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RF EXPOSURE PART 1 TEST REPORT

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

Date of Testing:
10/23/2024 – 11/23/2024
Test Report Issue Date:
01/24/2025
Test Site/Location:
Element, Morgan Hill, CA, USA
Document Serial No.:
1C2410210073-02.BCG-R2

FCC ID: **BCGA3267**

APPLICANT: **APPLE, INC.**

DUT Type: Tablet Device
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Models: A3267, A3270

Equipment Class	Band & Mode	Tx Frequency	SAR 1g (W/kg)
PCE	LTE5 (B5)	824.7 - 848.3 MHz	0.60
PCE	LTE7 (B7)	2502.5 - 2567.5 MHz	0.63
PCE	LTE12 (B12)	699.7 - 715.3 MHz	0.59
PCE	LTE13 (B13)	779.5 - 784.5 MHz	0.59
PCE	LTE Band 14	790.5 - 795.5 MHz	0.60
PCE	LTE Band 17	706.5 - 713.5 MHz	0.59
PCE	LTE Band 26	814.7 - 848.3 MHz	0.60
PCE	LTE Band 41	2496.5 - 2687.5 MHz	0.63
PCE	LTE Band 48 (UL)	3552.5 - 3698.5 MHz	0.63
PCE	LTE Band 48 (DL)	3552.5 - 3698.5 MHz	0.63
PCE	LTE Band 66	1712.5 - 1777.5 MHz	0.63
PCE	LTE Band 71	663.5 - 698.5 MHz	0.59
PCE	WCDMA Band II	1852.4 - 1907.6 MHz	0.63
PCE	WCDMA Band IV	1712.4 - 1754.6 MHz	0.63
PCE	WCDMA Band V	826.4 - 846.6 MHz	0.60
PCE	WCDMA Band VI	829.4 - 839.6 MHz	0.60
PCE	LTE Band 38 (UL)	2572.5 - 2617.5 MHz	0.63
PCE	LTE Band 38 (DL)	2572.5 - 2617.5 MHz	0.63
PCE	LTE Band 25 (UL)	1850.7 - 1914.3 MHz	0.63
PCE	LTE Band 25 (DL)	1850.7 - 1914.3 MHz	0.63
PCE	LTE Band 30	2307.5 - 2312.5 MHz	0.63
PCE	LTE Band 4	2110.0 - 2155.0 MHz	0.63
PCE	LTE Band 2	1930.7 - 1989.3 MHz	0.63
PCE	LTE Band 46	5145.0 - 5855.0 MHz	0.63
PCE	NR Band n5	824.5 - 848.5 MHz	0.60
PCE	NR Band n77	3815.0 - 4215.0 MHz	0.63
PCE	NR Band n13	779.5 - 784.5 MHz	0.59
PCE	NR Band n48	3552.5 - 3698.5 MHz	0.63
PCE	NR Band n71	663.5 - 698.5 MHz	0.59
PCE	NR Band n2	1852.4 - 1907.6 MHz	0.63
PCE	NR Band n66	1712.5 - 1777.5 MHz	0.63
PCE	NR Band n26	814.7 - 848.3 MHz	0.60
PCE	NR Band n41	2496.5 - 2687.5 MHz	0.63
PCE	NR Band n38	2572.5 - 2617.5 MHz	0.63
PCE	NR Band n25	1850.7 - 1914.3 MHz	0.63
PCE	NR Band n30	2307.5 - 2312.5 MHz	0.63
PCE	NR Band n7	2500.5 - 2569.5 MHz	0.63
PCE	NR Band n4	1710.0 - 1755.0 MHz	0.63
PCE	NR Band n46	5145.0 - 5855.0 MHz	0.63
DTS	2.4 GHz WiFi	2412 - 2472 MHz	1.13
NII	5 GHz WiFi	5150 - 5250 MHz 5180-5.8A: 5180 - 5220 MHz 5180-5C: 5500 - 5720 MHz 5180-6: 5955 - 6415 MHz	1.13
6GDSRA	6 GHz WiFi	5180-6: 5955 - 6415 MHz 5180-6: 6435 - 6515 MHz 5180-7: 6535 - 6875 MHz 5180-8: 7025 - 7125 MHz	1.13
6GDSRA	2.4 GHz Bluetooth	2402 - 2480 MHz	1.13
BTLE	802.15.4	2405 - 2480 MHz	1.13
NB	NB-IoT(B1)	1922 - 1978 MHz	0.63
NB	NB-IoT(B5)	824.7 - 848.3 MHz	0.60
UWB	ieee	3.5-10 GHz	1.13
Supplemental SAR per KDB 447498 D06v01r01			**1.13**

Equipment Class	Band & Mode	Tx Frequency	EIRP (dBm/10)
6CDD	6 GHz WiFi	5180-6: 5955 - 6415 MHz 5180-6: 6435 - 6515 MHz 5180-7: 6535 - 6875 MHz 5180-8: 7025 - 7125 MHz	7.17

Equipment Class	Band & Mode	Tx Frequency	Reported PD (W/m²2)
6CDD	6 GHz WiFi	5180-6: 5955 - 6415 MHz 5180-6: 6435 - 6515 MHz 5180-7: 6535 - 6875 MHz 5180-8: 7025 - 7125 MHz	7.08

Note: This revised Test Report supersedes and replaces the previously issued test report on the sane 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

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	2501.01 - 2685.0 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: 5935 - 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 for this EUT is shown below.

1g SAR (W/kg)			
Mode/Band/Antenna	***Smart Tx Uncertainty***	***SAR_design_target***	***SAR_regulatory_limit***
UMTS 850 Ant 3b	0.7 dB	0.86 W/kg	1.6 W/kg
LTE Band 71 Ant 3b	0.7 dB	0.86 W/kg	
LTE Band 12 Ant 3b	0.7 dB	0.86 W/kg	
LTE Band 17 Ant 3b	0.7 dB	0.86 W/kg	
LTE Band 13 Ant 3b	0.7 dB	0.86 W/kg	
LTE Band 14 Ant 3b	0.7 dB	0.86 W/kg	
LTE Band 26 Ant 3b	0.7 dB	0.86 W/kg	
LTE Band 5 Ant 3b	0.7 dB	0.86 W/kg	
NR Band 71 Ant 3b	0.7 dB	0.86 W/kg	
NR Band 12 Ant 3b	0.7 dB	0.86 W/kg	
NR Band 14 Ant 3b	0.7 dB	0.86 W/kg	
NR Band 26 Ant 3b	0.7 dB	0.86 W/kg	
NR Band 5 Ant 3b	0.7 dB	0.86 W/kg	
UMTS 850 Ant 4	0.7 dB	0.86 W/kg	
LTE Band 12 Ant 4	0.7 dB	0.86 W/kg	
LTE Band 17 Ant 4	0.7 dB	0.86 W/kg	
LTE Band 26 Ant 4	0.7 dB	0.86 W/kg	
LTE Band 5 Ant 4	0.7 dB	0.86 W/kg	
NR Band 12 Ant 4	0.7 dB	0.86 W/kg	
NR Band 26 Ant 4	0.7 dB	0.86 W/kg	
NR Band 5 Ant 4	0.7 dB	0.86 W/kg	
All other modes/bands/antennas	1.0 dB	0.80 W/kg	

*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 for conducted powers tolerance.

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Exposure Scenario:	Ant 1a	Ant 1a Maximum Tune-up Output Power*	Ant 1b	Ant 1b Maximum Tune-up Output Power*	Ant 2a	Ant 2a Maximum Tune-up Output Power*	Ant 2b	Ant 2b Maximum Tune-up Output Power*	Ant 3a	Ant 3a Maximum Tune-up Output Power*	Ant 3b	Ant 3b Maximum Tune-up Output Power*	Ant 4	Ant 4 Maximum Tune-up Output Power*
Averaging Volume:	1g		1g		1g		1g		1g		1g		1g	
Spacing:	0 mm		0 mm		0 mm		0 mm		0 mm		0 mm		0 mm	
DSI:	1		1		1		1		1		1		1	
Technology/Band	Plimit corresponding to SAR design target	Pmax	Plimit corresponding to SAR design target	Pmax	Plimit corresponding to SAR design target	Pmax	Plimit corresponding to SAR design target	Pmax	Plimit corresponding to SAR design target	Pmax	Plimit corresponding to SAR design target	Pmax	Plimit corresponding to SAR design target	Pmax
UMTS 850	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.40	24.50	18.00	25.00
UMTS 1750	N/A	N/A	11.30	23.00	N/A	N/A	12.50	23.50	12.80	24.00	N/A	N/A	14.20	25.00
UMTS 1900	N/A	N/A	11.80	23.00	N/A	N/A	12.90	23.50	13.80	24.00	N/A	N/A	13.80	25.00
LTE Band 71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.00	24.50	20.30	25.00
LTE Band 12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.10	24.50	18.70	25.00
LTE Band 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.10	24.50	18.70	25.00
LTE Band 13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.50	24.50	18.20	25.00
LTE Band 14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.50	24.50	18.20	25.00
LTE Band 26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.40	24.50	18.00	25.00
LTE Band 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.00	24.50	18.00	25.00
LTE Band 5 ULCA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.00	24.50	18.00	25.00
LTE Band 4	N/A	N/A	12.10	24.00	N/A	N/A	12.50	25.00	12.80	24.00	N/A	N/A	14.20	25.00
LTE Band 66	N/A	N/A	12.10	24.00	N/A	N/A	12.50	25.00	12.80	24.00	N/A	N/A	14.20	25.00
LTE Band 2	N/A	N/A	11.80	23.00	N/A	N/A	12.90	23.50	13.80	24.00	N/A	N/A	13.80	25.00
LTE Band 25	N/A	N/A	11.80	23.00	N/A	N/A	12.90	23.50	13.80	24.00	N/A	N/A	13.80	25.00
LTE Band 30	N/A	N/A	12.60	22.50	N/A	N/A	13.20	23.50	10.90	19.80	N/A	N/A	10.80	21.00
LTE Band 7	N/A	N/A	12.50	22.50	N/A	N/A	13.20	23.50	10.30	24.00	N/A	N/A	11.40	25.00
LTE Band 7 ULCA	N/A	N/A	12.50	22.50	N/A	N/A	13.20	23.50	10.30	24.00	N/A	N/A	11.40	25.00
LTE Band 41 (PC3)	N/A	N/A	12.7	23.0	N/A	N/A	13.3	23.0	10.8	23.0	N/A	N/A	11.9	23.0
LTE Band 41 (PC3) ULCA	N/A	N/A	12.7	23.0	N/A	N/A	13.3	23.0	10.8	23.0	N/A	N/A	11.9	23.0
LTE Band 41 (PC2)	N/A	N/A	12.7	22.9	N/A	N/A	13.3	24.4	10.8	22.4	N/A	N/A	11.9	23.4
LTE Band 41 (PC2) ULCA	N/A	N/A	12.7	22.9	N/A	N/A	13.3	24.4	10.8	22.4	N/A	N/A	11.9	23.4
LTE Band 48	10.5	19.5	N/A	N/A	8.0	16.9	N/A	N/A	N/A	N/A	11.9	16.2	11.5	20.0
LTE Band 48 ULCA	10.5	19.5	N/A	N/A	8.0	16.9	N/A	N/A	N/A	N/A	11.9	16.2	11.5	20.0
NR Band n71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.40	24.50	20.80	25.00
NR Band n12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.10	24.50	18.70	25.00
NR Band n14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.50	24.50	18.20	25.00
NR Band n26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.00	24.50	18.00	25.00
NR Band n5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.00	24.50	18.00	25.00
NR Band n70	N/A	N/A	11.30	24.00	N/A	N/A	12.50	25.00	12.80	24.00	N/A	N/A	14.20	25.00
NR Band n66	N/A	N/A	11.30	24.00	N/A	N/A	12.50	25.00	12.80	24.00	N/A	N/A	14.20	25.00
NR Band n2	N/A	N/A	11.80	23.00	N/A	N/A	12.90	23.50	13.80	24.00	N/A	N/A	13.80	25.00
NR Band n25	N/A	N/A	11.80	23.00	N/A	N/A	12.90	23.50	13.80	24.00	N/A	N/A	13.80	25.00
NR Band n30	N/A	N/A	12.60	22.50	N/A	N/A	13.20	23.50	10.90	19.80	N/A	N/A	10.80	21.00
NR Band n7	N/A	N/A	12.50	22.50	N/A	N/A	13.20	23.50	10.30	24.00	N/A	N/A	11.40	25.00
NR Band n41 (PC3)	N/A	N/A	12.20	25.00	N/A	N/A	12.80	25.00	11.00	25.00	N/A	N/A	11.40	25.00
NR Band n41 (PC2)	N/A	N/A	12.20	26.50	N/A	N/A	12.80	28.00	11.00	26.00	N/A	N/A	11.40	27.00
NR Band n77 (PC3)	8.50	22.50	N/A	N/A	7.20	22.50	N/A	N/A	N/A	N/A	10.50	24.70	8.80	24.70
NR Band n77 (PC2)	8.50	22.50	N/A	N/A	7.20	22.50	N/A	N/A	N/A	N/A	10.50	25.60	8.80	25.50
NR Band n48	9.60	21.50	N/A	N/A	8.10	18.90	N/A	N/A	N/A	N/A	11.30	18.20	11.30	22.00

*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).

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}" + 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.

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 Bluetooth/802.15.4/NB UNII/WLAN is operating simultaneously with certain combinations of 3G/4G/5G and 5/6 GHz WLAN antennas, the output power 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.

