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	-0.03	2636.50	41055	0.0	13.40	12.16	50	25	Back	0	N/A	0.544	0.183	1.330	0.724	0.243		11.8	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	-0.03	2680.00	41490	0.0	13.40	12.42	50	25	Back	0	N/A	0.574	0.192	1.253	0.719	0.241		11.8	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	-0.03	2680.00	41490	0.0	13.40	12.39	100	0	Back	0	N/A	0.622	0.206	1.262	0.785	0.260		11.4	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.04	2506.00	39750	0.0	13.40	12.25	1	99	Top	0	N/A	0.539	0.175	1.303	0.702	0.228		11.9	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.01	2549.50	40185	0.0	13.40	12.21	1	99	Top	0	N/A	0.568	0.183	1.315	0.747	0.241		11.7	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	-0.06	2593.00	40620	0.0	13.40	12.26	1	99	Top	0	N/A	0.633	0.202	1.300	0.823	0.263		11.2	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	-0.03	2636.50	41055	0.0	13.40	12.09	1	99	Top	0	N/A	0.673	0.212	1.352	0.910	0.287		10.8	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:2.31	0.00	2636.50	41055	0.0	15.00	13.85	1	99	Top	0	N/A	0.629	0.199	1.303	0.820	0.259		11.2	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.05	2680.00	41490	0.0	13.40	12.40	1	99	Top	0	N/A	0.713	0.224	1.259	0.898	0.282		10.9	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.01	2506.00	39750	0.0	13.40	12.32	50	25	Top	0	N/A	0.550	0.178	1.282	0.705	0.228		11.9	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	-0.07	2549.50	40185	0.0	13.40	12.30	50	25	Top	0	N/A	0.590	0.190	1.288	0.760	0.245		11.6	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	-0.01	2593.00	40620	0.0	13.40	12.35	50	25	Top	0	N/A	0.653	0.208	1.274	0.832	0.265		11.2	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.01	2636.50	41055	0.0	13.40	12.16	50	25	Top	0	N/A	0.684	0.216	1.330	0.910	0.287		10.8	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.01	2680.00	41490	0.0	13.40	12.42	50	25	Top	0	N/A	0.720	0.227	1.253	0.902	0.284		10.8	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.00	2680.00	41490	0.0	13.40	12.39	100	0	Top	0	N/A	0.651	0.210	1.262	0.822	0.265		11.3	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.01	2680.00	41490	0.0	13.40	12.40	1	99	Bottom	0	N/A	0.000	0.000	1.259	0.000	0.000		49.4	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.04	2680.00	41490	0.0	13.40	12.42	50	25	Bottom	0	N/A	0.001	0.000	1.253	0.001	0.000		39.4	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.08	2680.00	41490	0.0	13.40	12.40	1	99	Right	0	N/A	0.009	0.003	1.259	0.011	0.004		29.9	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.03	2680.00	41490	0.0	13.40	12.42	50	25	Right	0	N/A	0.007	0.002	1.253	0.009	0.003		31.0	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.03	2680.00	41490	0.0	13.40	12.40	1	99	Left	0	N/A	0.025	0.007	1.259	0.031	0.009		25.4	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	-0.15	2680.00	41490	0.0	13.40	12.42	50	25	Left	0	N/A	0.029	0.009	1.253	0.036	0.011		24.8	
Body	LTE Band 41	20	QPSK	4b	FH74G	1:1.58	0.00	2636.50	41055	0.0	13.40	12.22	1	99	Top	0	ULCA 41C	0.677	0.214	1.312	0.888	0.281		10.9	
		20						2656.30	41253				1	0											
Body	LTE Band 41	20	QPSK	4b	FH74G	1:2.31	-0.03	2636.50	41055	0.0	15.00	14.15	1	99	Top	0	ULCA 41C	0.700	0.220	1.216	0.851	0.268		11.0	
		20						2656.30	41253				1	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: Green entry represents HPUE measurement

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10.15 LTE Band 48 Standalone SAR

Table 10-43 Antenna 1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.00	3560.00	55340	0.0	14.00	13.55	1	50	Back	0	N/A	0.626	0.206	1.109	0.694	0.228		12.6	11.0
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.01	3603.30	55773	0.0	14.00	13.61	1	50	Back	0	N/A	0.711	0.230	1.094	0.778	0.252		12.1	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	-0.04	3646.70	56207	0.0	14.00	13.67	1	50	Back	0	N/A	0.811	0.262	1.079	0.875	0.283		11.6	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	-0.03	3690.00	56640	0.0	14.00	13.56	1	50	Back	0	N/A	0.882	0.283	1.107	0.976	0.313		11.1	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.01	3560.00	55340	0.0	14.00	13.63	50	25	Back	0	N/A	0.628	0.207	1.089	0.684	0.225		12.6	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.05	3603.30	55773	0.0	14.00	13.70	50	25	Back	0	N/A	0.734	0.236	1.072	0.787	0.253		12.0	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.01	3646.70	56207	0.0	14.00	13.71	50	25	Back	0	N/A	0.819	0.264	1.069	0.876	0.282		11.6	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.02	3690.00	56640	0.0	14.00	13.61	50	25	Back	0	N/A	0.904	0.286	1.094	0.989	0.313		11.0	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.02	3690.00	56640	0.0	14.00	13.56	50	0	Back	0	N/A	0.810	0.258	1.107	0.897	0.286		11.5	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.04	3646.70	56207	0.0	14.00	13.66	100	0	Back	0	N/A	0.835	0.265	1.081	0.903	0.286		11.4	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.03	3646.70	56207	0.0	14.00	13.67	1	50	Top	0	N/A	0.005	0.001	1.079	0.005	0.001		33.7	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.09	3646.70	56207	0.0	14.00	13.71	50	25	Top	0	N/A	0.005	0.001	1.069	0.005	0.001		33.7	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	-0.04	3646.70	56207	0.0	14.00	13.67	1	50	Bottom	0	N/A	0.311	0.073	1.079	0.336	0.079		15.7	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	-0.06	3646.70	56207	0.0	14.00	13.71	50	25	Bottom	0	N/A	0.312	0.073	1.069	0.334	0.078		15.8	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.04	3646.70	56207	0.0	14.00	13.67	1	50	Right	0	N/A	0.000	0.000	1.079	0.000	0.000		50.7	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.03	3646.70	56207	0.0	14.00	13.71	50	25	Right	0	N/A	0.000	0.000	1.069	0.000	0.000		50.7	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	-0.03	3560.00	55340	0.0	14.00	13.55	1	50	Left	0	N/A	0.683	0.193	1.109	0.757	0.214		12.2	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.04	3603.30	55773	0.0	14.00	13.61	1	50	Left	0	N/A	0.765	0.217	1.094	0.837	0.237		11.8	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	-0.07	3646.70	56207	0.0	14.00	13.67	1	50	Left	0	N/A	0.833	0.234	1.079	0.899	0.252		11.5	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.03	3690.00	56640	0.0	14.00	13.56	1	50	Left	0	N/A	0.800	0.231	1.107	0.886	0.256		11.5	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	-0.02	3560.00	55340	0.0	14.00	13.63	50	25	Left	0	N/A	0.699	0.198	1.089	0.761	0.216		12.2	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	-0.05	3603.30	55773	0.0	14.00	13.70	50	25	Left	0	N/A	0.715	0.207	1.072	0.766	0.222		12.2	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	0.05	3646.70	56207	0.0	14.00	13.71	50	25	Left	0	N/A	0.659	0.186	1.069	0.704	0.199		12.5	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	-0.03	3690.00	56640	0.0	14.00	13.61	50	25	Left	0	N/A	0.810	0.233	1.094	0.886	0.255		11.5	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	-0.03	3646.70	56207	0.0	14.00	13.66	100	0	Left	0	N/A	0.759	0.220	1.081	0.820	0.238		11.9	
Body	LTE Band 48	20	QPSK	1	JV4X5	1:1.58	-0.09	3690.00	56640	0.0	14.00	13.58	50	0	Back	0	ULCA 48C	0.800	0.257	1.102	0.882	0.283		11.5	
		20						3670.20	56442				50	50											
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 10-44 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.01	3560.00	55340	0.0	15.50	14.58	1	50	Back	0	N/A	0.523	0.166	1.236	0.646	0.205		14.4	12.5
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.04	3603.30	55773	0.0	15.50	14.59	1	50	Back	0	N/A	0.523	0.166	1.233	0.645	0.205		14.4	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.01	3646.70	56207	0.0	15.50	14.68	1	50	Back	0	N/A	0.577	0.183	1.208	0.697	0.221		14.1	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.04	3690.00	56640	0.0	15.50	14.91	1	50	Back	0	N/A	0.621	0.198	1.146	0.712	0.227		14.0	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	-0.04	3560.00	55340	0.0	15.50	14.61	50	25	Back	0	N/A	0.536	0.170	1.227	0.658	0.209		14.3	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.04	3603.30	55773	0.0	15.50	14.63	50	25	Back	0	N/A	0.535	0.170	1.222	0.654	0.208		14.3	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.05	3646.70	56207	0.0	15.50	14.65	50	50	Back	0	N/A	0.583	0.186	1.216	0.709	0.226		14.0	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.04	3690.00	56640	0.0	15.50	14.92	50	25	Back	0	N/A	0.632	0.200	1.143	0.722	0.229		13.9	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.00	3690.00	56640	0.0	15.50	14.90	100	0	Back	0	N/A	0.632	0.201	1.148	0.726	0.231		13.9	
Body	LTE Band 48	20	QPSK	2b	H2VK9	1:1.58	0.01	3690.00	56640	0.0	15.50	14.91	1	50	Top	0	N/A	0.004	0.002	1.146	0.005	0.002		35.9	
Body	LTE Band 48	20	QPSK	2b	H2VK9	1:1.58	0.05	3690.00	56640	0.0	15.50	14.92	50	25	Top	0	N/A	0.001	0.000	1.143	0.001	0.000		41.9	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.03	3560.00	55340	0.0	15.50	14.58	1	50	Bottom	0	N/A	0.723	0.207	1.236	0.894	0.256		13.0	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	-0.02	3603.30	55773	0.0	15.50	14.59	1	50	Bottom	0	N/A	0.729	0.208	1.233	0.899	0.256		13.0	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.01	3646.70	56207	0.0	15.50	14.68	1	50	Bottom	0	N/A	0.798	0.226	1.208	0.964	0.273		12.7	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	-0.02	3690.00	56640	0.0	15.50	14.91	1	50	Bottom	0	N/A	0.842	0.239	1.146	0.965	0.274		12.7	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	-0.02	3560.00	55340	0.0	15.50	14.61	50	25	Bottom	0	N/A	0.742	0.212	1.227	0.910	0.260		12.9	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.03	3603.30	55773	0.0	15.50	14.63	50	25	Bottom	0	N/A	0.752	0.215	1.222	0.919	0.263		12.9	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	-0.01	3646.70	56207	0.0	15.50	14.65	50	50	Bottom	0	N/A	0.804	0.228	1.216	0.978	0.277		12.6	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	-0.03	3690.00	56640	0.0	15.50	14.73	50	0	Bottom	0	N/A	0.823	0.232	1.194	0.983	0.277		12.6	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.00	3690.00	56640	0.0	15.50	14.92	50	25	Bottom	0	N/A	0.866	0.246	1.143	0.990	0.281		12.5	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.02	3690.00	56640	0.0	15.50	14.90	100	0	Bottom	0	N/A	0.848	0.240	1.148	0.974	0.276		12.6	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	-0.06	3690.00	56640	0.0	15.50	14.91	1	50	Right	0	N/A	0.029	0.010	1.146	0.033	0.011		27.3	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.05	3690.00	56640	0.0	15.50	14.92	50	25	Right	0	N/A	0.028	0.010	1.143	0.032	0.011		27.4	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.05	3690.00	56640	0.0	15.50	14.91	1	50	Left	0	N/A	0.008	0.001	1.146	0.009	0.001		32.9	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.06	3690.00	56640	0.0	15.50	14.92	50	25	Left	0	N/A	0.010	0.002	1.143	0.011	0.002		31.9	
Body	LTE Band 48	20	QPSK	2b	HV2K9	1:1.58	0.02	3690.00	56640	0.0	15.50	14.75	50	0	Bottom	0	ULCA 48C	0.827	0.235	1.189	0.983	0.279		12.6	
		20						3670.20	56442				50	50											
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 10-45 Antenna 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	0.00	3646.70	56207	0.0	13.00	11.47	1	50	Back	0	N/A	0.255	0.071	1.422	0.363	0.101		14.4	10.4
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	-0.05	3646.70	56207	0.0	13.00	11.58	50	25	Back	0	N/A	0.258	0.073	1.387	0.358	0.101		14.5	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	0.03	3646.70	56207	0.0	13.00	11.47	1	50	Top	0	N/A	0.252	0.064	1.422	0.358	0.091		14.5	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	-0.08	3646.70	56207	0.0	13.00	11.58	50	25	Top	0	N/A	0.255	0.064	1.387	0.354	0.089		14.5	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	0.01	3646.70	56207	0.0	13.00	11.47	1	50	Bottom	0	N/A	0.000	0.000	1.422	0.000	0.000		48.5	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	0.05	3646.70	56207	0.0	13.00	11.58	50	25	Bottom	0	N/A	0.003	0.000	1.387	0.004	0.000		33.8	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	0.03	3560.00	55340	0.0	13.00	11.42	1	50	Right	0	N/A	0.591	0.172	1.439	0.850	0.248		10.7	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	0.06	3603.30	55773	0.0	13.00	11.39	1	50	Right	0	N/A	0.583	0.169	1.449	0.845	0.245		10.7	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	0.00	3646.70	56207	0.0	13.00	11.47	1	50	Right	0	N/A	0.633	0.181	1.422	0.900	0.257		10.5	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	-0.02	3646.70	56207	0.0	13.00	11.35	1	0	Right	0	N/A	0.629	0.179	1.462	0.920	0.262		10.4	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	-0.01	3690.00	56640	0.0	13.00	11.41	1	50	Right	0	N/A	0.612	0.176	1.442	0.883	0.254		10.5	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	0.03	3560.00	55340	0.0	13.00	11.52	50	25	Right	0	N/A	0.607	0.178	1.406	0.853	0.250		10.7	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	0.02	3603.30	55773	0.0	13.00	11.51	50	50	Right	0	N/A	0.592	0.172	1.409	0.834	0.242		10.8	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	-0.04	3646.70	56207	0.0	13.00	11.58	50	25	Right	0	N/A	0.644	0.184	1.387	0.893	0.255		10.5	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	-0.03	3690.00	56640	0.0	13.00	11.51	50	25	Right	0	N/A	0.632	0.182	1.409	0.890	0.256		10.5	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	-0.02	3690.00	56640	0.0	13.00	11.43	100	0	Right	0	N/A	0.621	0.178	1.435	0.891	0.255		10.5	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	0.05	3646.70	56207	0.0	13.00	11.47	1	50	Left	0	N/A	0.003	0.000	1.422	0.004	0.000		33.7	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	0.06	3646.70	56207	0.0	13.00	11.58	50	25	Left	0	N/A	0.003	0.000	1.387	0.004	0.000		33.8	
Body	LTE Band 48	20	QPSK	3	GX4G2	1:1.58	0.01	3646.70	56207	0.0	13.00	11.18	1	0	Right	0	ULCA 48C	0.592	0.170	1.521	0.900	0.259		10.5	
		20						3626.90	56009				1	99											
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 10-46 Antenna 4b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.03	3560.00	55340	0.0	12.20	11.73	1	50	Back	0	N/A	0.527	0.159	1.114	0.587	0.177		11.5	9.3
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	-0.02	3603.30	55773	0.0	12.20	11.77	1	50	Back	0	N/A	0.565	0.172	1.104	0.624	0.190		11.2	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	-0.03	3646.70	56207	0.0	12.20	11.87	1	50	Back	0	N/A	0.655	0.201	1.079	0.707	0.217		10.7	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.01	3690.00	56640	0.0	12.20	11.75	1	50	Back	0	N/A	0.752	0.231	1.109	0.834	0.256		10.0	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	-0.02	3560.00	55340	0.0	12.20	11.84	50	25	Back	0	N/A	0.539	0.163	1.086	0.585	0.177		11.5	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	-0.01	3603.30	55773	0.0	12.20	11.87	50	25	Back	0	N/A	0.575	0.175	1.079	0.620	0.189		11.3	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	-0.02	3646.70	56207	0.0	12.20	11.95	50	25	Back	0	N/A	0.675	0.206	1.059	0.715	0.218		10.7	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.01	3690.00	56640	0.0	12.20	11.88	50	25	Back	0	N/A	0.767	0.236	1.076	0.825	0.254		10.0	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.01	3646.70	56207	0.0	12.20	11.86	100	0	Back	0	N/A	0.672	0.205	1.081	0.726	0.222		10.6	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	-0.03	3560.00	55340	0.0	12.20	11.73	1	50	Top	0	N/A	0.732	0.194	1.114	0.815	0.216		10.1	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	-0.02	3603.30	55773	0.0	12.20	11.77	1	50	Top	0	N/A	0.750	0.198	1.104	0.828	0.219		10.0	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.02	3646.70	56207	0.0	12.20	11.87	1	50	Top	0	N/A	0.826	0.219	1.079	0.891	0.236		9.7	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.01	3690.00	56640	0.0	12.20	11.75	1	50	Top	0	N/A	0.890	0.235	1.109	0.987	0.261		9.3	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	-0.03	3690.00	56640	0.0	12.20	11.70	1	0	Top	0	N/A	0.850	0.223	1.122	0.954	0.250		9.4	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	-0.01	3560.00	55340	0.0	12.20	11.84	50	25	Top	0	N/A	0.749	0.198	1.086	0.813	0.215		10.1	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.01	3603.30	55773	0.0	12.20	11.87	50	25	Top	0	N/A	0.769	0.202	1.079	0.830	0.218		10.0	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.00	3646.70	56207	0.0	12.20	11.95	50	25	Top	0	N/A	0.856	0.225	1.059	0.907	0.238		9.6	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.00	3690.00	56640	0.0	12.20	11.88	50	25	Top	0	N/A	0.909	0.238	1.076	0.978	0.256		9.3	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.01	3646.70	56207	0.0	12.20	11.86	100	0	Top	0	N/A	0.844	0.222	1.081	0.912	0.240		9.6	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.01	3646.70	56207	0.0	12.20	11.87	1	50	Bottom	0	N/A	0.000	0.000	1.079	0.000	0.000		48.9	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.02	3646.70	56207	0.0	12.20	11.95	50	25	Bottom	0	N/A	0.000	0.000	1.059	0.000	0.000		48.9	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.04	3646.70	56207	0.0	12.20	11.87	1	50	Right	0	N/A	0.010	0.004	1.079	0.011	0.004		28.9	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.04	3646.70	56207	0.0	12.20	11.95	50	25	Right	0	N/A	0.016	0.005	1.059	0.017	0.005		26.9	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	-0.20	3646.70	56207	0.0	12.20	11.87	1	50	Left	0	N/A	0.017	0.004	1.079	0.018	0.004		26.6	
Body	LTE Band 48	20	QPSK	4b	WFG6R	1:1.58	0.03	3646.70	56207	0.0	12.20	11.95	50	25	Left	0	N/A	0.018	0.004	1.059	0.019	0.004		26.4	
Body	LTE Band 48	20 20	QPSK	4b	WFG6R	1:1.58	-0.03	3690.00 3670.20	56640 56442	0.0	12.20	11.89	1 1	0 99	Top	0	ULCA 48C	0.919	0.242	1.074	0.987	0.260	A15	9.3	
Body	LTE Band 48	20 20	QPSK	4b	WFG6R	1:1.58	0.01	3690.00 3670.20	56640 56442	0.0	12.20	11.89	1 1	0 99	Top	0	ULCA 48C	0.881	0.233	1.074	0.946	0.250		9.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Blue entry represents variability measurement

10.16 NR Band n71 Standalone SAR

Table 10-47 Antenna 1

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n71	20	QPSK	1	CV0TW	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	19.20	18.22	1	1	Back	0	0.773	0.339	1.253	0.969	0.425		18.3	18.3
Body	NR Band n71	20	QPSK	1	CV0TW	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	19.20	18.21	50	28	Back	0	0.712	0.319	1.256	0.894	0.401		18.7	
Body	NR Band n71	20	QPSK	1	CV0TW	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	19.20	18.20	100	0	Back	0	0.725	0.313	1.259	0.913	0.394		18.6	
Body	NR Band n71	20	QPSK	1	CV0TW	1:1	0.01	680.50	136100	CP-OFDM	0.0	19.20	18.27	1	1	Back	0	0.778	0.332	1.239	0.964	0.411		18.3	
Body	NR Band n71	20	QPSK	1	CV0TW	1:1	-0.11	680.50	136100	DFT-s-OFDM	0.0	19.20	18.22	1	1	Top	0	0.006	0.002	1.253	0.008	0.003		39.4	
Body	NR Band n71	20	QPSK	1	CV0TW	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	19.20	18.21	50	28	Top	0	0.010	0.004	1.256	0.013	0.005		37.2	
Body	NR Band n71	20	QPSK	1	CV0TW	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	19.20	18.22	1	1	Bottom	0	0.563	0.210	1.253	0.705	0.263		19.7	
Body	NR Band n71	20	QPSK	1	CV0TW	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	19.20	18.21	50	28	Bottom	0	0.529	0.198	1.256	0.664	0.249		20.0	
Body	NR Band n71	20	QPSK	1	CV0TW	1:1	0.06	680.50	136100	DFT-s-OFDM	0.0	19.20	18.22	1	1	Right	0	0.007	0.004	1.253	0.009	0.005		38.7	
Body	NR Band n71	20	QPSK	1	CV0TW	1:1	0.09	680.50	136100	DFT-s-OFDM	0.0	19.20	18.21	50	28	Right	0	0.005	0.002	1.256	0.006	0.003		40.2	
Body	NR Band n71	20	QPSK	1	CV0TW	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	19.20	18.22	1	1	Left	0	0.207	0.081	1.253	0.259	0.101		24.0	
Body	NR Band n71	20	QPSK	1	CV0TW	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	19.20	18.21	50	28	Left	0	0.232	0.091	1.256	0.291	0.114		23.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-48 Antenna 3

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n71	20	QPSK	3	MVHMV	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	21.00	20.37	1	53	Back	0	0.749	0.402	1.156	0.866	0.465		20.6	20.0
Body	NR Band n71	20	QPSK	3	MVHMV	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	21.00	20.33	50	28	Back	0	0.800	0.428	1.167	0.934	0.499		20.3	
Body	NR Band n71	20	QPSK	3	MVHMV	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	21.00	20.28	100	0	Back	0	0.792	0.423	1.180	0.935	0.499		20.3	
Body	NR Band n71	20	QPSK	3	MVHMV	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	21.00	20.37	1	53	Top	0	0.847	0.310	1.156	0.979	0.358		20.1	
Body	NR Band n71	20	QPSK	3	MVHMV	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	21.00	20.33	50	28	Top	0	0.846	0.313	1.167	0.987	0.365		20.0	
Body	NR Band n71	20	QPSK	3	MVHMV	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	21.00	20.28	100	0	Top	0	0.799	0.293	1.180	0.943	0.346		20.2	
Body	NR Band n71	20	QPSK	3	MVHMV	1:1	-0.09	680.50	136100	CP-OFDM	0.0	21.00	20.44	1	1	Top	0	0.869	0.317	1.138	0.989	0.361	A16	20.0	
Body	NR Band n71	20	QPSK	3	MVHMV	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	21.00	20.37	1	53	Bottom	0	0.019	0.007	1.156	0.022	0.008		36.6	
Body	NR Band n71	20	QPSK	3	MVHMV	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	21.00	20.33	50	28	Bottom	0	0.009	0.003	1.167	0.011	0.004		39.8	
Body	NR Band n71	20	QPSK	3	MVHMV	1:1	0.10	680.50	136100	DFT-s-OFDM	0.0	21.00	20.37	1	53	Right	0	0.219	0.101	1.156	0.253	0.117		25.9	
Body	NR Band n71	20	QPSK	3	MVHMV	1:1	0.10	680.50	136100	DFT-s-OFDM	0.0	21.00	20.33	50	28	Right	0	0.239	0.112	1.167	0.279	0.131		25.5	
Body	NR Band n71	20	QPSK	3	MVHMV	1:1	-0.09	680.50	136100	DFT-s-OFDM	0.0	21.00	20.37	1	53	Left	0	0.070	0.035	1.156	0.081	0.040		30.9	
Body	NR Band n71	20	QPSK	3	MVHMV	1:1	0.09	680.50	136100	DFT-s-OFDM	0.0	21.00	20.33	50	28	Left	0	0.055	0.027	1.167	0.064	0.032		31.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

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10.17 NR Band n12 Standalone SAR

Table 10-49 Antenna 1

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n12	15	QPSK	1	CV0TW	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	20.00	19.64	1	1	Back	0	0.909	0.397	1.086	0.987	0.431	A17	19.0	19.0
Body	NR Band n12	15	QPSK	1	CV0TW	1:1	0.10	707.50	141500	DFT-s-OFDM	0.0	20.00	19.61	36	0	Back	0	0.841	0.364	1.094	0.920	0.398		19.3	
Body	NR Band n12	15	QPSK	1	CV0TW	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	20.00	19.54	75	0	Back	0	0.807	0.358	1.112	0.897	0.398		19.5	
Body	NR Band n12	15	QPSK	1	CV0TW	1:1	-0.01	707.50	141500	CP-OFDM	0.0	20.00	19.70	1	1	Back	0	0.885	0.384	1.072	0.949	0.412		19.2	
Body	NR Band n12	15	QPSK	1	CV0TW	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	20.00	19.64	1	1	Top	0	0.010	0.004	1.086	0.011	0.004		38.6	
Body	NR Band n12	15	QPSK	1	CV0TW	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	20.00	19.61	36	0	Top	0	0.010	0.004	1.094	0.011	0.004		38.6	
Body	NR Band n12	15	QPSK	1	CV0TW	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	20.00	19.64	1	1	Bottom	0	0.659	0.248	1.086	0.716	0.269		20.4	
Body	NR Band n12	15	QPSK	1	CV0TW	1:1	0.04	707.50	141500	DFT-s-OFDM	0.0	20.00	19.61	36	0	Bottom	0	0.667	0.251	1.094	0.730	0.275		20.3	
Body	NR Band n12	15	QPSK	1	CV0TW	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	20.00	19.54	75	0	Bottom	0	0.653	0.246	1.112	0.726	0.274		20.4	
Body	NR Band n12	15	QPSK	1	CV0TW	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	20.00	19.64	1	1	Right	0	0.037	0.016	1.086	0.040	0.017		32.9	
Body	NR Band n12	15	QPSK	1	CV0TW	1:1	0.17	707.50	141500	DFT-s-OFDM	0.0	20.00	19.61	36	0	Right	0	0.035	0.015	1.094	0.038	0.016		33.2	
Body	NR Band n12	15	QPSK	1	CV0TW	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	20.00	19.64	1	1	Left	0	0.292	0.120	1.086	0.317	0.130		24.0	
Body	NR Band n12	15	QPSK	1	CV0TW	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	20.00	19.61	36	0	Left	0	0.296	0.124	1.094	0.324	0.136		23.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-50 Antenna 3

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n12	15	QPSK	3	5X2QD	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	19.50	19.17	1	1	Back	0	0.642	0.347	1.079	0.693	0.374		20.1	18.7
Body	NR Band n12	15	QPSK	3	5X2QD	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	19.50	19.09	36	0	Back	0	0.666	0.353	1.099	0.732	0.388		19.8	
Body	NR Band n12	15	QPSK	3	5X2QD	1:1	-0.09	707.50	141500	DFT-s-OFDM	0.0	19.50	19.17	1	1	Top	0	0.837	0.323	1.079	0.903	0.349		18.9	
Body	NR Band n12	15	QPSK	3	5X2QD	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	19.50	19.09	36	0	Top	0	0.863	0.323	1.099	0.948	0.355		18.7	
Body	NR Band n12	15	QPSK	3	5X2QD	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	19.50	19.01	75	0	Top	0	0.839	0.320	1.119	0.939	0.358		18.8	
Body	NR Band n12	15	QPSK	3	5X2QD	1:1	0.13	707.50	141500	CP-OFDM	0.0	19.50	19.16	1	1	Top	0	0.819	0.321	1.081	0.885	0.347		19.0	
Body	NR Band n12	15	QPSK	3	5X2QD	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	19.50	19.17	1	1	Bottom	0	0.017	0.007	1.079	0.018	0.008		35.8	
Body	NR Band n12	15	QPSK	3	5X2QD	1:1	0.09	707.50	141500	DFT-s-OFDM	0.0	19.50	19.09	36	0	Bottom	0	0.021	0.008	1.099	0.023	0.009		34.8	
Body	NR Band n12	15	QPSK	3	5X2QD	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	19.50	19.17	1	1	Right	0	0.267	0.114	1.079	0.288	0.123		23.9	
Body	NR Band n12	15	QPSK	3	5X2QD	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	19.50	19.09	36	0	Right	0	0.286	0.122	1.099	0.314	0.134		23.5	
Body	NR Band n12	15	QPSK	3	5X2QD	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	19.50	19.17	1	1	Left	0	0.041	0.024	1.079	0.044	0.026		32.0	
Body	NR Band n12	15	QPSK	3	5X2QD	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	19.50	19.09	36	0	Left	0	0.043	0.022	1.099	0.047	0.024		31.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.18 NR Band n14 Standalone SAR

Table 10-51 Antenna 1

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n14	10	QPSK	1	QWMK4	1:1	-0.01	0.00	158600	DFT-s-OFDM	0.0	19.60	19.04	1	1	Back	0	0.784	0.345	1.138	0.892	0.393		19.1	18.6
Body	NR Band n14	10	QPSK	1	QWMK4	1:1	0.02	0.00	158600	DFT-s-OFDM	0.0	19.60	19.07	25	0	Back	0	0.771	0.340	1.130	0.871	0.384		19.2	
Body	NR Band n14	10	QPSK	1	QWMK4	1:1	-0.03	0.00	158600	DFT-s-OFDM	0.0	19.60	19.00	50	0	Back	0	0.772	0.342	1.148	0.886	0.393		19.1	
Body	NR Band n14	10	QPSK	1	QWMK4	1:1	0.00	0.00	158600	CP-OFDM	0.0	19.60	19.20	1	1	Back	0	0.899	0.389	1.096	0.985	0.426	A18	18.6	
Body	NR Band n14	10	QPSK	1	QWMK4	1:1	-0.08	0.00	158600	DFT-s-OFDM	0.0	19.60	19.04	1	1	Top	0	0.017	0.007	1.138	0.019	0.008		35.7	
Body	NR Band n14	10	QPSK	1	QWMK4	1:1	0.18	0.00	158600	DFT-s-OFDM	0.0	19.60	19.07	25	0	Top	0	0.019	0.008	1.130	0.021	0.009		35.3	
Body	NR Band n14	10	QPSK	1	QWMK4	1:1	0.02	0.00	158600	DFT-s-OFDM	0.0	19.60	19.04	1	1	Bottom	0	0.686	0.261	1.138	0.781	0.297		19.7	
Body	NR Band n14	10	QPSK	1	QWMK4	1:1	0.01	0.00	158600	DFT-s-OFDM	0.0	19.60	19.07	25	0	Bottom	0	0.680	0.260	1.130	0.768	0.294		19.7	
Body	NR Band n14	10	QPSK	1	QWMK4	1:1	-0.04	0.00	158600	DFT-s-OFDM	0.0	19.60	19.04	1	1	Right	0	0.034	0.015	1.138	0.039	0.017		32.7	
Body	NR Band n14	10	QPSK	1	QWMK4	1:1	0.18	0.00	158600	DFT-s-OFDM	0.0	19.60	19.07	25	0	Right	0	0.032	0.014	1.130	0.036	0.016		33.0	
Body	NR Band n14	10	QPSK	1	QWMK4	1:1	-0.01	0.00	158600	DFT-s-OFDM	0.0	19.60	19.04	1	1	Left	0	0.312	0.130	1.138	0.355	0.148		23.1	
Body	NR Band n14	10	QPSK	1	QWMK4	1:1	0.06	0.00	158600	DFT-s-OFDM	0.0	19.60	19.07	25	0	Left	0	0.340	0.142	1.130	0.384	0.160		22.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-52 Antenna 3

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n14	10	QPSK	3	MVHMV	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	20.10	19.44	1	1	Back	0	0.741	0.396	1.164	0.863	0.461		19.7	19.2
Body	NR Band n14	10	QPSK	3	MVHMV	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	20.10	19.39	25	0	Back	0	0.729	0.388	1.178	0.859	0.457		19.7	
Body	NR Band n14	10	QPSK	3	MVHMV	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	20.10	19.26	50	0	Back	0	0.722	0.386	1.213	0.876	0.468		19.7	
Body	NR Band n14	10	QPSK	3	MVHMV	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.0	20.10	19.44	1	1	Top	0	0.773	0.315	1.164	0.900	0.367		19.5	
Body	NR Band n14	10	QPSK	3	MVHMV	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	20.10	19.39	25	0	Top	0	0.812	0.322	1.178	0.957	0.379		19.3	
Body	NR Band n14	10	QPSK	3	MVHMV	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	20.10	19.26	50	0	Top	0	0.798	0.319	1.213	0.968	0.387		19.2	
Body	NR Band n14	10	QPSK	3	MVHMV	1:1	0.12	793.00	158600	CP-OFDM	0.0	20.10	19.38	1	1	Top	0	0.790	0.312	1.180	0.932	0.368		19.4	
Body	NR Band n14	10	QPSK	3	MVHMV	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	20.10	19.44	1	1	Bottom	0	0.018	0.007	1.164	0.021	0.008		35.9	
Body	NR Band n14	10	QPSK	3	MVHMV	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	20.10	19.39	25	0	Bottom	0	0.018	0.007	1.178	0.021	0.008		35.8	
Body	NR Band n14	10	QPSK	3	MVHMV	1:1	0.06	793.00	158600	DFT-s-OFDM	0.0	20.10	19.44	1	1	Right	0	0.240	0.118	1.164	0.279	0.137		24.6	
Body	NR Band n14	10	QPSK	3	MVHMV	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	20.10	19.39	25	0	Right	0	0.239	0.117	1.178	0.282	0.138		24.6	
Body	NR Band n14	10	QPSK	3	MVHMV	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	20.10	19.44	1	1	Left	0	0.039	0.017	1.164	0.045	0.020		32.5	
Body	NR Band n14	10	QPSK	3	MVHMV	1:1	0.06	793.00	158600	DFT-s-OFDM	0.0	20.10	19.39	25	0	Left	0	0.035	0.016	1.178	0.041	0.019		32.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

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10.19 NR Band n26 Standalone SAR

Table 10-53 Antenna 1

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n26	20	QPSK	1	N6P4D	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	19.60	19.09	1	1	Back	0	0.865	0.395	1.125	0.973	0.444	A19	18.7	18.7
Body	NR Band n26	20	QPSK	1	N6P4D	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	19.60	19.00	50	0	Back	0	0.828	0.378	1.148	0.951	0.434		18.8	
Body	NR Band n26	20	QPSK	1	N6P4D	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	19.60	18.94	100	0	Back	0	0.791	0.352	1.164	0.921	0.410		18.9	
Body	NR Band n26	20	QPSK	1	N6P4D	1:1	-0.02	831.50	166300	CP-OFDM	0.0	19.60	18.97	1	1	Back	0	0.720	0.329	1.156	0.832	0.380		19.4	
Body	NR Band n26	20	QPSK	1	N6P4D	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	19.60	19.09	1	1	Top	0	0.016	0.007	1.125	0.018	0.008		36.0	
Body	NR Band n26	20	QPSK	1	N6P4D	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	19.60	19.00	50	0	Top	0	0.023	0.010	1.148	0.026	0.011		34.4	
Body	NR Band n26	20	QPSK	1	N6P4D	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	19.60	19.09	1	1	Bottom	0	0.664	0.270	1.125	0.747	0.304		19.8	
Body	NR Band n26	20	QPSK	1	N6P4D	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	19.60	19.00	50	0	Bottom	0	0.701	0.280	1.148	0.805	0.321		19.5	
Body	NR Band n26	20	QPSK	1	N6P4D	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	19.60	18.94	100	0	Bottom	0	0.664	0.266	1.164	0.773	0.310		19.7	
Body	NR Band n26	20	QPSK	1	N6P4D	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	19.60	19.09	1	1	Right	0	0.040	0.017	1.125	0.045	0.019		32.1	
Body	NR Band n26	20	QPSK	1	N6P4D	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	19.60	19.00	50	0	Right	0	0.042	0.018	1.148	0.048	0.021		31.7	
Body	NR Band n26	20	QPSK	1	N6P4D	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	19.60	19.09	1	1	Left	0	0.316	0.130	1.125	0.356	0.146		23.1	
Body	NR Band n26	20	QPSK	1	N6P4D	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	19.60	19.00	50	0	Left	0	0.333	0.137	1.148	0.382	0.157		22.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-54 Antenna 3

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n26	20	QPSK	3	QT49N	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	19.80	18.86	1	1	Back	0	0.687	0.359	1.242	0.853	0.446		19.5	18.9
Body	NR Band n26	20	QPSK	3	QT49N	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	19.80	18.84	50	0	Back	0	0.667	0.350	1.247	0.832	0.436		19.6	
Body	NR Band n26	20	QPSK	3	QT49N	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	19.80	18.67	100	0	Back	0	0.682	0.358	1.297	0.885	0.464		19.3	
Body	NR Band n26	20	QPSK	3	QT49N	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	19.80	18.86	1	1	Top	0	0.753	0.325	1.242	0.935	0.404		19.1	
Body	NR Band n26	20	QPSK	3	QT49N	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	19.80	18.84	50	0	Top	0	0.788	0.332	1.247	0.983	0.414		18.9	
Body	NR Band n26	20	QPSK	3	QT49N	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	19.80	18.67	100	0	Top	0	0.745	0.323	1.297	0.966	0.419		18.9	
Body	NR Band n26	20	QPSK	3	QT49N	1:1	0.02	831.50	166300	CP-OFDM	0.0	19.80	18.77	1	1	Top	0	0.750	0.323	1.268	0.951	0.410		19.0	
Body	NR Band n26	20	QPSK	3	QT49N	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	19.80	18.86	1	1	Bottom	0	0.020	0.009	1.242	0.025	0.011		34.8	
Body	NR Band n26	20	QPSK	3	QT49N	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	19.80	18.84	50	0	Bottom	0	0.022	0.010	1.247	0.027	0.012		34.4	
Body	NR Band n26	20	QPSK	3	QT49N	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	19.80	18.86	1	1	Right	0	0.205	0.097	1.242	0.255	0.120		24.7	
Body	NR Band n26	20	QPSK	3	QT49N	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	19.80	18.84	50	0	Right	0	0.210	0.098	1.247	0.262	0.122		24.6	
Body	NR Band n26	20	QPSK	3	QT49N	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	19.80	18.86	1	1	Left	0	0.052	0.025	1.242	0.065	0.031		30.7	
Body	NR Band n26	20	QPSK	3	QT49N	1:1	0.05	831.50	166300	DFT-s-OFDM	0.0	19.80	18.84	50	0	Left	0	0.051	0.024	1.247	0.064	0.030		30.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.20 NR Band n5 Standalone SAR

Table 10-55 Antenna 1

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n5	20	QPSK	1	022ML	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	19.60	19.20	1	1	Back	0	0.899	0.410	1.096	0.985	0.449	A20	18.6	18.6
Body	NR Band n5	20	QPSK	1	022ML	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	19.60	19.16	50	0	Back	0	0.887	0.404	1.107	0.982	0.447		18.7	
Body	NR Band n5	20	QPSK	1	022ML	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	19.60	19.02	100	0	Back	0	0.845	0.386	1.143	0.966	0.441		18.7	
Body	NR Band n5	20	QPSK	1	022ML	1:1	-0.13	836.50	167300	CP-OFDM	0.0	19.60	19.11	1	1	Back	0	0.857	0.403	1.119	0.959	0.451		18.8	
Body	NR Band n5	20	QPSK	1	022ML	1:1	0.05	836.50	167300	DFT-s-OFDM	0.0	19.60	19.20	1	1	Top	0	0.020	0.007	1.096	0.022	0.008		35.2	
Body	NR Band n5	20	QPSK	1	022ML	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	19.60	19.16	50	0	Top	0	0.022	0.008	1.107	0.024	0.009		34.7	
Body	NR Band n5	20	QPSK	1	022ML	1:1	-0.08	836.50	167300	DFT-s-OFDM	0.0	19.60	19.20	1	1	Bottom	0	0.650	0.260	1.096	0.712	0.285		20.1	
Body	NR Band n5	20	QPSK	1	022ML	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	19.60	19.16	50	0	Bottom	0	0.586	0.241	1.107	0.649	0.267		20.5	
Body	NR Band n5	20	QPSK	1	022ML	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	19.60	19.20	1	1	Right	0	0.039	0.018	1.096	0.043	0.020		32.3	
Body	NR Band n5	20	QPSK	1	022ML	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	19.60	19.16	50	0	Right	0	0.039	0.018	1.107	0.043	0.020		32.2	
Body	NR Band n5	20	QPSK	1	022ML	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	19.60	19.20	1	1	Left	0	0.260	0.111	1.096	0.285	0.122		24.0	
Body	NR Band n5	20	QPSK	1	022ML	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	19.60	19.16	50	0	Left	0	0.277	0.120	1.107	0.307	0.133		23.7	
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 10-56 Antenna 3

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n5	20	QPSK	3	QWMK4	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	19.80	18.36	1	1	Back	0	0.612	0.321	1.393	0.853	0.447		19.5	19.1
Body	NR Band n5	20	QPSK	3	QWMK4	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	19.80	18.19	50	0	Back	0	0.616	0.318	1.449	0.893	0.461		19.3	
Body	NR Band n5	20	QPSK	3	QWMK4	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	19.80	18.08	100	0	Back	0	0.586	0.306	1.486	0.871	0.455		19.4	
Body	NR Band n5	20	QPSK	3	QWMK4	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	19.80	18.36	1	1	Top	0	0.589	0.263	1.393	0.820	0.366		19.6	
Body	NR Band n5	20	QPSK	3	QWMK4	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	19.80	18.19	50	0	Top	0	0.621	0.272	1.449	0.900	0.394		19.2	
Body	NR Band n5	20	QPSK	3	QWMK4	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	19.80	18.08	100	0	Top	0	0.629	0.273	1.486	0.935	0.406		19.1	
Body	NR Band n5	20	QPSK	3	QWMK4	1:1	0.03	836.50	167300	CP-OFDM	0.0	19.80	18.26	1	1	Top	0	0.621	0.273	1.426	0.886	0.389		19.3	
Body	NR Band n5	20	QPSK	3	QWMK4	1:1	-0.06	836.50	167300	DFT-s-OFDM	0.0	19.80	18.36	1	1	Bottom	0	0.022	0.010	1.393	0.031	0.014		33.9	
Body	NR Band n5	20	QPSK	3	QWMK4	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	19.80	18.19	50	0	Bottom	0	0.021	0.009	1.449	0.030	0.013		33.9	
Body	NR Band n5	20	QPSK	3	QWMK4	1:1	-0.13	836.50	167300	DFT-s-OFDM	0.0	19.80	18.36	1	1	Right	0	0.193	0.091	1.393	0.269	0.127		24.5	
Body	NR Band n5	20	QPSK	3	QWMK4	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	19.80	18.19	50	0	Right	0	0.193	0.091	1.449	0.280	0.132		24.3	
Body	NR Band n5	20	QPSK	3	QWMK4	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	19.80	18.36	1	1	Left	0	0.022	0.013	1.393	0.031	0.018		33.9	
Body	NR Band n5	20	QPSK	3	QWMK4	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	19.80	18.19	50	0	Left	0	0.037	0.017	1.449	0.054	0.025		31.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

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10.21 NR Band n70 Standalone SAR

Table 10-57 Antenna 1

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	1	YGX23	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.70	1	1	Back	0	0.605	0.279	1.047	0.633	0.292		17.9	16.8
Body	NR Band n70	15	QPSK	1	YGX23	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.56	36	0	Back	0	0.616	0.279	1.081	0.666	0.302		17.6	
Body	NR Band n70	15	QPSK	1	YGX23	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.70	1	1	Top	0	0.003	0.000	1.047	0.003	0.000		40.9	
Body	NR Band n70	15	QPSK	1	YGX23	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.56	36	0	Top	0	0.003	0.000	1.081	0.003	0.000		40.8	
Body	NR Band n70	15	QPSK	1	YGX23	1:1	-0.05	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.70	1	1	Bottom	0	0.746	0.297	1.047	0.781	0.311		17.0	
Body	NR Band n70	15	QPSK	1	YGX23	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.56	36	0	Bottom	0	0.741	0.295	1.081	0.801	0.319		16.8	
Body	NR Band n70	15	QPSK	1	YGX23	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.53	75	0	Bottom	0	0.746	0.296	1.089	0.812	0.322		16.8	
Body	NR Band n70	15	QPSK	1	YGX23	1:1	0.01	1702.50	340500	CP-OFDM	0.0	16.90	16.54	1	1	Bottom	0	0.745	0.297	1.086	0.809	0.323		16.8	
Body	NR Band n70	15	QPSK	1	YGX23	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.70	1	1	Right	0	0.008	0.003	1.047	0.008	0.003		36.7	
Body	NR Band n70	15	QPSK	1	YGX23	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.56	36	0	Right	0	0.010	0.004	1.081	0.011	0.004		35.5	
Body	NR Band n70	15	QPSK	1	YGX23	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.70	1	1	Left	0	0.133	0.059	1.047	0.139	0.062		24.4	
Body	NR Band n70	15	QPSK	1	YGX23	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	16.90	16.56	36	0	Left	0	0.125	0.055	1.081	0.135	0.059		24.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-58 Antenna 2b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	2b	X7XML	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	13.60	12.57	1	1	Back	0	0.774	0.314	1.268	0.981	0.398		12.7	12.6
Body	NR Band n70	15	QPSK	2b	X7XML	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	13.60	12.50	36	0	Back	0	0.771	0.313	1.288	0.993	0.403		12.6	
Body	NR Band n70	15	QPSK	2b	X7XML	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	13.60	12.49	75	0	Back	0	0.769	0.312	1.291	0.993	0.403		12.6	
Body	NR Band n70	15	QPSK	2b	X7XML	1:1	0.01	1702.50	340500	CP-OFDM	0.0	13.60	12.47	1	1	Back	0	0.748	0.303	1.297	0.970	0.393		12.7	
Body	NR Band n70	15	QPSK	2b	X7XML	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	13.60	12.57	1	1	Top	0	0.000	0.000	1.268	0.000	0.000		51.6	
Body	NR Band n70	15	QPSK	2b	X7XML	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	13.60	12.50	36	0	Top	0	0.000	0.000	1.288	0.000	0.000		51.5	
Body	NR Band n70	15	QPSK	2b	X7XML	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	13.60	12.57	1	1	Bottom	0	0.544	0.200	1.268	0.690	0.254		14.2	
Body	NR Band n70	15	QPSK	2b	X7XML	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	13.60	12.50	36	0	Bottom	0	0.593	0.215	1.288	0.764	0.277		13.8	
Body	NR Band n70	15	QPSK	2b	X7XML	1:1	-0.17	1702.50	340500	DFT-s-OFDM	0.0	13.60	12.57	1	1	Right	0	0.034	0.016	1.268	0.043	0.020		26.2	
Body	NR Band n70	15	QPSK	2b	X7XML	1:1	0.11	1702.50	340500	DFT-s-OFDM	0.0	13.60	12.50	36	0	Right	0	0.033	0.014	1.288	0.043	0.018		26.3	
Body	NR Band n70	15	QPSK	2b	X7XML	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	13.60	12.57	1	1	Left	0	0.002	0.000	1.268	0.003	0.000		38.5	
Body	NR Band n70	15	QPSK	2b	X7XML	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	13.60	12.50	36	0	Left	0	0.002	0.000	1.288	0.003	0.000		38.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-59 Antenna 3

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	3	TR6RF	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	17.40	16.42	1	77	Back	0	0.684	0.342	1.253	0.857	0.429		17.1	16.4
Body	NR Band n70	15	QPSK	3	TR6RF	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	17.40	16.42	36	0	Back	0	0.717	0.355	1.253	0.898	0.445		16.8	
Body	NR Band n70	15	QPSK	3	TR6RF	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	17.40	16.39	75	0	Back	0	0.682	0.346	1.262	0.861	0.437		17.0	
Body	NR Band n70	15	QPSK	3	TR6RF	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	17.40	16.42	1	77	Top	0	0.430	0.176	1.253	0.539	0.221		19.1	
Body	NR Band n70	15	QPSK	3	TR6RF	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	17.40	16.42	36	0	Top	0	0.453	0.188	1.253	0.568	0.236		18.8	
Body	NR Band n70	15	QPSK	3	TR6RF	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	17.40	16.42	1	77	Bottom	0	0.045	0.019	1.253	0.056	0.024		28.9	
Body	NR Band n70	15	QPSK	3	TR6RF	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	17.40	16.42	36	0	Bottom	0	0.020	0.009	1.253	0.025	0.011		32.4	
Body	NR Band n70	15	QPSK	3	TR6RF	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	17.40	16.42	1	77	Right	0	0.787	0.339	1.253	0.986	0.425		16.4	
Body	NR Band n70	15	QPSK	3	TR6RF	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	17.40	16.42	36	0	Right	0	0.793	0.344	1.253	0.994	0.431		16.4	
Body	NR Band n70	15	QPSK	3	TR6RF	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	17.40	16.39	75	0	Right	0	0.777	0.337	1.262	0.981	0.425		16.5	
Body	NR Band n70	15	QPSK	3	TR6RF	1:1	0.00	1702.50	340500	CP-OFDM	0.0	17.40	16.54	1	1	Right	0	0.802	0.348	1.219	0.978	0.424	A21	16.5	
Body	NR Band n70	15	QPSK	3	TR6RF	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	17.40	16.42	1	77	Left	0	0.000	0.000	1.253	0.000	0.000		55.4	
Body	NR Band n70	15	QPSK	3	TR6RF	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	17.40	16.42	36	0	Left	0	0.000	0.000	1.253	0.000	0.000		55.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-60 Antenna 4b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	4b	GX4G2	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	14.00	12.88	1	77	Back	0	0.701	0.297	1.294	0.907	0.384		13.4	13.0
Body	NR Band n70	15	QPSK	4b	GX4G2	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	14.00	12.78	36	22	Back	0	0.647	0.275	1.324	0.857	0.364		13.7	
Body	NR Band n70	15	QPSK	4b	GX4G2	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	14.00	12.75	75	0	Back	0	0.744	0.322	1.334	0.992	0.430		13.0	
Body	NR Band n70	15	QPSK	4b	GX4G2	1:1	-0.05	1702.50	340500	CP-OFDM	0.0	14.00	12.75	1	1	Back	0	0.597	0.256	1.334	0.796	0.342		14.0	
Body	NR Band n70	15	QPSK	4b	GX4G2	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	14.00	12.88	1	77	Top	0	0.715	0.268	1.294	0.925	0.347		13.3	
Body	NR Band n70	15	QPSK	4b	GX4G2	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	14.00	12.78	36	22	Top	0	0.686	0.257	1.324	0.908	0.340		13.4	
Body	NR Band n70	15	QPSK	4b	GX4G2	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	14.00	12.75	75	0	Top	0	0.701	0.261	1.334	0.935	0.348		13.3	
Body	NR Band n70	15	QPSK	4b	GX4G2	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	14.00	12.88	1	77	Bottom	0	0.000	0.000	1.294	0.000	0.000		51.9	
Body	NR Band n70	15	QPSK	4b	GX4G2	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	14.00	12.78	36	22	Bottom	0	0.000	0.000	1.324	0.000	0.000		51.8	
Body	NR Band n70	15	QPSK	4b	GX4G2	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	14.00	12.88	1	77	Right	0	0.003	0.000	1.294	0.004	0.000		37.1	
Body	NR Band n70	15	QPSK	4b	GX4G2	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	14.00	12.78	36	22	Right	0	0.004	0.002	1.324	0.005	0.003		35.7	
Body	NR Band n70	15	QPSK	4b	GX4G2	1:1	-0.13	1702.50	340500	DFT-s-OFDM	0.0	14.00	12.88	1	77	Left	0	0.061	0.027	1.294	0.079	0.035		24.0	
Body	NR Band n70	15	QPSK	4b	GX4G2	1:1	-0.11	1702.50	340500	DFT-s-OFDM	0.0	14.00	12.78	36	22	Left	0	0.059	0.026	1.324	0.078	0.034		24.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

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10.22 NR Band n66 Standalone SAR

Table 10-61 Antenna 1

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	1	QQKCQ	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	16.90	16.37	1	214	Back	0	0.858	0.366	1.130	0.970	0.414		16.0	16.0
Body	NR Band n66	40	QPSK	1	QQKCQ	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	16.90	16.40	108	0	Back	0	0.809	0.344	1.122	0.908	0.386		16.3	
Body	NR Band n66	40	QPSK	1	QQKCQ	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	16.90	16.36	216	0	Back	0	0.840	0.357	1.132	0.951	0.404		16.1	
Body	NR Band n66	40	QPSK	1	QQKCQ	1:1	0.01	1745.00	349000	CP-OFDM	0.0	16.90	16.27	1	1	Back	0	0.737	0.313	1.156	0.852	0.362		16.6	
Body	NR Band n66	40	QPSK	1	QQKCQ	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	16.90	16.37	1	214	Top	0	0.000	0.000	1.130	0.000	0.000		55.4	
Body	NR Band n66	40	QPSK	1	QQKCQ	1:1	0.09	1745.00	349000	DFT-s-OFDM	0.0	16.90	16.40	108	0	Top	0	0.000	0.000	1.122	0.000	0.000		55.4	
Body	NR Band n66	40	QPSK	1	QQKCQ	1:1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	16.90	16.37	1	214	Bottom	0	0.642	0.255	1.130	0.725	0.288		17.3	
Body	NR Band n66	40	QPSK	1	QQKCQ	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	16.90	16.40	108	0	Bottom	0	0.696	0.276	1.122	0.781	0.310		17.0	
Body	NR Band n66	40	QPSK	1	QQKCQ	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	16.90	16.37	1	214	Right	0	0.005	0.002	1.130	0.006	0.002		38.4	
Body	NR Band n66	40	QPSK	1	QQKCQ	1:1	-0.09	1745.00	349000	DFT-s-OFDM	0.0	16.90	16.40	108	0	Right	0	0.006	0.002	1.122	0.007	0.002		37.6	
Body	NR Band n66	40	QPSK	1	QQKCQ	1:1	0.15	1745.00	349000	DFT-s-OFDM	0.0	16.90	16.37	1	214	Left	0	0.057	0.022	1.130	0.064	0.025		27.8	
Body	NR Band n66	40	QPSK	1	QQKCQ	1:1	0.15	1745.00	349000	DFT-s-OFDM	0.0	16.90	16.40	108	0	Left	0	0.068	0.028	1.122	0.076	0.031		27.1	
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 10-62 Antenna 2b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	2b	FDHG7	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	13.60	13.02	1	108	Back	0	0.797	0.322	1.143	0.911	0.368		13.0	12.6
Body	NR Band n66	40	QPSK	2b	FDHG7	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	13.60	12.80	108	54	Back	0	0.808	0.327	1.202	0.971	0.393		12.7	
Body	NR Band n66	40	QPSK	2b	FDHG7	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	13.60	12.71	216	0	Back	0	0.806	0.333	1.227	0.989	0.409		12.6	
Body	NR Band n66	40	QPSK	2b	FDHG7	1:1	-0.01	1745.00	349000	CP-OFDM	0.0	13.60	12.77	1	1	Back	0	0.807	0.327	1.211	0.977	0.396		12.7	
Body	NR Band n66	40	QPSK	2b	FDHG7	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	13.60	13.02	1	108	Top	0	0.000	0.000	1.143	0.000	0.000		52.0	
Body	NR Band n66	40	QPSK	2b	FDHG7	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	13.60	12.80	108	54	Top	0	0.000	0.000	1.202	0.000	0.000		51.8	
Body	NR Band n66	40	QPSK	2b	FDHG7	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	13.60	13.02	1	108	Bottom	0	0.613	0.223	1.143	0.701	0.255		14.1	
Body	NR Band n66	40	QPSK	2b	FDHG7	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	13.60	12.80	108	54	Bottom	0	0.641	0.232	1.202	0.770	0.279		13.7	
Body	NR Band n66	40	QPSK	2b	FDHG7	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	13.60	13.02	1	108	Right	0	0.024	0.011	1.143	0.027	0.013		28.2	
Body	NR Band n66	40	QPSK	2b	FDHG7	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	13.60	12.80	108	54	Right	0	0.025	0.011	1.202	0.030	0.013		27.8	
Body	NR Band n66	40	QPSK	2b	FDHG7	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	13.60	13.02	1	108	Left	0	0.003	0.001	1.143	0.003	0.001		37.2	
Body	NR Band n66	40	QPSK	2b	FDHG7	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	13.60	12.80	108	54	Left	0	0.004	0.002	1.202	0.005	0.002		35.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-63 Antenna 3

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	3	6T02Y	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	17.40	17.20	1	108	Back	0	0.849	0.429	1.047	0.889	0.449		16.9	16.5
Body	NR Band n66	40	QPSK	3	6T02Y	1:1	-0.06	1745.00	349000	DFT-s-OFDM	0.0	17.40	17.16	108	54	Back	0	0.832	0.419	1.057	0.879	0.443		16.9	
Body	NR Band n66	40	QPSK	3	6T02Y	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	17.40	17.14	216	0	Back	0	0.868	0.422	1.062	0.922	0.448		16.7	
Body	NR Band n66	40	QPSK	3	6T02Y	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	17.40	17.20	1	108	Top	0	0.515	0.208	1.047	0.539	0.218		19.1	
Body	NR Band n66	40	QPSK	3	6T02Y	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	17.40	17.16	108	54	Top	0	0.508	0.206	1.057	0.537	0.218		19.1	
Body	NR Band n66	40	QPSK	3	6T02Y	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	17.40	17.20	1	108	Bottom	0	0.000	0.000	1.047	0.000	0.000		56.2	
Body	NR Band n66	40	QPSK	3	6T02Y	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	17.40	17.16	108	54	Bottom	0	0.000	0.000	1.057	0.000	0.000		56.1	
Body	NR Band n66	40	QPSK	3	6T02Y	1:1	-0.09	1745.00	349000	DFT-s-OFDM	0.0	17.40	17.20	1	108	Right	0	0.802	0.353	1.047	0.840	0.370		17.1	
Body	NR Band n66	40	QPSK	3	6T02Y	1:1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	17.40	17.16	108	54	Right	0	0.778	0.343	1.057	0.822	0.363		17.2	
Body	NR Band n66	40	QPSK	3	6T02Y	1:1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	17.40	17.14	216	0	Right	0	0.887	0.381	1.062	0.942	0.405		16.6	
Body	NR Band n66	40	QPSK	3	6T02Y	1:1	-0.03	1745.00	349000	CP-OFDM	0.0	17.40	17.15	1	1	Right	0	0.910	0.392	1.059	0.964	0.415	A22	16.5	
Body	NR Band n66	40	QPSK	3	6T02Y	1:1	-0.04	1745.00	349000	CP-OFDM	0.0	17.40	17.15	1	1	Right	0	0.800	0.391	1.059	0.963	0.414		16.5	
Body	NR Band n66	40	QPSK	3	6T02Y	1:1	0.09	1745.00	349000	DFT-s-OFDM	0.0	17.40	17.20	1	108	Left	0	0.000	0.000	1.047	0.000	0.000		56.2	
Body	NR Band n66	40	QPSK	3	6T02Y	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	17.40	17.16	108	54	Left	0	0.000	0.000	1.057	0.000	0.000		56.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Blue entry represents variability measurement

Table 10-64 Antenna 4b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	4b	HV2K9	1:1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.10	1	214	Back	0	0.722	0.293	1.230	0.888	0.360		13.5	13.1
Body	NR Band n66	40	QPSK	4b	HV2K9	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.11	108	54	Back	0	0.752	0.310	1.227	0.923	0.380		13.3	
Body	NR Band n66	40	QPSK	4b	HV2K9	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.09	216	0	Back	0	0.733	0.313	1.233	0.904	0.386		13.4	
Body	NR Band n66	40	QPSK	4b	HV2K9	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.10	1	214	Top	0	0.795	0.293	1.230	0.978	0.360		13.1	
Body	NR Band n66	40	QPSK	4b	HV2K9	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.11	108	54	Top	0	0.790	0.292	1.227	0.969	0.358		13.1	
Body	NR Band n66	40	QPSK	4b	HV2K9	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.09	216	0	Top	0	0.796	0.295	1.233	0.981	0.364		13.1	
Body	NR Band n66	40	QPSK	4b	HV2K9	1:1	0.01	1745.00	349000	CP-OFDM	0.0	14.00	13.05	1	1	Top	0	0.784	0.289	1.245	0.976	0.360		13.1	
Body	NR Band n66	40	QPSK	4b	HV2K9	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.10	1	214	Bottom	0	0.000	0.000	1.230	0.000	0.000		52.1	
Body	NR Band n66	40	QPSK	4b	HV2K9	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.11	108	54	Bottom	0	0.000	0.000	1.227	0.000	0.000		52.1	
Body	NR Band n66	40	QPSK	4b	HV2K9	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.10	1	214	Right	0	0.004	0.002	1.230	0.005	0.002		36.1	
Body	NR Band n66	40	QPSK	4b	HV2K9	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.11	108	54	Right	0	0.005	0.002	1.227	0.006	0.002		35.1	
Body	NR Band n66	40	QPSK	4b	HV2K9	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.10	1	214	Left	0	0.070	0.031	1.230	0.086	0.038		23.6	
Body	NR Band n66	40	QPSK	4b	HV2K9	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	14.00	13.11	108	54	Left	0	0.064	0.029	1.227	0.079	0.036		24.0	
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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10.23 NR Band n25 Standalone SAR

Table 10-65 Antenna 1

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	1	QQKCQ	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	15.50	14.57	1	214	Back	0	0.698	0.287	1.239	0.865	0.356		15.1	14.7
Body	NR Band n25	40	QPSK	1	QQKCQ	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	15.50	14.20	108	108	Back	0	0.708	0.292	1.349	0.955	0.394		14.7	
Body	NR Band n25	40	QPSK	1	QQKCQ	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	15.50	14.19	216	0	Back	0	0.679	0.281	1.352	0.918	0.380		14.9	
Body	NR Band n25	40	QPSK	1	QQKCQ	1:1	0.01	1882.50	376500	CP-OFDM	0.0	15.50	14.55	1	1	Back	0	0.680	0.283	1.245	0.847	0.352		15.2	
Body	NR Band n25	40	QPSK	1	QQKCQ	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	15.50	14.57	1	214	Top	0	0.000	0.000	1.239	0.000	0.000		53.6	
Body	NR Band n25	40	QPSK	1	QQKCQ	1:1	0.09	1882.50	376500	DFT-s-OFDM	0.0	15.50	14.20	108	108	Top	0	0.000	0.000	1.349	0.000	0.000		53.2	
Body	NR Band n25	40	QPSK	1	QQKCQ	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	15.50	14.57	1	214	Bottom	0	0.291	0.110	1.239	0.361	0.136		18.9	
Body	NR Band n25	40	QPSK	1	QQKCQ	1:1	-0.05	1882.50	376500	DFT-s-OFDM	0.0	15.50	14.20	108	108	Bottom	0	0.292	0.110	1.349	0.394	0.148		18.5	
Body	NR Band n25	40	QPSK	1	QQKCQ	1:1	0.12	1882.50	376500	DFT-s-OFDM	0.0	15.50	14.57	1	214	Right	0	0.006	0.002	1.239	0.007	0.002		35.8	
Body	NR Band n25	40	QPSK	1	QQKCQ	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	15.50	14.20	108	108	Right	0	0.008	0.003	1.349	0.011	0.004		34.2	
Body	NR Band n25	40	QPSK	1	QQCKQ	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	15.50	14.57	1	214	Left	0	0.535	0.193	1.239	0.663	0.239		16.3	
Body	NR Band n25	40	QPSK	1	QQCKQ	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	15.50	14.20	108	108	Left	0	0.497	0.177	1.349	0.670	0.239		16.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-66 Antenna 2b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	2b	FDHG7	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	13.80	12.90	1	108	Back	0	0.679	0.286	1.230	0.835	0.352		13.6	13.5
Body	NR Band n25	40	QPSK	2b	FDHG7	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	13.80	12.84	108	54	Back	0	0.686	0.288	1.247	0.855	0.359		13.5	
Body	NR Band n25	40	QPSK	2b	FDHG7	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	13.80	12.79	216	0	Back	0	0.663	0.283	1.262	0.837	0.357		13.6	
Body	NR Band n25	40	QPSK	2b	FDHG7	1:1	0.00	1882.50	376500	CP-OFDM	0.0	13.80	12.98	1	1	Back	0	0.672	0.277	1.208	0.812	0.335		13.7	
Body	NR Band n25	40	QPSK	2b	FDHG7	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	13.80	12.90	1	108	Top	0	0.000	0.000	1.230	0.000	0.000		51.9	
Body	NR Band n25	40	QPSK	2b	FDHG7	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	13.80	12.84	108	54	Top	0	0.000	0.000	1.247	0.000	0.000		51.8	
Body	NR Band n25	40	QPSK	2b	FDHG7	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	13.80	12.90	1	108	Bottom	0	0.610	0.228	1.230	0.750	0.280		14.0	
Body	NR Band n25	40	QPSK	2b	FDHG7	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	13.80	12.84	108	54	Bottom	0	0.624	0.233	1.247	0.778	0.291		13.9	
Body	NR Band n25	40	QPSK	2b	FDHG7	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	13.80	12.90	1	108	Right	0	0.024	0.012	1.230	0.030	0.015		28.1	
Body	NR Band n25	40	QPSK	2b	FDHG7	1:1	-0.17	1882.50	376500	DFT-s-OFDM	0.0	13.80	12.84	108	54	Right	0	0.031	0.014	1.247	0.039	0.017		26.9	
Body	NR Band n25	40	QPSK	2b	FDHG7	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	13.80	12.90	1	108	Left	0	0.006	0.002	1.230	0.007	0.002		34.1	
Body	NR Band n25	40	QPSK	2b	FDHG7	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	13.80	12.84	108	54	Left	0	0.005	0.002	1.247	0.006	0.002		34.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-67 Antenna 3

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	3	HV2K9	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	16.00	15.03	1	108	Back	0	0.618	0.296	1.250	0.773	0.370		16.1	15.1
Body	NR Band n25	40	QPSK	3	HV2K9	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	16.00	14.97	108	108	Back	0	0.577	0.273	1.268	0.732	0.346		16.3	
Body	NR Band n25	40	QPSK	3	HV2K9	1:1	-0.05	1882.50	376500	DFT-s-OFDM	0.0	16.00	15.03	1	108	Top	0	0.408	0.162	1.250	0.510	0.203		17.9	
Body	NR Band n25	40	QPSK	3	HV2K9	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	16.00	14.97	108	108	Top	0	0.372	0.146	1.268	0.472	0.185		18.2	
Body	NR Band n25	40	QPSK	3	HV2K9	1:1	-0.08	1882.50	376500	DFT-s-OFDM	0.0	16.00	15.03	1	108	Bottom	0	0.019	0.007	1.250	0.024	0.009		31.2	
Body	NR Band n25	40	QPSK	3	HV2K9	1:1	0.11	1882.50	376500	DFT-s-OFDM	0.0	16.00	14.97	108	108	Bottom	0	0.019	0.007	1.268	0.024	0.009		31.2	
Body	NR Band n25	40	QPSK	3	HV2K9	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	16.00	15.03	1	108	Right	0	0.753	0.309	1.250	0.941	0.386		15.2	
Body	NR Band n25	40	QPSK	3	HV2K9	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	16.00	14.97	108	108	Right	0	0.725	0.297	1.268	0.919	0.377		15.3	
Body	NR Band n25	40	QPSK	3	HV2K9	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	16.00	14.90	216	0	Right	0	0.739	0.303	1.288	0.952	0.390		15.2	
Body	NR Band n25	40	QPSK	3	HV2K9	1:1	-0.07	1882.50	376500	CP-OFDM	0.0	16.00	14.75	1	1	Right	0	0.738	0.303	1.334	0.984	0.404		15.1	
Body	NR Band n25	40	QPSK	3	HV2K9	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	16.00	15.03	1	108	Left	0	0.000	0.000	1.250	0.000	0.000		54.0	
Body	NR Band n25	40	QPSK	3	HV2K9	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	16.00	14.97	108	108	Left	0	0.000	0.000	1.268	0.000	0.000		54.0	
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 10-68 Antenna 4b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	4b	HV2K9	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	13.30	12.82	1	1	Back	0	0.697	0.292	1.117	0.779	0.326		13.4	12.3
Body	NR Band n25	40	QPSK	4b	HV2K9	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	13.30	12.80	108	0	Back	0	0.697	0.293	1.122	0.782	0.329		13.3	
Body	NR Band n25	40	QPSK	4b	HV2K9	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	13.30	12.82	1	1	Top	0	0.862	0.322	1.117	0.963	0.360		12.4	
Body	NR Band n25	40	QPSK	4b	HV2K9	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	13.30	12.80	108	0	Top	0	0.861	0.319	1.122	0.966	0.358		12.4	
Body	NR Band n25	40	QPSK	4b	HV2K9	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	13.30	12.79	216	0	Top	0	0.878	0.326	1.125	0.988	0.367	A23	12.3	
Body	NR Band n25	40	QPSK	4b	HV2K9	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	13.30	12.79	216	0	Top	0	0.860	0.320	1.125	0.968	0.360		12.4	
Body	NR Band n25	40	QPSK	4b	HV2K9	1:1	0.01	1882.50	376500	CP-OFDM	0.0	13.30	12.81	1	1	Top	0	0.876	0.324	1.119	0.980	0.363		12.4	
Body	NR Band n25	40	QPSK	4b	HV2K9	1:1	0.09	1882.50	376500	DFT-s-OFDM	0.0	13.30	12.82	1	1	Bottom	0	0.000	0.000	1.117	0.000	0.000		51.8	
Body	NR Band n25	40	QPSK	4b	HV2K9	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	13.30	12.80	108	0	Bottom	0	0.000	0.000	1.122	0.000	0.000		51.8	
Body	NR Band n25	40	QPSK	4b	HV2K9	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	13.30	12.82	1	1	Right	0	0.008	0.003	1.117	0.009	0.003		32.8	
Body	NR Band n25	40	QPSK	4b	HV2K9	1:1	-0.19	1882.50	376500	DFT-s-OFDM	0.0	13.30	12.80	108	0	Right	0	0.008	0.003	1.122	0.009	0.003		32.8	
Body	NR Band n25	40	QPSK	4b	HV2K9	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	13.30	12.82	1	1	Left	0	0.026	0.010	1.117	0.029	0.011		27.7	
Body	NR Band n25	40	QPSK	4b	HV2K9	1:1	-0.21	1882.50	376500	DFT-s-OFDM	0.0	13.30	12.80	108	0	Left	0	0.018	0.006	1.122	0.020	0.007		29.2	
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: Blue entry represents variability measurement

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10.24 NR Band n30 Standalone SAR