1.4 Nominal and Maximum Output Power Specifications

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

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1.4.1 WWAN Output Power

Table 1-1
UMTS B5 (850 MHz)

Mode/Band			Modulated Average Output Power (in dBm)	
			Ant 4	Ant 3b
UMTS Band 5 (850 MHz)	Max allowed power	3GPP WCDMA Rel 99	**18.70**	**17.10**
	Nominal		**18.00**	**16.40**
	Max allowed power	3GPP HSDPA Rel 5	**18.70**	**17.10**
	Nominal		**18.00**	**16.40**
	Max allowed power	3GPP HSUPA Rel 6	**18.70**	**17.10**
	Nominal		**18.00**	**16.40**
	Max allowed power	3GPP DC-HSDPA Rel 8	**18.70**	**17.10**
	Nominal		**18.00**	**16.40**

Table 1-2
UMTS B4 (1750 MHz)

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 4	Ant 2b	Ant 3a	Ant 1b
UMTS Band 4 (1750 MHz)	Max allowed power	3GPP WCDMA Rel 99	**15.20**	**13.50**	**13.80**	**12.30**
	Nominal		**14.20**	**12.50**	**12.80**	**11.30**
	Max allowed power	3GPP HSDPA Rel 5	**15.20**	**13.50**	**13.80**	**12.30**
	Nominal		**14.20**	**12.50**	**12.80**	**11.30**
	Max allowed power	3GPP HSUPA Rel 6	**15.20**	**13.50**	**13.80**	**12.30**
	Nominal		**14.20**	**12.50**	**12.80**	**11.30**
	Max allowed power	3GPP DC-HSDPA Rel 8	**15.20**	**13.50**	**13.80**	**12.30**
	Nominal		**14.20**	**12.50**	**12.80**	**11.30**

Table 1-3
UMTS B2 (1900 MHz)

Mode/Band			Modulated Average Output Power (in dBm)			
			Ant 4	Ant 2b	Ant 3a	Ant 1b
UMTS Band 2 (1900 MHz)	Max allowed power	3GPP WCDMA Rel 99	**14.80**	**13.90**	**14.80**	**12.80**
	Nominal		**13.80**	**12.90**	**13.80**	**11.80**
	Max allowed power	3GPP HSDPA Rel 5	**14.80**	**13.90**	**14.80**	**12.80**
	Nominal		**13.80**	**12.90**	**13.80**	**11.80**
	Max allowed power	3GPP HSUPA Rel 6	**14.80**	**13.90**	**14.80**	**12.80**
	Nominal		**13.80**	**12.90**	**13.80**	**11.80**
	Max allowed power	3GPP DC-HSDPA Rel 8	**14.80**	**13.90**	**14.80**	**12.80**
	Nominal		**13.80**	**12.90**	**13.80**	**11.80**

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Table 1-4
LTE Bands

Mode / Band		Modulated Average Output Power (in dBm)						
		Ant 4	Ant 3b	Ant 3a	Ant 2a	Ant 2b	Ant 1a	Ant 1b
LTE FDD Band 71	Max allowed power	21.30	18.70					
	Nominal	20.30	18.00					
LTE FDD Band 12	Max allowed power	19.40	17.80					
	Nominal	18.70	17.10					
LTE FDD Band 17	Max allowed power	19.40	17.80					
	Nominal	18.70	17.10					
LTE FDD Band 13	Max allowed power	19.20	17.20					
	Nominal	18.20	16.50					
LTE FDD Band 14	Max allowed power	19.20	17.20					
	Nominal	18.20	16.50					
LTE FDD Band 26	Max allowed power	18.70	17.10					
	Nominal	18.00	16.40					
LTE FDD Band 5	Max allowed power	18.70	16.70					
	Nominal	18.00	16.00					
LTE FDD Band 5 Intra-band ULCA	Max allowed power	18.70	16.70					
	Nominal	18.00	16.00					
LTE FDD Band 4	Max allowed power	15.20		13.80		13.50		13.10
	Nominal	14.20		12.80		12.50		12.10
LTE FDD Band 66	Max allowed power	15.20		13.80		13.50		13.10
	Nominal	14.20		12.80		12.50		12.10
LTE FDD Band 2	Max allowed power	14.80		14.80		13.90		12.80
	Nominal	13.80		13.80		12.90		11.80
LTE FDD Band 25	Max allowed power	14.80		14.80		13.90		12.80
	Nominal	13.80		13.80		12.90		11.80
LTE FDD Band 30	Max allowed power	11.80		11.90		14.20		13.60
	Nominal	10.80		10.90		13.20		12.60
LTE FDD Band 7	Max allowed power	12.40		11.30		14.20		13.50
	Nominal	11.40		10.30		13.20		12.50
LTE FDD Band 7 Intra-band ULCA	Max allowed power	12.40		11.30		14.20		13.50
	Nominal	11.40		10.30		13.20		12.50
LTE TDD Band 41 (PC3)	Max allowed power	14.90		13.80		16.30		15.70
	Nominal	13.90		12.80		15.30		14.70
LTE TDD Band 41 (PC3) Intra-band ULCA	Max allowed power	14.90		13.80		16.30		15.70
	Nominal	13.90		12.80		15.30		14.70
LTE TDD Band 41 (PC2)	Max allowed power	16.50		15.40		17.90		17.30
	Nominal	15.50		14.40		16.90		16.30
LTE TDD Band 41 (PC2) Intra-band ULCA	Max allowed power	16.50		15.40		17.90		17.30
	Nominal	15.50		14.40		16.90		16.30
LTE TDD Band 48	Max allowed power	14.50	14.90		11.00		13.50	
	Nominal	13.50	13.90		10.00		12.50	
LTE TDD Band 48 Intra-band ULCA	Max allowed power	14.50	14.90		11.00		13.50	
	Nominal	13.50	13.90		10.00		12.50	

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Table 1-5
NR Bands

Mode / Band		Modulated Average Output Power (in dBm)						
		Ant 4	Ant 3b	Ant 3a	Ant 2a	Ant 2b	Ant 1a	Ant 1b
NR FDD Band n71	Max allowed power	21.80	18.10					
	Nominal	20.80	17.40					
NR FDD Band n12	Max allowed power	19.40	17.80					
	Nominal	18.70	17.10					
NR FDD Band n14	Max allowed power	19.20	17.20					
	Nominal	18.20	16.50					
NR FDD Band n26	Max allowed power	18.70	16.70					
	Nominal	18.00	16.00					
NR FDD Band n5	Max allowed power	18.70	16.70					
	Nominal	18.00	16.00					
NR FDD Band n70	Max allowed power	15.20		13.80		13.50		12.30
	Nominal	14.20		12.80		12.50		11.30
NR FDD Band n66	Max allowed power	15.20		13.80		13.50		12.30
	Nominal	14.20		12.80		12.50		11.30
NR FDD Band n2	Max allowed power	14.80		14.80		13.90		12.80
	Nominal	13.80		13.80		12.90		11.80
NR FDD Band n25	Max allowed power	14.80		14.80		13.90		12.80
	Nominal	13.80		13.80		12.90		11.80
NR FDD Band n30	Max allowed power	11.80		11.90		14.20		13.60
	Nominal	10.80		10.90		13.20		12.60
NR FDD Band n7	Max allowed power	12.40		11.30		14.20		13.50
	Nominal	11.40		10.30		13.20		12.50
NR TDD Band n41 (PC3)[Burst Averaged]	Max allowed power	12.40		12.00		13.80		13.20
	Nominal	11.40		11.00		12.80		12.20
NR TDD Band n41 (PC2)[Burst Averaged]	Max allowed power	12.40		12.00		13.80		13.20
	Nominal	11.40		11.00		12.80		12.20
NR TDD Band n77 (PC3)[Burst Averaged]	Max allowed power	9.80	11.50		8.20		9.50	
	Nominal	8.80	10.50		7.20		8.50	
NR TDD Band n77 (PC2)[Burst Averaged]	Max allowed power	9.80	11.50		8.20		9.50	
	Nominal	8.80	10.50		7.20		8.50	
NR TDD Band n48	Max allowed power	12.30	12.30		9.10		10.60	
	Nominal	11.30	11.30		8.10		9.60	

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1.4.2 Maximum WLAN Time-Averaged Output Power

Note: Targets for 802.11ax RU operations can be found in 802.11ax RU SAR Exclusion Appendix.
Note: In MIMO operations, each antenna transmits at maximum allowed powers.

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1a											
		SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO	MIMO	MIMO	MIMO	MIMO
		b (Maximum)	b (Nominal)	g (Maximum)	g (Nominal)	n (Maximum)	n (Nominal)	ax SU (Maximum)	ax SU (Nominal)	g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	2	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	3	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	4	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	5	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	6	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	7	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	8	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	9	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	10	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	11	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	12	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75	11.25	9.75
	13	11.25	9.75	8.25	6.75	8.25	6.75	NS	NS	8.00	6.50	NS	NS

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a											
		SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO	MIMO	MIMO	MIMO	MIMO
		b	b (Nominal)	g (Maximum)	g (Nominal)	n (Maximum)	n (Nominal)	ax SU (Maximum)	ax SU (Nominal)	g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	2	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	3	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	4	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	5	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	6	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	7	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	8	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	9	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	10	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	11	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	12	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	13	12.25	10.75	8.25	6.75	8.25	6.75	NS	NS	8.00	6.50	NS	NS

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b													
		SISO	SISO	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	n/ac (Maximum)	n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)	a/n/ac (Maximum)	a/n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)	n/ac (Maximum)	n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)
5 GHz WIFI 20 MHz Bandwidth	36	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	40	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	44	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	48	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	52	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	56	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	60	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	64	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	100	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	104	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	108	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	112	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	116	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	120	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	124	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	128	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	132	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	136	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	140	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	144	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	149	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
	153	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
	157	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
	161	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
	165	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
5 GHz WIFI 40 MHz Bandwidth	38			10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	46			10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	54			9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	62			9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	102			8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	110			8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	118			8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	126			8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	134			8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	142			8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	151			9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
	159			9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
5 GHz WIFI 80 MHz Bandwidth	42			10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	58			9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	106			8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	122			8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	138			8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	155			9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75	9.25	7.75
5 GHz WIFI 160 MHz Bandwidth	50			9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	114			8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a													
		SISO	SISO	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	n/ac (Maximum)	n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)	a/n/ac (Maximum)	a/n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)	n/ac (Maximum)	n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)
5 GHz WIFI 20 MHz Bandwidth	36	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	40	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	44	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	48	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	52	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	56	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	60	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	64	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	100	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	104	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	108	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	112	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	116	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	120	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	124	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	128	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	132	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	136	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	140	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	144	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	149	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	153	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	157	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	161	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	165	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
5 GHz WIFI 40 MHz Bandwidth	38			10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	46			10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	54			10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	62			10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	102			9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	110			9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	118			9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	126			9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	134			9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	142			9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	151			10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	159			10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
5 GHz WIFI 80 MHz Bandwidth	42			10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	58			10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	106			9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	122			9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	138			9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25
	155			10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
5 GHz WIFI 160 MHz Bandwidth	50			10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50	10.00	8.50
	114			9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25	9.75	8.25

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3c													
		SISO	SISO	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	n/ac (Maximum)	n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)	a/n/ac (Maximum)	a/n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)	n/ac (Maximum)	n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)
5 GHz WIFI 20 MHz Bandwidth	36	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75
	40	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75
	44	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75
	48	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75
	52	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
	56	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
	60	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
	64	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
	100	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	104	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	108	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	112	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	116	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	120	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	124	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	128	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	132	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	136	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	140	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	144	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	149	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	153	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	157	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	161	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	165	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
5 GHz WIFI 40 MHz Bandwidth	38			16.00	14.50	15.00	13.50	15.50	14.00	14.50	13.00	15.50	14.00	14.50	13.00
	46			16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75	16.25	14.75
	54			15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
	62			15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00	15.50	14.00
	102			14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	110			14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	118			14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	126			14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	134			14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	142			14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	151			14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	159			14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
5 GHz WIFI 80 MHz Bandwidth	42			15.50	14.00	14.75	13.25	15.00	13.50	14.25	12.75	15.00	13.50	14.25	12.75
	58			15.50	14.00	15.50	14.00	15.50	14.00	15.25	13.75	15.50	14.00	15.25	13.75
	106			14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	122			14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	138			14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
	155			14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75	14.25	12.75
5 GHz WIFI 160 MHz Bandwidth	50			13.75	12.25	13.75	12.25	13.25	11.75	13.00	11.50	13.25	11.75	13.00	11.50
	114			14.25	12.75	14.25	12.75	13.50	12.00	13.00	11.50	13.50	12.00	13.00	11.50