Table 10-69 Antenna 1

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	1	YGX23	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	14.90	14.10	1	26	Back	0	0.806	0.333	1.202	0.969	0.400		14.0	13.9
Body	NR Band n30	10	QPSK	1	YGX23	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	14.90	14.16	25	14	Back	0	0.834	0.331	1.186	0.989	0.393		13.9	
Body	NR Band n30	10	QPSK	1	YGX23	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	14.90	14.06	50	0	Back	0	0.811	0.319	1.213	0.984	0.387		14.0	
Body	NR Band n30	10	QPSK	1	YGX23	1:1	-0.02	2310.00	462000	CP-OFDM	0.0	14.90	14.15	1	1	Back	0	0.781	0.324	1.189	0.929	0.385		14.2	
Body	NR Band n30	10	QPSK	1	YGX23	1:1	0.07	2310.00	462000	DFT-s-OFDM	0.0	14.90	14.10	1	26	Top	0	0.001	0.000	1.202	0.001	0.000		43.1	
Body	NR Band n30	10	QPSK	1	YGX23	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	14.90	14.16	25	14	Top	0	0.000	0.000	1.186	0.000	0.000		53.1	
Body	NR Band n30	10	QPSK	1	YGX23	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	14.90	14.10	1	26	Bottom	0	0.480	0.173	1.202	0.577	0.208		16.3	
Body	NR Band n30	10	QPSK	1	YGX23	1:1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	14.90	14.16	25	14	Bottom	0	0.458	0.164	1.186	0.543	0.195		16.5	
Body	NR Band n30	10	QPSK	1	YGX23	1:1	0.08	2310.00	462000	DFT-s-OFDM	0.0	14.90	14.10	1	26	Right	0	0.007	0.002	1.202	0.008	0.002		34.6	
Body	NR Band n30	10	QPSK	1	YGX23	1:1	0.07	2310.00	462000	DFT-s-OFDM	0.0	14.90	14.16	25	14	Right	0	0.007	0.002	1.186	0.008	0.002		34.7	
Body	NR Band n30	10	QPSK	1	YGX23	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	14.90	14.10	1	26	Left	0	0.549	0.209	1.202	0.660	0.251		15.7	
Body	NR Band n30	10	QPSK	1	YGX23	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	14.90	14.16	25	14	Left	0	0.561	0.207	1.186	0.665	0.246		15.7	
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 10-70 Antenna 2b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	2b	27K9T	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.13	1	26	Back	0	0.746	0.284	1.250	0.933	0.355		12.4	12.1
Body	NR Band n30	10	QPSK	2b	27K9T	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.11	25	14	Back	0	0.750	0.284	1.256	0.942	0.357		12.3	
Body	NR Band n30	10	QPSK	2b	27K9T	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.05	50	0	Back	0	0.728	0.278	1.274	0.927	0.354		12.4	
Body	NR Band n30	10	QPSK	2b	27K9T	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.13	1	26	Top	0	0.007	0.002	1.250	0.009	0.003		32.7	
Body	NR Band n30	10	QPSK	2b	27K9T	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.11	25	14	Top	0	0.008	0.002	1.256	0.010	0.003		32.1	
Body	NR Band n30	10	QPSK	2b	27K9T	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.13	1	26	Bottom	0	0.791	0.276	1.250	0.989	0.345		12.1	
Body	NR Band n30	10	QPSK	2b	27K9T	1:1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.11	25	14	Bottom	0	0.763	0.266	1.256	0.958	0.334		12.3	
Body	NR Band n30	10	QPSK	2b	27K9T	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.05	50	0	Bottom	0	0.780	0.271	1.274	0.994	0.345		12.1	
Body	NR Band n30	10	QPSK	2b	27K9T	1:1	-0.05	2310.00	462000	CP-OFDM	0.0	13.10	11.91	1	1	Bottom	0	0.752	0.264	1.315	0.989	0.347		12.1	
Body	NR Band n30	10	QPSK	2b	27K9T	1:1	-0.08	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.13	1	26	Right	0	0.023	0.010	1.250	0.029	0.013		27.5	
Body	NR Band n30	10	QPSK	2b	27K9T	1:1	0.17	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.11	25	14	Right	0	0.024	0.010	1.256	0.030	0.013		27.3	
Body	NR Band n30	10	QPSK	2b	27K9T	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.13	1	26	Left	0	0.008	0.003	1.250	0.010	0.004		32.1	
Body	NR Band n30	10	QPSK	2b	27K9T	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	13.10	12.11	25	14	Left	0	0.007	0.003	1.256	0.009	0.004		32.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-71 Antenna 3

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	3	7XTYO	1:1	0.09	2310.00	462000	DFT-s-OFDM	0.0	14.40	14.26	1	1	Back	0	0.830	0.309	1.033	0.857	0.319		14.1	13.4
Body	NR Band n30	10	QPSK	3	7XTYO	1:1	-0.19	2310.00	462000	DFT-s-OFDM	0.0	14.40	14.20	25	14	Back	0	0.854	0.318	1.047	0.894	0.333		13.9	
Body	NR Band n30	10	QPSK	3	7XTYO	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	14.40	14.18	50	0	Back	0	0.885	0.328	1.052	0.931	0.345		13.7	
Body	NR Band n30	10	QPSK	3	7XTYO	1:1	0.09	2310.00	462000	CP-OFDM	0.0	14.40	14.17	1	1	Back	0	0.936	0.345	1.054	0.987	0.364	A24	13.4	
Body	NR Band n30	10	QPSK	3	7XTYO	1:1	0.16	2310.00	462000	CP-OFDM	0.0	14.40	14.17	1	1	Back	0	0.925	0.342	1.054	0.975	0.360		13.5	
Body	NR Band n30	10	QPSK	3	7XTYO	1:1	-0.07	2310.00	462000	DFT-s-OFDM	0.0	14.40	14.26	1	1	Top	0	0.787	0.274	1.033	0.813	0.283		14.3	
Body	NR Band n30	10	QPSK	3	7XTYO	1:1	-0.21	2310.00	462000	DFT-s-OFDM	0.0	14.40	14.20	25	14	Top	0	0.758	0.266	1.047	0.794	0.279		14.4	
Body	NR Band n30	10	QPSK	3	7XTYO	1:1	-0.18	2310.00	462000	DFT-s-OFDM	0.0	14.40	14.18	50	0	Top	0	0.753	0.268	1.052	0.792	0.282		14.4	
Body	NR Band n30	10	QPSK	3	7XTYO	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	14.40	14.26	1	1	Bottom	0	0.000	0.000	1.033	0.000	0.000		53.2	
Body	NR Band n30	10	QPSK	3	7XTYO	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	14.40	14.20	25	14	Bottom	0	0.000	0.000	1.047	0.000	0.000		53.2	
Body	NR Band n30	10	QPSK	3	7XTYO	1:1	-0.17	2310.00	462000	DFT-s-OFDM	0.0	14.40	14.26	1	1	Right	0	0.139	0.048	1.033	0.144	0.050		21.8	
Body	NR Band n30	10	QPSK	3	7XTYO	1:1	-0.08	2310.00	462000	DFT-s-OFDM	0.0	14.40	14.20	25	14	Right	0	0.140	0.048	1.047	0.147	0.050		21.7	
Body	NR Band n30	10	QPSK	3	7XTYO	1:1	-0.08	2310.00	462000	DFT-s-OFDM	0.0	14.40	14.26	1	1	Left	0	0.013	0.005	1.033	0.013	0.005		32.1	
Body	NR Band n30	10	QPSK	3	7XTYO	1:1	-0.10	2310.00	462000	DFT-s-OFDM	0.0	14.40	14.20	25	14	Left	0	0.014	0.006	1.047	0.015	0.006		31.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Blue entry represents variability measurement

Table 10-72 Antenna 4b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	4b	FH74G	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	12.80	11.80	1	26	Back	0	0.645	0.241	1.259	0.812	0.303		12.7	12.0
Body	NR Band n30	10	QPSK	4b	FH74G	1:1	-0.15	2310.00	462000	DFT-s-OFDM	0.0	12.80	11.81	25	14	Back	0	0.629	0.235	1.256	0.790	0.295		12.8	
Body	NR Band n30	10	QPSK	4b	FH74G	1:1	0.06	2310.00	462000	DFT-s-OFDM	0.0	12.80	11.73	50	0	Back	0	0.628	0.234	1.279	0.803	0.299		12.7	
Body	NR Band n30	10	QPSK	4b	FH74G	1:1	-0.20	2310.00	462000	DFT-s-OFDM	0.0	12.80	11.80	1	26	Top	0	0.748	0.260	1.259	0.942	0.327		12.0	
Body	NR Band n30	10	QPSK	4b	FH74G	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	12.80	11.81	25	14	Top	0	0.738	0.254	1.256	0.927	0.319		12.1	
Body	NR Band n30	10	QPSK	4b	FH74G	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	12.80	11.73	50	0	Top	0	0.738	0.257	1.279	0.944	0.329		12.0	
Body	NR Band n30	10	QPSK	4b	FH74G	1:1	-0.01	2310.00	462000	CP-OFDM	0.0	12.80	11.69	1	1	Top	0	0.737	0.255	1.291	0.951	0.329		12.0	
Body	NR Band n30	10	QPSK	4b	FH74G	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	12.80	11.80	1	26	Bottom	0	0.000	0.000	1.259	0.000	0.000		50.8	
Body	NR Band n30	10	QPSK	4b	FH74G	1:1	0.06	2310.00	462000	DFT-s-OFDM	0.0	12.80	11.81	25	14	Bottom	0	0.000	0.000	1.256	0.000	0.000		50.8	
Body	NR Band n30	10	QPSK	4b	FH74G	1:1	0.06	2310.00	462000	DFT-s-OFDM	0.0	12.80	11.80	1	26	Right	0	0.003	0.000	1.259	0.004	0.000		36.0	
Body	NR Band n30	10	QPSK	4b	FH74G	1:1	0.07	2310.00	462000	DFT-s-OFDM	0.0	12.80	11.81	25	14	Right	0	0.002	0.000	1.256	0.003	0.000		37.8	
Body	NR Band n30	10	QPSK	4b	FH74G	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	12.80	11.80	1	26	Left	0	0.012	0.005	1.259	0.015	0.006		30.0	
Body	NR Band n30	10	QPSK	4b	FH74G	1:1	-0.16	2310.00	462000	DFT-s-OFDM	0.0	12.80	11.81	25	14	Left	0	0.011	0.005	1.256	0.014	0.006		30.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

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10.25 NR Band n7 Standalone SAR

Table 10-73 Antenna 1

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	1	QWMK4	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	13.60	12.84	1	108	Back	0	0.783	0.251	1.191	0.933	0.299		12.9	12.6
Body	NR Band n7	40	QPSK	1	QWMK4	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	13.60	12.77	108	54	Back	0	0.780	0.250	1.211	0.945	0.303		12.8	
Body	NR Band n7	40	QPSK	1	QWMK4	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	13.60	12.74	216	0	Back	0	0.771	0.247	1.219	0.940	0.301		12.9	
Body	NR Band n7	40	QPSK	1	QWMK4	1:1	-0.02	2535.00	507000	CP-OFDM	0.0	13.60	12.70	1	1	Back	0	0.803	0.259	1.230	0.988	0.319	A25	12.6	
Body	NR Band n7	40	QPSK	1	QWMK4	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	13.60	12.84	1	108	Top	0	0.002	0.000	1.191	0.002	0.000		38.8	
Body	NR Band n7	40	QPSK	1	QWMK4	1:1	0.09	2535.00	507000	DFT-s-OFDM	0.0	13.60	12.77	108	54	Top	0	0.002	0.000	1.211	0.002	0.000		38.7	
Body	NR Band n7	40	QPSK	1	QWMK4	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	13.60	12.84	1	108	Bottom	0	0.487	0.166	1.191	0.580	0.198		14.9	
Body	NR Band n7	40	QPSK	1	QWMK4	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	13.60	12.77	108	54	Bottom	0	0.480	0.163	1.211	0.581	0.197		14.9	
Body	NR Band n7	40	QPSK	1	QWMK4	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	13.60	12.84	1	108	Right	0	0.019	0.007	1.191	0.023	0.008		29.0	
Body	NR Band n7	40	QPSK	1	QWMK4	1:1	0.05	2535.00	507000	DFT-s-OFDM	0.0	13.60	12.77	108	54	Right	0	0.017	0.006	1.211	0.021	0.007		29.4	
Body	NR Band n7	40	QPSK	1	QWMK4	1:1	0.05	2535.00	507000	DFT-s-OFDM	0.0	13.60	12.84	1	108	Left	0	0.214	0.065	1.191	0.255	0.077		18.5	
Body	NR Band n7	40	QPSK	1	QWMK4	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	13.60	12.77	108	54	Left	0	0.173	0.055	1.211	0.210	0.067		19.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-74 Antenna 2b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	2b	4QXHR	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	13.00	11.99	1	108	Back	0	0.668	0.236	1.262	0.843	0.298		12.7	12.2
Body	NR Band n7	40	QPSK	2b	4QXHR	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	13.00	11.92	108	54	Back	0	0.685	0.241	1.282	0.878	0.309		12.5	
Body	NR Band n7	40	QPSK	2b	4QXHR	1:1	-0.07	2535.00	507000	DFT-s-OFDM	0.0	13.00	11.86	216	0	Back	0	0.705	0.247	1.300	0.917	0.321		12.4	
Body	NR Band n7	40	QPSK	2b	4QXHR	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	13.00	11.99	1	108	Top	0	0.000	0.000	1.262	0.000	0.000		51.0	
Body	NR Band n7	40	QPSK	2b	4QXHR	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	13.00	11.92	108	54	Top	0	0.001	0.000	1.282	0.001	0.000		40.9	
Body	NR Band n7	40	QPSK	2b	4QXHR	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	13.00	11.99	1	108	Bottom	0	0.743	0.246	1.262	0.938	0.310		12.3	
Body	NR Band n7	40	QPSK	2b	4QXHR	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	13.00	11.92	108	54	Bottom	0	0.719	0.238	1.282	0.922	0.305		12.3	
Body	NR Band n7	40	QPSK	2b	4QXHR	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	13.00	11.86	216	0	Bottom	0	0.734	0.242	1.300	0.954	0.315		12.2	
Body	NR Band n7	40	QPSK	2b	4QXHR	1:1	-0.01	2535.00	507000	CP-OFDM	0.0	13.00	11.95	1	1	Bottom	0	0.719	0.239	1.274	0.916	0.304		12.4	
Body	NR Band n7	40	QPSK	2b	4QXHR	1:1	0.16	2535.00	507000	DFT-s-OFDM	0.0	13.00	11.99	1	108	Right	0	0.028	0.011	1.262	0.035	0.014		26.5	
Body	NR Band n7	40	QPSK	2b	4QXHR	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	13.00	11.92	108	54	Right	0	0.027	0.011	1.282	0.035	0.014		26.6	
Body	NR Band n7	40	QPSK	2b	4QXHR	1:1	0.07	2535.00	507000	DFT-s-OFDM	0.0	13.00	11.99	1	108	Left	0	0.016	0.006	1.262	0.020	0.008		28.9	
Body	NR Band n7	40	QPSK	2b	4QXHR	1:1	0.21	2535.00	507000	DFT-s-OFDM	0.0	13.00	11.92	108	54	Left	0	0.015	0.006	1.282	0.019	0.008		29.1	
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 10-75 Antenna 3

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	3	GX4G2	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.17	1	1	Back	0	0.683	0.229	1.211	0.827	0.277		13.8	13.2
Body	NR Band n7	40	QPSK	3	GX4G2	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.03	108	0	Back	0	0.703	0.237	1.250	0.879	0.296		13.5	
Body	NR Band n7	40	QPSK	3	GX4G2	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	14.00	12.99	216	0	Back	0	0.754	0.252	1.262	0.952	0.318		13.2	
Body	NR Band n7	40	QPSK	3	GX4G2	1:1	-0.01	2535.00	507000	CP-OFDM	0.0	14.00	13.09	1	1	Back	0	0.687	0.231	1.233	0.847	0.285		13.7	
Body	NR Band n7	40	QPSK	3	GX4G2	1:1	-0.08	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.17	1	1	Top	0	0.516	0.166	1.211	0.625	0.201		15.0	
Body	NR Band n7	40	QPSK	3	GX4G2	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.03	108	0	Top	0	0.499	0.159	1.250	0.624	0.199		15.0	
Body	NR Band n7	40	QPSK	3	GX4G2	1:1	0.09	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.17	1	1	Bottom	0	0.004	0.000	1.211	0.005	0.000		36.1	
Body	NR Band n7	40	QPSK	3	GX4G2	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.03	108	0	Bottom	0	0.005	0.002	1.250	0.006	0.003		35.0	
Body	NR Band n7	40	QPSK	3	GX4G2	1:1	0.08	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.17	1	1	Right	0	0.304	0.110	1.211	0.368	0.133		17.3	
Body	NR Band n7	40	QPSK	3	GX4G2	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.03	108	0	Right	0	0.298	0.109	1.250	0.373	0.136		17.3	
Body	NR Band n7	40	QPSK	3	GX4G2	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.17	1	1	Left	0	0.015	0.006	1.211	0.018	0.007		30.4	
Body	NR Band n7	40	QPSK	3	GX4G2	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	14.00	13.03	108	0	Left	0	0.014	0.006	1.250	0.018	0.008		30.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-76 Antenna 4b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	4b	FH74G	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	12.20	11.40	1	1	Back	0	0.563	0.196	1.202	0.677	0.236		12.9	11.6
Body	NR Band n7	40	QPSK	4b	FH74G	1:1	0.09	2535.00	507000	DFT-s-OFDM	0.0	12.20	11.34	108	0	Back	0	0.594	0.203	1.219	0.724	0.247		12.6	
Body	NR Band n7	40	QPSK	4b	FH74G	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	12.20	11.40	1	1	Top	0	0.721	0.232	1.202	0.867	0.279		11.8	
Body	NR Band n7	40	QPSK	4b	FH74G	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	12.20	11.34	108	0	Top	0	0.703	0.227	1.219	0.857	0.277		11.9	
Body	NR Band n7	40	QPSK	4b	FH74G	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	12.20	11.25	216	0	Top	0	0.724	0.232	1.245	0.901	0.289		11.6	
Body	NR Band n7	40	QPSK	4b	FH74G	1:1	0.05	2535.00	507000	CP-OFDM	0.0	12.20	11.36	1	1	Top	0	0.701	0.228	1.213	0.850	0.277		11.9	
Body	NR Band n7	40	QPSK	4b	FH74G	1:1	0.09	2535.00	507000	DFT-s-OFDM	0.0	12.20	11.40	1	1	Bottom	0	0.000	0.000	1.202	0.000	0.000		50.4	
Body	NR Band n7	40	QPSK	4b	FH74G	1:1	0.09	2535.00	507000	DFT-s-OFDM	0.0	12.20	11.34	108	0	Bottom	0	0.000	0.000	1.219	0.000	0.000		50.3	
Body	NR Band n7	40	QPSK	4b	FH74G	1:1	-0.18	2535.00	507000	DFT-s-OFDM	0.0	12.20	11.40	1	1	Right	0	0.020	0.008	1.202	0.024	0.010		27.4	
Body	NR Band n7	40	QPSK	4b	FH74G	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	12.20	11.34	108	0	Right	0	0.020	0.007	1.219	0.024	0.009		27.3	
Body	NR Band n7	40	QPSK	4b	FH74G	1:1	-0.16	2535.00	507000	DFT-s-OFDM	0.0	12.20	11.40	1	1	Left	0	0.015	0.005	1.202	0.018	0.006		28.6	
Body	NR Band n7	40	QPSK	4b	FH74G	1:1	0.12	2535.00	507000	DFT-s-OFDM	0.0	12.20	11.34	108	0	Left	0	0.018	0.006	1.219	0.022	0.007		27.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

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10.26 NR Band n41 Standalone SAR

Table 10-77 Antenna 1

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	1	QWMK4	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.35	1	137	Back	0	0.683	0.211	1.216	0.831	0.257		13.0	12.7
Body	NR Band n41	100	QPSK	1	QWMK4	1:1	-0.08	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.26	135	69	Back	0	0.663	0.207	1.242	0.823	0.257		13.0	
Body	NR Band n41	100	QPSK	1	QWMK4	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.16	270	0	Back	0	0.661	0.205	1.271	0.840	0.261		12.9	
Body	NR Band n41	100	QPSK	1	QWMK4	1:1	0.05	2592.99	518598	CP-OFDM	0.0	13.20	11.80	1	1	Back	0	0.644	0.202	1.380	0.889	0.279		12.7	
Body	NR Band n41	100	QPSK	1	QWMK4	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.35	1	137	Top	0	0.000	0.000	1.216	0.000	0.000		51.3	
Body	NR Band n41	100	QPSK	1	QWMK4	1:1	0.07	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.26	135	69	Top	0	0.000	0.000	1.242	0.000	0.000		51.2	
Body	NR Band n41	100	QPSK	1	QWMK4	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.35	1	137	Bottom	0	0.469	0.159	1.216	0.570	0.193		14.6	
Body	NR Band n41	100	QPSK	1	QWMK4	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.26	135	69	Bottom	0	0.457	0.152	1.242	0.568	0.189		14.6	
Body	NR Band n41	100	QPSK	1	QWMK4	1:1	0.12	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.35	1	137	Right	0	0.027	0.010	1.216	0.033	0.012		27.0	
Body	NR Band n41	100	QPSK	1	QWMK4	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.26	135	69	Right	0	0.026	0.010	1.242	0.032	0.012		27.1	
Body	NR Band n41	100	QPSK	1	QWMK4	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.35	1	137	Left	0	0.158	0.047	1.216	0.192	0.057		19.3	
Body	NR Band n41	100	QPSK	1	QWMK4	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.26	135	69	Left	0	0.155	0.046	1.242	0.193	0.057		19.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-78 Antenna 2b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	2b	022ML	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	12.50	11.55	1	271	Back	0	0.644	0.217	1.245	0.802	0.270		13.4	12.9
Body	NR Band n41	100	QPSK	2b	022ML	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	12.50	11.55	135	69	Back	0	0.664	0.226	1.245	0.827	0.281		13.3	
Body	NR Band n41	100	QPSK	2b	022ML	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	12.50	11.54	270	0	Back	0	0.656	0.224	1.247	0.818	0.279		13.3	
Body	NR Band n41	100	QPSK	2b	022ML	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	12.50	11.55	1	271	Top	0	0.000	0.000	1.245	0.000	0.000		51.5	
Body	NR Band n41	100	QPSK	2b	022ML	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	12.50	11.55	135	69	Top	0	0.000	0.000	1.245	0.000	0.000		51.5	
Body	NR Band n41	100	QPSK	2b	022ML	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	12.50	11.55	1	271	Bottom	0	0.657	0.213	1.245	0.818	0.265		13.3	
Body	NR Band n41	100	QPSK	2b	022ML	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	12.50	11.55	135	69	Bottom	0	0.715	0.235	1.245	0.890	0.293		13.0	
Body	NR Band n41	100	QPSK	2b	022ML	1:1	-0.07	2592.99	518598	DFT-s-OFDM	0.0	12.50	11.54	270	0	Bottom	0	0.718	0.235	1.247	0.895	0.293		12.9	
Body	NR Band n41	100	QPSK	2b	022ML	1:1	-0.01	2592.99	518598	CP-OFDM	0.0	12.50	11.26	1	1	Bottom	0	0.685	0.227	1.330	0.911	0.302		12.9	
Body	NR Band n41	100	QPSK	2b	022ML	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	12.50	11.55	1	271	Right	0	0.047	0.017	1.245	0.059	0.021		24.8	
Body	NR Band n41	100	QPSK	2b	022ML	1:1	-0.09	2592.99	518598	DFT-s-OFDM	0.0	12.50	11.55	135	69	Right	0	0.048	0.018	1.245	0.060	0.022		24.7	
Body	NR Band n41	100	QPSK	2b	022ML	1:1	-0.09	2592.99	518598	DFT-s-OFDM	0.0	12.50	11.55	1	271	Left	0	0.020	0.007	1.245	0.025	0.009		28.5	
Body	NR Band n41	100	QPSK	2b	022ML	1:1	0.09	2592.99	518598	DFT-s-OFDM	0.0	12.50	11.55	135	69	Left	0	0.019	0.007	1.245	0.024	0.009		28.7	
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 10-79 Antenna 3

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	3	4QXHR	1:1	-0.08	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.34	1	137	Back	0	0.744	0.243	1.219	0.907	0.296		12.6	12.4
Body	NR Band n41	100	QPSK	3	4QXHR	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.35	135	0	Back	0	0.713	0.232	1.216	0.867	0.282		12.8	
Body	NR Band n41	100	QPSK	3	4QXHR	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.30	270	0	Back	0	0.773	0.249	1.230	0.951	0.306		12.4	
Body	NR Band n41	100	QPSK	3	4QXHR	1:1	-0.01	2592.99	518598	CP-OFDM	0.0	13.20	12.09	1	1	Back	0	0.601	0.197	1.291	0.776	0.254		13.3	
Body	NR Band n41	100	QPSK	3	4QXHR	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.34	1	137	Top	0	0.446	0.139	1.219	0.544	0.169		14.8	
Body	NR Band n41	100	QPSK	3	4QXHR	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.35	135	0	Top	0	0.429	0.135	1.216	0.522	0.164		15.0	
Body	NR Band n41	100	QPSK	3	4QXHR	1:1	0.07	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.34	1	137	Bottom	0	0.002	0.000	1.219	0.002	0.000		38.3	
Body	NR Band n41	100	QPSK	3	4QXHR	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.35	135	0	Bottom	0	0.003	0.000	1.216	0.004	0.000		36.6	
Body	NR Band n41	100	QPSK	3	4QXHR	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.34	1	137	Right	0	0.226	0.077	1.219	0.275	0.094		17.8	
Body	NR Band n41	100	QPSK	3	4QXHR	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.35	135	0	Right	0	0.263	0.092	1.216	0.320	0.112		17.1	
Body	NR Band n41	100	QPSK	3	4QXHR	1:1	-0.14	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.34	1	137	Left	0	0.034	0.012	1.219	0.041	0.015		26.0	
Body	NR Band n41	100	QPSK	3	4QXHR	1:1	-0.11	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.35	135	0	Left	0	0.025	0.009	1.216	0.030	0.011		27.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-80 Antenna 4b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	4b	FH74G	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	12.20	11.35	1	137	Back	0	0.638	0.217	1.216	0.776	0.264		12.3	11.2
Body	NR Band n41	100	QPSK	4b	FH74G	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	12.20	11.40	135	69	Back	0	0.651	0.221	1.202	0.783	0.266		12.2	
Body	NR Band n41	100	QPSK	4b	FH74G	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	12.20	11.32	270	0	Back	0	0.603	0.207	1.225	0.739	0.254		12.5	
Body	NR Band n41	100	QPSK	4b	FH74G	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	12.20	11.35	1	137	Top	0	0.808	0.261	1.216	0.983	0.317		11.3	
Body	NR Band n41	100	QPSK	4b	FH74G	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	12.20	11.40	135	69	Top	0	0.826	0.266	1.202	0.993	0.320	A26	11.2	
Body	NR Band n41	100	QPSK	4b	FH74G	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	12.20	11.32	270	0	Top	0	0.800	0.257	1.225	0.980	0.315		11.3	
Body	NR Band n41	100	QPSK	4b	FH74G	1:1	0.04	2592.99	518598	CP-OFDM	0.0	12.20	11.33	1	1	Top	0	0.770	0.250	1.222	0.941	0.306		11.4	
Body	NR Band n41	100	QPSK	4b	FH74G	1:1	-0.15	2592.99	518598	DFT-s-OFDM	0.0	12.20	11.35	1	137	Bottom	0	0.000	0.000	1.216	0.000	0.000		50.3	
Body	NR Band n41	100	QPSK	4b	FH74G	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	12.20	11.40	135	69	Bottom	0	0.000	0.000	1.202	0.000	0.000		50.4	
Body	NR Band n41	100	QPSK	4b	FH74G	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	12.20	11.35	1	137	Right	0	0.008	0.001	1.216	0.010	0.001		31.3	
Body	NR Band n41	100	QPSK	4b	FH74G	1:1	-0.07	2592.99	518598	DFT-s-OFDM	0.0	12.20	11.40	135	69	Right	0	0.010	0.003	1.202	0.012	0.004		30.4	
Body	NR Band n41	100	QPSK	4b	FH74G	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	12.20	11.35	1	137	Left	0	0.028	0.010	1.216	0.034	0.012		25.9	
Body	NR Band n41	100	QPSK	4b	FH74G	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	12.20	11.40	135	69	Left	0	0.028	0.010	1.202	0.034	0.012		25.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

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10.27 NR Band n48 Standalone SAR

Table 10-81 Antenna 1

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	0.16	3570.00	638000	DFT-s-OFDM	0.0	11.40	10.37	1	104	Back	0	0.727	0.232	1.268	0.922	0.294		10.7	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	11.40	10.48	1	104	Back	0	0.759	0.243	1.236	0.938	0.300		10.7	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	0.00	3679.98	645332	DFT-s-OFDM	0.0	11.40	10.51	1	104	Back	0	0.801	0.259	1.227	0.983	0.318		10.5	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	11.40	10.31	50	0	Back	0	0.653	0.209	1.285	0.839	0.269		11.1	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	-0.06	3624.99	641666	DFT-s-OFDM	0.0	11.40	10.42	50	0	Back	0	0.603	0.202	1.253	0.756	0.253		11.6	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	11.40	10.50	50	0	Back	0	0.773	0.247	1.230	0.951	0.304		10.6	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	0.06	3679.98	645332	DFT-s-OFDM	0.0	11.40	10.39	100	0	Back	0	0.767	0.245	1.262	0.968	0.309		10.5	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	-0.08	3679.98	645332	CP-OFDM	0.0	11.40	10.43	1	1	Back	0	0.765	0.254	1.250	0.956	0.318		10.6	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	0.02	3679.98	645332	DFT-s-OFDM	0.0	11.40	10.51	1	104	Top	0	0.004	0.000	1.227	0.005	0.000		33.5	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	0.03	3679.98	645332	DFT-s-OFDM	0.0	11.40	10.50	50	0	Top	0	0.002	0.000	1.230	0.002	0.000		36.5	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	0.01	3679.98	645332	DFT-s-OFDM	0.0	11.40	10.51	1	104	Bottom	0	0.294	0.069	1.227	0.361	0.085		14.8	10.5
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	0.08	3679.98	645332	DFT-s-OFDM	0.0	11.40	10.50	50	0	Bottom	0	0.283	0.066	1.230	0.348	0.081		15.0	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	0.06	3679.98	645332	DFT-s-OFDM	0.0	11.40	10.51	1	104	Right	0	0.002	0.000	1.227	0.002	0.000		36.5	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	0.08	3679.98	645332	DFT-s-OFDM	0.0	11.40	10.50	50	0	Right	0	0.003	0.001	1.230	0.004	0.001		34.7	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	0.05	3570.00	638000	DFT-s-OFDM	0.0	11.40	10.37	1	104	Left	0	0.660	0.188	1.268	0.837	0.238		11.2	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	-0.09	3624.99	641666	DFT-s-OFDM	0.0	11.40	10.48	1	104	Left	0	0.713	0.201	1.236	0.881	0.248		10.9	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	11.40	10.51	1	104	Left	0	0.739	0.207	1.227	0.907	0.254		10.8	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	0.04	3570.00	638000	DFT-s-OFDM	0.0	11.40	10.31	50	0	Left	0	0.642	0.180	1.285	0.825	0.231		11.2	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	0.06	3624.99	641666	DFT-s-OFDM	0.0	11.40	10.42	50	0	Left	0	0.709	0.198	1.253	0.888	0.248		10.9	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	-0.04	3679.98	645332	DFT-s-OFDM	0.0	11.40	10.50	50	0	Left	0	0.741	0.210	1.230	0.911	0.258		10.8	
Body	NR Band n48	40	QPSK	1	HV2K9	1:1	-0.04	3679.98	645332	DFT-s-OFDM	0.0	11.40	10.39	100	0	Left	0	0.723	0.205	1.262	0.912	0.259		10.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-82 Antenna 2b

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Channel #	Waveform	Max Allowed Burst Power [dBm]	Conducted Burst Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Frame Avg Plimit [dBm]	Overall Frame Avg Plimit [dBm]
Body	NR Band n48	40	QPSK	2b	6KX02	638000	DFT-s-OFDM	13.50	12.70	1	104	Back	0	0.587	0.186	0.706	0.224		14.0	
Body	NR Band n48	40	QPSK	2b	6KX02	641666	DFT-s-OFDM	13.50	12.76	1	104	Back	0	0.656	0.207	0.778	0.246		13.6	
Body	NR Band n48	40	QPSK	2b	6KX02	645332	DFT-s-OFDM	13.50	12.92	1	104	Back	0	0.681	0.217	0.778	0.248		13.6	
Body	NR Band n48	40	QPSK	2b	6KX02	638000	DFT-s-OFDM	13.50	12.50	50	0	Back	0	0.605	0.191	0.762	0.240		13.7	
Body	NR Band n48	40	QPSK	2b	6KX02	641666	DFT-s-OFDM	13.50	12.59	50	0	Back	0	0.619	0.196	0.763	0.242		13.7	
Body	NR Band n48	40	QPSK	2b	6KX02	645332	DFT-s-OFDM	13.50	12.85	50	0	Back	0	0.639	0.203	0.742	0.236		13.8	
Body	NR Band n48	40	QPSK	2b	6KX02	645332	DFT-s-OFDM	13.50	12.84	100	0	Back	0	0.673	0.212	0.783	0.247		13.5	
Body	NR Band n48	40	QPSK	2b	6KX02	645332	DFT-s-OFDM	13.50	12.92	1	104	Top	0	0.002	0.000	0.002	0.000		38.9	
Body	NR Band n48	40	QPSK	2b	6KX02	645332	DFT-s-OFDM	13.50	12.85	50	0	Top	0	0.000	0.000	0.000	0.000		51.8	
Body	NR Band n48	40	QPSK	2b	6KX02	638000	DFT-s-OFDM	13.50	12.70	1	104	Bottom	0	0.800	0.228	0.962	0.274		12.7	
Body	NR Band n48	40	QPSK	2b	6KX02	638000	DFT-s-OFDM	13.50	12.70	1	104	Bottom	0	0.672	0.195	0.808	0.234		13.4	12.5
Body	NR Band n48	40	QPSK	2b	6KX02	641666	DFT-s-OFDM	13.50	12.76	1	104	Bottom	0	0.833	0.236	0.988	0.280		12.5	
Body	NR Band n48	40	QPSK	2b	6KX02	645332	DFT-s-OFDM	13.50	12.92	1	104	Bottom	0	0.865	0.245	0.989	0.280		12.5	
Body	NR Band n48	40	QPSK	2b	6KX02	638000	DFT-s-OFDM	13.50	12.50	50	0	Bottom	0	0.772	0.220	0.972	0.277		12.6	
Body	NR Band n48	40	QPSK	2b	6KX02	641666	DFT-s-OFDM	13.50	12.59	50	0	Bottom	0	0.775	0.222	0.956	0.274		12.7	
Body	NR Band n48	40	QPSK	2b	6KX02	645332	DFT-s-OFDM	13.50	12.85	50	0	Bottom	0	0.849	0.241	0.986	0.280		12.5	
Body	NR Band n48	40	QPSK	2b	6KX02	645332	DFT-s-OFDM	13.50	12.84	100	0	Bottom	0	0.849	0.241	0.988	0.281		12.5	
Body	NR Band n48	40	QPSK	2b	6KX02	645332	CP-OFDM	13.50	13.01	1	1	Bottom	0	0.836	0.237	0.935	0.265		12.8	
Body	NR Band n48	40	QPSK	2b	6KX02	645332	DFT-s-OFDM	13.50	12.92	1	104	Right	0	0.019	0.007	0.022	0.008		29.1	
Body	NR Band n48	40	QPSK	2b	6KX02	645332	DFT-s-OFDM	13.50	12.85	50	0	Right	0	0.019	0.006	0.022	0.007		29.0	
Body	NR Band n48	40	QPSK	2b	6KX02	645332	DFT-s-OFDM	13.50	12.92	1	104	Left	0	0.011	0.002	0.013	0.002		31.5	
Body	NR Band n48	40	QPSK	2b	6KX02	645332	DFT-s-OFDM	13.50	12.85	50	0	Left	0	0.008	0.002	0.009	0.002		32.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

Table 10-83 Antenna 3

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	-0.19	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.51	1	53	Back	0	0.323	0.093	1.119	0.361	0.104		14.4	
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	0.07	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.46	50	56	Back	0	0.319	0.091	1.132	0.361	0.103		14.4	
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	0.04	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.51	1	53	Top	0	0.374	0.098	1.119	0.419	0.110		13.8	
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.46	50	56	Top	0	0.385	0.102	1.132	0.436	0.115		13.6	
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	0.04	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.51	1	53	Bottom	0	0.003	0.000	1.119	0.003	0.000		34.7	
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.46	50	56	Bottom	0	0.001	0.000	1.132	0.001	0.000		39.4	
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	0.05	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.51	1	53	Right	0	0.750	0.219	1.119	0.839	0.245		10.7	
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	-0.10	3624.99	641666	DFT-s-OFDM	0.0	11.00	10.19	1	1	Right	0	0.706	0.208	1.205	0.851	0.251		10.7	10.0
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	11.00	10.05	1	1	Right	0	0.790	0.226	1.245	0.984	0.281		10.1	
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.46	50	56	Right	0	0.745	0.216	1.132	0.843	0.245		10.7	
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	11.00	10.12	50	0	Right	0	0.702	0.206	1.225	0.860	0.252		10.6	
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	0.04	3679.98	645332	DFT-s-OFDM	0.0	11.00	10.00	50	0	Right	0	0.783	0.223	1.259	0.986	0.281		10.0	
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.39	100	0	Right	0	0.760	0.221	1.151	0.875	0.254		10.6	
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	-0.05	3570.00	638000	CP-OFDM	0.0	11.00	10.50	1	1	Right	0	0.676	0.200	1.122	0.758	0.224		11.2	
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	0.09	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.51	1	53	Left	0	0.002	0.000	1.119	0.002	0.000		36.5	
Body	NR Band n48	40	QPSK	3	N6P4D	1:1	0.08	3570.00	638000	DFT-s-OFDM	0.0	11.00	10.46	50	56	Left	0	0.000	0.000	1.132	0.000	0.000		49.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 10-84 Antenna 4b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	-0.09	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.59	1	1	Back	0	0.673	0.209	1.002	0.674	0.209		10.3	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.45	1	1	Back	0	0.691	0.213	1.035	0.715	0.220		10.0	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	-0.02	3679.98	645332	DFT-s-OFDM	0.0	9.60	9.23	1	1	Back	0	0.846	0.263	1.089	0.921	0.286		8.9	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.54	50	56	Back	0	0.626	0.189	1.014	0.635	0.192		10.6	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	0.06	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.37	50	56	Back	0	0.548	0.175	1.054	0.578	0.184		11.0	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	0.05	3679.98	645332	DFT-s-OFDM	0.0	9.60	9.20	50	56	Back	0	0.633	0.203	1.096	0.694	0.222		10.2	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	0.10	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.48	100	0	Back	0	0.610	0.183	1.028	0.627	0.188		10.6	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.59	1	1	Top	0	0.776	0.207	1.002	0.778	0.207		9.7	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.45	1	1	Top	0	0.792	0.211	1.035	0.820	0.218		9.4	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	0.10	3679.98	645332	DFT-s-OFDM	0.0	9.60	9.23	1	1	Top	0	0.848	0.224	1.089	0.923	0.244		8.9	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	-0.09	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.54	50	56	Top	0	0.789	0.210	1.014	0.800	0.213		9.6	8.6
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	9.60	9.37	50	56	Top	0	0.868	0.227	1.054	0.915	0.239		9.0	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	-0.04	3679.98	645332	DFT-s-OFDM	0.0	9.60	9.20	50	56	Top	0	0.904	0.238	1.096	0.991	0.261	A27	8.6	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	0.10	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.48	100	0	Top	0	0.819	0.214	1.028	0.842	0.220		9.3	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	-0.04	3570.00	638000	CP-OFDM	0.0	9.60	9.59	1	1	Top	0	0.784	0.207	1.002	0.786	0.207		9.6	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	0.08	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.59	1	1	Bottom	0	0.003	0.001	1.002	0.003	0.001		33.8	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	0.04	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.54	50	56	Bottom	0	0.001	0.000	1.014	0.001	0.000		38.5	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.59	1	1	Right	0	0.011	0.004	1.002	0.011	0.004		28.2	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	0.08	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.54	50	56	Right	0	0.007	0.002	1.014	0.007	0.002		30.1	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	-0.15	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.59	1	1	Left	0	0.012	0.002	1.002	0.012	0.002		27.8	
Body	NR Band n48	40	QPSK	4b	WFG6R	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	9.60	9.54	50	56	Left	0	0.015	0.003	1.014	0.015	0.003		26.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.28 NR Band n77 DoD Standalone SAR

Table 10-85 Antenna 1

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	1	N6P4D	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	10.50	9.49	1	1	Back	0	0.417	0.141	1.262	0.526	0.178		13.2	
Body	NR Band n77 DoD	100	QPSK	1	N6P4D	1:1	0.08	3500.01	633334	DFT-s-OFDM	0.0	10.50	9.50	135	0	Back	0	0.377	0.127	1.259	0.475	0.160		13.7	
Body	NR Band n77 DoD	100	QPSK	1	N6P4D	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	10.50	9.49	1	1	Top	0	0.005	0.001	1.262	0.006	0.001		32.5	
Body	NR Band n77 DoD	100	QPSK	1	N6P4D	1:1	0.04	3500.01	633334	DFT-s-OFDM	0.0	10.50	9.50	135	0	Top	0	0.005	0.002	1.259	0.006	0.003		32.5	
Body	NR Band n77 DoD	100	QPSK	1	N6P4D	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	10.50	9.49	1	1	Bottom	0	0.170	0.038	1.262	0.215	0.048		17.1	
Body	NR Band n77 DoD	100	QPSK	1	N6P4D	1:1	-0.20	3500.01	633334	DFT-s-OFDM	0.0	10.50	9.50	135	0	Bottom	0	0.147	0.036	1.259	0.185	0.045		17.8	12.9
Body	NR Band n77 DoD	100	QPSK	1	N6P4D	1:1	0.04	3500.01	633334	DFT-s-OFDM	0.0	10.50	9.49	1	1	Right	0	0.002	0.000	1.262	0.003	0.000		36.4	
Body	NR Band n77 DoD	100	QPSK	1	N6P4D	1:1	0.04	3500.01	633334	DFT-s-OFDM	0.0	10.50	9.50	135	0	Right	0	0.004	0.000	1.259	0.005	0.000		33.4	
Body	NR Band n77 DoD	100	QPSK	1	N6P4D	1:1	0.10	3500.01	633334	DFT-s-OFDM	0.0	10.50	9.49	1	1	Left	0	0.450	0.135	1.262	0.568	0.170		12.9	
Body	NR Band n77 DoD	100	QPSK	1	N6P4D	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	10.50	9.50	135	0	Left	0	0.363	0.107	1.259	0.457	0.135		13.9	
Body	NR Band n77 DoD	100	QPSK	1	N6P4D	1:1	0.07	3500.01	633334	CP-OFDM	0.0	10.50	9.43	1	1	Left	0	0.435	0.129	1.279	0.556	0.165		13.0	
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 10-86 Antenna 2b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	2b	W24G3	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	10.50	10.28	1	1	Back	0	0.540	0.160	1.052	0.568	0.168		12.9	
Body	NR Band n77 DoD	100	QPSK	2b	W24G3	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	10.50	10.32	135	0	Back	0	0.528	0.157	1.042	0.550	0.164		13.0	
Body	NR Band n77 DoD	100	QPSK	2b	W24G3	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	10.50	10.27	270	0	Back	0	0.523	0.156	1.054	0.551	0.164		13.0	
Body	NR Band n77 DoD	100	QPSK	2b	W24G3	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	10.50	10.28	1	1	Top	0	0.000	0.000	1.052	0.000	0.000		50.2	
Body	NR Band n77 DoD	100	QPSK	2b	W24G3	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	10.50	10.32	135	0	Top	0	0.000	0.000	1.042	0.000	0.000		50.3	
Body	NR Band n77 DoD	100	QPSK	2b	W24G3	1:1	-0.04	3500.01	633334	DFT-s-OFDM	0.0	10.50	10.28	1	1	Bottom	0	0.659	0.180	1.052	0.693	0.189		12.0	
Body	NR Band n77 DoD	100	QPSK	2b	W24G3	1:1	-0.04	3500.01	633334	DFT-s-OFDM	0.0	10.50	10.32	135	0	Bottom	0	0.709	0.189	1.042	0.739	0.197		11.8	11.3
Body	NR Band n77 DoD	100	QPSK	2b	W24G3	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	10.50	10.27	270	0	Bottom	0	0.696	0.186	1.054	0.734	0.196		11.8	
Body	NR Band n77 DoD	100	QPSK	2b	W24G3	1:1	-0.20	3500.01	633334	CP-OFDM	0.0	10.50	9.90	1	1	Bottom	0	0.719	0.192	1.148	0.825	0.220	A28	11.3	
Body	NR Band n77 DoD	100	QPSK	2b	W24G3	1:1	0.09	3500.01	633334	DFT-s-OFDM	0.0	10.50	10.28	1	1	Right	0	0.012	0.002	1.052	0.013	0.002		29.4	
Body	NR Band n77 DoD	100	QPSK	2b	W24G3	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	10.50	10.32	135	0	Right	0	0.019	0.004	1.042	0.020	0.004		27.5	
Body	NR Band n77 DoD	100	QPSK	2b	W24G3	1:1	0.09	3500.01	633334	DFT-s-OFDM	0.0	10.50	10.28	1	1	Left	0	0.002	0.000	1.052	0.002	0.000		37.2	
Body	NR Band n77 DoD	100	QPSK	2b	W24G3	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	10.50	10.32	135	0	Left	0	0.004	0.000	1.042	0.004	0.000		34.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-87 Antenna 3

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	3	QWMK4	1:1	0.06	3500.01	633334	DFT-s-OFDM	0.0	10.60	9.76	1	1	Back	0	0.345	0.092	1.213	0.418	0.112		13.4	
Body	NR Band n77 DoD	100	QPSK	3	QWMK4	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	10.60	9.75	135	0	Back	0	0.350	0.093	1.216	0.426	0.113		13.3	
Body	NR Band n77 DoD	100	QPSK	3	QWMK4	1:1	-0.05	3500.01	633334	DFT-s-OFDM	0.0	10.60	9.68	270	0	Back	0	0.330	0.090	1.236	0.408	0.111		13.5	
Body	NR Band n77 DoD	100	QPSK	3	QWMK4	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	10.60	9.76	1	1	Top	0	0.491	0.135	1.213	0.596	0.164		11.8	
Body	NR Band n77 DoD	100	QPSK	3	QWMK4	1:1	-0.05	3500.01	633334	DFT-s-OFDM	0.0	10.60	9.75	135	0	Top	0	0.457	0.124	1.216	0.556	0.151		12.1	
Body	NR Band n77 DoD	100	QPSK	3	QWMK4	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	10.60	9.68	270	0	Top	0	0.463	0.122	1.236	0.572	0.151		12.0	
Body	NR Band n77 DoD	100	QPSK	3	QWMK4	1:1	-0.03	3500.01	633334	CP-OFDM	0.0	10.60	9.82	1	1	Top	0	0.471	0.127	1.197	0.564	0.152		12.1	11.8
Body	NR Band n77 DoD	100	QPSK	3	QWMK4	1:1	0.13	3500.01	633334	DFT-s-OFDM	0.0	10.60	9.76	1	1	Bottom	0	0.002	0.000	1.213	0.002	0.000		35.7	
Body	NR Band n77 DoD	100	QPSK	3	QWMK4	1:1	0.08	3500.01	633334	DFT-s-OFDM	0.0	10.60	9.75	135	0	Bottom	0	0.000	0.000	1.216	0.000	0.000		48.7	
Body	NR Band n77 DoD	100	QPSK	3	QWMK4	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	10.60	9.76	1	1	Right	0	0.396	0.120	1.213	0.480	0.146		12.8	
Body	NR Band n77 DoD	100	QPSK	3	QWMK4	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	10.60	9.75	135	0	Right	0	0.367	0.110	1.216	0.446	0.134		13.1	
Body	NR Band n77 DoD	100	QPSK	3	QWMK4	1:1	-0.04	3500.01	633334	DFT-s-OFDM	0.0	10.60	9.68	270	0	Right	0	0.363	0.107	1.236	0.449	0.132		13.1	
Body	NR Band n77 DoD	100	QPSK	3	QWMK4	1:1	0.08	3500.01	633334	DFT-s-OFDM	0.0	10.60	9.76	1	1	Left	0	0.008	0.001	1.213	0.010	0.001		29.7	
Body	NR Band n77 DoD	100	QPSK	3	QWMK4	1:1	0.06	3500.01	633334	DFT-s-OFDM	0.0	10.60	9.75	135	0	Left	0	0.009	0.002	1.216	0.011	0.002		29.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

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Table 10-88 Antenna 4b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	4b	QT49N	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.48	1	137	Back	0	0.519	0.161	1.076	0.558	0.173		11.3	10.4
Body	NR Band n77 DoD	100	QPSK	4b	QT49N	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.43	135	0	Back	0	0.528	0.163	1.089	0.575	0.178		11.2	
Body	NR Band n77 DoD	100	QPSK	4b	QT49N	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.37	270	0	Back	0	0.521	0.161	1.104	0.575	0.178		11.2	
Body	NR Band n77 DoD	100	QPSK	4b	QT49N	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.48	1	137	Top	0	0.609	0.173	1.076	0.655	0.186		10.6	
Body	NR Band n77 DoD	100	QPSK	4b	QT49N	1:1	-0.04	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.43	135	0	Top	0	0.605	0.172	1.089	0.659	0.187		10.6	
Body	NR Band n77 DoD	100	QPSK	4b	QT49N	1:1	-0.02	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.37	270	0	Top	0	0.626	0.179	1.104	0.691	0.198		10.4	
Body	NR Band n77 DoD	100	QPSK	4b	QT49N	1:1	-0.01	3500.01	633334	CP-OFDM	0.0	9.80	9.18	1	1	Top	0	0.599	0.171	1.153	0.691	0.197		10.4	
Body	NR Band n77 DoD	100	QPSK	4b	QT49N	1:1	0.09	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.48	1	137	Bottom	0	0.000	0.000	1.076	0.000	0.000		48.5	
Body	NR Band n77 DoD	100	QPSK	4b	QT49N	1:1	0.06	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.43	135	0	Bottom	0	0.004	0.002	1.089	0.004	0.002		32.4	
Body	NR Band n77 DoD	100	QPSK	4b	QT49N	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.48	1	137	Right	0	0.002	0.000	1.076	0.002	0.000		35.5	
Body	NR Band n77 DoD	100	QPSK	4b	QT49N	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.43	135	0	Right	0	0.006	0.002	1.089	0.007	0.002		30.6	
Body	NR Band n77 DoD	100	QPSK	4b	QT49N	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.48	1	137	Left	0	0.019	0.006	1.076	0.020	0.006		25.7	
Body	NR Band n77 DoD	100	QPSK	4b	QT49N	1:1	0.06	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.43	135	0	Left	0	0.016	0.005	1.089	0.017	0.005		26.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.29 NR Band n77 Standalone SAR

Table 10-89 Antenna 1

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	10.50	9.95	1	1	Back	0	0.496	0.169	1.135	0.563	0.192		12.0	9.5
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.00	1	1	Back	0	0.880	0.292	1.122	0.987	0.328		9.5	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	10.50	9.83	135	0	Back	0	0.514	0.176	1.167	0.600	0.205		11.7	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	-0.08	3930.00	662000	DFT-s-OFDM	0.0	10.50	9.95	135	0	Back	0	0.867	0.293	1.135	0.984	0.333		9.6	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	10.50	9.83	270	0	Back	0	0.700	0.214	1.167	0.817	0.250		10.4	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	0.02	3930.00	662000	CP-OFDM	0.0	10.50	10.00	1	1	Back	0	0.725	0.225	1.122	0.813	0.252		10.4	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.00	1	1	Top	0	0.010	0.002	1.122	0.011	0.002		29.0	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	10.50	9.95	135	0	Top	0	0.006	0.000	1.135	0.007	0.000		31.1	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.00	1	1	Bottom	0	0.282	0.068	1.122	0.316	0.076		14.5	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	10.50	9.95	135	0	Bottom	0	0.298	0.071	1.135	0.338	0.081		14.2	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.00	1	1	Right	0	0.008	0.003	1.122	0.009	0.003		30.0	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	10.50	9.95	135	0	Right	0	0.004	0.000	1.135	0.005	0.000		32.9	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	10.50	9.95	1	1	Left	0	0.667	0.184	1.135	0.757	0.209		10.7	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.00	1	1	Left	0	0.864	0.235	1.122	0.969	0.264		9.6	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	10.50	9.83	135	0	Left	0	0.669	0.184	1.167	0.781	0.215		10.6	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	0.08	3930.00	662000	DFT-s-OFDM	0.0	10.50	9.95	135	0	Left	0	0.814	0.221	1.135	0.924	0.251		9.8	
Body	NR Band n77	100	QPSK	1	N6P4D	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	10.50	9.83	270	0	Left	0	0.805	0.216	1.167	0.939	0.252		9.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-90 Antenna 2b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	10.50	10.34	1	1	Back	0	0.545	0.163	1.038	0.566	0.169		12.9	10.5
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.45	1	1	Back	0	0.820	0.252	1.012	0.830	0.255		11.3	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	10.50	10.31	135	0	Back	0	0.526	0.158	1.045	0.550	0.165		13.1	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.40	135	0	Back	0	0.864	0.269	1.023	0.884	0.275		11.0	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.25	270	0	Back	0	0.815	0.255	1.059	0.863	0.270		11.1	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.45	1	1	Top	0	0.005	0.002	1.012	0.005	0.002		33.4	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	0.09	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.40	135	0	Top	0	0.000	0.000	1.023	0.000	0.000		50.4	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	10.50	10.34	1	1	Bottom	0	0.776	0.204	1.038	0.805	0.212		11.4	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	0.06	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.45	1	1	Bottom	0	0.975	0.256	1.012	0.987	0.259	A29	10.5	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.45	1	1	Bottom	0	0.863	0.232	1.012	0.873	0.235		11.0	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	10.50	10.31	135	0	Bottom	0	0.771	0.203	1.045	0.806	0.212		11.4	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	0.04	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.40	135	0	Bottom	0	0.966	0.254	1.023	0.988	0.260		10.5	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.25	270	0	Bottom	0	0.929	0.244	1.059	0.984	0.258		10.5	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	0.03	3930.00	662000	CP-OFDM	0.0	10.50	10.42	1	1	Bottom	0	0.903	0.239	1.019	0.920	0.244		10.8	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.45	1	1	Right	0	0.036	0.008	1.012	0.036	0.008		24.8	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.40	135	0	Right	0	0.039	0.009	1.023	0.040	0.009		24.4	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.45	1	1	Left	0	0.007	0.002	1.012	0.007	0.002		31.9	
Body	NR Band n77	100	QPSK	2b	W24G3	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	10.50	10.40	135	0	Left	0	0.006	0.000	1.023	0.006	0.000		32.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: Blue entry represents variability measurement

Table 10-91 Antenna 3

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.90	1	271	Back	0	0.363	0.100	1.175	0.427	0.118		13.3	9.8
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.69	1	271	Back	0	0.324	0.103	1.233	0.399	0.127		13.6	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.75	135	69	Back	0	0.344	0.093	1.216	0.418	0.113		13.4	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.72	135	69	Back	0	0.264	0.071	1.225	0.323	0.087		14.5	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.74	270	0	Back	0	0.363	0.097	1.219	0.442	0.118		13.1	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.90	1	271	Top	0	0.293	0.076	1.175	0.344	0.089		14.2	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.75	135	69	Top	0	0.318	0.083	1.216	0.387	0.101		13.7	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	-0.19	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.72	135	69	Top	0	0.325	0.081	1.225	0.398	0.099		13.6	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.74	270	0	Top	0	0.318	0.082	1.219	0.388	0.100		13.7	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	0.07	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.90	1	271	Bottom	0	0.000	0.000	1.175	0.000	0.000		48.9	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.75	135	69	Bottom	0	0.000	0.000	1.216	0.000	0.000		48.7	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.90	1	271	Right	0	0.766	0.208	1.175	0.900	0.244		10.0	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.69	1	271	Right	0	0.693	0.187	1.233	0.854	0.231		10.3	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.75	135	69	Right	0	0.779	0.214	1.216	0.947	0.260		9.8	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	-0.07	3930.00	662000	DFT-s-OFDM	0.0	10.60	9.72	135	69	Right	0	0.695	0.190	1.225	0.851	0.233		10.3	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	0.09	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.74	270	0	Right	0	0.752	0.208	1.219	0.917	0.254		10.0	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	0.02	3750.00	650000	CP-OFDM	0.0	10.60	9.76	1	1	Right	0	0.763	0.215	1.213	0.926	0.261		9.9	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.90	1	271	Left	0	0.001	0.000	1.175	0.001	0.000		38.9	
Body	NR Band n77	100	QPSK	3	WFG6R	1:1	0.07	3750.00	650000	DFT-s-OFDM	0.0	10.60	9.75	135	69	Left	0	0.000	0.000	1.216	0.000	0.000		48.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 10-92 Antenna 4b

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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.35	1	137	Back	0	0.842	0.272	1.109	0.934	0.302		9.1	8.9
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	9.80	9.19	1	137	Back	0	0.771	0.256	1.151	0.887	0.295		9.3	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.35	135	0	Back	0	0.852	0.274	1.109	0.945	0.304		9.0	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	9.80	9.16	135	69	Back	0	0.772	0.257	1.159	0.895	0.298		9.3	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.34	270	0	Back	0	0.851	0.275	1.112	0.946	0.306		9.0	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	-0.02	3930.00	662000	CP-OFDM	0.0	9.80	9.20	1	1	Back	0	0.840	0.274	1.148	0.964	0.315		8.9	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.35	1	137	Top	0	0.765	0.211	1.109	0.848	0.234		9.5	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	9.80	9.19	1	137	Top	0	0.684	0.185	1.151	0.787	0.213		9.8	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.35	135	0	Top	0	0.758	0.210	1.109	0.841	0.233		9.5	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	9.80	9.16	135	69	Top	0	0.688	0.186	1.159	0.797	0.216		9.8	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.34	270	0	Top	0	0.757	0.210	1.112	0.842	0.234		9.5	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.35	1	137	Bottom	0	0.000	0.000	1.109	0.000	0.000		48.3	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.35	135	0	Bottom	0	0.000	0.000	1.109	0.000	0.000		48.3	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.35	1	137	Right	0	0.009	0.001	1.109	0.010	0.001		28.8	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.35	135	0	Right	0	0.005	0.000	1.109	0.006	0.000		31.3	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.35	1	137	Left	0	0.028	0.007	1.109	0.031	0.008		23.9	
Body	NR Band n77	100	QPSK	4b	WFG6R	1:1	-0.14	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.35	135	0	Left	0	0.031	0.008	1.109	0.034	0.009		23.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.30 2.4 GHz WIFI SISO Standalone SAR

Table 10-93 Antenna 2a

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]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	2a	PFJKX	99.7	-0.01	2412	1	1	12.75	12.26	Back	0	V2	1.050	0.425	1.119	1.003	1.178	0.477	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	2a	PFJKX	99.7	0.01	2412	1	1	12.75	12.21	Back	0	V1	1.000	0.407	1.132	1.003	1.135	0.462	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	2a	PFJKX	99.7	0.13	2437	6	1	12.75	12.23	Back	0	V2	0.965	0.391	1.127	1.003	1.091	0.442	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	2a	PFJKX	99.7	0.00	2462	11	1	12.75	12.09	Back	0	V2	0.983	0.395	1.164	1.003	1.148	0.461	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	2a	PFJKX	99.7	0.01	2412	1	1	12.75	12.26	Top	0	V2	0.025	0.009	1.119	1.003	0.028	0.010	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	2a	PFJKX	99.7	0.01	2412	1	1	12.75	12.26	Bottom	0	V2	0.488	0.158	1.119	1.003	0.548	0.177	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	2a	PFJKX	99.7	-0.02	2412	1	1	12.75	12.26	Right	0	V2	0.859	0.317	1.119	1.003	0.964	0.356	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	2a	PFJKX	99.7	0.03	2437	6	1	12.75	12.23	Right	0	V2	0.845	0.306	1.127	1.003	0.955	0.346	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	2a	PFJKX	99.7	-0.02	2462	11	1	12.75	12.09	Right	0	V2	0.870	0.311	1.164	1.003	1.016	0.363	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	2a	PFJKX	99.7	0.04	2412	1	1	12.75	12.26	Left	0	V2	0.000	0.000	1.119	1.003	0.000	0.000	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	2a	PFJKX	99.7	-0.02	2462	11	1	7.25	6.25	Back	0	V2	0.256	0.103	1.259	1.003	0.323	0.130	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	2a	PFJKX	99.7	-0.07	2462	11	1	7.25	6.25	Bottom	0	V2	0.123	0.039	1.259	1.003	0.155	0.049	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	2a	PFJKX	99.7	-0.03	2462	11	1	7.25	6.25	Right	0	V2	0.228	0.081	1.259	1.003	0.288	0.102	
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 10-94 Antenna 4a

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]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	4a	PFJKX	99.7	0.02	2412	1	1	11.50	11.20	Back	0	V2	1.100	0.445	1.072	1.003	1.183	0.478	A30
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	4a	PFJKX	99.7	-0.02	2412	1	1	11.50	11.05	Back	0	V1	0.976	0.403	1.109	1.003	1.086	0.448	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	4a	PFJKX	99.7	0.00	2437	6	1	11.50	10.93	Back	0	V2	0.897	0.364	1.140	1.003	1.026	0.416	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	4a	PFJKX	99.7	0.01	2462	11	1	11.50	11.01	Back	0	V2	1.020	0.413	1.119	1.003	1.145	0.464	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	4a	PFJKX	99.7	0.03	2412	1	1	11.50	11.20	Top	0	V2	0.397	0.128	1.072	1.003	0.427	0.138	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	4a	PFJKX	99.7	-0.04	2412	1	1	11.50	11.20	Bottom	0	V2	0.022	0.008	1.072	1.003	0.024	0.009	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	4a	PFJKX	99.7	0.01	2412	1	1	11.50	11.20	Right	0	V2	0.000	0.000	1.072	1.003	0.000	0.000	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	4a	PFJKX	99.7	0.07	2412	1	1	11.50	11.20	Left	0	V2	0.920	0.329	1.072	1.003	0.989	0.354	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	4a	PFJKX	99.7	-0.01	2437	6	1	11.50	10.93	Left	0	V2	0.826	0.295	1.140	1.003	0.944	0.337	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	4a	PFJKX	99.7	0.01	2462	11	1	11.50	11.01	Left	0	V2	0.861	0.307	1.119	1.003	0.966	0.345	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	4a	PFJKX	99.7	0.05	2462	11	1	6.00	5.06	Back	0	V2	0.239	0.097	1.242	1.003	0.298	0.121	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	4a	PFJKX	99.7	0.02	2462	11	1	6.00	5.06	Top	0	V2	0.093	0.030	1.242	1.003	0.116	0.037	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	4a	PFJKX	99.7	0.10	2462	11	1	6.00	5.06	Left	0	V2	0.204	0.074	1.242	1.003	0.254	0.092	
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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10.31 5 GHz WIFI SISO Standalone SAR

Table 10-95 Antenna WF5B

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	WF5B	QT49N	97.6	0.05	5270	54	U-NII-2A	13.5	17.25	16.42	Back	0	V2	0.147	0.054	1.211	1.024	0.182	0.067	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	WF5B	QT49N	97.6	0.02	5270	54	U-NII-2A	13.5	17.25	16.42	Top	0	V2	0.000	0.000	1.211	1.024	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	WF5B	QT49N	97.6	0.08	5270	54	U-NII-2A	13.5	17.25	16.42	Bottom	0	V2	0.014	0.003	1.211	1.024	0.017	0.004	
Body	5 GHz WIFI/ IEEE 802.11ac	40	OFDM	WF5B	QT49N	97.6	-0.05	5270	54	U-NII-2A	13.5	17.25	16.42	Right	0	V2	0.954	0.295	1.211	1.024	1.183	0.366	
Body	5 GHz WIFI/ IEEE 802.11ac	40	OFDM	WF5B	6KX02	97.6	0.00	5270	54	U-NII-2A	13.5	17.25	16.28	Right	0	V1	0.886	0.292	1.250	1.024	1.134	0.374	
Body	5 GHz WIFI/ IEEE 802.11ac	40	OFDM	WF5B	QT49N	97.6	0.02	5310	62	U-NII-2A	13.5	17.25	16.57	Right	0	V2	0.987	0.311	1.104	1.024	1.181	0.372	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	WF5B	QT49N	97.6	0.03	5270	54	U-NII-2A	13.5	17.25	16.42	Left	0	V2	0.012	0.000	1.211	1.024	0.015	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	WF5B	HV2K9	95.2	0.04	5690	138	U-NII-2C	29.3	17.50	16.44	Back	0	V1	0.120	0.044	1.276	1.050	0.161	0.059	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	WF5B	HV2K9	95.2	0.04	5690	138	U-NII-2C	29.3	17.50	16.44	Top	0	V1	0.000	0.000	1.276	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	WF5B	HV2K9	95.2	0.05	5690	138	U-NII-2C	29.3	17.50	16.44	Bottom	0	V1	0.008	0.001	1.276	1.050	0.011	0.001	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	WF5B	HV2K9	95.2	-0.09	5530	106	U-NII-2C	29.3	14.50	13.04	Right	0	V1	0.476	0.147	1.400	1.050	0.700	0.216	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	WF5B	GX4G2	95.2	-0.04	5610	122	U-NII-2C	29.3	17.50	16.40	Right	0	V2	0.691	0.226	1.288	1.050	0.935	0.306	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	WF5B	HV2K9	95.2	0.00	5610	122	U-NII-2C	29.3	17.50	16.34	Right	0	V1	0.764	0.241	1.306	1.050	1.048	0.330	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	WF5B	HV2K9	95.2	-0.08	5690	138	U-NII-2C	29.3	17.50	16.44	Right	0	V1	0.642	0.201	1.276	1.050	0.860	0.269	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	WF5B	HV2K9	95.2	0.01	5690	138	U-NII-2C	29.3	17.50	16.44	Left	0	V1	0.009	0.002	1.276	1.050	0.012	0.003	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	WF5B	P6MNX	95.2	0.07	5775	155	U-NII-3	29.3	17.25	15.95	Back	0	V2	0.072	0.022	1.349	1.050	0.102	0.031	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	WF5B	P6MNX	95.2	0.06	5775	155	U-NII-3	29.3	17.25	15.95	Top	0	V2	0.000	0.000	1.349	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	WF5B	P6MNX	95.2	0.04	5775	155	U-NII-3	29.3	17.25	15.95	Bottom	0	V2	0.000	0.000	1.349	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	WF5B	P6MNX	95.2	0.02	5775	155	U-NII-3	29.3	17.25	15.95	Right	0	V2	0.731	0.220	1.349	1.050	1.035	0.312	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	WF5B	HV2K9	95.2	-0.14	5775	155	U-NII-3	29.3	17.25	16.08	Right	0	V1	0.630	0.197	1.309	1.050	0.866	0.271	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	WF5B	P6MNX	95.2	0.02	5775	155	U-NII-3	29.3	17.25	15.95	Left	0	V2	0.000	0.000	1.349	1.050	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									

Table 10-96 Antenna 2a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	P6MNX	95.2	0.07	5290	58	U-NII-2A	29.3	8.00	8.00	Back	0	V2	1.130	0.265	1.000	1.050	1.187	0.278	A31
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.07	5290	58	U-NII-2A	29.3	8.00	7.99	Back	0	V1	0.992	0.231	1.002	1.050	1.044	0.243	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	P6MNX	95.2	-0.02	5290	58	U-NII-2A	29.3	8.00	8.00	Back	0	V2	1.120	0.265	1.000	1.050	1.176	0.278	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	P6MNX	95.2	0.04	5290	58	U-NII-2A	29.3	8.00	8.00	Top	0	V2	0.000	0.000	1.000	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	P6MNX	95.2	0.04	5290	58	U-NII-2A	29.3	8.00	8.00	Bottom	0	V2	0.118	0.029	1.000	1.050	0.124	0.030	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	P6MNX	95.2	-0.11	5290	58	U-NII-2A	29.3	8.00	8.00	Right	0	V2	0.211	0.040	1.000	1.050	0.222	0.042	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	P6MNX	95.2	0.07	5290	58	U-NII-2A	29.3	8.00	8.00	Left	0	V2	0.000	0.000	1.000	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	P6MNX	95.2	0.14	5290	58	U-NII-2A	29.3	2.50	2.37	Back	0	V2	0.336	0.071	1.030	1.050	0.363	0.077	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	P6MNX	95.2	0.07	5290	58	U-NII-2A	29.3	2.50	2.37	Bottom	0	V2	0.034	0.003	1.030	1.050	0.037	0.003	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	P6MNX	95.2	0.09	5290	58	U-NII-2A	29.3	2.50	2.37	Right	0	V2	0.096	0.011	1.030	1.050	0.104	0.012	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.06	5530	106	U-NII-2C	29.3	9.25	7.90	Back	0	V1	0.819	0.189	1.365	1.050	1.174	0.271	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	P6MNX	95.2	0.10	5530	106	U-NII-2C	29.3	9.25	7.77	Back	0	V2	0.752	0.172	1.406	1.050	1.110	0.254	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	-0.17	5610	122	U-NII-2C	29.3	9.25	7.70	Back	0	V1	0.660	0.150	1.429	1.050	0.990	0.225	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.15	5690	138	U-NII-2C	29.3	9.25	7.69	Back	0	V1	0.536	0.117	1.432	1.050	0.806	0.176	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.04	5530	106	U-NII-2C	29.3	9.25	7.90	Top	0	V1	0.000	0.000	1.365	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.08	5530	106	U-NII-2C	29.3	9.25	7.90	Bottom	0	V1	0.112	0.033	1.365	1.050	0.161	0.047	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.12	5530	106	U-NII-2C	29.3	9.25	7.90	Right	0	V1	0.208	0.036	1.365	1.050	0.298	0.052	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.01	5530	106	U-NII-2C	29.3	9.25	7.90	Left	0	V1	0.000	0.000	1.365	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	-0.05	5690	138	U-NII-2C	29.3	3.75	2.39	Back	0	V1	0.248	0.053	1.219	1.050	0.356	0.076	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.04	5690	138	U-NII-2C	29.3	3.75	2.39	Bottom	0	V1	0.036	0.006	1.219	1.050	0.052	0.009	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.06	5690	138	U-NII-2C	29.3	3.75	2.39	Right	0	V1	0.041	0.005	1.219	1.050	0.059	0.007	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.01	5775	155	U-NII-3	29.3	9.75	8.30	Back	0	V1	0.802	0.172	1.396	1.050	1.176	0.252	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	P6MNX	95.2	0.12	5775	155	U-NII-3	29.3	9.75	8.20	Back	0	V2	0.773	0.173	1.429	1.050	1.160	0.260	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.00	5775	155	U-NII-3	29.3	9.75	8.30	Top	0	V1	0.000	0.000	1.396	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.04	5775	155	U-NII-3	29.3	9.75	8.30	Bottom	0	V1	0.099	0.030	1.396	1.050	0.145	0.044	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	-0.13	5775	155	U-NII-3	29.3	9.75	8.30	Right	0	V1	0.145	0.027	1.396	1.050	0.213	0.040	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.01	5775	155	U-NII-3	29.3	9.75	8.30	Left	0	V1	0.000	0.000	1.396	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	-0.01	5775	155	U-NII-3	29.3	4.25	3.24	Back	0	V1	0.294	0.064	1.262	1.050	0.390	0.085	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.03	5775	155	U-NII-3	29.3	4.25	3.24	Bottom	0	V1	0.038	0.009	1.262	1.050	0.050	0.012	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	2a	G427X	95.2	0.05	5775	155	U-NII-3	29.3	4.25	3.24	Right	0	V1	0.043	0.004	1.262	1.050	0.057	0.005	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