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
	5	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
	9-29	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
	33-61	10.75	9.25	10.75	9.25	10.75	9.25	10.75	9.25
	65-85	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
	89	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
	93	11.00	9.50	11.00	9.50	11.00	9.50	11.00	9.50
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	10.50	9.00	10.50	9.00	10.50	9.00	10.50	9.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) SP	3			10.75	9.25	10.75	9.25	10.75	9.25
	11			10.75	9.25	10.75	9.25	10.75	9.25
	19-27			10.75	9.25	10.75	9.25	10.75	9.25
	35-59			10.75	9.25	10.75	9.25	10.75	9.25
	67-75			11.00	9.50	11.00	9.50	11.00	9.50
	83			11.00	9.50	11.00	9.50	11.00	9.50
	91			11.00	9.50	11.00	9.50	11.00	9.50
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			10.50	9.00	10.50	9.00	10.50	9.00
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) SP	7			10.75	9.25	10.75	9.25	10.75	9.25
	23			10.75	9.25	10.75	9.25	10.75	9.25
	39-55			10.75	9.25	10.75	9.25	10.75	9.25
	71			11.00	9.50	11.00	9.50	11.00	9.50
	87			11.00	9.50	11.00	9.50	11.00	9.50
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			11.00	9.50	11.00	9.50	11.00	9.50
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) SP	15			10.75	9.25	10.75	9.25	10.75	9.25
	47			10.75	9.25	10.75	9.25	10.75	9.25
	79			11.00	9.50	11.00	9.50	11.00	9.50
	111			NS	NS	NS	NS	NS	NS
	143			11.00	9.50	11.00	9.50	11.00	9.50
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	7.25	5.75	7.75	6.25	2.00	0.50	5.00	3.50
	5	7.25	5.75	7.75	6.25	2.00	0.50	5.00	3.50
	9-29	7.25	5.75	7.75	6.25	2.00	0.50	5.00	3.50
	33-61	6.75	5.25	7.25	5.75	2.00	0.50	5.00	3.50
	65-85	6.50	5.00	7.00	5.50	2.00	0.50	5.00	3.50
	89	6.50	5.00	7.00	5.50	2.00	0.50	5.00	3.50
	93	6.50	5.00	7.00	5.50	2.00	0.50	5.00	3.50
	97-113	6.25	4.75	6.75	5.25	2.00	0.50	4.75	3.25
	117-181	5.50	4.00	6.00	4.50	0.50	-1.00	3.50	2.00
	185	5.00	3.50	5.50	4.00	0.50	-1.00	3.50	2.00
	189-225	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
	229	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
	233	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
6 GHz WIFI (40MHz BW) LP	3			10.75	9.25	5.00	3.50	8.00	6.50
	11			10.75	9.25	5.00	3.50	8.00	6.50
	19-27			10.75	9.25	5.00	3.50	8.00	6.50
	35-59			10.25	8.75	5.00	3.50	8.00	6.50
	67-75			10.00	8.50	5.00	3.50	8.00	6.50
	83			10.00	8.50	5.00	3.50	8.00	6.50
	91			10.00	8.50	5.00	3.50	8.00	6.50
	99-107			9.75	8.25	5.00	3.50	7.75	6.25
	115			9.00	7.50	3.50	2.00	6.50	5.00
	123-179			9.00	7.50	3.50	2.00	6.50	5.00
	187			8.50	7.00	3.50	2.00	6.50	5.00
	195-219			8.50	7.00	4.75	3.25	7.50	6.00
	227			8.50	7.00	4.75	3.25	7.50	6.00
6 GHz WIFI (80MHz BW) LP	7			10.75	9.25	7.50	6.00	10.50	9.00
	23			10.75	9.25	7.50	6.00	10.50	9.00
	39-55			10.75	9.25	7.50	6.00	10.50	9.00
	71			11.00	9.50	7.50	6.00	10.50	9.00
	87			11.00	9.50	7.50	6.00	10.50	9.00
	103			10.50	9.00	7.50	6.00	10.25	8.75
	119			10.50	9.00	6.00	4.50	9.00	7.50
	135-167			11.00	9.50	6.00	4.50	9.00	7.50
	183			11.00	9.50	6.00	4.50	9.00	7.50
	199			11.00	9.50	7.25	5.75	10.00	8.50
	215			11.00	9.50	7.25	5.75	10.00	8.50
6 GHz WIFI (160MHz BW) LP	15			10.75	9.25	10.00	8.50	10.75	9.25
	47			10.75	9.25	10.00	8.50	10.75	9.25
	79			11.00	9.50	10.00	8.50	11.00	9.50
	111			10.50	9.00	8.50	7.00	10.50	9.00
	143			11.00	9.50	8.50	7.00	11.00	9.50
	175			12.50	11.00	8.50	7.00	11.50	10.00
	207			12.50	11.00	9.75	8.25	12.50	11.00

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	2.75	1.25	3.25	1.75	-2.00	-3.50	1.00	-0.50
	65-85	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	89	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	93	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	1.50	0.00	2.00	0.50	NS	NS	-0.50	-2.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) VLP	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
	35-59			6.25	4.75	1.00	-0.50	4.00	2.50
	67-75			6.00	4.50	1.00	-0.50	4.00	2.50
	83			6.00	4.50	1.00	-0.50	4.00	2.50
	91			6.00	4.50	1.00	-0.50	4.00	2.50
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			5.00	3.50	-0.50	-2.00	2.50	1.00
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) VLP	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			8.75	7.25	3.50	2.00	6.50	5.00
	71			8.50	7.00	3.50	2.00	6.50	5.00
	87			8.50	7.00	3.50	2.00	6.50	5.00
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			7.50	6.00	2.00	0.50	5.00	3.50
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) VLP	15			NS	NS	NS	NS	NS	NS
	47			10.75	9.25	6.00	4.50	9.00	7.50
	79			11.00	9.50	6.00	4.50	9.00	7.50
	111			NS	NS	NS	NS	NS	NS
	143			10.00	8.50	4.50	3.00	7.50	6.00
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	5	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	9-29	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	33-61	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	65-85	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	89	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	93	8.75	7.25	8.75	7.25	8.75	7.25	8.75	7.25
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	8.00	6.50	8.00	6.50	8.00	6.50	8.00	6.50
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) SP	3			9.50	8.00	9.50	8.00	9.50	8.00
	11			9.50	8.00	9.50	8.00	9.50	8.00
	19-27			9.50	8.00	9.50	8.00	9.50	8.00
	35-59			9.50	8.00	9.50	8.00	9.50	8.00
	67-75			8.75	7.25	8.75	7.25	8.75	7.25
	83			8.75	7.25	8.75	7.25	8.75	7.25
	91			8.75	7.25	8.75	7.25	8.75	7.25
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			8.00	6.50	8.00	6.50	8.00	6.50
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) SP	7			9.50	8.00	9.50	8.00	9.50	8.00
	23			9.50	8.00	9.50	8.00	9.50	8.00
	39-55			9.50	8.00	9.50	8.00	9.50	8.00
	71			8.75	7.25	8.75	7.25	8.75	7.25
	87			8.75	7.25	8.75	7.25	8.75	7.25
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			8.00	6.50	8.00	6.50	8.00	6.50
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) SP	15			9.50	8.00	9.50	8.00	9.50	8.00
	47			9.50	8.00	9.50	8.00	9.50	8.00
	79			8.75	7.25	8.75	7.25	8.75	7.25
	111			NS	NS	NS	NS	NS	NS
	143			8.00	6.50	8.00	6.50	8.00	6.50
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	7.25	5.75	7.75	6.25	2.00	0.50	5.00	3.50
	5	7.25	5.75	7.75	6.25	2.00	0.50	5.00	3.50
	9-29	7.25	5.75	7.75	6.25	2.00	0.50	5.00	3.50
	33-61	6.75	5.25	7.25	5.75	2.00	0.50	5.00	3.50
	65-85	6.50	5.00	7.00	5.50	2.00	0.50	5.00	3.50
	89	6.50	5.00	7.00	5.50	2.00	0.50	5.00	3.50
	93	6.50	5.00	7.00	5.50	2.00	0.50	5.00	3.50
	97-113	6.25	4.75	6.75	5.25	2.00	0.50	4.75	3.25
	117-181	5.50	4.00	6.00	4.50	0.50	-1.00	3.50	2.00
	185	5.00	3.50	5.50	4.00	0.50	-1.00	3.50	2.00
	189-225	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
	229	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
	233	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
6 GHz WIFI (40MHz BW) LP	3			9.50	8.00	5.00	3.50	8.00	6.50
	11			9.50	8.00	5.00	3.50	8.00	6.50
	19-27			9.50	8.00	5.00	3.50	8.00	6.50
	35-59			9.50	8.00	5.00	3.50	8.00	6.50
	67-75			8.75	7.25	5.00	3.50	8.00	6.50
	83			8.75	7.25	5.00	3.50	8.00	6.50
	91			8.75	7.25	5.00	3.50	8.00	6.50
	99-107			8.25	6.75	5.00	3.50	7.75	6.25
	115			8.25	6.75	3.50	2.00	6.50	5.00
	123-179			8.00	6.50	3.50	2.00	6.50	5.00
	187			8.50	7.00	3.50	2.00	6.50	5.00
	195-219			8.50	7.00	4.75	3.25	7.50	6.00
	227			8.50	7.00	4.75	3.25	7.50	6.00
6 GHz WIFI (80MHz BW) LP	7			9.50	8.00	7.50	6.00	9.50	8.00
	23			9.50	8.00	7.50	6.00	9.50	8.00
	39-55			9.50	8.00	7.50	6.00	9.50	8.00
	71			8.75	7.25	7.50	6.00	8.75	7.25
	87			8.75	7.25	7.50	6.00	8.75	7.25
	103			8.25	6.75	7.50	6.00	8.25	6.75
	119			8.25	6.75	6.00	4.50	8.25	6.75
	135-167			8.00	6.50	6.00	4.50	8.00	6.50
	183			8.75	7.25	6.00	4.50	8.75	7.25
	199			8.75	7.25	7.25	5.75	8.75	7.25
	215			8.75	7.25	7.25	5.75	8.75	7.25
6 GHz WIFI (160MHz BW) LP	15			9.50	8.00	9.50	8.00	9.50	8.00
	47			9.50	8.00	9.50	8.00	9.50	8.00
	79			8.75	7.25	8.75	7.25	8.75	7.25
	111			8.25	6.75	8.25	6.75	8.25	6.75
	143			8.00	6.50	8.00	6.50	8.00	6.50
	175			8.75	7.25	8.50	7.00	8.75	7.25
	207			8.75	7.25	8.75	7.25	8.75	7.25

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	2.75	1.25	3.25	1.75	-2.00	-3.50	1.00	-0.50
	65-85	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	89	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	93	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	1.50	0.00	2.00	0.50	NS	NS	-0.50	-2.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) VLP	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
	35-59			6.25	4.75	1.00	-0.50	4.00	2.50
	67-75			6.00	4.50	1.00	-0.50	4.00	2.50
	83			6.00	4.50	1.00	-0.50	4.00	2.50
	91			6.00	4.50	1.00	-0.50	4.00	2.50
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			5.00	3.50	-0.50	-2.00	2.50	1.00
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) VLP	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			8.75	7.25	3.50	2.00	6.50	5.00
	71			8.50	7.00	3.50	2.00	6.50	5.00
	87			8.50	7.00	3.50	2.00	6.50	5.00
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			7.50	6.00	2.00	0.50	5.00	3.50
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) VLP	15			NS	NS	NS	NS	NS	NS
	47			9.50	8.00	6.00	4.50	9.00	7.50
	79			8.75	7.25	6.00	4.50	8.75	7.25
	111			NS	NS	NS	NS	NS	NS
	143			8.00	6.50	4.50	3.00	7.50	6.00
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3c							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
	5	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
	9-29	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
	33-61	12.00	10.50	12.00	10.50	12.00	10.50	12.00	10.50
	65-85	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	89	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	93	12.25	10.75	12.25	10.75	12.25	10.75	12.25	10.75
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	11.50	10.00	11.50	10.00	11.50	10.00	11.50	10.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) SP	3			12.00	10.50	12.00	10.50	12.00	10.50
	11			12.00	10.50	12.00	10.50	12.00	10.50
	19-27			12.00	10.50	12.00	10.50	12.00	10.50
	35-59			12.00	10.50	12.00	10.50	12.00	10.50
	67-75			12.25	10.75	12.25	10.75	12.25	10.75
	83			12.25	10.75	12.25	10.75	12.25	10.75
	91			12.25	10.75	12.25	10.75	12.25	10.75
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			11.50	10.00	11.50	10.00	11.50	10.00
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) SP	7			12.00	10.50	12.00	10.50	12.00	10.50
	23			12.00	10.50	12.00	10.50	12.00	10.50
	39-55			12.00	10.50	12.00	10.50	12.00	10.50
	71			12.25	10.75	12.25	10.75	12.25	10.75
	87			12.25	10.75	12.25	10.75	12.25	10.75
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			11.50	10.00	11.50	10.00	11.50	10.00
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) SP	15			12.00	10.50	12.00	10.50	12.00	10.50
	47			12.00	10.50	12.00	10.50	12.00	10.50
	79			12.25	10.75	12.25	10.75	12.25	10.75
	111			NS	NS	NS	NS	NS	NS
	143			11.50	10.00	11.50	10.00	11.50	10.00
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3c							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	7.25	5.75	7.75	6.25	2.00	0.50	5.00	3.50
	5	7.25	5.75	7.75	6.25	2.00	0.50	5.00	3.50
	9-29	7.25	5.75	7.75	6.25	2.00	0.50	5.00	3.50
	33-61	6.75	5.25	7.25	5.75	2.00	0.50	5.00	3.50
	65-85	6.50	5.00	7.00	5.50	2.00	0.50	5.00	3.50
	89	6.50	5.00	7.00	5.50	2.00	0.50	5.00	3.50
	93	6.50	5.00	7.00	5.50	2.00	0.50	5.00	3.50
	97-113	6.25	4.75	6.75	5.25	2.00	0.50	4.75	3.25
	117-181	5.50	4.00	6.00	4.50	0.50	-1.00	3.50	2.00
	185	5.00	3.50	5.50	4.00	0.50	-1.00	3.50	2.00
	189-225	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
	229	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
	233	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
6 GHz WIFI (40MHz BW) LP	3			10.75	9.25	5.00	3.50	8.00	6.50
	11			10.75	9.25	5.00	3.50	8.00	6.50
	19-27			10.75	9.25	5.00	3.50	8.00	6.50
	35-59			10.25	8.75	5.00	3.50	8.00	6.50
	67-75			10.00	8.50	5.00	3.50	8.00	6.50
	83			10.00	8.50	5.00	3.50	8.00	6.50
	91			10.00	8.50	5.00	3.50	8.00	6.50
	99-107			9.75	8.25	5.00	3.50	7.75	6.25
	115			9.00	7.50	3.50	2.00	6.50	5.00
	123-179			9.00	7.50	3.50	2.00	6.50	5.00
	187			8.50	7.00	3.50	2.00	6.50	5.00
	195-219			8.50	7.00	4.75	3.25	7.50	6.00
	227			8.50	7.00	4.75	3.25	7.50	6.00
6 GHz WIFI (80MHz BW) LP	7			12.00	10.50	7.50	6.00	10.50	9.00
	23			12.00	10.50	7.50	6.00	10.50	9.00
	39-55			12.00	10.50	7.50	6.00	10.50	9.00
	71			12.25	10.75	7.50	6.00	10.50	9.00
	87			12.25	10.75	7.50	6.00	10.50	9.00
	103			11.75	10.25	7.50	6.00	10.25	8.75
	119			11.50	10.00	6.00	4.50	9.00	7.50
	135-167			11.50	10.00	6.00	4.50	9.00	7.50
	183			11.00	9.50	6.00	4.50	9.00	7.50
	199			11.00	9.50	7.25	5.75	10.00	8.50
	215			11.00	9.50	7.25	5.75	10.00	8.50
6 GHz WIFI (160MHz BW) LP	15			12.00	10.50	10.00	8.50	12.00	10.50
	47			12.00	10.50	10.00	8.50	12.00	10.50
	79			12.25	10.75	10.00	8.50	12.25	10.75
	111			11.75	10.25	8.50	7.00	11.50	10.00
	143			11.50	10.00	8.50	7.00	11.50	10.00
	175			11.50	10.00	8.50	7.00	11.50	10.00
	207			11.50	10.00	9.75	8.25	11.50	10.00

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3c							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	2.75	1.25	3.25	1.75	-2.00	-3.50	1.00	-0.50
	65-85	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	89	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	93	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	1.50	0.00	2.00	0.50	NS	NS	-0.50	-2.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) VLP	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
	35-59			6.25	4.75	1.00	-0.50	4.00	2.50
	67-75			6.00	4.50	1.00	-0.50	4.00	2.50
	83			6.00	4.50	1.00	-0.50	4.00	2.50
	91			6.00	4.50	1.00	-0.50	4.00	2.50
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			5.00	3.50	-0.50	-2.00	2.50	1.00
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) VLP	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			8.75	7.25	3.50	2.00	6.50	5.00
	71			8.50	7.00	3.50	2.00	6.50	5.00
	87			8.50	7.00	3.50	2.00	6.50	5.00
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			7.50	6.00	2.00	0.50	5.00	3.50
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) VLP	15			NS	NS	NS	NS	NS	NS
	47			11.25	9.75	6.00	4.50	9.00	7.50
	79			11.00	9.50	6.00	4.50	9.00	7.50
	111			NS	NS	NS	NS	NS	NS
	143			10.00	8.50	4.50	3.00	7.50	6.00
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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1.4.3 Reduced WLAN Time-Averaged Output Power

Note: Targets for 802.11ax RU operations can be found in 802.11ax RU SAR Exclusion Appendix.
Note: In MIMO operations, each antenna transmits at maximum allowed powers.

Table below is applicable in the following conditions:

- Simultaneous conditions with Antenna 1a/1b and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 1a												
	Channel	SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO	MIMO	MIMO	MIMO	MIMO
		b	b (Nominal)	g (Maximum)	g (Nominal)	n (Maximum)	n (Nominal)	ax SU (Maximum)	ax SU (Nominal)	g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
	2	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
	3	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
	4	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
	5	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
	6	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
	7	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
	8	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
	9	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
	10	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
	11	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
	12	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75	5.25	3.75
	13	5.25	3.75	5.25	3.75	5.25	3.75	NS	NS	5.25	3.75	NS	NS

Table below is applicable in the following conditions:

- Simultaneous conditions with Antenna 3a/3b and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 3a												
	Channel	SISO	SISO	SISO	SISO	SISO	SISO	SISO	SISO	MIMO	MIMO	MIMO	MIMO
		b	b (Nominal)	g (Maximum)	g (Nominal)	n (Maximum)	n (Nominal)	ax SU (Maximum)	ax SU (Nominal)	g/n (Maximum)	g/n (Nominal)	ax SU (Maximum)	ax SU (Nominal)
2.4 GHz WIFI 20 MHz Bandwidth	1	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75
	2	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75
	3	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75
	4	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75
	5	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75
	6	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75
	7	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75
	8	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75
	9	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75
	10	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75
	11	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75
	12	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75	6.25	4.75
	13	6.25	4.75	6.25	4.75	6.25	4.75	NS	NS	6.25	4.75	NS	NS

Table below is applicable in the following conditions:

- Simultaneous conditions with Antenna 1a/1b/2a/2b and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	IEEE 802.11 (Maximum in dBm) - Antenna 1b													
	Channel	SISO	SISO	SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	n/ac (Maximum)	n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)	a/n/ac (Maximum)	a/n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)	n/ac (Maximum)	n/ac (Nominal)	ax SU (Maximum)	ax SU (Nominal)
5 GHz WIFI 20 MHz Bandwidth	36	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	40	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	44	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	48	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	52	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
	56	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
	60	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
	64	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
	100	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	104	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	108	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	112	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	116	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	120	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	124	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	128	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	132	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	136	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	140	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	144	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	149	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
	153	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
	157	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
	161	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
	165	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
5 GHz WIFI 40 MHz Bandwidth	38			4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	46			4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	54			3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
	62			3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
	102			2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	110			2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	118			2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	126			2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	134			2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	142			2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	151			3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
	159			3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
5 GHz WIFI 80 MHz Bandwidth	42			4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	58			3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
	106			2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	122			2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	138			2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	155			3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75	3.25	1.75
5 GHz WIFI 160 MHz Bandwidth	50			4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	114			2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25

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Table below is applicable in the following conditions:

- Simultaneous conditions with Antenna 3a/3b and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a													
		SISO a (Maximum)	SISO a (Nominal)	SISO n/ac (Maximum)	SISO n/ac (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)	MIMO CDD a/n/ac (Maximum)	MIMO CDD a/n/ac (Nominal)	MIMO CDD ax SU (Maximum)	MIMO CDD ax SU (Nominal)	MIMO SDM n/ac (Maximum)	MIMO SDM n/ac (Nominal)	MIMO SDM ax SU (Maximum)	MIMO SDM ax SU (Nominal)
5 GHz WIFI 20 MHz Bandwidth	36	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	40	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	44	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	48	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	52	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	56	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	60	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	64	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	100	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	104	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	108	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	112	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	116	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	120	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	124	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	128	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	132	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	136	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	140	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	144	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	149	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	153	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	157	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	161	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	165	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
5 GHz WIFI 40 MHz Bandwidth	38			4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	46			4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	54			4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	62			4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	102			3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	110			3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	118			3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	126			3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	134			3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	142			3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	151			4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	159			4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
5 GHz WIFI 80 MHz Bandwidth	42			4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	58			4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	106			3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	122			3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	138			3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25
	155			4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
5 GHz WIFI 160 MHz Bandwidth	50			4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50
	114			3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25	3.75	2.25

Table below is applicable in the following conditions:

- Simultaneous conditions with Antenna 3a/3b/4 and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3c													
		SISO a (Maximum)	SISO a (Nominal)	SISO n/ac (Maximum)	SISO n/ac (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)	MIMO CDD a/n/ac (Maximum)	MIMO CDD a/n/ac (Nominal)	MIMO CDD ax SU (Maximum)	MIMO CDD ax SU (Nominal)	MIMO SDM n/ac (Maximum)	MIMO SDM n/ac (Nominal)	MIMO SDM ax SU (Maximum)	MIMO SDM ax SU (Nominal)
5 GHz WIFI 20 MHz Bandwidth	36	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
	40	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
	44	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
	48	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
	52	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	56	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	60	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	64	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	100	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	104	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	108	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	112	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	116	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	120	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	124	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	128	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	132	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	136	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	140	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	144	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	149	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	153	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	157	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	161	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	165	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
5 GHz WIFI 40 MHz Bandwidth	38			10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
	46			10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
	54			9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	62			9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	102			8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	110			8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	118			8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	126			8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	134			8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	142			8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	151			8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	159			8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
5 GHz WIFI 80 MHz Bandwidth	42			10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
	58			9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00	9.50	8.00
	106			8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	122			8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	138			8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
	155			8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75
5 GHz WIFI 160 MHz Bandwidth	50			10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75	10.25	8.75
	114			8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75	8.25	6.75

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Table below is applicable in the following conditions:

- Simultaneous conditions with Antenna 1a/1b/2a/2b and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	4.75	3.25	4.75	3.25	4.75	3.25	4.75	3.25
	5	4.75	3.25	4.75	3.25	4.75	3.25	4.75	3.25
	9-29	4.75	3.25	4.75	3.25	4.75	3.25	4.75	3.25
	33-61	4.75	3.25	4.75	3.25	4.75	3.25	4.75	3.25
	65-85	5.00	3.50	5.00	3.50	5.00	3.50	5.00	3.50
	89	5.00	3.50	5.00	3.50	5.00	3.50	5.00	3.50
	93	5.00	3.50	5.00	3.50	5.00	3.50	5.00	3.50
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	5.00	3.50	5.00	3.50	5.00	3.50	5.00	3.50
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) SP	3			4.75	3.25	4.75	3.25	4.75	3.25
	11			4.75	3.25	4.75	3.25	4.75	3.25
	19-27			4.75	3.25	4.75	3.25	4.75	3.25
	35-59			4.75	3.25	4.75	3.25	4.75	3.25
	67-75			5.00	3.50	5.00	3.50	5.00	3.50
	83			5.00	3.50	5.00	3.50	5.00	3.50
	91			5.00	3.50	5.00	3.50	5.00	3.50
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			5.00	3.50	5.00	3.50	5.00	3.50
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) SP	7			4.75	3.25	4.75	3.25	4.75	3.25
	23			4.75	3.25	4.75	3.25	4.75	3.25
	39-55			4.75	3.25	4.75	3.25	4.75	3.25
	71			5.00	3.50	5.00	3.50	5.00	3.50
	87			5.00	3.50	5.00	3.50	5.00	3.50
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			5.00	3.50	5.00	3.50	5.00	3.50
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) SP	15			4.75	3.25	4.75	3.25	4.75	3.25
	47			4.75	3.25	4.75	3.25	4.75	3.25
	79			5.00	3.50	5.00	3.50	5.00	3.50
	111			NS	NS	NS	NS	NS	NS
	143			5.00	3.50	5.00	3.50	5.00	3.50
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	4.75	3.25	4.75	3.25	2.00	0.50	4.75	3.25
	5	4.75	3.25	4.75	3.25	2.00	0.50	4.75	3.25
	9-29	4.75	3.25	4.75	3.25	2.00	0.50	4.75	3.25
	33-61	4.75	3.25	4.75	3.25	2.00	0.50	4.75	3.25
	65-85	5.00	3.50	5.00	3.50	2.00	0.50	5.00	3.50
	89	5.00	3.50	5.00	3.50	2.00	0.50	5.00	3.50
	93	5.00	3.50	5.00	3.50	2.00	0.50	5.00	3.50
	97-113	4.50	3.00	4.50	3.00	2.00	0.50	4.50	3.00
	117-181	5.00	3.50	5.00	3.50	0.50	-1.00	3.50	2.00
	185	5.00	3.50	5.00	3.50	0.50	-1.00	3.50	2.00
	189-225	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
	229	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
	233	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
6 GHz WIFI (40MHz BW) LP	3			4.75	3.25	4.75	3.25	4.75	3.25
	11			4.75	3.25	4.75	3.25	4.75	3.25
	19-27			4.75	3.25	4.75	3.25	4.75	3.25
	35-59			4.75	3.25	4.75	3.25	4.75	3.25
	67-75			5.00	3.50	5.00	3.50	5.00	3.50
	83			5.00	3.50	5.00	3.50	5.00	3.50
	91			5.00	3.50	5.00	3.50	5.00	3.50
	99-107			4.50	3.00	4.50	3.00	4.50	3.00
	115			4.50	3.00	3.50	2.00	4.50	3.00
	123-179			5.00	3.50	3.50	2.00	5.00	3.50
	187			6.50	5.00	3.50	2.00	6.50	5.00
	195-219			6.50	5.00	4.75	3.25	6.50	5.00
	227			6.50	5.00	4.75	3.25	6.50	5.00
6 GHz WIFI (80MHz BW) LP	7			4.75	3.25	4.75	3.25	4.75	3.25
	23			4.75	3.25	4.75	3.25	4.75	3.25
	39-55			4.75	3.25	4.75	3.25	4.75	3.25
	71			5.00	3.50	5.00	3.50	5.00	3.50
	87			5.00	3.50	5.00	3.50	5.00	3.50
	103			4.50	3.00	4.50	3.00	4.50	3.00
	119			5.00	3.50	5.00	3.50	5.00	3.50
	135-167			5.00	3.50	5.00	3.50	5.00	3.50
	183			5.00	3.50	5.00	3.50	5.00	3.50
	199			6.50	5.00	6.50	5.00	6.50	5.00
	215			6.50	5.00	6.50	5.00	6.50	5.00
6 GHz WIFI (160MHz BW) LP	15			4.75	3.25	4.75	3.25	4.75	3.25
	47			4.75	3.25	4.75	3.25	4.75	3.25
	79			5.00	3.50	5.00	3.50	5.00	3.50
	111			4.50	3.00	4.50	3.00	4.50	3.00
	143			5.00	3.50	5.00	3.50	5.00	3.50
	175			5.00	3.50	5.00	3.50	5.00	3.50
	207			6.50	5.00	6.50	5.00	6.50	5.00

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 1b							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	2.75	1.25	3.25	1.75	-2.00	-3.50	1.00	-0.50
	65-85	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	89	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	93	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	1.50	0.00	2.00	0.50	NS	NS	-0.50	-2.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) VLP	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
	35-59			4.75	3.25	1.00	-0.50	4.00	2.50
	67-75			5.00	3.50	1.00	-0.50	4.00	2.50
	83			5.00	3.50	1.00	-0.50	4.00	2.50
	91			5.00	3.50	1.00	-0.50	4.00	2.50
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			5.00	3.50	-0.50	-2.00	2.50	1.00
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) VLP	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			4.75	3.25	3.50	2.00	4.75	3.25
	71			5.00	3.50	3.50	2.00	5.00	3.50
	87			5.00	3.50	3.50	2.00	5.00	3.50
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			5.00	3.50	2.00	0.50	5.00	3.50
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) VLP	15			NS	NS	NS	NS	NS	NS
	47			4.75	3.25	4.75	3.25	4.75	3.25
	79			5.00	3.50	5.00	3.50	5.00	3.50
	111			NS	NS	NS	NS	NS	NS
	143			5.00	3.50	4.50	3.00	5.00	3.50
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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Table below is applicable in the following conditions:

- Simultaneous conditions with Antenna 3a/3b and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
	5	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
	9-29	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
	33-61	3.50	2.00	3.50	2.00	3.50	2.00	3.50	2.00
	65-85	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	89	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	93	2.75	1.25	2.75	1.25	2.75	1.25	2.75	1.25
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	2.00	0.50	2.00	0.50	2.00	0.50	2.00	0.50
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) SP	3			3.50	2.00	3.50	2.00	3.50	2.00
	11			3.50	2.00	3.50	2.00	3.50	2.00
	19-27			3.50	2.00	3.50	2.00	3.50	2.00
	35-59			3.50	2.00	3.50	2.00	3.50	2.00
	67-75			2.75	1.25	2.75	1.25	2.75	1.25
	83			2.75	1.25	2.75	1.25	2.75	1.25
	91			2.75	1.25	2.75	1.25	2.75	1.25
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			2.00	0.50	2.00	0.50	2.00	0.50
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) SP	7			3.50	2.00	3.50	2.00	3.50	2.00
	23			3.50	2.00	3.50	2.00	3.50	2.00
	39-55			3.50	2.00	3.50	2.00	3.50	2.00
	71			2.75	1.25	2.75	1.25	2.75	1.25
	87			2.75	1.25	2.75	1.25	2.75	1.25
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			2.00	0.50	2.00	0.50	2.00	0.50
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) SP	15			3.50	2.00	3.50	2.00	3.50	2.00
	47			3.50	2.00	3.50	2.00	3.50	2.00
	79			2.75	1.25	2.75	1.25	2.75	1.25
	111			NS	NS	NS	NS	NS	NS
	143			2.00	0.50	2.00	0.50	2.00	0.50
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	3.50	2.00	3.50	2.00	2.00	0.50	3.50	2.00
	5	3.50	2.00	3.50	2.00	2.00	0.50	3.50	2.00
	9-29	3.50	2.00	3.50	2.00	2.00	0.50	3.50	2.00
	33-61	3.50	2.00	3.50	2.00	2.00	0.50	3.50	2.00
	65-85	2.75	1.25	2.75	1.25	2.00	0.50	2.75	1.25
	89	2.75	1.25	2.75	1.25	2.00	0.50	2.75	1.25
	93	2.75	1.25	2.75	1.25	2.00	0.50	2.75	1.25
	97-113	2.25	0.75	2.25	0.75	2.00	0.50	2.25	0.75
	117-181	2.00	0.50	2.00	0.50	0.50	-1.00	2.00	0.50
	185	2.00	0.50	2.00	0.50	0.50	-1.00	2.00	0.50
	189-225	2.75	1.25	2.75	1.25	1.75	0.25	2.75	1.25
	229	2.75	1.25	2.75	1.25	1.75	0.25	2.75	1.25
	233	2.75	1.25	2.75	1.25	1.75	0.25	2.75	1.25
6 GHz WIFI (40MHz BW) LP	3			3.50	2.00	3.50	2.00	3.50	2.00
	11			3.50	2.00	3.50	2.00	3.50	2.00
	19-27			3.50	2.00	3.50	2.00	3.50	2.00
	35-59			3.50	2.00	3.50	2.00	3.50	2.00
	67-75			2.75	1.25	2.75	1.25	2.75	1.25
	83			2.75	1.25	2.75	1.25	2.75	1.25
	91			2.75	1.25	2.75	1.25	2.75	1.25
	99-107			2.25	0.75	2.25	0.75	2.25	0.75
	115			2.25	0.75	2.25	0.75	2.25	0.75
	123-179			2.00	0.50	2.00	0.50	2.00	0.50
	187			2.75	1.25	2.75	1.25	2.75	1.25
	195-219			2.75	1.25	2.75	1.25	2.75	1.25
	227			2.75	1.25	2.75	1.25	2.75	1.25
6 GHz WIFI (80MHz BW) LP	7			3.50	2.00	3.50	2.00	3.50	2.00
	23			3.50	2.00	3.50	2.00	3.50	2.00
	39-55			3.50	2.00	3.50	2.00	3.50	2.00
	71			2.75	1.25	2.75	1.25	2.75	1.25
	87			2.75	1.25	2.75	1.25	2.75	1.25
	103			2.25	0.75	2.25	0.75	2.25	0.75
	119			2.00	0.50	2.00	0.50	2.00	0.50
	135-167			2.00	0.50	2.00	0.50	2.00	0.50
	183			2.00	0.50	2.00	0.50	2.00	0.50
	199			2.75	1.25	2.75	1.25	2.75	1.25
	215			2.75	1.25	2.75	1.25	2.75	1.25
6 GHz WIFI (160MHz BW) LP	15			3.50	2.00	3.50	2.00	3.50	2.00
	47			3.50	2.00	3.50	2.00	3.50	2.00
	79			2.75	1.25	2.75	1.25	2.75	1.25
	111			2.25	0.75	2.25	0.75	2.25	0.75
	143			2.00	0.50	2.00	0.50	2.00	0.50
	175			2.00	0.50	2.00	0.50	2.00	0.50
	207			2.75	1.25	2.75	1.25	2.75	1.25

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3a							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	2.75	1.25	3.25	1.75	-2.00	-3.50	1.00	-0.50
	65-85	2.50	1.00	2.75	1.25	-2.00	-3.50	1.00	-0.50
	89	2.50	1.00	2.75	1.25	-2.00	-3.50	1.00	-0.50
	93	2.50	1.00	2.75	1.25	-2.00	-3.50	1.00	-0.50
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	1.50	0.00	2.00	0.50	NS	NS	-0.50	-2.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) VLP	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
	35-59			3.50	2.00	1.00	-0.50	3.50	2.00
	67-75			2.75	1.25	1.00	-0.50	2.75	1.25
	83			2.75	1.25	1.00	-0.50	2.75	1.25
	91			2.75	1.25	1.00	-0.50	2.75	1.25
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			2.00	0.50	-0.50	-2.00	2.00	0.50
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) VLP	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			3.50	2.00	3.50	2.00	3.50	2.00
	71			2.75	1.25	2.75	1.25	2.75	1.25
	87			2.75	1.25	2.75	1.25	2.75	1.25
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			2.00	0.50	2.00	0.50	2.00	0.50
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) VLP	15			NS	NS	NS	NS	NS	NS
	47			3.50	2.00	3.50	2.00	3.50	2.00
	79			2.75	1.25	2.75	1.25	2.75	1.25
	111			NS	NS	NS	NS	NS	NS
	143			2.00	0.50	2.00	0.50	2.00	0.50
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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Table below is applicable in the following conditions:

- Simultaneous conditions with Antenna 3a/3b/4 and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3c							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) SP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
	5	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
	9-29	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
	33-61	8.50	7.00	8.50	7.00	8.50	7.00	8.50	7.00
	65-85	7.25	5.75	7.25	5.75	7.25	5.75	7.25	5.75
	89	7.25	5.75	7.25	5.75	7.25	5.75	7.25	5.75
	93	7.25	5.75	7.25	5.75	7.25	5.75	7.25	5.75
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	6.50	5.00	6.50	5.00	6.50	5.00	6.50	5.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) SP	3			8.50	7.00	8.50	7.00	8.50	7.00
	11			8.50	7.00	8.50	7.00	8.50	7.00
	19-27			8.50	7.00	8.50	7.00	8.50	7.00
	35-59			8.50	7.00	8.50	7.00	8.50	7.00
	67-75			7.25	5.75	7.25	5.75	7.25	5.75
	83			7.25	5.75	7.25	5.75	7.25	5.75
	91			7.25	5.75	7.25	5.75	7.25	5.75
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			6.50	5.00	6.50	5.00	6.50	5.00
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) SP	7			8.50	7.00	8.50	7.00	8.50	7.00
	23			8.50	7.00	8.50	7.00	8.50	7.00
	39-55			8.50	7.00	8.50	7.00	8.50	7.00
	71			7.25	5.75	7.25	5.75	7.25	5.75
	87			7.25	5.75	7.25	5.75	7.25	5.75
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			6.50	5.00	6.50	5.00	6.50	5.00
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) SP	15			8.50	7.00	8.50	7.00	8.50	7.00
	47			8.50	7.00	8.50	7.00	8.50	7.00
	79			7.25	5.75	7.25	5.75	7.25	5.75
	111			NS	NS	NS	NS	NS	NS
	143			6.50	5.00	6.50	5.00	6.50	5.00
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3c							
		SISO	SISO	SISO	SISO	MIMO CDD	MIMO CDD	MIMO SDM	MIMO SDM
		a (Maximum)	a (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)	ax SU (Maximum)	ax SU (Nominal)
6 GHz WIFI (20MHz BW) LP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	7.25	5.75	7.75	6.25	2.00	0.50	5.00	3.50
	5	7.25	5.75	7.75	6.25	2.00	0.50	5.00	3.50
	9-29	7.25	5.75	7.75	6.25	2.00	0.50	5.00	3.50
	33-61	6.75	5.25	7.25	5.75	2.00	0.50	5.00	3.50
	65-85	6.50	5.00	7.00	5.50	2.00	0.50	5.00	3.50
	89	6.50	5.00	7.00	5.50	2.00	0.50	5.00	3.50
	93	6.50	5.00	7.00	5.50	2.00	0.50	5.00	3.50
	97-113	6.25	4.75	6.75	5.25	2.00	0.50	4.75	3.25
	117-181	5.50	4.00	6.00	4.50	0.50	-1.00	3.50	2.00
	185	5.00	3.50	5.50	4.00	0.50	-1.00	3.50	2.00
	189-225	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
	229	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
	233	5.00	3.50	5.50	4.00	1.75	0.25	4.50	3.00
6 GHz WIFI (40MHz BW) LP	3			8.50	7.00	5.00	3.50	8.00	6.50
	11			8.50	7.00	5.00	3.50	8.00	6.50
	19-27			8.50	7.00	5.00	3.50	8.00	6.50
	35-59			8.50	7.00	5.00	3.50	8.00	6.50
	67-75			7.25	5.75	5.00	3.50	7.25	5.75
	83			7.25	5.75	5.00	3.50	7.25	5.75
	91			7.25	5.75	5.00	3.50	7.25	5.75
	99-107			6.75	5.25	5.00	3.50	6.75	5.25
	115			6.75	5.25	3.50	2.00	6.50	5.00
	123-179			6.50	5.00	3.50	2.00	6.50	5.00
	187			5.75	4.25	3.50	2.00	5.75	4.25
	195-219			5.75	4.25	4.75	3.25	5.75	4.25
	227			5.75	4.25	4.75	3.25	5.75	4.25
6 GHz WIFI (80MHz BW) LP	7			8.50	7.00	7.50	6.00	8.50	7.00
	23			8.50	7.00	7.50	6.00	8.50	7.00
	39-55			8.50	7.00	7.50	6.00	8.50	7.00
	71			7.25	5.75	7.25	5.75	7.25	5.75
	87			7.25	5.75	7.25	5.75	7.25	5.75
	103			6.75	5.25	6.75	5.25	6.75	5.25
	119			6.50	5.00	6.00	4.50	6.50	5.00
	135-167			6.50	5.00	6.00	4.50	6.50	5.00
	183			6.50	5.00	6.00	4.50	6.50	5.00
	199			5.75	4.25	5.75	4.25	5.75	4.25
	215			5.75	4.25	5.75	4.25	5.75	4.25
6 GHz WIFI (160MHz BW) LP	15			8.50	7.00	8.50	7.00	8.50	7.00
	47			8.50	7.00	8.50	7.00	8.50	7.00
	79			7.25	5.75	7.25	5.75	7.25	5.75
	111			6.75	5.25	6.75	5.25	6.75	5.25
	143			6.50	5.00	6.50	5.00	6.50	5.00
	175			6.50	5.00	6.50	5.00	6.50	5.00
	207			5.75	4.25	5.75	4.25	5.75	4.25

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Mode	Channel	IEEE 802.11 (Maximum in dBm) - Antenna 3c							
		SISO a (Maximum)	SISO a (Nominal)	SISO ax SU (Maximum)	SISO ax SU (Nominal)	MIMO CDD ax SU (Maximum)	MIMO CDD ax SU (Nominal)	MIMO SDM ax SU (Maximum)	MIMO SDM ax SU (Nominal)
6 GHz WIFI (20MHz BW) VLP	2	NS	NS	NS	NS	NS	NS	NS	NS
	1	NS	NS	NS	NS	NS	NS	NS	NS
	5	NS	NS	NS	NS	NS	NS	NS	NS
	9-29	NS	NS	NS	NS	NS	NS	NS	NS
	33-61	2.75	1.25	3.25	1.75	-2.00	-3.50	1.00	-0.50
	65-85	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	89	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	93	2.50	1.00	3.00	1.50	-2.00	-3.50	1.00	-0.50
	97-113	NS	NS	NS	NS	NS	NS	NS	NS
	117-181	1.50	0.00	2.00	0.50	NS	NS	-0.50	-2.00
	185	NS	NS	NS	NS	NS	NS	NS	NS
	189-225	NS	NS	NS	NS	NS	NS	NS	NS
	229	NS	NS	NS	NS	NS	NS	NS	NS
	233	NS	NS	NS	NS	NS	NS	NS	NS
6 GHz WIFI (40MHz BW) VLP	3			NS	NS	NS	NS	NS	NS
	11			NS	NS	NS	NS	NS	NS
	19-27			NS	NS	NS	NS	NS	NS
	35-59			6.25	4.75	1.00	-0.50	4.00	2.50
	67-75			6.00	4.50	1.00	-0.50	4.00	2.50
	83			6.00	4.50	1.00	-0.50	4.00	2.50
	91			6.00	4.50	1.00	-0.50	4.00	2.50
	99-107			NS	NS	NS	NS	NS	NS
	115			NS	NS	NS	NS	NS	NS
	123-179			5.00	3.50	-0.50	-2.00	2.50	1.00
	187			NS	NS	NS	NS	NS	NS
	195-219			NS	NS	NS	NS	NS	NS
	227			NS	NS	NS	NS	NS	NS
6 GHz WIFI (80MHz BW) VLP	7			NS	NS	NS	NS	NS	NS
	23			NS	NS	NS	NS	NS	NS
	39-55			8.50	7.00	3.50	2.00	6.50	5.00
	71			7.25	5.75	3.50	2.00	6.50	5.00
	87			7.25	5.75	3.50	2.00	6.50	5.00
	103			NS	NS	NS	NS	NS	NS
	119			NS	NS	NS	NS	NS	NS
	135-167			6.50	5.00	2.00	0.50	5.00	3.50
	183			NS	NS	NS	NS	NS	NS
	199			NS	NS	NS	NS	NS	NS
	215			NS	NS	NS	NS	NS	NS
6 GHz WIFI (160MHz BW) VLP	15			NS	NS	NS	NS	NS	NS
	47			8.50	7.00	6.00	4.50	8.50	7.00
	79			7.25	5.75	6.00	4.50	7.25	5.75
	111			NS	NS	NS	NS	NS	NS
	143			6.50	5.00	4.50	3.00	6.50	5.00
	175			NS	NS	NS	NS	NS	NS
	207			NS	NS	NS	NS	NS	NS