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Table 10-97 Antenna 4a

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	-0.03	5290	58	U-NII-2A	29.3	8.25	8.15	Back	0	V2	1.080	0.258	1.023	1.050	1.160	0.277	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	2VXRH	95.2	-0.03	5290	58	U-NII-2A	29.3	8.25	8.14	Back	0	V1	1.050	0.255	1.026	1.050	1.131	0.275	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.07	5290	58	U-NII-2A	29.3	8.25	8.15	Top	0	V2	0.115	0.034	1.023	1.050	0.124	0.037	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.09	5290	58	U-NII-2A	29.3	8.25	8.15	Bottom	0	V2	0.000	0.000	1.023	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.07	5290	58	U-NII-2A	29.3	8.25	8.15	Right	0	V2	0.000	0.000	1.023	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.07	5290	58	U-NII-2A	29.3	8.25	8.15	Left	0	V2	0.160	0.034	1.023	1.050	0.172	0.037	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.05	5290	58	U-NII-2A	29.3	2.75	2.00	Back	0	V2	0.303	0.065	1.189	1.050	0.378	0.081	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.06	5290	58	U-NII-2A	29.3	2.75	2.00	Top	0	V2	0.028	0.003	1.189	1.050	0.035	0.004	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.01	5290	58	U-NII-2A	29.3	2.75	2.00	Left	0	V2	0.048	0.009	1.189	1.050	0.060	0.011	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	2VXRH	95.2	-0.05	5530	106	U-NII-2C	29.3	8.50	7.99	Back	0	V1	0.995	0.231	1.125	1.050	1.175	0.273	A32
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	2VXRH	95.2	-0.04	5530	106	U-NII-2C	29.3	8.50	7.99	Back	0	V1	0.994	0.226	1.125	1.050	1.174	0.267	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	2VXRH	95.2	-0.02	5610	122	U-NII-2C	29.3	8.50	7.96	Back	0	V1	0.994	0.233	1.132	1.050	1.181	0.277	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.01	5610	122	U-NII-2C	29.3	8.50	7.95	Back	0	V2	0.951	0.227	1.135	1.050	1.133	0.271	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	2VXRH	95.2	0.02	5690	138	U-NII-2C	29.3	8.50	8.02	Back	0	V1	0.901	0.209	1.117	1.050	1.057	0.245	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	2VXRH	95.2	0.03	5690	138	U-NII-2C	29.3	8.50	8.02	Top	0	V1	0.162	0.044	1.117	1.050	0.190	0.052	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	2VXRH	95.2	0.01	5690	138	U-NII-2C	29.3	8.50	8.02	Bottom	0	V1	0.000	0.000	1.117	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	2VXRH	95.2	0.05	5690	138	U-NII-2C	29.3	8.50	8.02	Right	0	V1	0.000	0.000	1.117	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	2VXRH	95.2	-0.20	5690	138	U-NII-2C	29.3	8.50	8.02	Left	0	V1	0.175	0.033	1.117	1.050	0.205	0.039	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	2VXRH	95.2	-0.04	5690	138	U-NII-2C	29.3	3.00	1.88	Back	0	V1	0.167	0.034	1.294	1.050	0.227	0.046	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	2VXRH	95.2	0.07	5690	138	U-NII-2C	29.3	3.00	1.88	Top	0	V1	0.019	0.002	1.294	1.050	0.026	0.003	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	2VXRH	95.2	0.01	5690	138	U-NII-2C	29.3	3.00	1.88	Left	0	V1	0.022	0.002	1.294	1.050	0.030	0.003	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	2VXRH	95.2	0.07	5775	155	U-NII-3	29.3	9.00	8.74	Back	0	V1	1.010	0.239	1.062	1.050	1.126	0.267	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.09	5775	155	U-NII-3	29.3	9.00	8.70	Back	0	V2	1.050	0.244	1.072	1.050	1.182	0.275	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	-0.11	5775	155	U-NII-3	29.3	9.00	8.70	Top	0	V2	0.166	0.045	1.072	1.050	0.187	0.051	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.02	5775	155	U-NII-3	29.3	9.00	8.70	Bottom	0	V2	0.000	0.000	1.072	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.05	5775	155	U-NII-3	29.3	9.00	8.70	Right	0	V2	0.000	0.000	1.072	1.050	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.17	5775	155	U-NII-3	29.3	9.00	8.70	Left	0	V2	0.160	0.029	1.072	1.050	0.180	0.033	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.20	5775	155	U-NII-3	29.3	3.50	2.23	Back	0	V2	0.212	0.045	1.340	1.050	0.298	0.063	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.01	5775	155	U-NII-3	29.3	3.50	2.23	Top	0	V2	0.018	0.001	1.340	1.050	0.025	0.001	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	4a	7XTY0	95.2	0.07	5775	155	U-NII-3	29.3	3.50	2.23	Left	0	V2	0.016	0.000	1.340	1.050	0.023	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									

Note: Blue entry represents variability measurement

10.32 6 GHz WIFI SISO Standalone SAR

Table 10-98 Antenna WF5B

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]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.16	6345	79	68.1	16.00	15.64	Back	0	V2	0.141	0.051	1.086	1.023	0.157	0.057	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.03	6345	79	68.1	16.00	15.64	Top	0	V2	0.000	0.000	1.086	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.07	6345	79	68.1	16.00	15.64	Bottom	0	V2	0.047	0.014	1.086	1.023	0.052	0.016	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	-0.09	6025	15	68.1	15.25	15.15	Right	0	V2	0.863	0.267	1.023	1.023	0.903	0.279	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.06	6345	79	68.1	16.00	15.64	Right	0	V2	0.954	0.297	1.086	1.023	1.060	0.330	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	9LJ7L	97.7	-0.16	6345	79	68.1	16.00	15.68	Right	0	V1	1.030	0.332	1.076	1.023	1.134	0.365	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.00	6505	111	68.1	12.75	11.79	Right	0	V2	0.503	0.155	1.247	1.023	0.642	0.198	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.02	6665	143	68.1	14.00	12.06	Right	0	V2	0.637	0.201	1.563	1.023	1.019	0.321	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.04	6985	207	68.1	13.25	12.51	Right	0	V2	0.693	0.214	1.186	1.023	0.841	0.260	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.04	6345	79	68.1	16.00	15.64	Left	0	V2	0.007	0.002	1.086	1.023	0.008	0.002	
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 10-99 Antenna 2a

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]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.06	6025	15	68.1	10.25	10.22	Back	0	V2	1.140	0.278	1.007	1.023	1.174	0.286	A33
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.02	6025	15	68.1	10.25	10.22	Back	0	V2	1.110	0.268	1.007	1.023	1.143	0.276	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	-0.02	6345	79	68.1	10.00	8.01	Back	0	V2	0.674	0.172	1.581	1.023	1.090	0.278	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	-0.03	6505	111	68.1	10.25	10.06	Back	0	V2	1.070	0.268	1.045	1.023	1.144	0.287	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.06	6665	143	68.1	10.75	8.80	Back	0	V2	0.735	0.182	1.567	1.023	1.178	0.292	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	G427X	97.7	0.04	6665	143	68.1	10.75	8.92	Back	0	V1	0.754	0.183	1.524	1.023	1.176	0.285	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.04	6985	207	68.1	9.75	8.52	Back	0	V2	0.858	0.219	1.327	1.023	1.165	0.297	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	G427X	97.7	0.03	6985	207	68.1	9.75	8.43	Back	0	V1	0.843	0.217	1.355	1.023	1.169	0.301	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.01	6665	143	68.1	10.75	8.80	Top	0	V2	0.000	0.000	1.567	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	-0.20	6665	143	68.1	10.75	8.80	Bottom	0	V2	0.107	0.031	1.567	1.023	0.172	0.050	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.02	6665	143	68.1	10.75	8.80	Right	0	V2	0.079	0.016	1.567	1.023	0.127	0.026	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.04	6665	143	68.1	10.75	8.80	Left	0	V2	0.000	0.000	1.567	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	-0.02	6665	143	68.1	5.25	4.19	Back	0	V2	0.174	0.041	1.276	1.023	0.227	0.054	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.01	6665	143	68.1	5.25	4.19	Bottom	0	V2	0.026	0.008	1.276	1.023	0.034	0.010	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.01	6665	143	68.1	5.25	4.19	Right	0	V2	0.019	0.003	1.276	1.023	0.025	0.004	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: Blue entry represents variability measurement

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Table 10-100 Antenna 4a

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]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	-0.01	6025	15	68.1	8.25	6.37	Back	0	V2	0.720	0.179	1.542	1.023	1.136	0.282	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	-0.06	6345	79	68.1	9.75	8.58	Back	0	V2	0.866	0.226	1.309	1.023	1.160	0.303	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	-0.01	6505	111	68.1	9.50	8.67	Back	0	V2	0.925	0.249	1.211	1.023	1.146	0.308	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	0.05	6665	143	68.1	8.75	6.76	Back	0	V2	0.719	0.195	1.581	1.023	1.163	0.315	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	022ML	97.7	-0.06	6665	143	68.1	8.75	7.25	Back	0	V1	0.791	0.220	1.413	1.023	1.143	0.318	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	-0.16	6985	207	68.1	8.50	7.95	Back	0	V2	0.991	0.270	1.135	1.023	1.151	0.313	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	-0.04	6345	79	68.1	9.75	8.58	Top	0	V2	0.142	0.046	1.309	1.023	0.190	0.062	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	0.01	6345	79	68.1	9.75	8.58	Bottom	0	V2	0.004	0.001	1.309	1.023	0.005	0.001	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	0.07	6345	79	68.1	9.75	8.58	Right	0	V2	0.000	0.000	1.309	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	-0.08	6345	79	68.1	9.75	8.58	Left	0	V2	0.154	0.037	1.309	1.023	0.206	0.050	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	0.03	6345	79	68.1	4.25	3.17	Back	0	V2	0.187	0.049	1.282	1.023	0.245	0.064	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	0.04	6345	79	68.1	4.25	3.17	Top	0	V2	0.025	0.007	1.282	1.023	0.033	0.009	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	0.03	6345	79	68.1	4.25	3.17	Left	0	V2	0.035	0.007	1.282	1.023	0.046	0.009	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

10.33 6 GHz WIFI Body Absorbed Power Density Data

Table 10-101 Antenna WF5B APD

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]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.16	6345	79	68.1	16.00	15.64	Back	0	V2	1.14	1.086	1.023	1.27	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.03	6345	79	68.1	16.00	15.64	Top	0	V2	0.00	1.086	1.023	0.00	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.07	6345	79	68.1	16.00	15.64	Bottom	0	V2	0.33	1.086	1.023	0.37	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	-0.09	6025	15	68.1	15.25	15.15	Right	0	V2	6.10	1.023	1.023	6.38	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.06	6345	79	68.1	16.00	15.64	Right	0	V2	6.80	1.086	1.023	7.56	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	9LJ7L	97.7	-0.16	6345	79	68.1	16.00	15.68	Right	0	V1	7.57	1.076	1.023	8.33	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.00	6505	111	68.1	12.75	11.79	Right	0	V2	3.54	1.247	1.023	4.52	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.02	6665	143	68.1	14.00	12.06	Right	0	V2	4.60	1.563	1.023	7.36	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.04	6985	207	68.1	13.25	12.51	Right	0	V2	4.88	1.186	1.023	5.92	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	WF5B	TR6RF	97.7	0.04	6345	79	68.1	16.00	15.64	Left	0	V2	0.05	1.086	1.023	0.06	

Table 10-102 Antenna 2a APD

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]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.06	6025	15	68.1	10.25	10.22	Back	0	V2	6.57	1.007	1.023	6.77	A33
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.02	6025	15	68.1	10.25	10.22	Back	0	V2	6.35	1.007	1.023	6.54	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	-0.02	6345	79	68.1	10.00	8.01	Back	0	V2	4.05	1.581	1.023	6.55	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	-0.03	6505	111	68.1	10.25	10.06	Back	0	V2	6.35	1.045	1.023	6.79	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.06	6665	143	68.1	10.75	8.80	Back	0	V2	4.31	1.567	1.023	6.91	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	G427X	97.7	0.04	6665	143	68.1	10.75	8.92	Back	0	V1	4.32	1.524	1.023	6.74	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.04	6985	207	68.1	9.75	8.52	Back	0	V2	5.15	1.327	1.023	6.99	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	G427X	97.7	0.03	6985	207	68.1	9.75	8.43	Back	0	V1	5.12	1.355	1.023	7.10	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.01	6665	143	68.1	10.75	8.80	Top	0	V2	0.00	1.567	1.023	0.01	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	-0.20	6665	143	68.1	10.75	8.80	Bottom	0	V2	0.71	1.567	1.023	1.14	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.02	6665	143	68.1	10.75	8.80	Right	0	V2	0.39	1.567	1.023	0.63	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.04	6665	143	68.1	10.75	8.80	Left	0	V2	0.00	1.567	1.023	0.00	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	-0.02	6665	143	68.1	5.25	4.19	Back	0	V2	0.98	1.276	1.023	1.28	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.01	6665	143	68.1	5.25	4.19	Bottom	0	V2	0.18	1.276	1.023	0.23	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	2a	TR6RF	97.7	0.01	6665	143	68.1	5.25	4.19	Right	0	V2	0.08	1.276	1.023	0.10	

Note: Blue entry represents variability measurement

Table 10-103 Antenna 4a APD

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]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	-0.01	6025	15	68.1	8.25	6.37	Back	0	V2	4.23	1.542	1.023	6.67	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	-0.06	6345	79	68.1	9.75	8.58	Back	0	V2	5.30	1.309	1.023	7.10	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	-0.01	6505	111	68.1	9.50	8.67	Back	0	V2	5.86	1.211	1.023	7.26	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	0.05	6665	143	68.1	8.75	6.76	Back	0	V2	4.58	1.581	1.023	7.41	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	022ML	97.7	-0.06	6665	143	68.1	8.75	7.25	Back	0	V1	5.15	1.413	1.023	7.44	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	-0.16	6985	207	68.1	8.50	7.95	Back	0	V2	6.35	1.135	1.023	7.37	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	-0.04	6345	79	68.1	9.75	8.58	Top	0	V2	1.04	1.309	1.023	1.39	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	0.01	6345	79	68.1	9.75	8.58	Bottom	0	V2	0.03	1.309	1.023	0.04	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	0.07	6345	79	68.1	9.75	8.58	Right	0	V2	0.00	1.309	1.023	0.00	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	-0.08	6345	79	68.1	9.75	8.58	Left	0	V2	0.87	1.309	1.023	1.16	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	0.03	6345	79	68.1	4.25	3.17	Back	0	V2	1.16	1.282	1.023	1.52	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	0.04	6345	79	68.1	4.25	3.17	Top	0	V2	0.17	1.282	1.023	0.22	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	4a	7XTY0	97.7	0.03	6345	79	68.1	4.25	3.17	Left	0	V2	0.17	1.282	1.023	0.22	

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10.34 2.4 GHz Bluetooth SISO Standalone SAR

Table 10-104 Antenna 2a

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]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	0.00	2402	0	1	13.50	13.34	Back	0	V2	0.963	0.388	1.038	1.006	1.006	0.405	A34
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	0.00	2441	39	1	13.50	12.86	Back	0	V2	0.906	0.368	1.159	1.006	1.057	0.429	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	0.03	2480	78	1	13.50	12.80	Back	0	V2	0.942	0.375	1.175	1.006	1.114	0.443	
Body	2.4 GHz Bluetooth	FHSS	2a	2VXRH	77.0	0.04	2480	78	1	13.50	12.63	Back	0	V1	0.873	0.351	1.222	1.006	1.074	0.432	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	-0.02	2402	0	1	13.50	13.34	Top	0	V2	0.026	0.009	1.038	1.006	0.027	0.009	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	-0.08	2402	0	1	13.50	13.34	Bottom	0	V2	0.374	0.121	1.038	1.006	0.391	0.126	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	0.06	2402	0	1	13.50	13.34	Right	0	V2	0.853	0.309	1.038	1.006	0.891	0.323	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	-0.01	2441	39	1	13.50	12.86	Right	0	V2	0.886	0.318	1.159	1.006	1.034	0.371	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	0.00	2480	78	1	13.50	12.80	Right	0	V2	0.731	0.261	1.175	1.006	0.865	0.309	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	0.03	2402	0	1	13.50	13.34	Left	0	V2	0.000	0.000	1.038	1.006	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	-0.17	2441	39	1	10.50	8.52	Back	0	V2	0.306	0.122	1.578	1.006	0.486	0.194	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	0.00	2441	39	1	10.50	8.52	Bottom	0	V2	0.118	0.038	1.578	1.006	0.187	0.060	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	0.02	2441	39	1	10.50	8.52	Right	0	V2	0.268	0.097	1.578	1.006	0.426	0.154	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	0.08	2441	39	1	7.50	6.69	Back	0	V2	0.178	0.068	1.205	1.006	0.216	0.082	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	-0.11	2441	39	1	7.50	6.69	Bottom	0	V2	0.065	0.020	1.205	1.006	0.079	0.024	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	0.00	2441	39	1	7.50	6.69	Right	0	V2	0.164	0.054	1.205	1.006	0.199	0.065	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	0.05	2441	39	1	6.50	5.85	Back	0	V2	0.077	0.031	1.161	1.006	0.090	0.036	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	0.01	2441	39	1	6.50	5.85	Bottom	0	V2	0.035	0.010	1.161	1.006	0.041	0.012	
Body	2.4 GHz Bluetooth	FHSS	2a	PFJKX	77.0	0.04	2441	39	1	6.50	5.85	Right	0	V2	0.069	0.024	1.161	1.006	0.081	0.028	
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: The reported SAR was scales to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 10-105 Antenna 4a

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]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	4a	QWMK4	77.0	0.00	2402	0	1	12.50	10.63	Back	0	V1	0.761	0.312	1.538	1.006	1.178	0.483	
Body	2.4 GHz Bluetooth	FHSS	4a	PFJKX	77.0	-0.01	2402	0	1	12.50	10.55	Back	0	V2	0.750	0.306	1.567	1.006	1.183	0.483	
Body	2.4 GHz Bluetooth	FHSS	4a	QWMK4	77.0	0.01	2441	39	1	12.50	11.36	Back	0	V1	0.800	0.325	1.300	1.006	1.047	0.425	
Body	2.4 GHz Bluetooth	FHSS	4a	QWMK4	77.0	0.05	2480	78	1	12.50	10.98	Back	0	V1	0.759	0.307	1.419	1.006	1.084	0.438	
Body	2.4 GHz Bluetooth	FHSS	4a	QWMK4	77.0	-0.02	2441	39	1	12.50	11.36	Top	0	V1	0.293	0.094	1.300	1.006	0.383	0.123	
Body	2.4 GHz Bluetooth	FHSS	4a	QWMK4	77.0	0.07	2441	39	1	12.50	11.36	Bottom	0	V1	0.018	0.006	1.300	1.006	0.024	0.008	
Body	2.4 GHz Bluetooth	FHSS	4a	QWMK4	77.0	0.01	2441	39	1	12.50	11.36	Right	0	V1	0.000	0.000	1.300	1.006	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	4a	QWMK4	77.0	-0.01	2402	0	1	12.50	10.63	Left	0	V1	0.594	0.217	1.538	1.006	0.920	0.336	
Body	2.4 GHz Bluetooth	FHSS	4a	QWMK4	77.0	-0.01	2441	39	1	12.50	11.36	Left	0	V1	0.662	0.238	1.300	1.006	0.866	0.311	
Body	2.4 GHz Bluetooth	FHSS	4a	QWMK4	77.0	-0.03	2480	78	1	12.50	10.98	Left	0	V1	0.577	0.209	1.419	1.006	0.824	0.298	
Body	2.4 GHz Bluetooth	FHSS	4a	PFJKX	77.0	-0.02	2480	78	1	9.50	7.56	Back	0	V2	0.270	0.111	1.563	1.006	0.425	0.175	
Body	2.4 GHz Bluetooth	FHSS	4a	PFJKX	77.0	-0.02	2480	78	1	9.50	7.56	Top	0	V2	0.135	0.043	1.563	1.006	0.212	0.068	
Body	2.4 GHz Bluetooth	FHSS	4a	PFJKX	77.0	0.03	2480	78	1	9.50	7.56	Left	0	V2	0.233	0.084	1.563	1.006	0.367	0.132	
Body	2.4 GHz Bluetooth	FHSS	4a	PFJKX	77.0	-0.10	2480	78	1	6.50	5.11	Back	0	V2	0.147	0.055	1.377	1.006	0.204	0.076	
Body	2.4 GHz Bluetooth	FHSS	4a	PFJKX	77.0	-0.01	2480	78	1	6.50	5.11	Top	0	V2	0.067	0.020	1.377	1.006	0.093	0.028	
Body	2.4 GHz Bluetooth	FHSS	4a	PFJKX	77.0	0.05	2480	78	1	6.50	5.11	Left	0	V2	0.130	0.043	1.377	1.006	0.180	0.060	
Body	2.4 GHz Bluetooth	FHSS	4a	PFJKX	77.0	0.07	2480	78	1	5.50	3.91	Back	0	V2	0.130	0.049	1.442	1.006	0.189	0.071	
Body	2.4 GHz Bluetooth	FHSS	4a	PFJKX	77.0	-0.07	2480	78	1	5.50	3.91	Top	0	V2	0.061	0.018	1.442	1.006	0.089	0.026	
Body	2.4 GHz Bluetooth	FHSS	4a	PFJKX	77.0	0.06	2480	78	1	5.50	3.91	Left	0	V2	0.114	0.038	1.442	1.006	0.165	0.055	
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: The reported SAR was scales to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

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10.35 802.15.4 SISO Standalone SAR

Table 10-106 Antenna 2a

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	802.15.4	2a	2VXRH	0.08	2405	11	13.50	12.76	Back	0	V1	1.320	0.495	1.186	0.939	0.352	
Body	802.15.4	2a	2VXRH	0.02	2440	18	13.50	12.64	Back	0	V1	1.040	0.423	1.219	0.761	0.309	
Body	802.15.4	2a	2VXRH	0.06	2475	25	13.50	12.05	Back	0	V1	1.410	0.570	1.396	1.181	0.477	A35
Body	802.15.4	2a	PFJKX	0.02	2475	25	13.50	12.19	Back	0	V2	1.240	0.497	1.352	1.006	0.403	
Body	802.15.4	2a	2VXRH	-0.01	2475	25	13.50	12.05	Back	0	V1	1.280	0.485	1.396	1.072	0.406	
Body	802.15.4	2a	2VXRH	-0.10	2405	11	13.50	12.76	Top	0	V1	0.041	0.015	1.186	0.029	0.011	
Body	802.15.4	2a	2VXRH	-0.01	2405	11	13.50	12.76	Bottom	0	V1	0.474	0.148	1.186	0.337	0.105	
Body	802.15.4	2a	2VXRH	-0.01	2405	11	13.50	12.76	Right	0	V1	1.230	0.407	1.186	0.875	0.290	
Body	802.15.4	2a	2VXRH	0.03	2440	18	13.50	12.64	Right	0	V1	0.713	0.240	1.219	0.521	0.176	
Body	802.15.4	2a	2VXRH	0.00	2475	25	13.50	12.05	Right	0	V1	1.190	0.390	1.396	0.997	0.327	
Body	802.15.4	2a	2VXRH	0.03	2405	11	13.50	12.76	Left	0	V1	0.001	0.000	1.186	0.001	0.000	
Body	802.15.4	2a	2VXRH	-0.03	2440	18	10.50	10.27	Back	0	V1	0.491	0.191	1.054	0.311	0.121	
Body	802.15.4	2a	2VXRH	0.02	2440	18	10.50	10.27	Bottom	0	V1	0.219	0.069	1.054	0.138	0.044	
Body	802.15.4	2a	2VXRH	-0.02	2440	18	10.50	10.27	Right	0	V1	0.440	0.152	1.054	0.278	0.096	
Body	802.15.4	2a	2VXRH	0.03	2405	11	7.50	6.43	Back	0	V1	0.244	0.093	1.279	0.187	0.071	
Body	802.15.4	2a	2VXRH	-0.07	2405	11	7.50	6.43	Bottom	0	V1	0.095	0.029	1.279	0.073	0.022	
Body	802.15.4	2a	2VXRH	0.01	2405	11	7.50	6.43	Right	0	V1	0.196	0.067	1.279	0.150	0.051	
Body	802.15.4	2a	2VXRH	0.04	2440	18	6.50	5.31	Back	0	V1	0.193	0.073	1.315	0.152	0.058	
Body	802.15.4	2a	2VXRH	0.03	2440	18	6.50	5.31	Bottom	0	V1	0.090	0.028	1.315	0.071	0.022	
Body	802.15.4	2a	2VXRH	-0.01	2440	18	6.50	5.31	Right	0	V1	0.174	0.058	1.315	0.137	0.046	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: Blue entry represents variability measurement

Note: The manufacturer declared that the maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at a higher duty cycle of 100% and scaled down to 60%.

Table 10-107 Antenna 4a

Exposure	Band / Mode	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	802.15.4	4a	QWMK4	0.01	2405	11	13.00	12.08	Back	0	V1	1.320	0.543	1.236	0.979	0.403	
Body	802.15.4	4a	QWMK4	0.02	2440	18	13.00	11.13	Back	0	V1	1.240	0.500	1.538	1.144	0.461	
Body	802.15.4	4a	27K9T	0.00	2440	18	13.00	11.71	Back	0	V2	1.180	0.484	1.346	0.953	0.391	
Body	802.15.4	4a	QWMK4	0.00	2475	25	13.00	11.70	Back	0	V1	1.310	0.532	1.349	1.060	0.431	
Body	802.15.4	4a	QWMK4	0.03	2405	11	13.00	12.08	Top	0	V1	0.462	0.149	1.236	0.343	0.110	
Body	802.15.4	4a	QWMK4	0.10	2405	11	13.00	12.08	Bottom	0	V1	0.035	0.012	1.236	0.026	0.009	
Body	802.15.4	4a	QWMK4	0.07	2405	11	13.00	12.08	Right	0	V1	0.000	0.000	1.236	0.000	0.000	
Body	802.15.4	4a	QWMK4	0.09	2405	11	13.00	12.08	Left	0	V1	0.723	0.241	1.236	0.536	0.179	
Body	802.15.4	4a	QWMK4	0.01	2440	18	10.00	8.29	Back	0	V1	0.529	0.208	1.483	0.471	0.185	
Body	802.15.4	4a	QWMK4	-0.02	2440	18	10.00	8.29	Top	0	V1	0.195	0.063	1.483	0.174	0.056	
Body	802.15.4	4a	QWMK4	0.00	2440	18	10.00	8.29	Left	0	V1	0.433	0.148	1.483	0.385	0.132	
Body	802.15.4	4a	QWMK4	-0.01	2440	18	7.00	5.67	Back	0	V1	0.197	0.079	1.358	0.161	0.064	
Body	802.15.4	4a	QWMK4	-0.08	2440	18	7.00	5.67	Top	0	V1	0.086	0.027	1.358	0.070	0.022	
Body	802.15.4	4a	QWMK4	0.05	2440	18	7.00	5.67	Left	0	V1	0.157	0.057	1.358	0.128	0.046	
Body	802.15.4	4a	QWMK4	0.01	2440	18	6.00	5.38	Back	0	V1	0.181	0.069	1.153	0.125	0.048	
Body	802.15.4	4a	QWMK4	-0.05	2440	18	6.00	5.38	Top	0	V1	0.072	0.022	1.153	0.050	0.015	
Body	802.15.4	4a	QWMK4	0.00	2440	18	6.00	5.38	Left	0	V1	0.151	0.050	1.153	0.104	0.035	
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: The manufacturer declared that the maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at a higher duty cycle of 100% and scaled down to 60%.

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10.36 NB UNII Standalone SAR

Table 10-108 NB UNII 1 Antenna WF5B

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]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	WF5B	HV2K9	76.5	0.01	5162	Low	4	12.50	11.32	Back	0	V1	0.029	0.005	1.312	0.039	0.007	
Body	NB U-NII 1	FHSS	WF5B	HV2K9	76.5	0.05	5162	Low	4	12.50	11.32	Top	0	V1	0.000	0.000	1.312	0.000	0.000	
Body	NB U-NII 1	FHSS	WF5B	HV2K9	76.5	0.01	5162	Low	4	12.50	11.32	Bottom	0	V1	0.000	0.000	1.312	0.000	0.000	
Body	NB U-NII 1	FHSS	WF5B	P6MNX	76.5	0.11	5245	High	4	12.50	11.54	Right	0	V2	0.208	0.067	1.247	0.263	0.085	
Body	NB U-NII 1	FHSS	WF5B	HV2K9	76.5	0.05	5245	High	4	12.50	11.10	Right	0	V1	0.208	0.063	1.380	0.291	0.088	
Body	NB U-NII 1	FHSS	WF5B	HV2K9	76.5	0.01	5162	Low	4	12.50	11.32	Right	0	V1	0.166	0.051	1.312	0.221	0.068	
Body	NB U-NII 1	FHSS	WF5B	HV2K9	76.5	0.14	5204	Mid	4	12.50	11.23	Right	0	V1	0.203	0.062	1.340	0.276	0.084	
Body	NB U-NII 1	FHSS	WF5B	HV2K9	76.5	0.01	5162	Low	4	12.50	11.32	Left	0	V1	0.000	0.000	1.312	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								

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 10-109 NB UNII 1 Antenna 2a

Exposure	Band / Mode	#VALUE!	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	0.07	5245	High	9.00	8.93	Back	0	V2	0.966	1.016	0.988	0.988	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	0.07	5162	Low	9.00	8.47	Back	0	V2	1.030	1.130	1.171	1.171	
Body	NB U-NII 1	FHSS	2a	K4GL6	77.0	0.04	5162	Low	9.00	8.75	Back	0	V1	0.992	1.059	1.057	1.057	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	0.04	5204	Mid	9.00	8.65	Back	0	V2	0.927	1.084	1.011	1.011	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	0.01	5245	High	9.00	8.93	Top	0	V2	0.000	1.016	0.000	0.000	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	-0.21	5245	High	9.00	8.93	Bottom	0	V2	0.130	1.016	0.133	0.133	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	0.03	5245	High	9.00	8.93	Right	0	V2	0.361	1.016	0.369	0.369	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	0.05	5245	High	9.00	8.93	Left	0	V2	0.000	1.016	0.000	0.000	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	0.06	5245	High	6.00	5.52	Back	0	V2	0.470	1.117	0.528	0.528	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	0.05	5245	High	6.00	5.52	Bottom	0	V2	0.039	1.117	0.044	0.044	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	0.05	5245	High	6.00	5.52	Right	0	V2	0.192	1.117	0.216	0.216	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	0.10	5245	High	3.00	2.48	Back	0	V2	0.225	1.127	0.255	0.255	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	-0.06	5245	High	3.00	2.48	Bottom	0	V2	0.021	1.127	0.024	0.024	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	0.07	5245	High	3.00	2.48	Right	0	V2	0.084	1.127	0.095	0.095	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	0.07	5162	Low	2.00	1.45	Back	0	V2	0.187	1.135	0.214	0.214	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	0.07	5162	Low	2.00	1.45	Bottom	0	V2	0.019	1.135	0.022	0.022	
Body	NB U-NII 1	FHSS	2a	P6MNX	77.0	-0.13	5162	Low	2.00	1.45	Right	0	V2	0.072	1.135	0.082	0.082	
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: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 10-110 NB UNII 1 Antenna 4a

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]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	-0.11	5245	High	1	9.50	9.10	Back	0	V2	1.050	0.259	1.096	1.160	0.286	
Body	NB U-NII 1	FHSS	4a	QWMK4	76.9	-0.01	5245	High	1	9.50	9.09	Back	0	V1	0.953	0.235	1.099	1.056	0.260	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	0.16	5162	Low	1	9.50	9.06	Back	0	V2	0.937	0.231	1.107	1.045	0.258	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	-0.02	5204	Mid	1	9.50	9.01	Back	0	V2	0.958	0.237	1.119	1.080	0.267	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	-0.01	5245	High	1	9.50	9.10	Top	0	V2	0.121	0.038	1.096	0.134	0.042	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	0.03	5245	High	1	9.50	9.10	Bottom	0	V2	0.000	0.000	1.096	0.000	0.000	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	0.01	5245	High	1	9.50	9.10	Right	0	V2	0.000	0.000	1.096	0.000	0.000	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	0.15	5245	High	1	9.50	9.10	Left	0	V2	0.185	0.039	1.096	0.204	0.043	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	-0.02	5245	High	1	6.50	5.73	Back	0	V2	0.451	0.108	1.194	0.543	0.130	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	0.05	5245	High	1	6.50	5.73	Top	0	V2	0.050	0.013	1.194	0.060	0.016	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	0.06	5245	High	1	6.50	5.73	Left	0	V2	0.077	0.015	1.194	0.093	0.018	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	-0.02	5245	High	1	3.50	2.72	Back	0	V2	0.264	0.064	1.197	0.318	0.077	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	0.07	5245	High	1	3.50	2.72	Top	0	V2	0.026	0.008	1.197	0.031	0.010	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	0.06	5245	High	1	3.50	2.72	Left	0	V2	0.030	0.004	1.197	0.036	0.005	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	0.02	5245	High	1	2.50	1.73	Back	0	V2	0.209	0.051	1.194	0.251	0.061	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	0.08	5245	High	1	2.50	1.73	Top	0	V2	0.013	0.002	1.194	0.016	0.002	
Body	NB U-NII 1	FHSS	4a	7H2P6	76.9	0.20	5245	High	1	2.50	1.73	Left	0	V2	0.024	0.003	1.194	0.029	0.004	
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: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

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Table 10-111 NB UNII 3 Antenna WF5B

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]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 3	FHSS	WF5B	P6MNX	77.0	0.09	5789	Mid	1	13.50	12.85	Back	0	V2	0.014	0.000	1.161	0.016	0.000	
Body	NB U-NII 3	FHSS	WF5B	P6MNX	77.0	0.04	5789	Mid	1	13.50	12.85	Top	0	V2	0.000	0.000	1.161	0.000	0.000	
Body	NB U-NII 3	FHSS	WF5B	P6MNX	77.0	0.05	5789	Mid	1	13.50	12.85	Bottom	0	V2	0.000	0.000	1.161	0.000	0.000	
Body	NB U-NII 3	FHSS	WF5B	P6MNX	77.0	-0.08	5789	Mid	1	13.50	12.85	Right	0	V2	0.229	0.068	1.161	0.268	0.079	
Body	NB U-NII 3	FHSS	WF5B	HV2K9	77.0	0.09	5789	Mid	1	13.50	12.53	Right	0	V1	0.243	0.066	1.250	0.306	0.083	
Body	NB U-NII 3	FHSS	WF5B	P6MNX	77.0	0.01	5789	Mid	1	13.50	12.85	Left	0	V2	0.000	0.000	1.161	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								

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 10-112 NB UNII 3 Antenna 2a

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]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	-0.04	5844	High	1	10.50	9.10	Back	0	V1	0.828	0.184	1.380	1.150	0.256	
Body	NB U-NII 3	FHSS	2a	9FTHC	77.0	0.11	5844	High	1	10.50	9.03	Back	0	V2	0.779	0.170	1.403	1.100	0.240	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	0.11	5733	Low	1	10.50	8.85	Back	0	V1	0.727	0.154	1.462	1.070	0.227	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	0.14	5789	Mid	1	10.50	9.23	Back	0	V1	0.836	0.180	1.340	1.128	0.243	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	0.06	5789	Mid	1	10.50	9.23	Top	0	V1	0.000	0.000	1.340	0.000	0.000	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	0.03	5789	Mid	1	10.50	9.23	Bottom	0	V1	0.112	0.016	1.340	0.151	0.022	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	0.02	5789	Mid	1	10.50	9.23	Right	0	V1	0.160	0.016	1.340	0.216	0.022	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	0.02	5789	Mid	1	10.50	9.23	Left	0	V1	0.000	0.000	1.340	0.000	0.000	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	-0.15	5733	Low	1	7.50	6.10	Back	0	V1	0.381	0.083	1.380	0.529	0.115	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	0.05	5733	Low	1	7.50	6.10	Bottom	0	V1	0.039	0.009	1.380	0.054	0.013	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	0.08	5733	Low	1	7.50	6.10	Right	0	V1	0.081	0.012	1.380	0.113	0.017	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	0.05	5733	Low	1	4.50	3.43	Back	0	V1	0.212	0.044	1.279	0.273	0.057	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	0.03	5733	Low	1	4.50	3.43	Bottom	0	V1	0.026	0.007	1.279	0.033	0.009	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	0.09	5733	Low	1	4.50	3.43	Right	0	V1	0.038	0.004	1.279	0.049	0.005	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	-0.11	5844	High	1	3.50	2.43	Back	0	V1	0.187	0.035	1.279	0.241	0.045	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	0.06	5844	High	1	3.50	2.43	Bottom	0	V1	0.011	0.000	1.279	0.014	0.000	
Body	NB U-NII 3	FHSS	2a	WFG6R	77.0	0.05	5844	High	1	3.50	2.43	Right	0	V1	0.020	0.000	1.279	0.026	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								

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

Table 10-113 NB UNII 3 Antenna 4a

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]	Add'l Info	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	0.02	5844	High	1	10.50	9.82	Back	0	V2	0.989	0.222	1.169	1.164	0.261	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	0.07	5844	High	1	10.50	9.82	Back	0	V2	0.943	0.231	1.169	1.110	0.272	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	0.06	5733	Low	1	10.50	10.13	Back	0	V2	1.080	0.249	1.089	1.184	0.273	
Body	NB U-NII 3	FHSS	4a	MQ05J	77.0	-0.14	5733	Low	1	10.50	10.26	Back	0	V1	1.100	0.273	1.057	1.170	0.290	
Body	NB U-NII 3	FHSS	4a	MQ05J	77.0	-0.02	5733	Low	1	10.50	10.26	Back	0	V1	1.100	0.271	1.057	1.170	0.288	A36
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	-0.02	5789	Mid	1	10.50	9.93	Back	0	V2	1.010	0.232	1.140	1.159	0.266	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	0.13	5733	Low	1	10.50	10.13	Top	0	V2	0.202	0.067	1.089	0.221	0.073	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	0.06	5733	Low	1	10.50	10.13	Bottom	0	V2	0.000	0.000	1.089	0.000	0.000	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	0.02	5733	Low	1	10.50	10.13	Right	0	V2	0.000	0.000	1.089	0.000	0.000	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	0.16	5733	Low	1	10.50	10.13	Left	0	V2	0.195	0.045	1.089	0.214	0.049	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	-0.12	5733	Low	1	7.50	6.58	Back	0	V2	0.422	0.095	1.236	0.525	0.118	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	-0.03	5733	Low	1	7.50	6.58	Top	0	V2	0.076	0.023	1.236	0.095	0.029	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	0.03	5733	Low	1	7.50	6.58	Left	0	V2	0.084	0.016	1.236	0.104	0.020	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	-0.11	5733	Low	1	4.50	3.72	Back	0	V2	0.257	0.056	1.197	0.310	0.067	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	0.02	5733	Low	1	4.50	3.72	Top	0	V2	0.046	0.013	1.197	0.055	0.016	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	0.09	5733	Low	1	4.50	3.72	Left	0	V2	0.031	0.002	1.197	0.037	0.002	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	-0.01	5733	Low	1	3.50	3.10	Back	0	V2	0.244	0.050	1.096	0.269	0.055	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	0.17	5733	Low	1	3.50	3.10	Top	0	V2	0.035	0.004	1.096	0.039	0.004	
Body	NB U-NII 3	FHSS	4a	7XTY0	77.0	0.02	5733	Low	1	3.50	3.10	Left	0	V2	0.023	0.000	1.096	0.025	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								

Note: The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per manufacturer.