1.4.4 Bluetooth Maximum Output Power

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (ePA) TXBF (dBm) Antenna 1a	Modulated Average (iPA) TXBF (dBm) Antenna 1a
Bluetooth BDR	Maximum	**12.50**	**10.50**	**12.50**	**10.50**
	Nominal	**11.00**	**9.00**	**11.00**	**9.00**
Bluetooth EDR	Maximum	**12.50**	**7.00**	**12.50**	**7.00**
	Nominal	**11.00**	**5.50**	**11.00**	**5.50**
Bluetooth LE	Maximum	**12.50**	**10.50**	**12.50**	**10.50**
	Nominal	**11.00**	**9.00**	**11.00**	**9.00**
Bluetooth HDR4	Maximum	**12.50**	**5.00**	**12.50**	**5.00**
	Nominal	**11.00**	**3.50**	**11.00**	**3.50**
Bluetooth HDR8	Maximum	**12.50**	**5.00**	**12.50**	**5.00**
	Nominal	**11.00**	**3.50**	**11.00**	**3.50**

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Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
Bluetooth BDR	Maximum	**12.50**	**10.50**	**12.50**	**10.50**
	Nominal	**11.00**	**9.00**	**11.00**	**9.00**
Bluetooth EDR	Maximum	**12.50**	**7.00**	**12.50**	**7.00**
	Nominal	**11.00**	**5.50**	**11.00**	**5.50**
Bluetooth LE	Maximum	**12.50**	**10.50**	**12.50**	**10.50**
	Nominal	**11.00**	**9.00**	**11.00**	**9.00**
Bluetooth HDR4	Maximum	**12.50**	**5.00**	**12.50**	**5.00**
	Nominal	**11.00**	**3.50**	**11.00**	**3.50**
Bluetooth HDR8	Maximum	**12.50**	**5.00**	**12.50**	**5.00**
	Nominal	**11.00**	**3.50**	**11.00**	**3.50**

1.4.5 Bluetooth Reduced Output Power

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b and wPT active
- Simultaneous conditions with Licensed Bands Antenna 3a/3b/4, 5/6 GHz WLAN Antenna 1b and wPT active
- Simultaneous conditions with 5/6 GHz WLAN Antenna 1b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (ePA) TXBF (dBm) Antenna 1a	Modulated Average (iPA) TXBF (dBm) Antenna 1a
Bluetooth BDR	Maximum	**8.00**	**8.00**	**8.00**	**8.00**
	Nominal	**6.50**	**6.50**	**6.50**	**6.50**
Bluetooth EDR	Maximum	**8.00**	**7.00**	**8.00**	**7.00**
	Nominal	**6.50**	**5.50**	**6.50**	**5.50**
Bluetooth LE	Maximum	**8.00**	**8.00**	**8.00**	**8.00**
	Nominal	**6.50**	**6.50**	**6.50**	**6.50**
Bluetooth HDR4	Maximum	**8.00**	**5.00**	**8.00**	**5.00**
	Nominal	**6.50**	**3.50**	**6.50**	**3.50**
Bluetooth HDR8	Maximum	**8.00**	**5.00**	**8.00**	**5.00**
	Nominal	**6.50**	**3.50**	**6.50**	**3.50**

Table below is applicable in the following conditions:

- Simultaneous conditions with 1a/1b/2a/2b, 5/6GHz WLAN Antenna 1b, and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (ePA) TXBF (dBm) Antenna 1a	Modulated Average (iPA) TXBF (dBm) Antenna 1a
Bluetooth BDR	Maximum	**5.50**	**5.50**	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**	**4.00**	**4.00**
Bluetooth EDR	Maximum	**5.50**	**5.50**	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**	**4.00**	**4.00**
Bluetooth LE	Maximum	**5.50**	**5.50**	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**	**4.00**	**4.00**
Bluetooth HDR4	Maximum	**5.50**	**5.00**	**5.50**	**5.00**
	Nominal	**4.00**	**3.50**	**4.00**	**3.50**
Bluetooth HDR8	Maximum	**5.50**	**5.00**	**5.50**	**5.00**
	Nominal	**4.00**	**3.50**	**4.00**	**3.50**

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Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b and wPT active
- Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b, 5/6 GHz WLAN Antenna 3a/3c and wPT active
- Simultaneous conditions with 5/6 GHz WLAN Antenna 3a/3c and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
Bluetooth BDR	Maximum	**8.00**	**8.00**	**8.00**	**8.00**
	Nominal	**6.50**	**6.50**	**6.50**	**6.50**
Bluetooth EDR	Maximum	**8.00**	**7.00**	**8.00**	**7.00**
	Nominal	**6.50**	**5.50**	**6.50**	**5.50**
Bluetooth LE	Maximum	**8.00**	**8.00**	**8.00**	**8.00**
	Nominal	**6.50**	**6.50**	**6.50**	**6.50**
Bluetooth HDR4	Maximum	**8.00**	**5.00**	**8.00**	**5.00**
	Nominal	**6.50**	**3.50**	**6.50**	**3.50**
Bluetooth HDR8	Maximum	**8.00**	**5.00**	**8.00**	**5.00**
	Nominal	**6.50**	**3.50**	**6.50**	**3.50**

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b/4, 5/6 GHz WLAN Antenna 3a/3c and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
Bluetooth BDR	Maximum	**5.50**	**5.50**	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**	**4.00**	**4.00**
Bluetooth EDR	Maximum	**5.50**	**5.50**	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**	**4.00**	**4.00**
Bluetooth LE	Maximum	**5.50**	**5.50**	**5.50**	**5.50**
	Nominal	**4.00**	**4.00**	**4.00**	**4.00**
Bluetooth HDR4	Maximum	**5.50**	**5.00**	**5.50**	**5.00**
	Nominal	**4.00**	**3.50**	**4.00**	**3.50**
Bluetooth HDR8	Maximum	**5.50**	**5.00**	**5.50**	**5.00**
	Nominal	**4.00**	**3.50**	**4.00**	**3.50**

1.4.6 802.15.4 Maximum Output Power

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
802.15.4	Maximum	**13.00**	**10.50**
	Nominal	**11.50**	**9.00**

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Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
802.15.4	Maximum	**14.00**	**10.50**
	Nominal	**12.50**	**9.00**

1.4.7 802.15.4 Reduced Output Power

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b and wPT active
- Simultaneous conditions with Licensed Bands Antenna 3a/3b/4, 5/6 GHz WLAN Antenna 1b and wPT active
- Simultaneous conditions with 5/6 GHz WLAN Antenna 1b and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
802.15.4	Maximum	**8.50**	**8.50**
	Nominal	**7.00**	**7.00**

Table below is applicable in the following conditions:

- Simultaneous conditions with 1a/1b/2a/2b, 5/6GHz WLAN Antenna 1b, and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1a
802.15.4	Maximum	**6.00**	**6.00**
	Nominal	**4.50**	**4.50**

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b and wPT active
- Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b, 5/6 GHz WLAN Antenna 3a/3c and wPT active
- Simultaneous conditions with 5/6 GHz WLAN Antenna 3a/3c and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
802.15.4	Maximum	**9.50**	**9.50**
	Nominal	**8.00**	**8.00**

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Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b/4, 5/6 GHz WLAN Antenna 3a/3c and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a
802.15.4	Maximum	**7.00**	**7.00**
	Nominal	**5.50**	**5.50**

1.4.8 NB UNII Maximum Output Power

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

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-1 BDR	Maximum	**10.00**	**3.00**
	Nominal	**8.50**	**1.50**
NB UNII-1 HDR4	Maximum	**11.00**	**-2.00**
	Nominal	**9.50**	**-3.50**
NB UNII-1 HDR8	Maximum	**11.00**	**-2.00**
	Nominal	**9.50**	**-3.50**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-3 BDR	Maximum	**10.00**	**3.00**
	Nominal	**8.50**	**1.50**
NB UNII-3 HDR4	Maximum	**10.00**	**-2.00**
	Nominal	**8.50**	**-3.50**
NB UNII-3 HDR8	Maximum	**10.00**	**-2.00**
	Nominal	**8.50**	**-3.50**

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Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
NB UNII-1 BDR	Maximum	**10.00**	**3.50**	**7.00**	**3.50**
	Nominal	**8.50**	**2.00**	**5.50**	**2.00**
NB UNII-1 HDR4	Maximum	**12.50**	**-1.50**	**9.50**	**-1.50**
	Nominal	**11.00**	**-3.00**	**8.00**	**-3.00**
NB UNII-1 HDR8	Maximum	**12.50**	**-1.50**	**12.00**	**-1.50**
	Nominal	**11.00**	**-3.00**	**10.50**	**-3.00**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
NB UNII-3 BDR	Maximum	**12.00**	**3.50**	**12.00**	**3.50**
	Nominal	**10.50**	**2.00**	**10.50**	**2.00**
NB UNII-3 HDR4	Maximum	**12.00**	**-1.50**	**12.00**	**-1.50**
	Nominal	**10.50**	**-3.00**	**10.50**	**-3.00**
NB UNII-3 HDR8	Maximum	**12.00**	**-1.50**	**12.00**	**-1.50**
	Nominal	**10.50**	**-3.00**	**10.50**	**-3.00**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (ePA) TXBF (dBm) Antenna 3c	Modulated Average (iPA) TXBF (dBm) Antenna 3c
NB UNII-1 BDR	Maximum	**10.00**	**4.50**	**7.00**	**4.50**
	Nominal	**8.50**	**3.00**	**5.50**	**3.00**
NB UNII-1 HDR4	Maximum	**12.50**	**-1.00**	**9.50**	**-1.00**
	Nominal	**11.00**	**-2.50**	**8.00**	**-2.50**
NB UNII-1 HDR8	Maximum	**13.50**	**-1.00**	**12.00**	**-1.00**
	Nominal	**12.00**	**-2.50**	**10.50**	**-2.50**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (ePA) TXBF (dBm) Antenna 3c	Modulated Average (iPA) TXBF (dBm) Antenna 3c
NB UNII-3 BDR	Maximum	**13.50**	**4.50**	**13.50**	**4.50**
	Nominal	**12.00**	**3.00**	**12.00**	**3.00**
NB UNII-3 HDR4	Maximum	**13.50**	**-1.00**	**13.50**	**-1.00**
	Nominal	**12.00**	**-2.50**	**12.00**	**-2.50**
NB UNII-3 HDR8	Maximum	**13.50**	**-1.00**	**13.50**	**-1.00**
	Nominal	**12.00**	**-2.50**	**12.00**	**-2.50**

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1.4.9 NB UNII Reduced Output Power

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b and wPT active
- Simultaneous conditions with Licensed Bands Antenna 3a/3b/4, 2.4 GHz WLAN Antenna 1a and wPT active
- Simultaneous conditions with 2.4 GHz WLAN Antenna 1a and wPT

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-1 BDR	Maximum	**6.50**	**3.00**
	Nominal	**5.00**	**1.50**
NB UNII-1 HDR4	Maximum	**6.50**	**-2.00**
	Nominal	**5.00**	**-3.50**
NB UNII-1 HDR8	Maximum	**6.50**	**-2.00**
	Nominal	**5.00**	**-3.50**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-3 BDR	Maximum	**5.50**	**3.00**
	Nominal	**4.00**	**1.50**
NB UNII-3 HDR4	Maximum	**5.50**	**-2.00**
	Nominal	**4.00**	**-3.50**
NB UNII-3 HDR8	Maximum	**5.50**	**-2.00**
	Nominal	**4.00**	**-3.50**

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b, 2.4 GHz WLAN Antenna 1a and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-1 BDR	Maximum	**4.00**	**3.00**
	Nominal	**2.50**	**1.50**
NB UNII-1 HDR4	Maximum	**4.00**	**-2.00**
	Nominal	**2.50**	**-3.50**
NB UNII-1 HDR8	Maximum	**4.00**	**-2.00**
	Nominal	**2.50**	**-3.50**

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Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 1b	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 1b
NB UNII-3 BDR	Maximum	**3.00**	**3.00**
	Nominal	**1.50**	**1.50**
NB UNII-3 HDR4	Maximum	**3.00**	**-2.00**
	Nominal	**1.50**	**-3.50**
NB UNII-3 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 3a/3b and wPT active
- Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b, 2.4 GHz WLAN Antenna 3a and wPT active
- Simultaneous conditions with 2.4 GHz WLAN Antenna 3a and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
NB UNII-1 BDR	Maximum	**9.50**	**3.50**	**7.00**	**3.50**
	Nominal	**8.00**	**2.00**	**5.50**	**2.00**
NB UNII-1 HDR4	Maximum	**9.50**	**-1.50**	**9.50**	**-1.50**
	Nominal	**8.00**	**-3.00**	**8.00**	**-3.00**
NB UNII-1 HDR8	Maximum	**9.50**	**-1.50**	**9.50**	**-1.50**
	Nominal	**8.00**	**-3.00**	**8.00**	**-3.00**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
NB UNII-3 BDR	Maximum	**7.50**	**3.50**	**7.50**	**3.50**
	Nominal	**6.00**	**2.00**	**6.00**	**2.00**
NB UNII-3 HDR4	Maximum	**7.50**	**-1.50**	**7.50**	**-1.50**
	Nominal	**6.00**	**-3.00**	**6.00**	**-3.00**
NB UNII-3 HDR8	Maximum	**7.50**	**-1.50**	**7.50**	**-1.50**
	Nominal	**6.00**	**-3.00**	**6.00**	**-3.00**

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b/4, 2.4 GHz WLAN Antenna 3a and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
NB UNII-1 BDR	Maximum	**7.00**	**3.50**	**7.00**	**3.50**
	Nominal	**5.50**	**2.00**	**5.50**	**2.00**
NB UNII-1 HDR4	Maximum	**7.00**	**-1.50**	**7.00**	**-1.50**
	Nominal	**5.50**	**-3.00**	**5.50**	**-3.00**
NB UNII-1 HDR8	Maximum	**7.00**	**-1.50**	**7.00**	**-1.50**
	Nominal	**5.50**	**-3.00**	**5.50**	**-3.00**

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Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3a	Modulated Average (ePA) TXBF (dBm) Antenna 3a	Modulated Average (iPA) TXBF (dBm) Antenna 3a
NB UNII-3 BDR	Maximum	**5.00**	**3.50**	**5.00**	**3.50**
	Nominal	**3.50**	**2.00**	**3.50**	**2.00**
NB UNII-3 HDR4	Maximum	**5.00**	**-1.50**	**5.00**	**-1.50**
	Nominal	**3.50**	**-3.00**	**3.50**	**-3.00**
NB UNII-3 HDR8	Maximum	**5.00**	**-1.50**	**5.00**	**-1.50**
	Nominal	**3.50**	**-3.00**	**3.50**	**-3.00**

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b and wPT active
- Simultaneous conditions with Licensed Bands Antenna 1a/1b/2a/2b, 2.4 GHz WLAN Antenna 3a and wPT active
- Simultaneous conditions with 2.4 GHz WLAN Antenna 3a and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (ePA) TXBF (dBm) Antenna 3c	Modulated Average (iPA) TXBF (dBm) Antenna 3c
NB UNII-1 BDR	Maximum	**10.00**	**4.50**	**7.00**	**4.50**
	Nominal	**8.50**	**3.00**	**5.50**	**3.00**
NB UNII-1 HDR4	Maximum	**12.50**	**-1.00**	**9.50**	**-1.00**
	Nominal	**11.00**	**-2.50**	**8.00**	**-2.50**
NB UNII-1 HDR8	Maximum	**12.50**	**-1.00**	**12.00**	**-1.00**
	Nominal	**11.00**	**-2.50**	**10.50**	**-2.50**

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (ePA) TXBF (dBm) Antenna 3c	Modulated Average (iPA) TXBF (dBm) Antenna 3c
NB UNII-3 BDR	Maximum	**11.00**	**4.50**	**11.00**	**4.50**
	Nominal	**9.50**	**3.00**	**9.50**	**3.00**
NB UNII-3 HDR4	Maximum	**11.00**	**-1.00**	**11.00**	**-1.00**
	Nominal	**9.50**	**-2.50**	**9.50**	**-2.50**
NB UNII-3 HDR8	Maximum	**11.00**	**-1.00**	**11.00**	**-1.00**
	Nominal	**9.50**	**-2.50**	**9.50**	**-2.50**

Table below is applicable in the following conditions:

- Simultaneous conditions with Licensed Bands Antenna 3a/3b/4, 2.4 GHz WLAN Antenna 3a and wPT active
- Simultaneous conditions with Inter-Band ULCA active and wPT active

Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (ePA) TXBF (dBm) Antenna 3c	Modulated Average (iPA) TXBF (dBm) Antenna 3c
NB UNII-1 BDR	Maximum	**10.00**	**4.50**	**7.00**	**4.50**
	Nominal	**8.50**	**3.00**	**5.50**	**3.00**
NB UNII-1 HDR4	Maximum	**10.00**	**-1.00**	**9.50**	**-1.00**
	Nominal	**8.50**	**-2.50**	**8.00**	**-2.50**
NB UNII-1 HDR8	Maximum	**10.00**	**-1.00**	**10.00**	**-1.00**
	Nominal	**8.50**	**-2.50**	**8.50**	**-2.50**

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Mode / Band		Modulated Average (ePA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (iPA) Single Tx Chain (dBm) Antenna 3c	Modulated Average (ePA) TXBF (dBm) Antenna 3c	Modulated Average (iPA) TXBF (dBm) Antenna 3c
NB UNII-3 BDR	Maximum	**8.50**	**4.50**	**8.50**	**4.50**
	Nominal	**7.00**	**3.00**	**7.00**	**3.00**
NB UNII-3 HDR4	Maximum	**8.50**	**-1.00**	**8.50**	**-1.00**
	Nominal	**7.00**	**-2.50**	**7.00**	**-2.50**
NB UNII-3 HDR8	Maximum	**8.50**	**-1.00**	**8.50**	**-1.00**
	Nominal	**7.00**	**-2.50**	**7.00**	**-2.50**

1.5 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.

1.6 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.

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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 GHz WI-FI + WPT	Yes
16	802.15.4 + 5 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	Cellular Band + NB UNII (TXBF) + 2.4 GHz WI-FI MIMO + WPT	Yes
30	Cellular Band + NB UNII (TXBF) + WPT	Yes
31	Cellular Band + 2.4 GHz Bluetooth (TXBF) + WPT	Yes
32	2.4 GHz WI-FI Antenna 3a + 2.4 GHz Bluetooth Antenna 1a + WPT	Yes
33	2.4 GHz WI-FI Antenna 3a + 802.15.4 Antenna 1a + WPT	Yes
34	Cellular Band + 2.4 GHz WI-FI Antenna 3a + 2.4 GHz Bluetooth Antenna 1a + WPT	Yes
35	Cellular Band + 2.4 GHz WI-FI Antenna 3a + 802.15.4 Antenna 1a + 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 3b LB + Cellular Ant 1b MB/HB	Yes	LTE Bands transmitting from Ant 3b LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 1b MB/HB: LTE B2/4/7/30/66
2	Cellular Ant 3b LB + Cellular Ant 2b MB/HB	Yes	LTE Bands transmitting from Ant 3b LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 2b MB/HB: LTE B2/4/7/30/66
3	Cellular Ant 3b LB + Cellular Ant 3a MB/HB	Yes	LTE Bands transmitting from Ant 3b LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 3a MB/HB: LTE B2/4/7/30/66
4	Cellular Ant 3b LB + Cellular Ant 4 MB/HB	Yes	LTE Bands transmitting from Ant 3b LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 4 MB/HB: LTE B2/4/7/30/66
5	Cellular Ant 4 LB + Cellular Ant 1b MB/HB	Yes	LTE Bands transmitting from Ant 4 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 1b MB/HB: LTE B2/4/7/30/66
6	Cellular Ant 4 LB + Cellular Ant 2b MB/HB	Yes	LTE Bands transmitting from Ant 4 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 2b MB/HB: LTE B2/4/7/30/66
7	Cellular Ant 4 LB + Cellular Ant 3a MB/HB	Yes	LTE Bands transmitting from Ant 4 LB: LTE B5/12/13/14 LTE Bands transmitting from Ant 3a 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 3a + 2.4 GHz Bluetooth Antenna 1a + WPT	Yes
21	LTE Inter-Band ULCA + 2.4 GHz WI-FI Antenna 3a + 802.15.4 Antenna 1a + WPT	Yes

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

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1. There are no limitations in the above listed simultaneous transmission scenarios between cellular antennas and BT/WI-FI antennas.
2. 2.4 GHz 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 (13.5dBm, 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 STBC and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
6. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
7. This device supports VoWIFI.

1.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Based on the maximum allowed power for the respective antennas, U-NII-1 was evaluated for Antenna 1b and Antenna 3c and U-NII-2A was evaluated for Antenna 3a. Additional testing for U-NII-2A Antenna 1b and Antenna 3c and for U-NII-1 Antenna 3a 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

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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 4cm^2 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%.

(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).

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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.

1.8 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

1.9 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 11.

1.10 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report	1C2410210073-01.BCG
RF Exposure Part 2 Test Report	1C2410210073-03.BCG
RF Exposure Compliance Summary Report	1C2410210073-04.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)		2535 (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					
LTE 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:

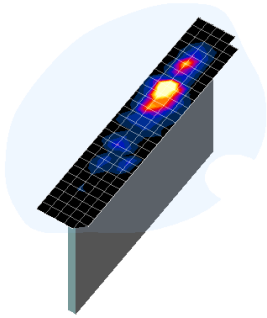

Figure 4-1
Sample SAR Area Scan

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.
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/m^2 or mW/cm^2.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm^2 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.

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2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel, i.e., all channels require testing.

2.4 GHz 802.11 g/n/ax OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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.

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7.6.8 MIMO SAR considerations

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

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8 RF CONDUCTED POWERS

8.1 UMTS P_{limit} Conducted Powers

Table 8-1
Measured P_{Limit} Antenna 1b

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	12.14	12.16	**12.19**	**11.88**	11.85	11.87	-
6	HSDPA	Subtest 1	12.02	12.05	12.18	11.67	11.69	11.71	0
6		Subtest 2	11.99	12.03	12.16	11.67	11.68	11.73	0
6		Subtest 3	11.49	11.55	11.67	11.16	11.20	11.22	0.5
6		Subtest 4	11.50	11.54	11.66	11.17	11.19	11.21	0.5
6	HSUPA	Subtest 1	12.01	12.06	12.17	11.65	11.69	11.73	0
6		Subtest 2	10.02	10.06	10.16	9.66	9.68	9.74	2
6		Subtest 3	11.03	11.05	11.16	10.64	10.69	10.72	1
6		Subtest 4	10.01	10.05	10.17	9.63	9.67	9.73	2
6		Subtest 5	12.01	12.07	12.17	11.66	11.70	11.74	0
8	DC-HSDPA	Subtest 1	12.04	12.08	12.19	11.66	11.68	11.72	0
8		Subtest 2	12.03	12.07	12.20	11.67	11.67	11.73	0
8		Subtest 3	11.54	11.56	11.79	11.15	11.16	11.21	0.5
8		Subtest 4	11.54	11.58	11.78	11.17	11.18	11.24	0.5

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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	**12.30**	12.23	12.29	**13.37**	13.30	13.15	-
6	HSDPA	Subtest 1	12.43	12.40	12.49	13.29	13.24	13.16	0
6		Subtest 2	12.41	12.39	12.52	13.28	13.25	13.17	0
6		Subtest 3	11.91	11.93	12.04	12.77	12.74	12.66	0.5
6		Subtest 4	11.92	11.91	12.05	12.78	12.73	12.66	0.5
6	HSUPA	Subtest 1	12.43	12.41	12.48	13.32	13.24	13.18	0
6		Subtest 2	10.42	10.41	10.49	11.31	11.24	11.20	2
6		Subtest 3	11.41	11.40	11.46	12.32	12.23	12.19	1
6		Subtest 4	10.43	10.42	10.45	11.30	11.25	11.19	2
6		Subtest 5	12.42	12.42	12.47	13.33	13.24	13.17	0
8	DC-HSDPA	Subtest 1	12.27	12.28	12.38	13.30	13.21	13.13	0
8		Subtest 2	12.28	12.30	12.39	13.29	13.21	13.14	0
8		Subtest 3	11.77	11.79	11.88	12.79	12.73	12.66	0.5
8		Subtest 4	11.76	11.80	11.89	12.78	12.72	12.64	0.5

Table 8-3
Measured P_{Limit} Antenna 3a

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	**12.13**	12.10	12.05	**13.93**	13.83	13.80	-
6	HSDPA	Subtest 1	12.47	12.36	12.39	13.79	13.64	13.71	0
6		Subtest 2	12.46	12.35	12.41	13.78	13.64	13.73	0
6		Subtest 3	11.98	11.87	11.90	13.27	13.12	13.21	0.5
6		Subtest 4	11.97	11.86	11.89	13.26	13.11	13.19	0.5
6	HSUPA	Subtest 1	12.43	12.33	12.42	13.78	13.62	13.72	0
6		Subtest 2	10.45	10.31	10.43	11.74	11.63	11.67	2
6		Subtest 3	11.41	11.28	11.42	12.74	12.61	12.66	1
6		Subtest 4	10.44	10.30	10.41	11.76	11.61	11.70	2
6		Subtest 5	12.45	12.32	12.41	13.76	13.63	13.69	0
8	DC-HSDPA	Subtest 1	12.42	12.33	12.37	13.74	13.58	13.70	0
8		Subtest 2	12.41	12.34	12.36	13.73	13.59	13.69	0
8		Subtest 3	11.93	11.81	11.86	13.25	13.08	13.19	0.5
8		Subtest 4	11.94	11.82	11.87	13.24	13.07	13.21	0.5

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Table 8-4
Measured P_{Limit} Antenna 3b

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	16.29	**16.31**	16.26	-
6	HSDPA	Subtest 1	16.19	16.24	16.13	0
6		Subtest 2	16.18	16.21	16.13	0
6		Subtest 3	15.67	15.72	15.63	0.5
6		Subtest 4	15.68	15.72	15.61	0.5
6	HSUPA	Subtest 1	16.18	16.21	16.12	0
6		Subtest 2	14.19	14.22	14.11	2
6		Subtest 3	15.18	15.22	15.14	1
6		Subtest 4	14.18	14.23	14.13	2
6		Subtest 5	16.17	16.22	16.11	0
8	DC-HSDPA	Subtest 1	15.91	15.94	15.81	0
8		Subtest 2	15.89	15.93	15.79	0
8		Subtest 3	15.42	15.43	15.32	0.5
8		Subtest 4	15.41	15.41	15.30	0.5

Table 8-5
Measured P_{Limit} Antenna 4

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	18.02	18.17	**18.21**	14.48	14.52	**14.66**	**13.32**	13.30	13.13	-
6	HSDPA	Subtest 1	18.05	18.12	18.16	14.09	14.14	14.28	13.52	13.54	13.34	0
6		Subtest 2	18.07	18.11	18.17	14.09	14.16	14.27	13.51	13.52	13.33	0
6		Subtest 3	17.61	17.61	17.69	13.61	13.74	13.81	13.06	13.07	12.86	0.5
6		Subtest 4	17.59	17.62	17.70	13.62	13.73	13.79	13.04	13.06	12.89	0.5
6	HSUPA	Subtest 1	18.12	18.17	18.21	14.14	14.27	14.33	13.59	13.57	13.46	0
6		Subtest 2	16.11	16.16	16.22	12.14	12.26	12.35	11.59	11.59	11.47	2
6		Subtest 3	17.11	17.16	17.21	13.15	13.27	13.34	12.58	12.59	12.47	1
6		Subtest 4	16.12	16.18	16.21	12.16	12.28	12.35	11.60	11.59	11.48	2
6		Subtest 5	18.15	18.18	18.23	14.15	14.26	14.35	13.59	13.58	13.47	0
8	DC-HSDPA	Subtest 1	18.10	18.19	18.17	14.10	14.19	14.30	13.54	13.52	13.37	0
8		Subtest 2	18.11	18.18	18.19	14.11	14.18	14.31	13.54	13.51	13.36	0
8		Subtest 3	17.58	17.69	17.70	13.61	13.71	13.79	13.02	13.01	12.85	0.5
8		Subtest 4	17.59	17.68	17.68	13.62	13.70	13.81	13.05	13.02	12.86	0.5