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10.37 wPT Standalone SAR

Table 10-114 wPT

Exposure	Band / Mode	Service / Modulation	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Plot #
Body	wPT	CW	HHF20	-0.02	13.6	Back	0	0.035	0.008	A37
Body	wPT	CW	HHF20	0.07	13.6	Top	0	0.000	0.000	
Body	wPT	CW	HHF20	0.09	13.6	Bottom	0	0.000	0.000	
Body	wPT	CW	HHF20	0.06	13.6	Right	0	0.000	0.000	
Body	wPT	CW	HHF20	0.08	13.6	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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10.38 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 616217 D04v01r02, 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. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 12 for variability analysis.
7. FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.
8. This device uses Smart Transmit for WWAN operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
9. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
10. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. Per October 2020 TCB Workshop notes, 5 channels were tested. Absorbed power density (APD) using a $4cm^2$ averaging area is reported based on SAR measurements.

UMTS Notes:

1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR were not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 7.5.4.
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 LTE Band 41 and LTE Band 48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, 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.

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6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure condition. Please see Section 13 for linearity results.
8. For LTE Band 5, LTE Band 66, LTE Band 7, LTE Band 41, and LTE Band 48, per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.
9. This device supports LTE Band 41 ULCA active with Power Class 2. Highest SAR test configuration for each exposure condition in Power Class 3 with ULCA active was repeated with Power Class 2 with ULCA active.
10. 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 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.

NR Notes:

1. NR implementation supports SA and NSA modes. NR implementation in EN-DC mode 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. Per FCC KDB Publication 447498 D01v06, when the reported SAR measured at the highest output power channel in a given a test configuration was > 0.4 W/kg for NR n77 C 1g evaluations, > 0.6 W/kg for NR n41 1g evaluations, and > 0.8 W/kg for NR n77 DoD, testing at the other channels was required for such test configurations.
3. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
4. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
5. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
6. 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.
7. This device supports Power Class 2 and Power Class 3 operations for NR Band n41, NR Band n77 DoD, and NR Band n77 C. The highest available duty cycle for Power Class 2 and Power Class 3 operations is 100.0 %. Per FCC Guidance, all SAR tests were performed using Power Class 2.

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WLAN Notes:

1. 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 7.6.4 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain 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 7.6.5 for more information.
3. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v06 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 11 for complete analysis.
4. 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.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
6. The time-averaged mechanism for WLAN operations was disabled for the above SAR measurements. The SAR was scaled to the maximum time-averaged output power.

Bluetooth/NB UNII Notes

1. Bluetooth/NB UNII SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is limited to 77.5% per manufacturer. See Section 8.10 and 8.18 for the time domain plot and calculation for the duty factor of the device.

802.15.4 Notes

1. The manufacturer declared that the maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at a higher duty cycle of 100% and scaled down to 60%. See Section 8.13 for the time domain plot for the duty factor of the device at the maximum source-based duty cycle of 60% and at the test mode during SAR measurement of 100%.

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10.39 Power Density Data

MEASUREMENT RESULTS																							
Frequency (MHz)	Channel	Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift (dB)	Spacing (mm)	Antenna Config.	Variant	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (λ)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6025	15	802.11ax	OFDM	160	15.25	15.15	0.11	2	WF5B	V2	QK902TR6F	68.1	Right	97.7	0.25	3.090	1.554	1.024	2.560	4.167	4.350	**7.081**	A38
6345	79	802.11ax	OFDM	160	16.00	15.64	-0.06	2	WF5B	V2	QK902TR6F	68.1	Back	97.7	0.25	-	2.554	1.024	0.620	1.761	0.667	1.894	
6345	79	802.11ax	OFDM	160	16.00	15.64	0.00	2	WF5B	V2	QK902TR6F	68.1	Top	97.7	0.25	-	3.554	1.024	0.210	0.830	0.224	0.885	
6345	79	802.11ax	OFDM	160	16.00	15.64	0.10	2	WF5B	V2	QK902TR6F	68.1	Bottom	97.7	0.25	-	4.554	1.024	0.068	0.344	0.083	0.420	
6345	79	802.11ax	OFDM	160	16.00	15.64	0.03	2	WF5B	V2	QK902TR6F	68.1	Left	97.7	0.25	-	5.554	1.024	0.091	0.562	0.098	0.605	
6345	79	802.11ax	OFDM	160	16.00	15.64	0.02	2	WF5B	V2	QK902TR6F	68.1	Right	97.7	0.25	-	1.554	1.024	3.250	5.616	4.050	6.999	
6505	111	802.11ax	OFDM	160	12.75	11.79	0.18	2	WF5B	V2	QK902TR6F	68.1	Right	97.7	0.25	-	1.554	1.024	0.919	1.824	1.820	3.612	
6665	143	802.11ax	OFDM	160	14.00	12.06	0.14	2	WF5B	V2	QK902TR6F	68.1	Right	97.7	0.25	-	1.554	1.024	1.480	3.681	2.650	6.591	
6985	207	802.11ax	OFDM	160	13.25	12.51	-0.08	2	WF5B	V2	QK902TR6F	68.1	Right	97.7	0.25	-	1.554	1.024	1.580	2.982	3.120	5.888	
6025	15	802.11ax	OFDM	160	15.25	15.15	0.03	9.95	WF5B	V2	QK902TR6F	68.1	Right	97.7	0.25	2.860	1.554	1.024	1.660	2.702	1.780	2.898	
6025	15	802.11ax	OFDM	160	10.25	10.22	-0.10	2	2a	V2	QK902TR6F	68.1	Back	97.7	0.25	-	1.554	1.024	0.579	0.928	0.798	1.279	
6345	79	802.11ax	OFDM	160	10.00	8.01	0.04	2	2a	V2	QK902TR6F	68.1	Back	97.7	0.25	-	1.554	1.024	0.630	1.585	0.668	1.681	
6505	111	802.11ax	OFDM	160	10.25	10.06	0.17	2	2a	V2	QK902TR6F	68.1	Back	97.7	0.25	-	1.554	1.024	0.897	1.492	0.961	1.598	
6665	143	802.11ax	OFDM	160	10.75	8.80	0.13	2	2a	V2	QK902TR6F	68.1	Back	97.7	0.25	0.656	1.554	1.024	0.616	1.536	0.818	2.040	
6985	207	802.11ax	OFDM	160	9.75	8.52	-0.07	2	2a	V2	QK902TR6F	68.1	Back	97.7	0.25	-	1.554	1.024	0.274	0.579	0.404	0.853	
6665	143	802.11ax	OFDM	160	10.75	8.80	3.49	2	2a	V2	QK902TR6F	68.1	Top	97.7	0.25	-	1.554	1.024	0.207	0.516	0.212	0.529	
6665	143	802.11ax	OFDM	160	10.75	8.80	0.18	2	2a	V2	QK902TR6F	68.1	Bottom	97.7	0.25	-	1.554	1.024	0.737	1.838	0.778	1.940	
6665	143	802.11ax	OFDM	160	10.75	8.80	-0.21	2	2a	V2	QK902TR6F	68.1	Right	97.7	0.25	-	1.554	1.024	0.247	0.616	0.376	0.938	
6665	143	802.11ax	OFDM	160	10.75	8.80	0.00	2	2a	V2	QK902TR6F	68.1	Left	97.7	0.25	-	1.554	1.024	0.121	0.302	0.177	0.441	
6665	143	802.11ax	OFDM	160	10.75	8.80	0.11	9	2a	V2	QK902TR6F	68.1	Back	97.7	0.25	0.214	1.554	1.024	0.308	0.000	0.359	0.895	
6025	15	802.11ax	OFDM	160	8.25	6.37	0.04	2	4a	V2	RT6R67XTY0	68.1	Back	97.7	0.25	-	1.554	1.024	0.588	0.768	0.752	1.845	
6345	79	802.11ax	OFDM	160	9.75	8.58	0.03	2	4a	V2	RT6R67XTY0	68.1	Back	97.7	0.25	2.930	1.554	1.024	1.630	1.443	2.110	4.395	
6345	79	802.11ax	OFDM	160	9.75	8.58	-0.17	2	4a	V2	RT6R67XTY0	68.1	Top	97.7	0.25	-	1.554	1.024	0.165	3.395	0.238	0.496	
6345	79	802.11ax	OFDM	160	9.75	8.58	0.00	2	4a	V2	RT6R67XTY0	68.1	Bottom	97.7	0.25	-	1.554	1.024	0.125	0.344	0.135	0.281	
6345	79	802.11ax	OFDM	160	9.75	8.58	0.05	2	4a	V2	RT6R67XTY0	68.1	Left	97.7	0.25	-	1.554	1.024	0.458	0.260	0.640	1.333	
6345	79	802.11ax	OFDM	160	9.75	8.58	0.04	2	4a	V2	RT6R67XTY0	68.1	Right	97.7	0.25	-	1.554	1.024	0.300	0.954	0.307	0.639	
6505	111	802.11ax	OFDM	160	9.50	8.67	-0.04	2	4a	V2	RT6R67XTY0	68.1	Back	97.7	0.25	-	1.554	1.024	0.863	0.625	1.030	1.985	
6665	143	802.11ax	OFDM	160	8.75	6.76	0.03	2	4a	V2	RT6R67XTY0	68.1	Back	97.7	0.25	-	1.554	1.024	0.681	1.663	0.858	2.159	
6985	207	802.11ax	OFDM	160	8.50	7.95	0.09	2	4a	V2	RT6R67XTY0	68.1	Back	97.7	0.25	-	1.554	1.024	1.310	1.713	1.340	2.420	
6345	79	802.11ax	OFDM	160	9.75	8.58	0.12	9.45	4a	V2	RT6R67XTY0	68.1	Back	97.7	0.25	1.320	1.554	1.024	0.649	2.366	0.697	1.452	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population											Power Density 10 W/m² averaged over 4 cm²												

10.40 Power Density Notes

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
3. Power density was calculated by repeated E-field measurements on two measurement planes separated by λ/4.
4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.

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5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
6. Per equipment manufacturer guidance, power density was measured at d=2mm and d=λ/5mm 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 ≥ -1dB, the grid step was sufficient for determining compliance at d=2mm.
7. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
8. PTP-PR algorithm was used during psPD measurement and calculations.

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11 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

11.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

11.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

Note:
SAR Summations for some scenarios when the output power levels are reduced, SAR values at the maximum output power level were used as the most conservative evaluation for simultaneous transmission analysis.

For each position, the highest SAR value across all modes for the applicable cellular band antenna was considered for summation to determine simultaneous SAR test exclusion.

*The SAR distributions for at least one of the antennas are spatially separated from the other antennas per FCC KDB Publication 248227 Section 6.1 procedures. Therefore, simultaneous transmission was treated independently for this configuration. See section 11.4 for more information about the Spatial Separation Analysis.

Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G (including scenarios with inter-band ULCA active) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR and during inter-band ULCA active conditions to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G operations (including scenarios with inter-band ULCA active) is demonstrated in the Part 2 Report during algorithm validation.

All 3G/4G/5G transmitting antennas are within one Smart Transmit Gen2 antenna group, therefore no additional simultaneous analysis is required.

In some cases where simultaneous transmission scenarios overlap with the same power level (for example, cellular band + 2.4 GHz WIFI SISO and cellular band + 2.4 GHz WIFI MIMO), the most conservative SAR summation scenario was evaluated.

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11.3 Body SAR Simultaneous Transmission Analysis

Table 11-1
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	1.178	1.183	0.035	1.218*
	Top	0.030	0.028	0.427	0.000	0.485
	Bottom	0.850	0.548	0.024	0.000	1.422
	Right	0.063	1.016	0.000	0.000	1.079
	Left	0.987	0.000	0.989	0.000	0.989*

Table 11-2
Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.323	1.183	0.035	1.351*
	Top	0.010	0.028	0.427	0.000	0.465
	Bottom	0.994	0.155	0.024	0.000	1.173
	Right	0.060	0.288	0.000	0.000	0.348
	Left	0.039	0.000	0.989	0.000	1.028

Table 11-3
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.988	1.178	1.183	0.035	1.218*
	Top	0.989	0.028	0.427	0.000	1.444
	Bottom	0.100	0.548	0.024	0.000	0.672
	Right	0.994	1.016	0.000	0.000	1.016*
	Left	0.081	0.000	0.989	0.000	1.070

Table 11-4
Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.992	1.178	0.298	0.035	1.325*
	Top	0.993	0.028	0.116	0.000	1.137
	Bottom	0.004	0.548	0.024	0.000	0.576
	Right	0.024	1.016	0.000	0.000	1.040
	Left	0.086	0.000	0.254	0.000	0.340

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Table 11-5
Cellular Band Ant 1 Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	1.182	0.182	0.035	1.399*
	Top	0.030	0.190	0.000	0.000	0.220
	Bottom	0.850	0.000	0.017	0.000	0.867
	Right	0.063	0.000	1.183	0.000	1.246
	Left	0.987	0.205	0.015	0.000	1.207

Table 11-6
Cellular Band Ant 2b Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	1.182	0.182	0.035	1.399*
	Top	0.010	0.190	0.000	0.000	0.200
	Bottom	0.994	0.000	0.017	0.000	1.011
	Right	0.060	0.000	1.183	0.000	1.243
	Left	0.039	0.205	0.015	0.000	0.259

Table 11-7
Cellular Band Ant 3 Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	? SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.988	1.182	0.182	0.035	1.399*
	Top	0.989	0.190	0.000	0.000	1.179
	Bottom	0.100	0.000	0.017	0.000	0.117
	Right	0.994	0.000	1.183	0.000	1.183*
	Left	0.081	0.205	0.015	0.000	0.301

Table 11-8
Cellular Band Ant 4b Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.992	0.378	0.182	0.035	1.587
	Top	0.993	0.035	0.000	0.000	1.028
	Bottom	0.004	0.000	0.017	0.000	0.021
	Right	0.024	0.000	1.183	0.000	1.207
	Left	0.086	0.060	0.019	0.000	0.165

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Table 11-9
Cellular Band Ant 1 Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	1.182	1.187	0.035	1.222*
	Top	0.030	0.190	0.000	0.000	0.220
	Bottom	0.850	0.000	0.161	0.000	1.011
	Right	0.063	0.000	0.298	0.000	0.361
	Left	0.987	0.205	0.000	0.000	1.192

Table 11-10
Cellular Band Ant 2b Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	1.182	0.390	0.035	1.418*
	Top	0.010	0.190	0.000	0.000	0.200
	Bottom	0.994	0.000	0.052	0.000	1.046
	Right	0.060	0.000	0.104	0.000	0.164
	Left	0.039	0.205	0.000	0.000	0.244

Table 11-11
Cellular Band Ant 3 Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.988	1.182	1.187	0.035	1.222*
	Top	0.989	0.190	0.000	0.000	1.179
	Bottom	0.100	0.000	0.161	0.000	0.261
	Right	0.994	0.000	0.298	0.000	1.292
	Left	0.081	0.205	0.000	0.000	0.286

Table 11-12
Cellular Band Ant 4b Simultaneous Transmission Scenario with 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.992	0.378	1.187	0.035	1.405*
	Top	0.993	0.035	0.000	0.000	1.028
	Bottom	0.004	0.000	0.161	0.000	0.165
	Right	0.024	0.000	0.298	0.000	0.322
	Left	0.086	0.060	0.000	0.000	0.146

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Table 11-13
Cellular Band Ant 1 Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	1.163	0.157	0.035	1.355*
	Top	0.030	0.190	0.000	0.000	0.220
	Bottom	0.850	0.005	0.052	0.000	0.907
	Right	0.063	0.000	1.134	0.000	1.197
	Left	0.987	0.206	0.008	0.000	1.201

Table 11-14
Cellular Band Ant 2b Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	1.163	0.157	0.035	1.355*
	Top	0.010	0.190	0.000	0.000	0.200
	Bottom	0.994	0.005	0.052	0.000	1.051
	Right	0.060	0.000	1.134	0.000	1.194
	Left	0.039	0.206	0.008	0.000	0.253

Table 11-15
Cellular Band Ant 3 Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.988	1.163	0.157	0.035	1.355*
	Top	0.989	0.190	0.000	0.000	1.179
	Bottom	0.100	0.005	0.052	0.000	0.157
	Right	0.994	0.000	1.134	0.000	1.134*
	Left	0.081	0.206	0.008	0.000	0.295

Table 11-16
Cellular Band Ant 4b Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.992	0.245	0.157	0.035	1.429
	Top	0.993	0.033	0.000	0.000	1.026
	Bottom	0.004	0.005	0.052	0.000	0.061
	Right	0.024	0.000	1.134	0.000	1.158
	Left	0.086	0.046	0.008	0.000	0.140

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Table 11-17
Cellular Band Ant 1 Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	1.163	1.178	0.035	1.213*
	Top	0.030	0.190	0.000	0.000	0.220
	Bottom	0.850	0.005	0.172	0.000	1.027
	Right	0.063	0.000	0.127	0.000	0.190
	Left	0.987	0.206	0.000	0.000	1.193

Table 11-18
Cellular Band Ant 2b Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	1.163	0.227	0.035	1.255*
	Top	0.010	0.190	0.000	0.000	0.200
	Bottom	0.994	0.005	0.034	0.000	1.033
	Right	0.060	0.000	0.025	0.000	0.085
	Left	0.039	0.206	0.000	0.000	0.245

Table 11-19
Cellular Band Ant 3 Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.988	1.163	1.178	0.035	1.213*
	Top	0.989	0.190	0.000	0.000	1.179
	Bottom	0.100	0.005	0.172	0.000	0.277
	Right	0.994	0.000	0.127	0.000	1.121
	Left	0.081	0.206	0.000	0.000	0.287

Table 11-20
Cellular Band Ant 4b Simultaneous Transmission Scenario with 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.992	0.245	1.178	0.035	1.272*
	Top	0.993	0.033	0.000	0.000	1.026
	Bottom	0.004	0.005	0.172	0.000	0.181
	Right	0.024	0.000	0.127	0.000	0.151
	Left	0.086	0.046	0.000	0.000	0.132

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Table 11-21
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	1.114	1.183	0.035	1.218*
	Top	0.030	0.027	0.383	0.000	0.440
	Bottom	0.850	0.391	0.024	0.000	1.265
	Right	0.063	1.034	0.000	0.000	1.097
	Left	0.987	0.000	0.920	0.000	0.987*

Table 11-22
Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 3 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.486	1.183	0.035	1.514*
	Top	0.010	0.027	0.383	0.000	0.420
	Bottom	0.994	0.187	0.024	0.000	1.205
	Right	0.060	0.426	0.000	0.000	0.486
	Left	0.039	0.000	0.920	0.000	0.959

Table 11-23
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.988	1.114	1.183	0.035	1.218*
	Top	0.989	0.027	0.383	0.000	1.399
	Bottom	0.100	0.391	0.024	0.000	0.515
	Right	0.994	1.034	0.000	0.000	1.034*
	Left	0.081	0.000	0.920	0.000	1.001

Table 11-24
Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 3 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.992	1.114	0.425	0.035	1.452*
	Top	0.993	0.027	0.212	0.000	1.232
	Bottom	0.004	0.391	0.024	0.000	0.419
	Right	0.024	1.034	0.000	0.000	1.058
	Left	0.086	0.000	0.367	0.000	0.453

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Table 11-25
Cellular Band Ant 1 Simultaneous Transmission Scenario with NB U-NII TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	0.039	1.184	0.035	1.258*
	Top	0.030	0.000	0.221	0.000	0.251
	Bottom	0.850	0.000	0.000	0.000	0.850
	Right	0.063	0.306	0.000	0.000	0.369
	Left	0.987	0.000	0.214	0.000	1.201

Table 11-26
Cellular Band Ant 2b Simultaneous Transmission Scenario with NB U-NII TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.039	1.184	0.035	1.258*
	Top	0.010	0.000	0.221	0.000	0.231
	Bottom	0.994	0.000	0.000	0.000	0.994
	Right	0.060	0.306	0.000	0.000	0.366
	Left	0.039	0.000	0.214	0.000	0.253

Table 11-27
Cellular Band Ant 3 Simultaneous Transmission Scenario with NB U-NII TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.988	0.039	1.184	0.035	1.258*
	Top	0.989	0.000	0.221	0.000	1.210
	Bottom	0.100	0.000	0.000	0.000	0.100
	Right	0.994	0.306	0.000	0.000	1.300
	Left	0.081	0.000	0.214	0.000	0.295

Table 11-28
Cellular Band Ant 4b Simultaneous Transmission Scenario with NB U-NII TxBF and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant 4a with 3 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.992	0.039	0.543	0.035	1.57*
	Top	0.993	0.000	0.095	0.000	1.088
	Bottom	0.004	0.000	0.000	0.000	0.004
	Right	0.024	0.306	0.000	0.000	0.330
	Left	0.086	0.000	0.104	0.000	0.190

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Table 11-29
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.216	0.204	1.182	0.182	0.035	1.423*
	Top	0.030	0.027	0.093	0.190	0.000	0.000	0.340
	Bottom	0.850	0.079	0.024	0.000	0.017	0.000	0.970
	Right	0.063	0.199	0.000	0.000	1.183	0.000	1.445
	Left	0.987	0.000	0.180	0.205	0.015	0.000	1.387

Table 11-30
Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.090	0.204	1.182	0.182	0.035	1.421*
	Top	0.010	0.027	0.093	0.190	0.000	0.000	0.320
	Bottom	0.994	0.041	0.024	0.000	0.017	0.000	1.076
	Right	0.060	0.081	0.000	0.000	1.183	0.000	1.324
	Left	0.039	0.000	0.180	0.205	0.015	0.000	0.439

Table 11-31
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.988	0.216	0.204	1.182	0.182	0.035	1.421*
	Top	0.989	0.027	0.093	0.190	0.000	0.000	1.299
	Bottom	0.100	0.079	0.024	0.000	0.017	0.000	0.220
	Right	0.994	0.199	0.000	0.000	1.183	0.000	1.382*
	Left	0.081	0.000	0.180	0.205	0.015	0.000	0.481

Table 11-32
Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.992	0.216	0.189	0.378	0.182	0.035	1.594*
	Top	0.993	0.027	0.089	0.035	0.000	0.000	1.144
	Bottom	0.004	0.079	0.024	0.000	0.017	0.000	0.124
	Right	0.024	0.199	0.000	0.000	1.183	0.000	1.406
	Left	0.086	0.000	0.165	0.060	0.019	0.000	0.330

Table 11-33
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.216	0.204	1.182	1.187	0.035	1.438*
	Top	0.030	0.027	0.093	0.190	0.000	0.000	0.340
	Bottom	0.850	0.079	0.024	0.000	0.161	0.000	1.114
	Right	0.063	0.199	0.000	0.000	0.298	0.000	0.560
	Left	0.987	0.000	0.180	0.205	0.000	0.000	1.372

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Table 11-34
Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.090	0.204	1.182	0.390	0.035	1.508*
	Top	0.010	0.027	0.093	0.190	0.000	0.000	0.320
	Bottom	0.994	0.041	0.024	0.000	0.052	0.000	1.111
	Right	0.060	0.081	0.000	0.000	0.104	0.000	0.245
	Left	0.039	0.000	0.180	0.205	0.000	0.000	0.424

Table 11-35
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.988	0.216	0.204	1.182	1.187	0.035	1.438*
	Top	0.989	0.027	0.093	0.190	0.000	0.000	1.299
	Bottom	0.100	0.079	0.024	0.000	0.161	0.000	0.364
	Right	0.994	0.199	0.000	0.000	0.298	0.000	1.491
	Left	0.081	0.000	0.180	0.205	0.000	0.000	0.466

Table 11-36
Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.992	0.216	0.189	0.378	1.187	0.035	1.594*
	Top	0.993	0.027	0.089	0.035	0.000	0.000	1.144
	Bottom	0.004	0.079	0.024	0.000	0.161	0.000	0.268
	Right	0.024	0.199	0.000	0.000	0.298	0.000	0.521
	Left	0.086	0.000	0.165	0.060	0.000	0.000	0.311

Table 11-37
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.216	0.204	1.163	0.157	0.035	1.559*
	Top	0.030	0.027	0.093	0.190	0.000	0.000	0.340
	Bottom	0.850	0.079	0.024	0.005	0.052	0.000	1.010
	Right	0.063	0.199	0.000	0.000	1.134	0.000	1.396
	Left	0.987	0.000	0.180	0.206	0.008	0.000	1.381

Table 11-38
Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.090	0.204	1.163	0.157	0.035	1.559*
	Top	0.010	0.027	0.093	0.190	0.000	0.000	0.320
	Bottom	0.994	0.041	0.024	0.005	0.052	0.000	1.116
	Right	0.060	0.081	0.000	0.000	1.134	0.000	1.275
	Left	0.039	0.000	0.180	0.206	0.008	0.000	0.433

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Table 11-39
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.988	0.216	0.204	1.163	0.157	0.035	1.559*
	Top	0.989	0.027	0.093	0.190	0.000	0.000	1.299
	Bottom	0.100	0.079	0.024	0.005	0.052	0.000	0.260
	Right	0.994	0.199	0.000	0.000	1.134	0.000	1.333*
	Left	0.081	0.000	0.180	0.206	0.008	0.000	0.475

Table 11-40
Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.992	0.216	0.189	0.245	0.157	0.035	1.461*
	Top	0.993	0.027	0.089	0.033	0.000	0.000	1.142
	Bottom	0.004	0.079	0.024	0.005	0.052	0.000	0.164
	Right	0.024	0.199	0.000	0.000	1.134	0.000	1.357
	Left	0.086	0.000	0.165	0.046	0.008	0.000	0.305

Table 11-41
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.216	0.204	1.163	1.178	0.035	1.429*
	Top	0.030	0.027	0.093	0.190	0.000	0.000	0.340
	Bottom	0.850	0.079	0.024	0.005	0.172	0.000	1.130
	Right	0.063	0.199	0.000	0.000	0.127	0.000	0.389
	Left	0.987	0.000	0.180	0.206	0.000	0.000	1.373

Table 11-42
Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 7 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.090	0.204	1.163	0.227	0.035	1.402*
	Top	0.010	0.027	0.093	0.190	0.000	0.000	0.320
	Bottom	0.994	0.041	0.024	0.005	0.034	0.000	1.098
	Right	0.060	0.081	0.000	0.000	0.025	0.000	0.166
	Left	0.039	0.000	0.180	0.206	0.000	0.000	0.425

Table 11-43
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.988	0.216	0.204	1.163	1.178	0.035	1.429*
	Top	0.989	0.027	0.093	0.190	0.000	0.000	1.299
	Bottom	0.100	0.079	0.024	0.005	0.172	0.000	0.380
	Right	0.994	0.199	0.000	0.000	0.127	0.000	1.320
	Left	0.081	0.000	0.180	0.206	0.000	0.000	0.467

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Table 11-44
Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TxBF, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz Bluetooth Ant 4a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.992	0.216	0.189	0.245	1.178	0.035	1.461*
	Top	0.993	0.027	0.089	0.033	0.000	0.000	1.142
	Bottom	0.004	0.079	0.024	0.005	0.172	0.000	0.284
	Right	0.024	0.199	0.000	0.000	0.127	0.000	0.350
	Left	0.086	0.000	0.165	0.046	0.000	0.000	0.297

Table 11-45
Cellular Band Ant 1 Simultaneous Transmission Scenario with NB U-NII TxBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant 4a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.990	0.039	0.318	1.183	1.178	0.035	1.575*
	Top	0.030	0.000	0.055	0.427	0.028	0.000	0.540
	Bottom	0.850	0.000	0.000	0.024	0.548	0.000	1.422
	Right	0.063	0.306	0.000	0.000	1.016	0.000	1.385
	Left	0.987	0.000	0.037	0.989	0.000	0.000	1.026*

Table 11-46
Cellular Band Ant 2b Simultaneous Transmission Scenario with NB U-NII TxBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant 4a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	2.4 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.993	0.039	0.318	1.183	0.323	0.035	1.575*
	Top	0.010	0.000	0.055	0.427	0.028	0.000	0.520
	Bottom	0.994	0.000	0.000	0.024	0.155	0.000	1.173
	Right	0.060	0.306	0.000	0.000	0.288	0.000	0.654
	Left	0.039	0.000	0.037	0.989	0.000	0.000	1.065

Table 11-47
Cellular Band Ant 3 Simultaneous Transmission Scenario with NB U-NII TxBF, 2.4 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant 4a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.988	0.039	0.318	1.183	1.178	0.035	1.575*
	Top	0.989	0.000	0.055	0.427	0.028	0.000	1.499
	Bottom	0.100	0.000	0.000	0.024	0.548	0.000	0.672
	Right	0.994	0.306	0.000	0.000	1.016	0.000	1.322*
	Left	0.081	0.000	0.037	0.989	0.000	0.000	1.107

Table 11-48
Cellular Band Ant 4b Simultaneous Transmission Scenario with NB U-NII TxBF, 2.4 GHz WIFI MIMO, and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	NB U-NII Ant WF5B SAR (W/kg)	NB U-NII Ant 4a with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	6	1+2+3+4+5+6
Body SAR	Back	0.992	0.039	0.269	0.298	1.178	0.035	1.594*
	Top	0.993	0.000	0.039	0.116	0.028	0.000	1.176
	Bottom	0.004	0.000	0.000	0.024	0.548	0.000	0.576
	Right	0.024	0.306	0.000	0.000	1.016	0.000	1.346
	Left	0.086	0.000	0.029	0.254	0.000	0.000	0.369

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Table 11-49
Cellular Band Ant 1 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	1.114	1.183	0.035	1.218*
	Top	0.030	0.027	0.427	0.000	0.484
	Bottom	0.850	0.391	0.024	0.000	1.265
	Right	0.063	1.034	0.000	0.000	1.097
	Left	0.987	0.000	0.989	0.000	0.989*

Table 11-50
Cellular Band Ant 2b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a with 3 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.486	1.183	0.035	1.514*
	Top	0.010	0.027	0.427	0.000	0.464
	Bottom	0.994	0.187	0.024	0.000	1.205
	Right	0.060	0.426	0.000	0.000	0.486
	Left	0.039	0.000	0.989	0.000	1.028

Table 11-51
Cellular Band Ant 3 Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	2.4 GHz Bluetooth Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.988	1.114	1.183	0.035	1.218*
	Top	0.989	0.027	0.427	0.000	1.443
	Bottom	0.100	0.391	0.024	0.000	0.515
	Right	0.994	1.034	0.000	0.000	1.034*
	Left	0.081	0.000	0.989	0.000	1.070

Table 11-52
Cellular Band Ant 4b Simultaneous Transmission Scenario with 2.4 GHz Bluetooth, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	2.4 GHz Bluetooth Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.992	1.114	0.298	0.035	1.325*
	Top	0.993	0.027	0.116	0.000	1.136
	Bottom	0.004	0.391	0.024	0.000	0.419
	Right	0.024	1.034	0.000	0.000	1.058
	Left	0.086	0.000	0.254	0.000	0.340

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Table 11-53
Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.990	1.181	1.183	0.035	1.218*
	Top	0.030	0.029	0.427	0.000	0.486
	Bottom	0.850	0.337	0.024	0.000	1.211
	Right	0.063	0.997	0.000	0.000	1.060
	Left	0.987	0.001	0.989	0.000	0.99*

Table 11-54
Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 2a with 3 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.993	0.311	1.183	0.035	1.339*
	Top	0.010	0.029	0.427	0.000	0.466
	Bottom	0.994	0.138	0.024	0.000	1.156
	Right	0.060	0.278	0.000	0.000	0.338
	Left	0.039	0.001	0.989	0.000	1.029

Table 11-55
Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.988	1.181	1.183	0.035	1.218*
	Top	0.989	0.029	0.427	0.000	1.445
	Bottom	0.100	0.337	0.024	0.000	0.461
	Right	0.994	0.997	0.000	0.000	0.997*
	Left	0.081	0.001	0.989	0.000	1.071

Table 11-56
Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 2a SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body SAR	Back	0.992	1.181	0.298	0.035	1.325*
	Top	0.993	0.029	0.116	0.000	1.138
	Bottom	0.004	0.337	0.024	0.000	0.365
	Right	0.024	0.997	0.000	0.000	1.021
	Left	0.086	0.001	0.254	0.000	0.341

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Table 11-57
Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.990	1.181	0.035	1.216*
	Top	0.030	0.029	0.000	0.059
	Bottom	0.850	0.337	0.000	1.187
	Right	0.063	0.997	0.000	1.060
	Left	0.987	0.001	0.000	0.988

Table 11-58
Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.990	1.144	0.035	1.179*
	Top	0.030	0.343	0.000	0.373
	Bottom	0.850	0.026	0.000	0.876
	Right	0.063	0.000	0.000	0.063
	Left	0.987	0.536	0.000	1.523

Table 11-59
Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 2a with 3 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.993	0.311	0.035	1.339
	Top	0.010	0.029	0.000	0.039
	Bottom	0.994	0.138	0.000	1.132
	Right	0.060	0.278	0.000	0.338
	Left	0.039	0.001	0.000	0.040

Table 11-60
Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.993	1.144	0.035	1.179*
	Top	0.010	0.343	0.000	0.353
	Bottom	0.994	0.026	0.000	1.020
	Right	0.060	0.000	0.000	0.060
	Left	0.039	0.536	0.000	0.575

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Table 11-61
Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.988	1.181	0.035	1.216*
	Top	0.989	0.029	0.000	1.018
	Bottom	0.100	0.337	0.000	0.437
	Right	0.994	0.997	0.000	0.997*
	Left	0.081	0.001	0.000	0.082

Table 11-62
Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 4a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.988	1.144	0.035	1.179*
	Top	0.989	0.343	0.000	1.332
	Bottom	0.100	0.026	0.000	0.126
	Right	0.994	0.000	0.000	0.994
	Left	0.081	0.536	0.000	0.617

Table 11-63
Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.992	1.181	0.035	1.216*
	Top	0.993	0.029	0.000	1.022
	Bottom	0.004	0.337	0.000	0.341
	Right	0.024	0.997	0.000	1.021
	Left	0.086	0.001	0.000	0.087

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Table 11-64
Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4 and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 4a with 3 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.992	0.471	0.035	1.498
	Top	0.993	0.174	0.000	1.167
	Bottom	0.004	0.026	0.000	0.030
	Right	0.024	0.000	0.000	0.024
	Left	0.086	0.385	0.000	0.471

Table 11-65
Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.187	1.182	0.182	0.035	1.586*
	Top	0.030	0.029	0.190	0.000	0.000	0.249
	Bottom	0.850	0.073	0.000	0.017	0.000	0.940
	Right	0.063	0.150	0.000	1.183	0.000	1.396
	Left	0.987	0.001	0.205	0.015	0.000	1.208

Table 11-66
Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.161	1.182	0.182	0.035	1.56*
	Top	0.030	0.070	0.190	0.000	0.000	0.290
	Bottom	0.850	0.026	0.000	0.017	0.000	0.893
	Right	0.063	0.000	0.000	1.183	0.000	1.246
	Left	0.987	0.128	0.205	0.015	0.000	1.335

Table 11-67
Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 2a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.152	1.182	0.182	0.035	1.399*
	Top	0.010	0.029	0.190	0.000	0.000	0.229
	Bottom	0.994	0.071	0.000	0.017	0.000	1.082
	Right	0.060	0.137	0.000	1.183	0.000	1.380
	Left	0.039	0.001	0.205	0.015	0.000	0.260

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Table 11-68
Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.161	1.182	0.182	0.035	1.56*
	Top	0.010	0.070	0.190	0.000	0.000	0.270
	Bottom	0.994	0.026	0.000	0.017	0.000	1.037
	Right	0.060	0.000	0.000	1.183	0.000	1.243
	Left	0.039	0.128	0.205	0.015	0.000	0.387

Table 11-69
Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.187	1.182	0.182	0.035	1.586*
	Top	0.989	0.029	0.190	0.000	0.000	1.208
	Bottom	0.100	0.073	0.000	0.017	0.000	0.190
	Right	0.994	0.150	0.000	1.183	0.000	1.333*
	Left	0.081	0.001	0.205	0.015	0.000	0.302

Table 11-70
Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.161	1.182	0.182	0.035	1.56*
	Top	0.989	0.070	0.190	0.000	0.000	1.249
	Bottom	0.100	0.026	0.000	0.017	0.000	0.143
	Right	0.994	0.000	0.000	1.183	0.000	1.183*
	Left	0.081	0.128	0.205	0.015	0.000	0.429

Table 11-71
Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.992	0.187	0.378	0.182	0.035	1.592*
	Top	0.993	0.029	0.035	0.000	0.000	1.057
	Bottom	0.004	0.073	0.000	0.017	0.000	0.094
	Right	0.024	0.150	0.000	1.183	0.000	1.357
	Left	0.086	0.001	0.060	0.019	0.000	0.166

Table 11-72
Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 4a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.992	0.125	0.378	0.182	0.035	1.53*
	Top	0.993	0.050	0.035	0.000	0.000	1.078
	Bottom	0.004	0.026	0.000	0.017	0.000	0.047
	Right	0.024	0.000	0.000	1.183	0.000	1.207
	Left	0.086	0.104	0.060	0.019	0.000	0.269

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Table 11-73
Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.187	1.182	1.187	0.035	1.409*
	Top	0.030	0.029	0.190	0.000	0.000	0.249
	Bottom	0.850	0.073	0.000	0.161	0.000	1.084
	Right	0.063	0.150	0.000	0.298	0.000	0.511
	Left	0.987	0.001	0.205	0.000	0.000	1.193

Table 11-74
Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.161	1.182	1.187	0.035	1.378*
	Top	0.030	0.070	0.190	0.000	0.000	0.290
	Bottom	0.850	0.026	0.000	0.161	0.000	1.037
	Right	0.063	0.000	0.000	0.298	0.000	0.361
	Left	0.987	0.128	0.205	0.000	0.000	1.320

Table 11-75
Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 2a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.152	1.182	0.390	0.035	1.57*
	Top	0.010	0.029	0.190	0.000	0.000	0.229
	Bottom	0.994	0.071	0.000	0.052	0.000	1.117
	Right	0.060	0.137	0.000	0.104	0.000	0.301
	Left	0.039	0.001	0.205	0.000	0.000	0.245

Table 11-76
Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.161	1.182	0.390	0.035	1.418*
	Top	0.010	0.070	0.190	0.000	0.000	0.270
	Bottom	0.994	0.026	0.000	0.052	0.000	1.072
	Right	0.060	0.000	0.000	0.104	0.000	0.164
	Left	0.039	0.128	0.205	0.000	0.000	0.372

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Table 11-77
Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.187	1.182	1.187	0.035	1.409*
	Top	0.989	0.029	0.190	0.000	0.000	1.208
	Bottom	0.100	0.073	0.000	0.161	0.000	0.334
	Right	0.994	0.150	0.000	0.298	0.000	1.442
	Left	0.081	0.001	0.205	0.000	0.000	0.287

Table 11-78
Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.161	1.182	1.187	0.035	1.378*
	Top	0.989	0.070	0.190	0.000	0.000	1.249
	Bottom	0.100	0.026	0.000	0.161	0.000	0.287
	Right	0.994	0.000	0.000	0.298	0.000	1.292
	Left	0.081	0.128	0.205	0.000	0.000	0.414

Table 11-79
Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.992	0.187	0.378	1.187	0.035	1.409*
	Top	0.993	0.029	0.035	0.000	0.000	1.057
	Bottom	0.004	0.073	0.000	0.161	0.000	0.238
	Right	0.024	0.150	0.000	0.298	0.000	0.472
	Left	0.086	0.001	0.060	0.000	0.000	0.147

Table 11-80
Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 5 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 4a with 7 dB backoff SAR (W/kg)	5 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	5 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.992	0.125	0.378	1.187	0.035	1.53*
	Top	0.993	0.050	0.035	0.000	0.000	1.078
	Bottom	0.004	0.026	0.000	0.161	0.000	0.191
	Right	0.024	0.000	0.000	0.298	0.000	0.322
	Left	0.086	0.104	0.060	0.000	0.000	0.250

Table 11-81
Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.187	1.163	0.157	0.035	1.542*
	Top	0.030	0.029	0.190	0.000	0.000	0.249
	Bottom	0.850	0.073	0.005	0.052	0.000	0.980
	Right	0.063	0.150	0.000	1.134	0.000	1.347
	Left	0.987	0.001	0.206	0.008	0.000	1.202

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Table 11-82
Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.161	1.163	0.157	0.035	1.516*
	Top	0.030	0.070	0.190	0.000	0.000	0.290
	Bottom	0.850	0.026	0.005	0.052	0.000	0.933
	Right	0.063	0.000	0.000	1.134	0.000	1.197
	Left	0.987	0.128	0.206	0.008	0.000	1.329

Table 11-83
Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 2a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.152	1.163	0.157	0.035	1.355*
	Top	0.010	0.029	0.190	0.000	0.000	0.229
	Bottom	0.994	0.071	0.005	0.052	0.000	1.122
	Right	0.060	0.137	0.000	1.134	0.000	1.331
	Left	0.039	0.001	0.206	0.008	0.000	0.254

Table 11-84
Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.161	1.163	0.157	0.035	1.516*
	Top	0.010	0.070	0.190	0.000	0.000	0.270
	Bottom	0.994	0.026	0.005	0.052	0.000	1.077
	Right	0.060	0.000	0.000	1.134	0.000	1.194
	Left	0.039	0.128	0.206	0.008	0.000	0.381

Table 11-85
Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.187	1.163	0.157	0.035	1.542*
	Top	0.989	0.029	0.190	0.000	0.000	1.208
	Bottom	0.100	0.073	0.005	0.052	0.000	0.230
	Right	0.994	0.150	0.000	1.134	0.000	1.284*
	Left	0.081	0.001	0.206	0.008	0.000	0.296

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Table 11-86
Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.161	1.163	0.157	0.035	1.516*
	Top	0.989	0.070	0.190	0.000	0.000	1.249
	Bottom	0.100	0.026	0.005	0.052	0.000	0.183
	Right	0.994	0.000	0.000	1.134	0.000	1.134*
	Left	0.081	0.128	0.206	0.008	0.000	0.423

Table 11-87
Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.992	0.187	0.245	0.157	0.035	1.459*
	Top	0.993	0.029	0.033	0.000	0.000	1.055
	Bottom	0.004	0.073	0.005	0.052	0.000	0.134
	Right	0.024	0.150	0.000	1.134	0.000	1.308
	Left	0.086	0.001	0.046	0.008	0.000	0.141

Table 11-88
Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 4a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant WF5B SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.992	0.125	0.245	0.157	0.035	1.554
	Top	0.993	0.050	0.033	0.000	0.000	1.076
	Bottom	0.004	0.026	0.005	0.052	0.000	0.087
	Right	0.024	0.000	0.000	1.134	0.000	1.158
	Left	0.086	0.104	0.046	0.008	0.000	0.244

Table 11-89
Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.187	1.163	1.178	0.035	1.4*
	Top	0.030	0.029	0.190	0.000	0.000	0.249
	Bottom	0.850	0.073	0.005	0.172	0.000	1.100
	Right	0.063	0.150	0.000	0.127	0.000	0.340
	Left	0.987	0.001	0.206	0.000	0.000	1.194

Table 11-90
Cellular Band Ant 1 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.161	1.163	1.178	0.035	1.359*
	Top	0.030	0.070	0.190	0.000	0.000	0.290
	Bottom	0.850	0.026	0.005	0.172	0.000	1.053
	Right	0.063	0.000	0.000	0.127	0.000	0.190
	Left	0.987	0.128	0.206	0.000	0.000	1.321

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Table 11-91
Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 2a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.152	1.163	0.227	0.035	1.407*
	Top	0.010	0.029	0.190	0.000	0.000	0.229
	Bottom	0.994	0.071	0.005	0.034	0.000	1.104
	Right	0.060	0.137	0.000	0.025	0.000	0.222
	Left	0.039	0.001	0.206	0.000	0.000	0.246

Table 11-92
Cellular Band Ant 2b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.161	1.163	0.227	0.035	1.359*
	Top	0.010	0.070	0.190	0.000	0.000	0.270
	Bottom	0.994	0.026	0.005	0.034	0.000	1.059
	Right	0.060	0.000	0.000	0.025	0.000	0.085
	Left	0.039	0.128	0.206	0.000	0.000	0.373

Table 11-93
Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.187	1.163	1.178	0.035	1.4*
	Top	0.989	0.029	0.190	0.000	0.000	1.208
	Bottom	0.100	0.073	0.005	0.172	0.000	0.350
	Right	0.994	0.150	0.000	0.127	0.000	1.271
	Left	0.081	0.001	0.206	0.000	0.000	0.288

Table 11-94
Cellular Band Ant 3 Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	802.15.4 Ant 4a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.161	1.163	1.178	0.035	1.359*
	Top	0.989	0.070	0.190	0.000	0.000	1.249
	Bottom	0.100	0.026	0.005	0.172	0.000	0.303
	Right	0.994	0.000	0.000	0.127	0.000	1.121
	Left	0.081	0.128	0.206	0.000	0.000	0.415

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Table 11-95
Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 2a with 6 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.992	0.187	0.245	1.178	0.035	1.4*
	Top	0.993	0.029	0.033	0.000	0.000	1.055
	Bottom	0.004	0.073	0.005	0.172	0.000	0.254
	Right	0.024	0.150	0.000	0.127	0.000	0.301
	Left	0.086	0.001	0.046	0.000	0.000	0.133

Table 11-96
Cellular Band Ant 4b Simultaneous Transmission Scenario with 802.15.4, 6 GHz WIFI MIMO and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	802.15.4 Ant 4a with 7 dB backoff SAR (W/kg)	6 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	6 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.992	0.125	0.245	1.178	0.035	1.397*
	Top	0.993	0.050	0.033	0.000	0.000	1.076
	Bottom	0.004	0.026	0.005	0.172	0.000	0.207
	Right	0.024	0.000	0.000	0.127	0.000	0.151
	Left	0.086	0.104	0.046	0.000	0.000	0.236

Table 11-97
Cellular Band Ant 1 Simultaneous Transmission Scenario with NB U-NII and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	NB U-NII Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.990	1.171	0.035	1.206*
	Top	0.030	0.000	0.000	0.030
	Bottom	0.850	0.151	0.000	1.001
	Right	0.063	0.369	0.000	0.432
	Left	0.987	0.000	0.000	0.987

Table 11-98
Cellular Band Ant 2b Simultaneous Transmission Scenario with NB U-NII and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB U-NII Ant 2a with 3 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.993	0.529	0.035	1.557
	Top	0.010	0.000	0.000	0.010
	Bottom	0.994	0.054	0.000	1.048
	Right	0.060	0.216	0.000	0.276
	Left	0.039	0.000	0.000	0.039

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Table 11-99
Cellular Band Ant 3 Simultaneous Transmission Scenario with NB U-NII and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	NB U-NII Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.988	1.171	0.035	1.206*
	Top	0.989	0.000	0.000	0.989
	Bottom	0.100	0.151	0.000	0.251
	Right	0.994	0.369	0.000	1.363
	Left	0.081	0.000	0.000	0.081

Table 11-100
Cellular Band Ant 4b Simultaneous Transmission Scenario with NB U-NII and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	NB U-NII Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	1+2+3
Body SAR	Back	0.992	1.171	0.035	1.206*
	Top	0.993	0.000	0.000	0.993
	Bottom	0.004	0.151	0.000	0.155
	Right	0.024	0.369	0.000	0.393
	Left	0.086	0.000	0.000	0.086

Table 11-101
Cellular Band Ant 1 Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 1 SAR (W/kg)	NB U-NII Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.990	0.273	1.183	1.178	0.035	1.486*
	Top	0.030	0.000	0.427	0.028	0.000	0.485
	Bottom	0.850	0.033	0.024	0.548	0.000	1.455
	Right	0.063	0.095	0.000	1.016	0.000	1.174
	Left	0.987	0.000	0.989	0.000	0.000	0.989*

Table 11-102
Cellular Band Ant 2b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 2b SAR (W/kg)	NB U-NII Ant 2a with 7 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	2.4 GHz WIFI Ant 2a with 5.5 dB backoff SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.993	0.241	1.183	0.323	0.035	1.592*
	Top	0.010	0.000	0.427	0.028	0.000	0.465
	Bottom	0.994	0.022	0.024	0.155	0.000	1.195
	Right	0.060	0.082	0.000	0.288	0.000	0.430
	Left	0.039	0.000	0.989	0.000	0.000	1.028

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Table 11-103
Cellular Band Ant 3 Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 3 SAR (W/kg)	NB U-NII Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.988	0.273	1.183	1.178	0.035	1.486*
	Top	0.989	0.000	0.427	0.028	0.000	1.444
	Bottom	0.100	0.033	0.024	0.548	0.000	0.705
	Right	0.994	0.095	0.000	1.016	0.000	1.111*
	Left	0.081	0.000	0.989	0.000	0.000	1.070

Table 11-104
Cellular Band Ant 4b Simultaneous Transmission Scenario with NB U-NII, 2.4 GHz WIFI and wPT

Simult Tx	Configuration	Cellular Band Ant 4b SAR (W/kg)	NB U-NII Ant 2a with 6 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 4a with 5.5 dB backoff SAR (W/kg)	2.4 GHz WIFI Ant 2a SAR (W/kg)	wPT SAR (W/kg)	∑ SAR (W/kg)
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.992	0.273	0.298	1.178	0.035	1.486*
	Top	0.993	0.000	0.116	0.028	0.000	1.137
	Bottom	0.004	0.033	0.024	0.548	0.000	0.609
	Right	0.024	0.095	0.000	1.016	0.000	1.135
	Left	0.086	0.000	0.254	0.000	0.000	0.340

11.4 Spatial Separation Analysis

Per FCC KDB Publication 248227, antennas may be considered spatially separated when the aggregate SAR from multiple antennas at any location in the combined SAR distribution is either ≤ 1.2 W/kg where at least 90% of the SAR is attributed to a single SAR distribution or ≤ 0.4 W/kg where no more than one SAR distribution is contributing > 0.1 W/kg.

Spatial separation was determined by inspection of the area scan SAR distributions to confirm that at all locations, SAR was < 1.2 W/kg, where at least 90% of the SAR is attributed to a single SAR distribution. See below for illustrations of the spatial separated antennas considered.

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11.4.1 Back Side Spatial Separation Analysis

Figure 11-1
Back Side Spatial Separation for Antenna 1 and Antenna 2a

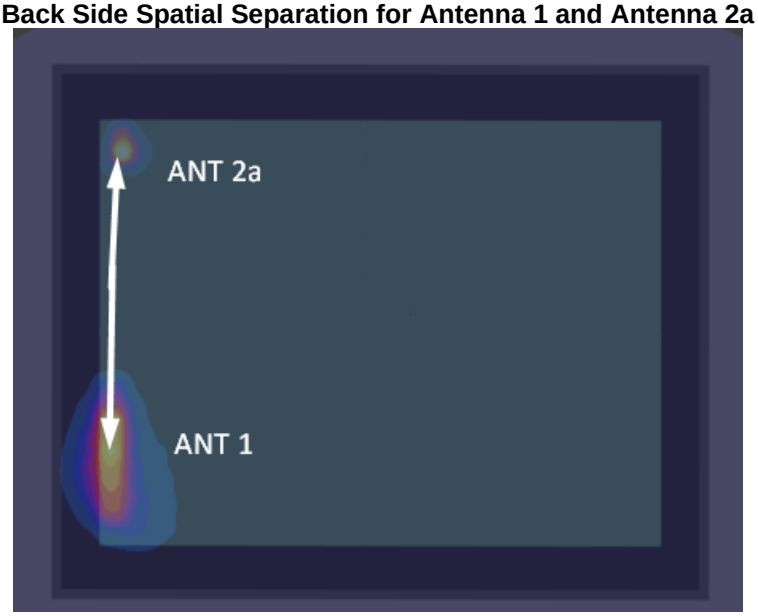

Figure 11-2
Back Side Spatial Separation for Antenna 1 and Antenna 4a

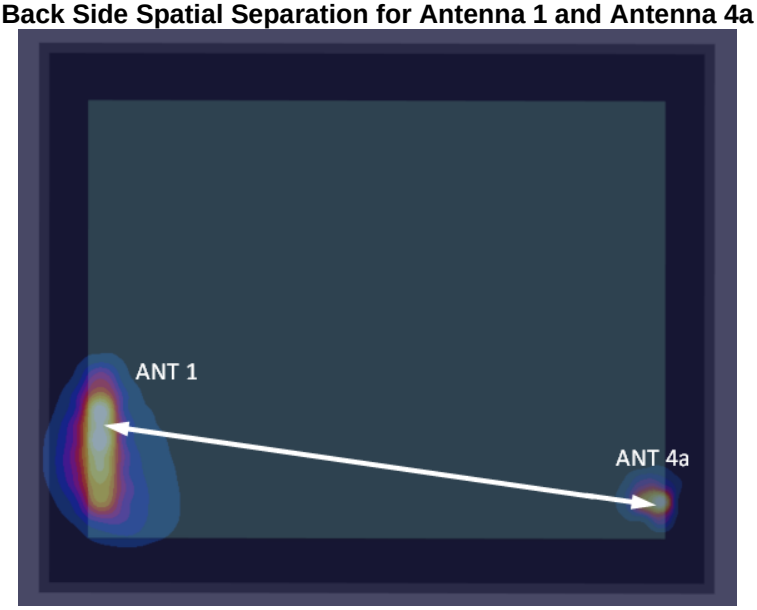

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Figure 11-3
Back Side Spatial Separation for Antenna 1 and Antenna WF5B

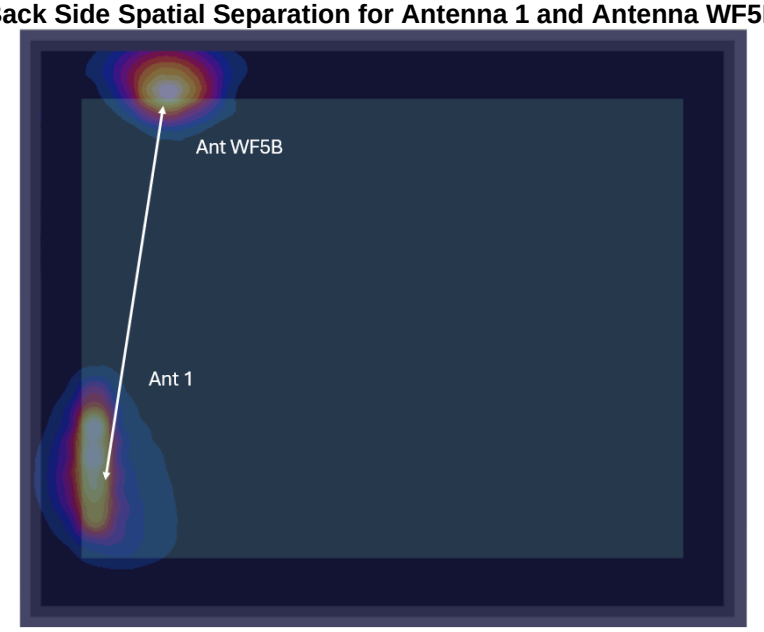

Figure 11-4
Back Side Spatial Separation for Antenna 2a and Antenna 3

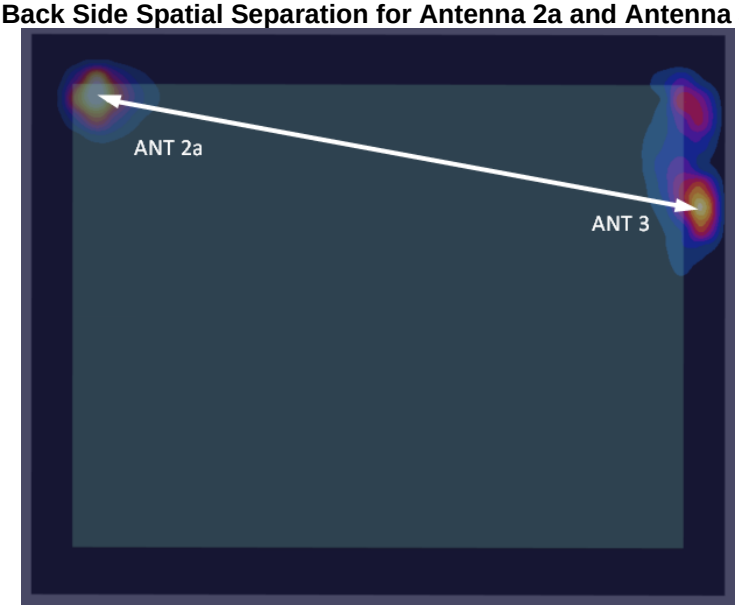

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Figure 11-5
Back Side Spatial Separation for Antenna 2a and Antenna 4a

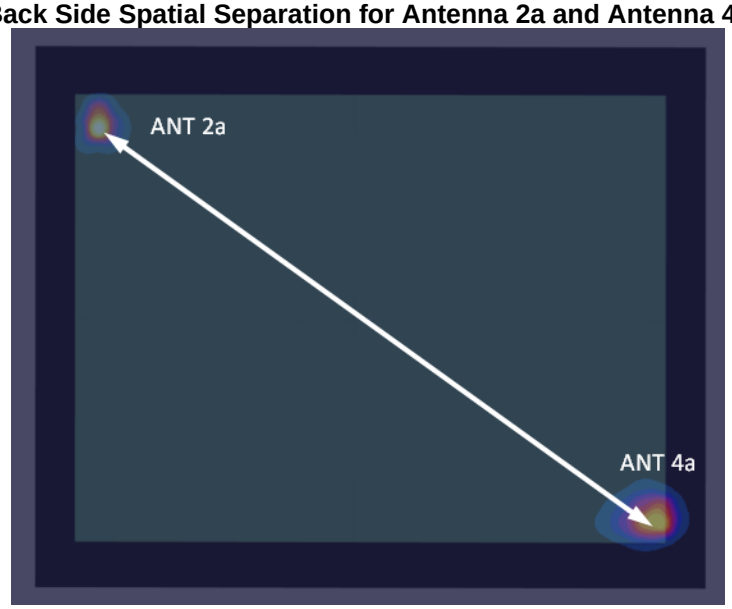

Figure 11-6
Back Side Spatial Separation for Antenna 2a and Antenna 4b

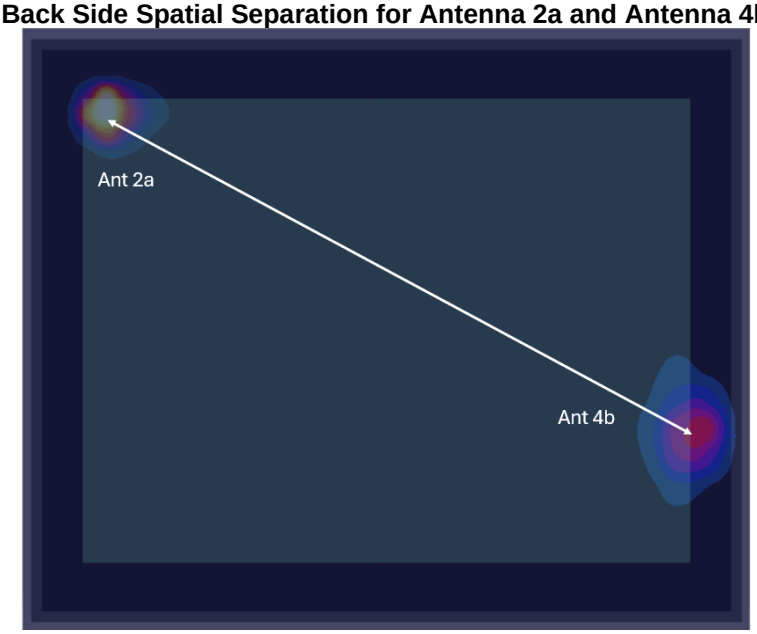

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Figure 11-7
Back Side Spatial Separation for Antenna 2a and Antenna WF5B

Antenna Pair		Standalone Values		Standalone Sum	Peak Separation Distance (mm)	SPLS Ratio
		Exposure Ratio (ER)	Exposure Ratio (ER)			
Ant "a"	Ant "b"	a	b	a+b	D_{a-b}	$(a+b)^{1.5}/D_{a-b}$
2.4 GHz WIFI/a Ant 2a	NB U-NII 3/a Ant WF5B	1.178	0.016	1.194	30.59	0.04
2.4 GHz Bluetooth/a Ant 2a	5 GHz WIFI/a Ant WF5B	1.114	0.182	1.296	57.05	0.03
2.4 GHz Bluetooth/a Ant 2a	6 GHz WIFI/a Ant WF5B	1.114	0.157	1.271	61.9	0.02
802.15.4/a Ant 2a	5 GHz WIFI/a Ant WF5B	1.181	0.182	1.363	55.09	0.03
802.15.4/a Ant 2a	6 GHz WIFI/a Ant WF5B	1.181	0.157	1.338	59.95	0.03
6 GHz WIFI/a Ant 2a	6 GHz WIFI/a Ant WF5B	1.178	0.157	1.335	66.21	0.02

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Figure 11-8
Back Side Spatial Separation for Antenna 2b and Antenna 4a

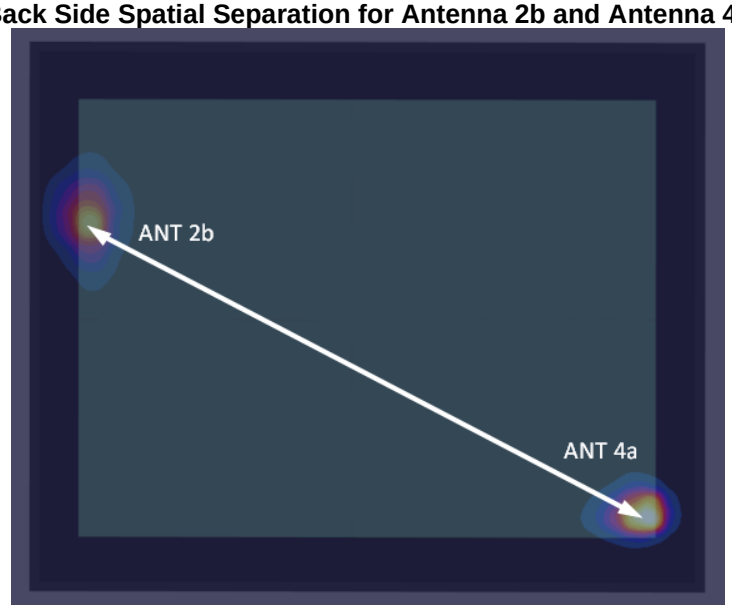

Figure 11-9
Back Side Spatial Separation for Antenna 2b and Antenna WF5B

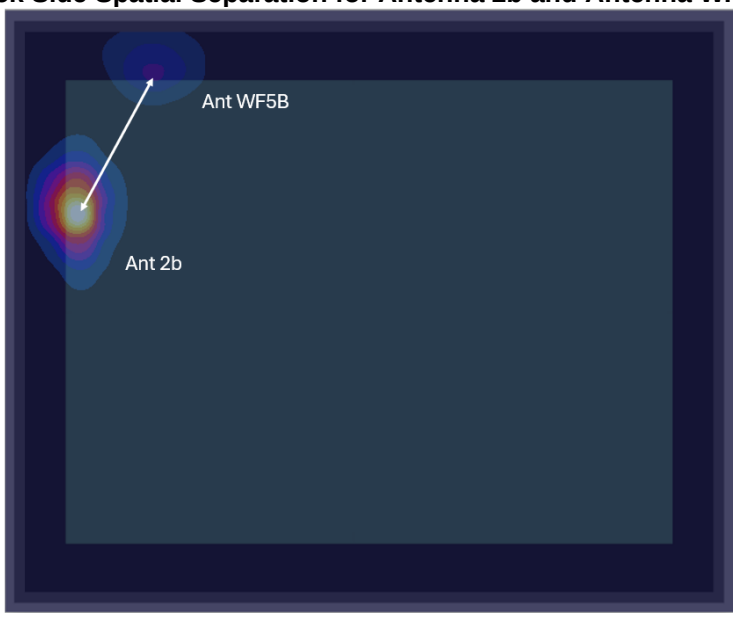

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Figure 11-10
Back Side Spatial Separation for Antenna 3 and Antenna 4a

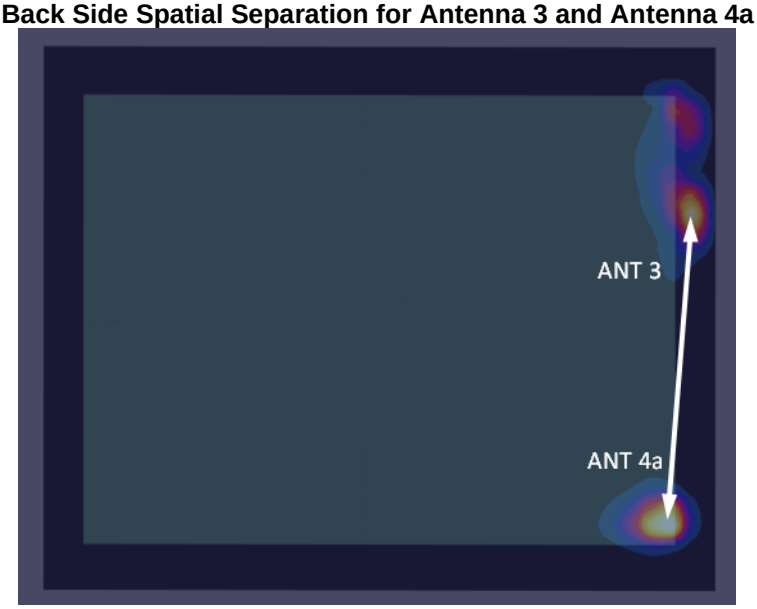

Figure 11-4
Back Side Spatial Separation for Antenna 3 and Antenna WF5B

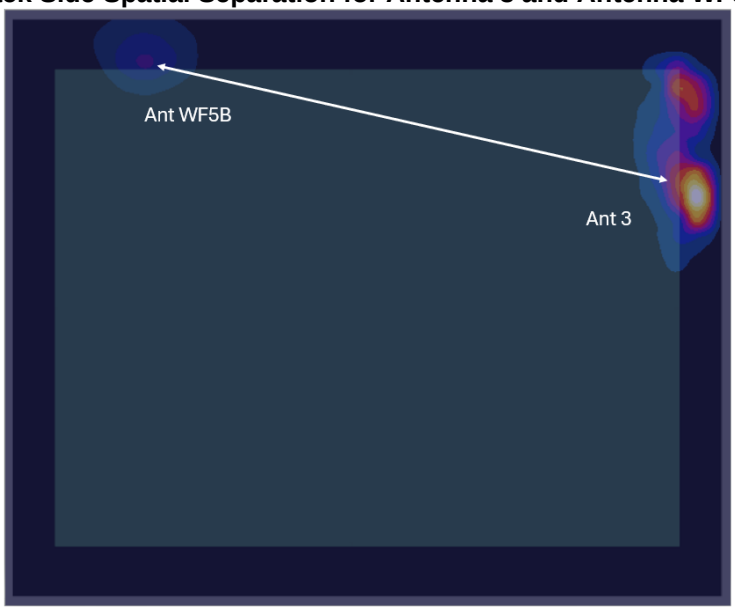

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Figure 11-5
Back Side Spatial Separation for Antenna 4a and Antenna WF5B

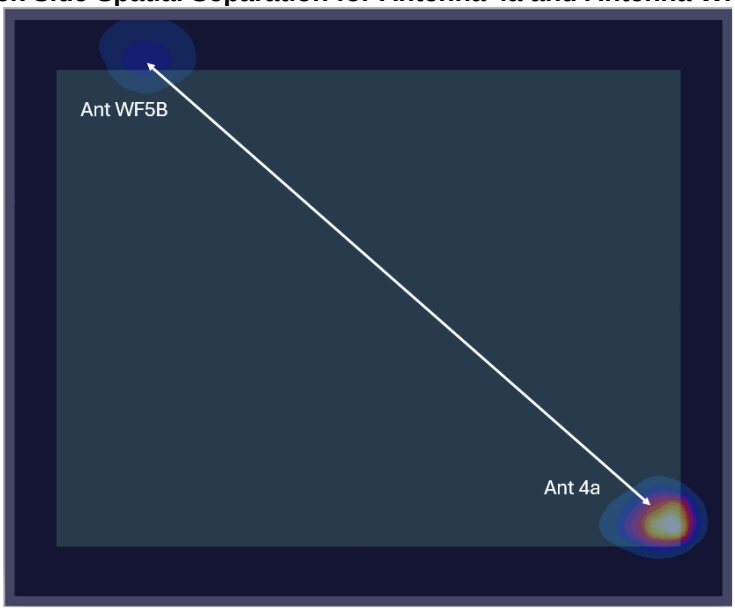
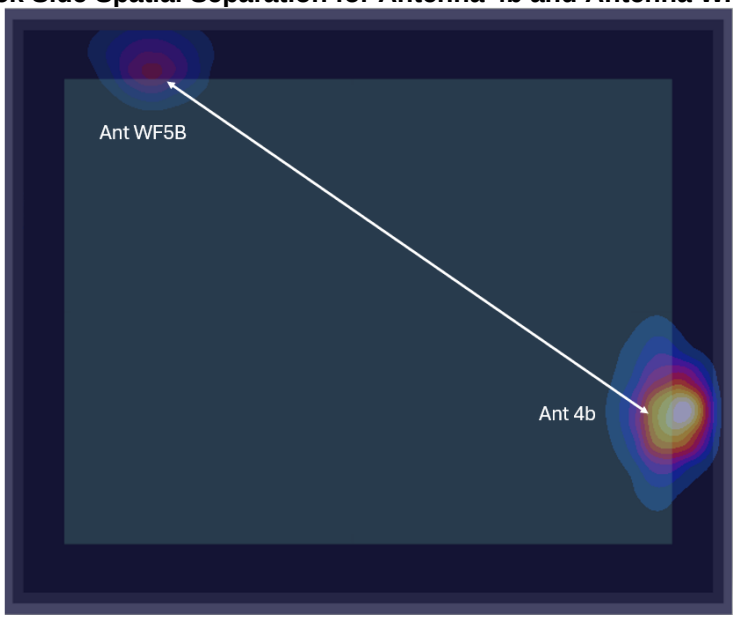


Figure 11-6
Back Side Spatial Separation for Antenna 4b and Antenna WF5B



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11.4.2 Right Edge Spatial Separation Analysis

Figure 11-7
Right Edge Spatial Separation for Antenna 2a and Antenna 3

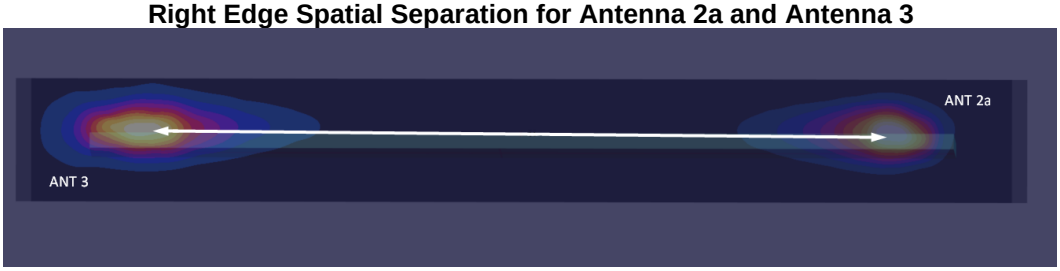
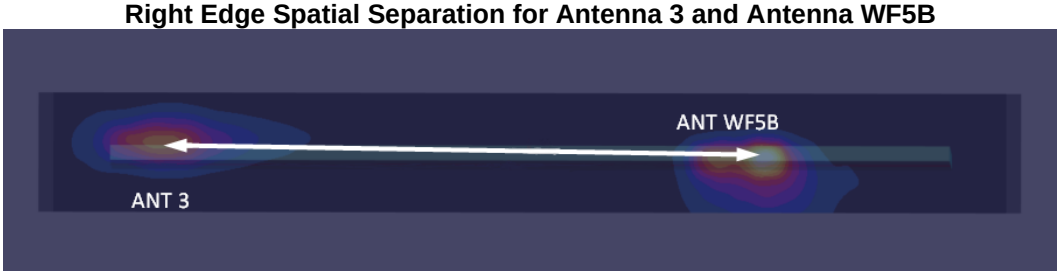
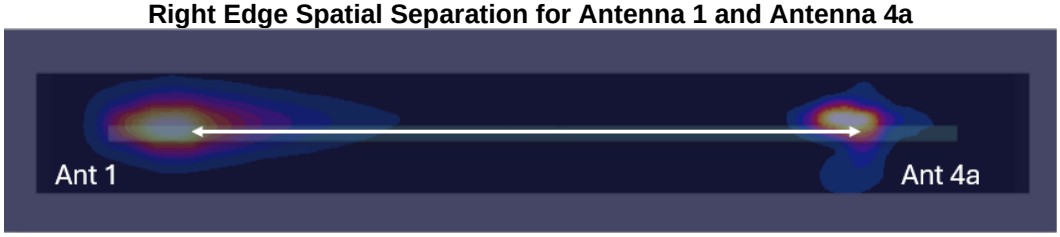


Figure 11-8
Right Edge Spatial Separation for Antenna 3 and Antenna WF5B



11.4.3 Left Edge Spatial Separation Analysis

Figure 11-9
Right Edge Spatial Separation for Antenna 1 and Antenna 4a



11.5 Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528-2013 Section 6.3.4.1.2.

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12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

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

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

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

Table 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS																
Band	FREQUENCY		Mode	Service	Ant	Data Rate (Mbps)	Side	Spacing	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	707.5	23095	LTE Band 12, 10 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Ant 3	N/A	Top	0 mm	0.933	0.890	1.05	N/A	N/A	N/A	N/A
835	826.40	4132	UMTS 850	RMC	Ant 1	N/A	Back	0 mm	0.905	0.892	1.01	N/A	N/A	N/A	N/A
1750	1745.00	349000	NR Band n66, 40 MHz Bandwidth	QPSK, 1 RB, 1 RB Offset	Ant 3	N/A	Right	0 mm	0.910	0.909	1.00	N/A	N/A	N/A	N/A
1900	1882.50	376500	NR Band n25, 40 MHz Bandwidth	QPSK, 216 RB, 0 RB Offset	Ant 4b	N/A	Top	0 mm	0.878	0.860	1.02	N/A	N/A	N/A	N/A
2300	2310.00	462000	NR Band n30, 10 MHz Bandwidth	QPSK, 1 RB, 1 RB Offset	Ant 3	N/A	Back	0 mm	0.936	0.925	1.01	N/A	N/A	N/A	N/A
2450	2475.00	25	802.15.4, N/A MHz Bandwidth	CW	Ant 2a	0.25	Back	0 mm	1.410	1.280	1.10	N/A	N/A	N/A	N/A
2600	2560.00	21350	LTE Band 7, 20 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Ant 1	N/A	Back	0 mm	0.948	0.931	1.02	N/A	N/A	N/A	N/A
3500	3570.00	638000	NR Band n48, 40 MHz Bandwidth	QPSK, 1 RB, 104 RB Offset	Ant 2b	N/A	Bottom	0 mm	0.800	0.672	1.19	N/A	N/A	N/A	N/A
3700	3690.00	56640	LTE Band 48, 20 MHz Bandwidth	QPSK, 1 RB, 50 RB Offset	Ant 4b	N/A	Top	0 mm	0.919	0.881	1.04	N/A	N/A	N/A	N/A
3900	3930.00	662000	NR Band n77, 100 MHz Bandwidth	QPSK, 135 RB, 0 RB Offset	Ant 2b	N/A	Bottom	0 mm	0.975	0.863	1.13	N/A	N/A	N/A	N/A
5250	5290.00	58	5 GHz WIFI/IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant 2a	29.30	Back	0 mm	1.130	1.120	1.01	N/A	N/A	N/A	N/A
5600	5530.00	106	5 GHz WIFI/IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant 4a	29.30	Back	0 mm	0.995	0.994	1.00	N/A	N/A	N/A	N/A
5750	5733.00	Low	NB U-NII 3, N/A MHz Bandwidth	FHSS	Ant 4a	1.00	Back	0 mm	1.100	1.100	1.00	N/A	N/A	N/A	N/A
5850	5844.00	High	NB U-NII 3, N/A MHz Bandwidth	FHSS	Ant 4a	1.00	Back	0 mm	0.989	0.943	1.05	N/A	N/A	N/A	N/A
6500	6665.00	143	6 GHz WIFI/ IEEE 802.11ax, 160 MHz Bandwidth	OFDM	Ant 2a	68.10	Back	0 mm	1.140	1.100	1.04	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						

12.2 Measurement Uncertainty

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

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13 ADDITIONAL TESTING PER FCC GUIDANCE

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

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

Table 13-1
LTE Band 41 Body Linearity Data – Antenna 1

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.20	16.80
Measured Output Power (dBm)	14.10	15.66
Measured SAR (W/kg)	0.701	0.671
Measured Power (mW)	25.70	36.81
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	16.27	15.94
% deviation from expected linearity		-2.29%

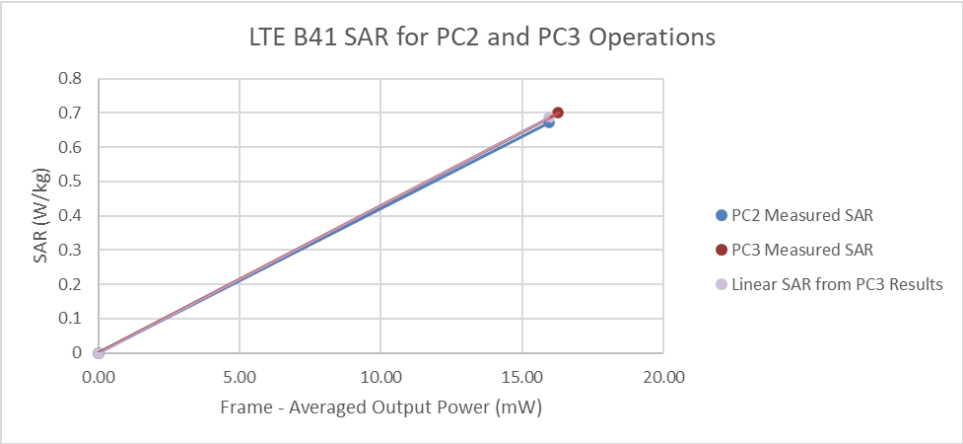

Figure 13-1
LTE Band 41 Body Linearity – Antenna 1

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Table 13-2
LTE Band 41 ULCA Body Linearity Data – Antenna 1

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.2	16.8
Measured Output Power (dBm)	13.95	15.70
Measured SAR (W/kg)	0.645	0.661
Measured Power (mW)	24.83	37.15
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	15.72	16.09
% deviation from expected linearity		0.13%

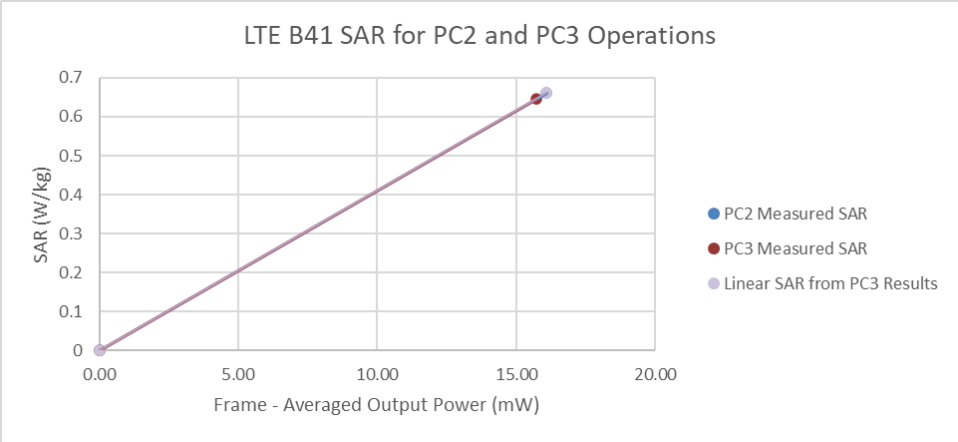

Figure 13-2
LTE Band 41 ULCA Body Linearity – Antenna 1

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Table 13-3
LTE Band 41 Body Linearity Data – Antenna 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.5	16.1
Measured Output Power (dBm)	13.81	15.17
Measured SAR (W/kg)	0.844	0.758
Measured Power (mW)	24.04	32.89
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	15.22	14.24
% deviation from expected linearity		-4.01%

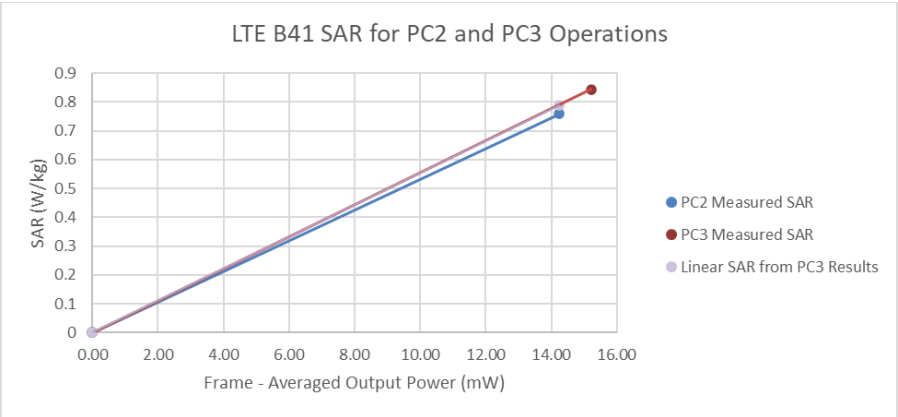

Figure 13-3
LTE Band 41 Body Linearity – Antenna 2b

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Table 13-4
LTE Band 41 ULCA Body Linearity Data – Antenna 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.5	16.1
Measured Output Power (dBm)	13.63	15.11
Measured SAR (W/kg)	0.799	0.730
Measured Power (mW)	23.07	32.43
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.60	14.04
% deviation from expected linearity		-5.01%

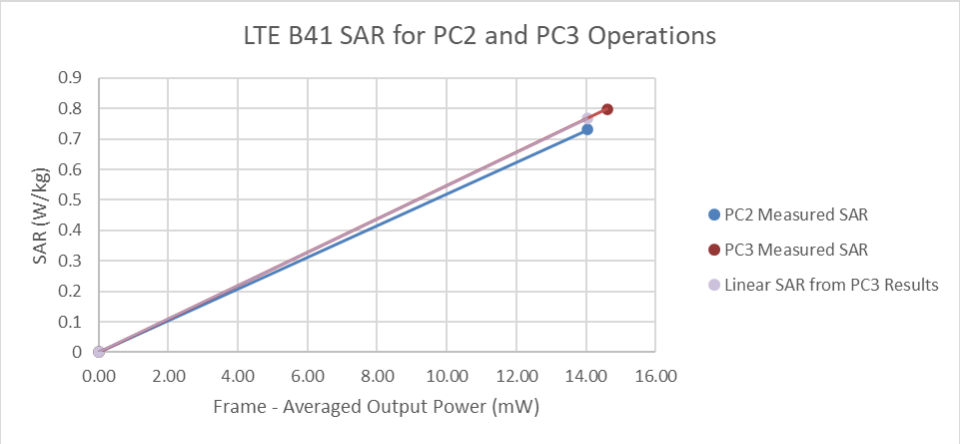

Figure 13-4
LTE Band 41 ULCA Body Linearity – Antenna 2b

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Table 13-5
LTE Band 41 Body Linearity Data – Antenna 3

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.20	15.80
Measured Output Power (dBm)	13.28	14.63
Measured SAR (W/kg)	0.736	0.689
Measured Power (mW)	21.28	29.04
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.47	12.57
% deviation from expected linearity		0.29%

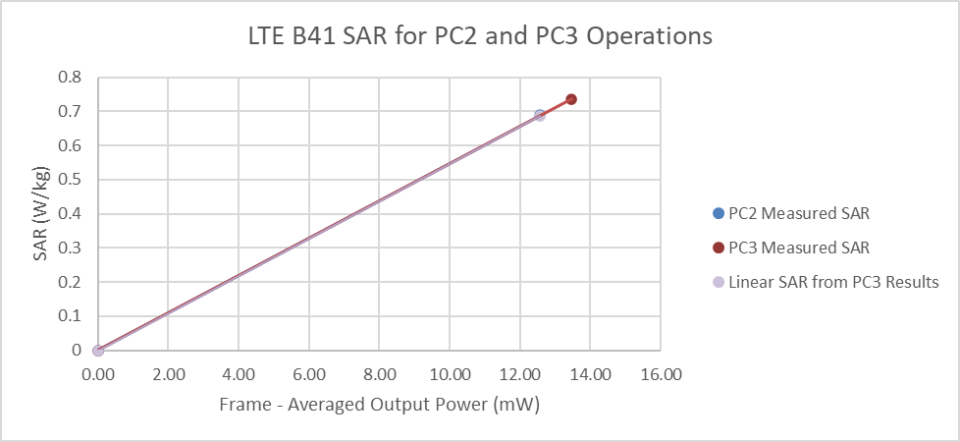

Figure 13-5
LTE Band 41 Body Linearity – Antenna 3

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Table 13-6
LTE Band 41 ULCA Body Linearity Data – Antenna 3

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.2	15.8
Measured Output Power (dBm)	13.33	14.62
Measured SAR (W/kg)	0.778	0.691
Measured Power (mW)	21.53	28.97
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	13.63	12.55
% deviation from expected linearity		-3.53%

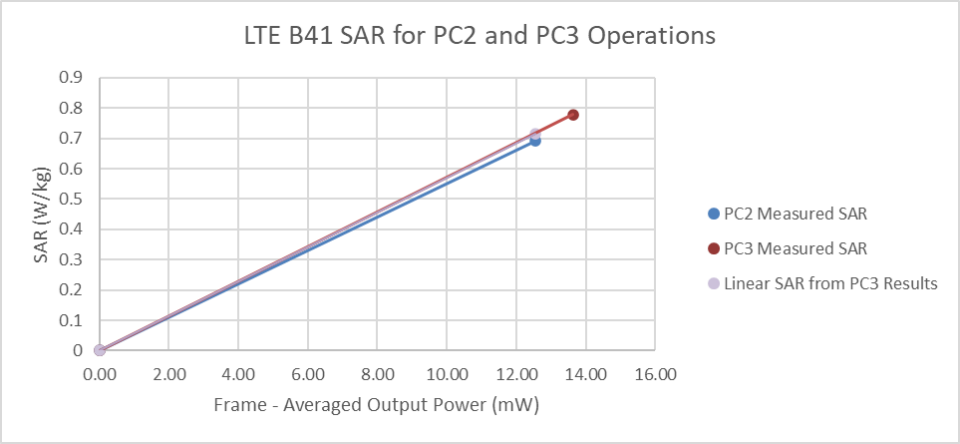

Figure 13-6
LTE Band 41 ULCA Body Linearity – Antenna 3

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Table 13-7
LTE Band 41 Body Linearity Data – Antenna 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.40	15.00
Measured Output Power (dBm)	12.09	13.85
Measured SAR (W/kg)	0.673	0.629
Measured Power (mW)	16.18	24.27
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	10.24	10.51
% deviation from expected linearity		-8.89%

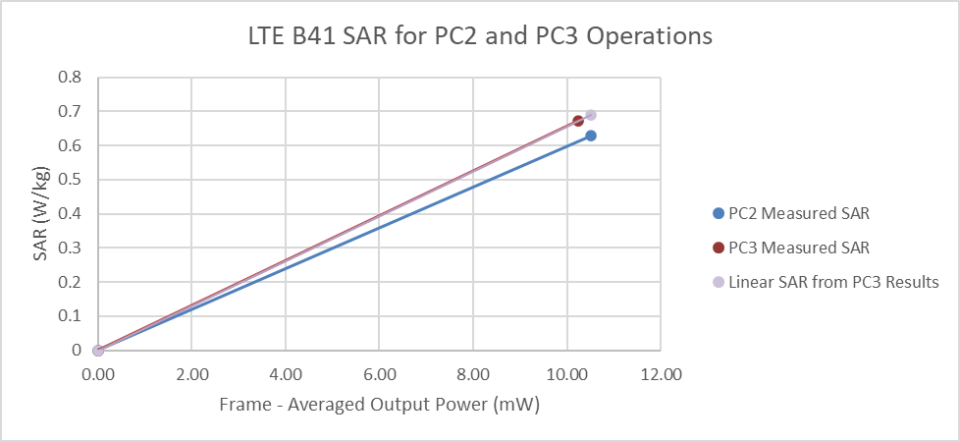

Figure 13-7
LTE Band 41 Body Linearity – Antenna 4b

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Table 13-8
LTE Band 41 ULCA Body Linearity Data – Antenna 4b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.4	15.0
Measured Output Power (dBm)	12.22	14.15
Measured SAR (W/kg)	0.677	0.700
Measured Power (mW)	16.67	26.00
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	10.55	11.26
% deviation from expected linearity		-3.08%

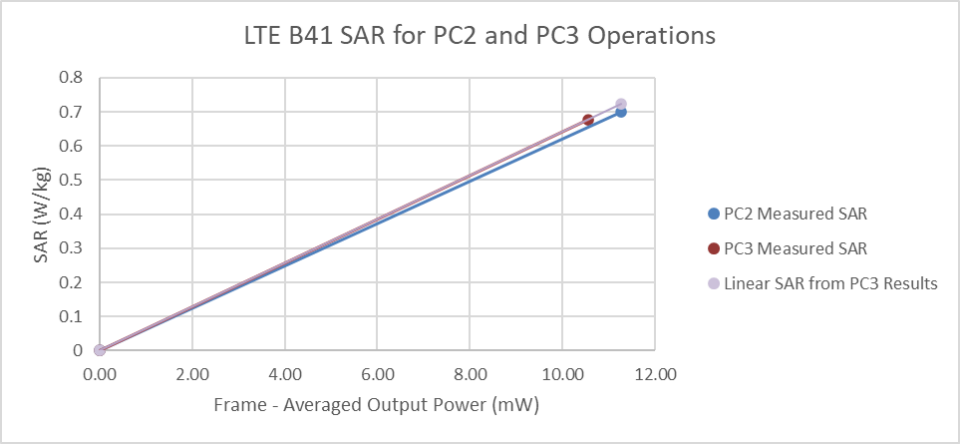

Figure 13-8
LTE Band 41 ULCA Body Linearity – Antenna 4b

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14 EQUIPMENT LIST

Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
E4438C	ESG Vector Signal Generator	11/14/2023	Annual	11/14/2024	MY45093852
E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY45092078
N5182A	MXG Vector Signal Generator	10/12/2023	Annual	10/12/2024	MY47400015
N5182A	MXG Vector Signal Generator	7/4/2023	Annual	7/4/2024	MY48180366
8753ES	S-Parameter Vector Network Analyzer	3/6/2023	Annual	3/6/2024	MY40000670
8753ES	S-Parameter Vector Network Analyzer	1/12/2023	Annual	1/12/2024	MY40001472
E5515C	Wireless Communications Test Set	CBT	N/A	CBT	U54114025 6
E5515C	Wireless Communications Test Set	1/13/2023	Annual	1/13/2024	MY50262130
N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
1551G6	Amplifier	CBT	N/A	CBT	433973
1551G6	Amplifier	CBT	N/A	CBT	433974
150A100C	Amplifier	CBT	N/A	CBT	350132
MN8110B	I/O Adaptor	CBT	N/A	CBT	626174788 1
ML2496A	Power Meter	6/15/2023	Annual	6/15/2024	1138001
ML2496A	Power Meter	4/4/2023	Annual	4/4/2024	1840005
MA2411B	Pulse Power Sensor	8/22/2023	Annual	8/22/2024	1726262
MA2411B	Pulse Power Sensor	11/8/2023	Annual	11/8/2024	1027293
MT8821C	Radio Communication Analyzer MT8821C	12/15/2023	Annual	12/15/2024	6200901190
MT8821C	Radio Communication Analyzer MT8821C	7/7/2023	Annual	7/7/2024	626204471 5
MT8821C	Radio Communication Analyzer MT8821C	7/5/2023	Annual	7/5/2024	626215000 0
MT8821C	Radio Communication Analyzer MT8821C	3/31/2023	Annual	3/31/2024	6201381794
MT8000A	Radio Communication Test Station	3/21/2023	Annual	3/21/2024	6261987983
MT8000A	Radio Communication Test Station	4/6/2023	Annual	4/6/2024	6272337439
MT8000A	Radio Communication Test Station	3/1/2023	Annual	3/1/2024	6272337419
MA24106A	USB Power Sensor	6/15/2023	Annual	6/15/2024	1827530
MA24106A	USB Power Sensor	12/4/2023	Annual	12/4/2024	1520501
4052	Long Stem Thermometer	10/16/2023	Biennial	10/16/2025	230703247
4052	Long Stem Thermometer	10/16/2023	Biennial	10/16/2025	230702935
4052	Long Stem Thermometer	2/17/2023	Biennial	2/17/2025	230111049
4040	Therm./ Clock/ Humidity Monitor	1/17/2023	Annual	1/17/2024	160574418
500-196-30	CD-6"ASX 6inch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
N6705B	DC Power Analyzer	5/5/2021	Triennial	5/5/2024	MY53004059
N9020A	MXA Signal Analyzer	4/6/2023	Annual	4/6/2024	MY48010233
N9020A	MXA Signal Analyzer	4/26/2022	Biennial	4/26/2024	MY56470202
BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
VLF-6000+	Low Pass Filter DC to 6000 MHz	7/5/2023	Annual	7/5/2024	31634
BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
NC-100	Torque Wrench	CBT	N/A	CBT	22217
NC-100	Torque Wrench	CBT	N/A	CBT	1262
CMW500	Wideband Radio Communication Tester	CBT	N/A	CBT	120504
CMW500	Wideband Radio Communication Tester	1/12/2023	Annual	1/12/2024	131453
CMW500	Wideband Radio Communication Tester	7/4/2023	Annual	7/4/2024	166818
CMW500	Wideband Radio Communication Tester	7/17/2023	Annual	7/17/2024	171008
DAK-3.5	Dielectric Assessment Kit	11/13/2023	Annual	11/13/2024	1277
DAKS-3.5	Portable Dielectric Assessment Kit	8/14/2023	Annual	8/14/2024	1041
MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/13/2023	Annual	3/13/2024	1102
CLA-13	Confined Loop Antenna	11/9/2023	Annual	11/9/2024	1004
D1750V2	1750 MHz SAR Dipole	11/17/2022	Biennial	11/17/2024	1040
D1900V2	1900 MHz SAR Dipole	5/16/2022	Biennial	5/16/2024	5d030
D2300V2	2300 MHz SAR Dipole	3/15/2021	Triennial	3/15/2024	1038
D2300V2	2300 MHz SAR Dipole	11/14/2023	Annual	11/14/2024	1064
D2450V2	2450 MHz SAR Dipole	11/8/2021	Triennial	11/9/2024	921
D2450V2	2450 MHz SAR Dipole	11/15/2022	Biennial	11/15/2024	855
D2450V2	2450 MHz SAR Dipole	5/11/2022	Biennial	5/11/2024	750
D2600V2	2600 MHz SAR Dipole	5/11/2022	Biennial	5/11/2024	1042
D2600V2	2600 MHz SAR Dipole	11/15/2022	Biennial	11/15/2024	1068
D3500V2	3500 MHz SAR Dipole	6/9/2021	Triennial	6/9/2024	1126
D3700V2	3700 MHz SAR Dipole	6/9/2021	Triennial	6/9/2024	1097
D3900V2	3900 MHz SAR Dipole	6/10/2021	Triennial	6/10/2024	1073
D5GHzV2	5 GHz SAR Dipole	3/22/2022	Biennial	3/22/2024	1123
D5GHzV2	5 GHz SAR Dipole	11/17/2022	Biennial	11/17/2024	1066
D6.5GHzV2	6 GHz SAR Dipole	10/11/2023	Annual	10/11/2024	1019
D750V3	750 MHz SAR Dipole	9/13/2023	Annual	9/13/2024	1097
D750V3	750 MHz SAR Dipole	5/16/2022	Annual	5/16/2024	1057
D750V3	750 MHz SAR Dipole	5/11/2021	Triennial	5/11/2024	1034
D835V2	835 MHz SAR Dipole	5/16/2022	Biennial	5/16/2024	4d040
D835V2	835 MHz SAR Dipole	11/18/2022	Biennial	11/18/2024	4d108
5G Verification Source	10GHz System Verification Antenna	3/7/2023	Annual	3/7/2024	1002
DAE4	Dasy Data Acquisition Electronics	5/11/2023	Annual	5/11/2024	1683
DAE4	Dasy Data Acquisition Electronics	9/12/2023	Annual	9/12/2024	1684
DAE4	Dasy Data Acquisition Electronics	5/11/2023	Annual	5/11/2024	701
DAE4	Dasy Data Acquisition Electronics	2/15/2023	Annual	2/15/2024	467
DAE4	Dasy Data Acquisition Electronics	4/14/2023	Annual	4/14/2024	501
DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	1333
DAE4	Dasy Data Acquisition Electronics	3/15/2023	Annual	3/15/2024	604
DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	1237
DAE4	Dasy Data Acquisition Electronics	4/14/2023	Annual	4/14/2024	1582
DAE4	Dasy Data Acquisition Electronics	4/14/2023	Annual	4/14/2024	1402
DAE4	Dasy Data Acquisition Electronics	3/15/2023	Annual	3/15/2024	534
DAE4	Dasy Data Acquisition Electronics	9/8/2023	Annual	9/8/2024	1646
DAE4	Dasy Data Acquisition Electronics	11/14/2023	Annual	11/14/2024	1403
DAE4	Dasy Data Acquisition Electronics	10/18/2023	Annual	10/18/2024	793
EX3DV4	SAR Probe	4/18/2023	Annual	4/18/2024	7532
EX3DV4	SAR Probe	10/2/2023	Annual	10/2/2024	3949
EX3DV4	SAR Probe	5/8/2023	Annual	5/8/2024	7416
EX3DV4	SAR Probe	10/16/2023	Annual	10/16/2024	7420
EX3DV4	SAR Probe	10/16/2023	Annual	10/16/2024	3746
EX3DV4	SAR Probe	4/13/2023	Annual	4/13/2024	7357
EX3DV4	SAR Probe	3/16/2023	Annual	3/16/2024	7421
EX3DV4	SAR Probe	2/13/2023	Annual	2/13/2024	7308
EX3DV4	SAR Probe	5/11/2023	Annual	5/11/2024	7682
EX3DV4	SAR Probe	11/9/2023	Annual	11/9/2024	7639
EX3DV4	SAR Probe	4/14/2023	Annual	4/14/2024	7546
EX3DV4	SAR Probe	3/16/2023	Annual	3/16/2024	7360
EX3DV4	SAR Probe	1/19/2023	Annual	1/19/2024	7782
EX3DV4	SAR Probe	2/9/2024	Annual	2/9/2025	7427
EUmmWV3	EUmmWV3 Probe	10/9/2023	Annual	10/9/2024	9407

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

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15 MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements < 6 GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c_i 1gm	c_i 10 gms	1gm u_i (± %)	10gms u_i (± %)	v_i
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)			RSS				12.2	12.0	191
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 > 6 GHz:

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	E2.1	9.3	N	1	1	1	9.3	9.3	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	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 MechanicalOffset	0.00	R	1.73	1	0.00	∞
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field Impedence Dependance	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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16 CONCLUSION

16.1 Measurement Conclusion

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

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

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17 REFERENCES

[1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation, Aug. 1996.

[2] ANSI/IEEE C95.1-2005, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, 2006.

[3] ANSI/IEEE C95.1-1992, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, Sept. 1992.

[4] ANSI/IEEE C95.3-2002, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave, New York: IEEE, December 2002.

[5] IEEE Standards Coordinating Committee 39 –Standards Coordinating Committee 34 – IEEE Std. 1528-2013, IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

[6] NCRP, National Council on Radiation Protection and Measurements, Biological Effects and Exposure Criteria for RadioFrequency Electromagnetic Fields, NCRP Report No. 86, 1986. Reprinted Feb. 1995.

[7] T. Schmid, O. Egger, N. Kuster, Automated E-field scanning system for dosimetric assessments, IEEE Transaction on Microwave Theory and Techniques, vol. 44, Jan. 1996, pp. 105-113.

[8] K. Pokovic, T. Schmid, N. Kuster, Robust setup for precise calibration of E-field probes in tissue simulating liquids at mobile communications frequencies, ICECOM97, Oct. 1997, pp. 1 -124.

[9] K. Pokovic, T. Schmid, and N. Kuster, E-field Probe with improved isotropy in brain simulating liquids, Proceedings of the ELMAR, Zadar, Croatia, June 23-25, 1996, pp. 172-175.

[10] Schmid & Partner Engineering AG, Application Note: Data Storage and Evaluation, June 1998, p2.

[11] V. Hombach, K. Meier, M. Burkhardt, E. Kuhn, N. Kuster, The Dependence of EM Energy Absorption upon Human Modeling at 900 MHz, IEEE Transaction on Microwave Theory and Techniques, vol. 44 no. 10, Oct. 1996, pp. 1865-1873.

[12] N. Kuster and Q. Balzano, Energy absorption mechanism by biological bodies in the near field of dipole antennas above 300MHz, IEEE Transaction on Vehicular Technology, vol. 41, no. 1, Feb. 1992, pp. 17-23.

[13] G. Hartsgrove, A. Kraszewski, A. Surowiec, Simulated Biological Materials for Electromagnetic Radiation Absorption Studies, University of Ottawa, Bioelectromagnetics, Canada: 1987, pp. 29-36.

[14] Q. Balzano, O. Garay, T. Manning Jr., Electromagnetic Energy Exposure of Simulated Users of Portable Cellular Telephones, IEEE Transactions on Vehicular Technology, vol. 44, no.3, Aug. 1995.

[15] W. Gander, Computermathematick, Birkhaeuser, Basel, 1992.

[16] W.H. Press, S.A. Teukolsky, W.T. Vetterling, and B.P. Flannery, Numerical Recipes in C, The Art of Scientific Computing, Second edition, Cambridge University Press, 1992.

[17] N. Kuster, R. Kastle, T. Schmid, Dosimetric evaluation of mobile communications equipment with known precision, IEEE Transaction on Communications, vol. E80-B, no. 5, May 1997, pp. 645-652.

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[18] CENELEC CLC/SC111B, European Prestandard (prENV 50166-2), Human Exposure to Electromagnetic Fields High-frequency: 10kHz-300GHz, Jan. 1995.

[19] Prof. Dr. Niels Kuster, ETH, Eidgenössische Technische Hoschschule Zürich, Dosimetric Evaluation of the Cellular Phone.

[20] IEC 62209-1, Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz), July 2016.

[21] Innovation, Science, Economic Development Canada RSS-102 Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) Issue 5, March 2015.

[22] Health Canada Safety Code 6 Limits of Human Exposure to Radio Frequency Electromagnetic Fields in the Frequency Range from 3 kHz – 300 GHz, 2015

[23] FCC SAR Test Procedures for 2G-3G Devices, Mobile Hotspot and UMPC Devices KDB Publications 941225, D01-D07

[24] SAR Measurement Guidance for IEEE 802.11 Transmitters, KDB Publication 248227 D01

[25] FCC SAR Considerations for Handsets with Multiple Transmitters and Antennas, KDB Publications 648474 D03-D04

[26] FCC SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers, FCC KDB Publication 616217 D04

[27] FCC SAR Measurement and Reporting Requirements for 100MHz – 6 GHz, KDB Publications 865664 D01-D02

[28] FCC General RF Exposure Guidance and SAR Procedures for Dongles, KDB Publication 447498, D01-D02

[29] Anexo à Resolução No. 533, de 10 de Septembro de 2009.

[30] IEC 62209-2, Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz), Mar. 2010.

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