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DC-HSDPA considerations

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

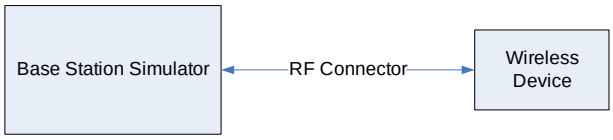

Figure 8-1
Power Measurement Setup

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8.2 LTE Conducted Powers

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

8.2.1 LTE Band 71

Table 8-6
LTE Band 71 Measured P_{Limit} Antenna 3b - 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	17.85	0	0
	1	50	**17.88**		0
	1	99	17.83		0
	50	0	17.83	0-1	0
	50	25	**17.91**		0
	50	50	17.85		0
	100	0	17.87		0
16QAM	1	0	17.63	0-1	0
	1	50	17.93		0
	1	99	17.55		0
	50	0	17.65	0-2	0
	50	25	17.70		0
	50	50	17.68		0
	100	0	17.68		0
64QAM	1	0	17.76	0-2	0
	1	50	17.98		0
	1	99	17.71		0
	50	0	17.68	0-3	0
	50	25	17.70		0
	50	50	17.69		0
	100	0	17.70		0
256QAM	1	0	17.74	0-5	0
	1	50	17.71		0
	1	99	17.91		0
	50	0	17.68		0
	50	25	17.69		0
	50	50	17.75		0
	100	0	17.69		0

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Table 8-7
LTE Band 71 Measured P_{Limit} Antenna 4 - 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	**20.84**	0	0
	1	50	20.79		0
	1	99	20.64		0
	50	0	20.86	0-1	0
	50	25	**20.94**		0
	50	50	20.81		0
	100	0	20.80		0
16QAM	1	0	20.78	0-1	0
	1	50	20.74		0
	1	99	20.69		0
	50	0	20.67	0-2	0
	50	25	20.65		0
	50	50	20.64		0
	100	0	20.64		0
64QAM	1	0	20.83	0-2	0
	1	50	20.82		0
	1	99	20.69		0
	50	0	20.64	0-3	0
	50	25	20.68		0
	50	50	20.63		0
	100	0	20.64		0
256QAM	1	0	20.23	0-5	0.6
	1	50	20.38		0.6
	1	99	20.38		0.6
	50	0	20.00		0.6
	50	25	20.02		0.6
	50	50	20.20		0.6
	100	0	20.15		0.6

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8.2.2 LTE Band 12

Table 8-8
LTE Band 12 Measured P_{Limit} Antenna 3b - 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	17.37	0	0
	1	25	17.34		0
	1	49	**17.42**		0
	25	0	17.30	0-1	0
	25	12	**17.38**		0
	25	25	17.33		0
	50	0	17.35		0
16QAM	1	0	17.54	0-1	0
	1	25	17.44		0
	1	49	17.51		0
	25	0	17.19	0-2	0
	25	12	17.25		0
	25	25	17.23		0
	50	0	17.23		0
64QAM	1	0	17.41	0-2	0
	1	25	17.39		0
	1	49	17.44		0
	25	0	17.19	0-3	0
	25	12	17.27		0
	25	25	17.24		0
	50	0	17.26		0
256QAM	1	0	17.25	0-5	0
	1	25	17.42		0
	1	49	17.33		0
	25	0	17.22		0
	25	12	17.28		0
	25	25	17.25		0
	50	0	17.24		0

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Table 8-9
LTE Band 12 Measured P_{Limit} Antenna 4 - 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	**19.07**	0	0
	1	25	18.99		0
	1	49	19.00		0
	25	0	19.01	0-1	0
	25	12	**19.10**		0
	25	25	19.06		0
	50	0	19.05		0
16QAM	1	0	19.30	0-1	0
	1	25	19.25		0
	1	49	19.38		0
	25	0	19.17	0-2	0
	25	12	19.27		0
	25	25	19.13		0
	50	0	19.12		0
64QAM	1	0	19.30	0-2	0
	1	25	19.22		0
	1	49	19.36		0
	25	0	19.12	0-3	0
	25	12	19.20		0
	25	25	19.17		0
	50	0	19.07		0
256QAM	1	0	19.33	0-5	0
	1	25	19.22		0
	1	49	19.36		0
	25	0	19.13		0
	25	12	19.21		0
	25	25	19.14		0
	50	0	19.10		0

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8.2.3 LTE Band 13

Table 8-10
LTE Band 13 Measured P_{Limit} Antenna 3b - 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	**16.84**	0	0
	1	25	16.77		0
	1	49	16.81		0
	25	0	16.72	0-1	0
	25	12	**16.79**		0
	25	25	16.77		0
	50	0	16.72		0
16QAM	1	0	16.86	0-1	0
	1	25	16.83		0
	1	49	16.84		0
	25	0	16.62	0-2	0
	25	12	16.67		0
	25	25	16.70		0
	50	0	16.65		0
64QAM	1	0	16.76	0-2	0
	1	25	16.83		0
	1	49	16.87		0
	25	0	16.63	0-3	0
	25	12	16.67		0
	25	25	16.64		0
	50	0	16.66		0
256QAM	1	0	16.52	0-5	0
	1	25	16.76		0
	1	49	16.78		0
	25	0	16.53		0
	25	12	16.64		0
	25	25	16.59		0
	50	0	16.68		0

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Table 8-11
LTE Band 13 Measured P_{Limit} Antenna 4 - 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	17.91	0	0
	1	25	**17.99**		0
	1	49	17.95		0
	25	0	18.01	0-1	0
	25	12	**18.07**		0
	25	25	18.06		0
	50	0	17.98		0
16QAM	1	0	18.30	0-1	0
	1	25	18.35		0
	1	49	18.20		0
	25	0	18.10	0-2	0
	25	12	18.09		0
	25	25	18.14		0
	50	0	18.09		0
64QAM	1	0	18.37	0-2	0
	1	25	18.34		0
	1	49	18.33		0
	25	0	18.08	0-3	0
	25	12	18.16		0
	25	25	18.11		0
	50	0	18.12		0
256QAM	1	0	18.10	0-5	0
	1	25	18.22		0
	1	49	18.12		0
	25	0	18.08		0
	25	12	18.13		0
	25	25	18.15		0
	50	0	18.13		0

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8.2.4 LTE Band 14

Table 8-12
LTE Band 14 Measured P_{Limit} Antenna 3b - 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	16.57	0	0
	1	25	16.58		0
	1	49	**16.63**		0
	25	0	16.67	0-1	0
	25	12	16.70		0
	25	25	**16.71**		0
	50	0	16.62		0
16QAM	1	0	16.93	0-1	0
	1	25	16.88		0
	1	49	16.88		0
	25	0	16.56	0-2	0
	25	12	16.60		0
	25	25	16.65		0
	50	0	16.58		0
64QAM	1	0	16.71	0-2	0
	1	25	16.83		0
	1	49	16.84		0
	25	0	16.56	0-3	0
	25	12	16.59		0
	25	25	16.63		0
	50	0	16.57		0
256QAM	1	0	16.58	0-5	0
	1	25	16.73		0
	1	49	16.63		0
	25	0	16.59		0
	25	12	16.59		0
	25	25	16.63		0
	50	0	16.57		0

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Table 8-13
LTE Band 14 Measured P_{Limit} Antenna 4 - 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	17.66	0	0
	1	25	17.65		0
	1	49	**17.79**		0
	25	0	17.72	0-1	0
	25	12	**17.81**		0
	25	25	17.77		0
	50	0	17.68		0
16QAM	1	0	18.12	0-1	0
	1	25	18.09		0
	1	49	18.21		0
	25	0	17.80	0-2	0
	25	12	17.90		0
	25	25	17.84		0
	50	0	17.86		0
64QAM	1	0	18.09	0-2	0
	1	25	18.00		0
	1	49	17.99		0
	25	0	17.83	0-3	0
	25	12	17.90		0
	25	25	17.88		0
	50	0	17.88		0
256QAM	1	0	17.98	0-5	0
	1	25	17.81		0
	1	49	18.01		0
	25	0	17.82		0
	25	12	17.92		0
	25	25	17.86		0
	50	0	17.90		0

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8.2.5 LTE Band 26

Table 8-14
LTE Band 26 (Cell) Measured P_{Limit} Antenna 3b - 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	16.21	16.19	**16.36**	0	0
	1	25	16.14	16.14	16.29		0
	1	49	16.10	16.08	16.26		0
	25	0	16.15	16.16	16.16	0-1	0
	25	12	16.26	16.22	**16.27**		0
	25	25	16.22	16.19	16.20		0
	50	0	16.15	16.16	16.18		0
16QAM	1	0	16.34	16.40	16.54	0-1	0
	1	25	16.34	16.36	16.43		0
	1	49	16.34	16.33	16.39		0
	25	0	16.09	16.15	16.10	0-2	0
	25	12	16.18	16.20	16.14		0
	25	25	16.17	16.23	16.19		0
	50	0	16.19	16.19	16.10		0
64QAM	1	0	16.34	16.47	16.32	0-2	0
	1	25	16.31	16.38	16.37		0
	1	49	16.23	16.40	16.27		0
	25	0	16.11	16.15	16.10	0-3	0
	25	12	16.22	16.23	16.13		0
	25	25	16.21	16.21	16.16		0
	50	0	16.19	16.22	16.10		0
256QAM	1	0	16.25	16.24	16.15	0-5	0
	1	25	16.37	16.27	16.33		0
	1	49	16.26	16.25	16.14		0
	25	0	16.14	16.15	16.15		0
	25	12	16.24	16.24	16.17		0
	25	25	16.17	16.22	16.21		0
	50	0	16.19	16.22	16.07		0

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Table 8-15
LTE Band 26 (Cell) Measured P_{Limit} Antenna 4 - 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	18.22	18.17	18.21	0	0
	1	25	18.20	18.16	18.18		0
	1	49	18.17	**18.23**	18.19		0
	25	0	18.07	18.04	18.09	0-1	0
	25	12	18.17	**18.18**	18.11		0
	25	25	18.15	18.14	18.15		0
	50	0	18.14	18.15	18.08		0
16QAM	1	0	18.43	18.48	18.58	0-1	0
	1	25	18.35	18.45	18.47		0
	1	49	18.34	18.48	18.50		0
	25	0	18.16	18.19	18.21	0-2	0
	25	12	18.24	18.24	18.24		0
	25	25	18.24	18.23	18.25		0
	50	0	18.24	18.22	18.19		0
64QAM	1	0	18.39	18.43	18.39	0-2	0
	1	25	18.31	18.40	18.43		0
	1	49	18.31	18.44	18.33		0
	25	0	18.17	18.20	18.20	0-3	0
	25	12	18.25	18.28	18.25		0
	25	25	18.20	18.22	18.28		0
	50	0	18.24	18.23	18.21		0
256QAM	1	0	18.16	18.22	18.23	0-5	0
	1	25	18.31	18.13	18.33		0
	1	49	18.22	18.29	18.43		0
	25	0	18.15	18.17	18.18		0
	25	12	18.25	18.26	18.21		0
	25	25	18.20	18.23	18.27		0
	50	0	18.22	18.24	18.18		0

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8.2.6 LTE Band 5

Table 8-16
LTE Band 5 (Cell) Measured P_{Limit} Antenna 3b - 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	**16.15**	0	0
	1	25	16.08		0
	1	49	16.06		0
	25	0	16.14	0-1	0
	25	12	**16.20**		0
	25	25	16.16		0
	50	0	16.14		0
16QAM	1	0	16.53	0-1	0
	1	25	16.42		0
	1	49	16.42		0
	25	0	16.15	0-2	0
	25	12	16.18		0
	25	25	16.15		0
	50	0	16.16		0
64QAM	1	0	16.35	0-2	0
	1	25	16.34		0
	1	49	16.35		0
	25	0	16.11	0-3	0
	25	12	16.17		0
	25	25	16.14		0
	50	0	16.14		0
256QAM	1	0	16.14	0-5	0
	1	25	16.30		0
	1	49	16.18		0
	25	0	16.10		0
	25	12	16.21		0
	25	25	16.13		0
	50	0	16.16		0

Table 8-17
LTE Band 5 (Cell) Uplink Carrier Aggregation Measured P_{Limit} Antenna 3b

	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	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	12	13	15.95	16.14

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Table 8-18
LTE Band 5 (Cell) Measured P_{Limit} Antenna 4 - 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	18.07	0	0
	1	25	18.06		0
	1	49	**18.13**		0
	25	0	18.10	0-1	0
	25	12	**18.17**		0
	25	25	18.15		0
	50	0	18.09		0
16QAM	1	0	18.53	0-1	0
	1	25	18.52		0
	1	49	18.51		0
	25	0	18.23	0-2	0
	25	12	18.32		0
	25	25	18.26		0
	50	0	18.25		0
64QAM	1	0	18.35	0-2	0
	1	25	18.38		0
	1	49	18.39		0
	25	0	18.25	0-3	0
	25	12	18.29		0
	25	25	18.27		0
	50	0	18.28		0
256QAM	1	0	18.19	0-5	0
	1	25	18.34		0
	1	49	18.28		0
	25	0	18.15		0
	25	12	18.23		0
	25	25	18.24		0
	50	0	18.24		0

Table 8-19
LTE Band 5 (Cell) Uplink Carrier Aggregation Measured P_{Limit} Antenna 4

	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	18.05	18.09

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8.2.7 LTE Band 66

Table 8-20
LTE Band 66 (AWS) Measured P_{Limit} Antenna 1b - 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	12.29	12.31	12.35	0	0
	1	50	**12.38**	12.37	12.37		0
	1	99	12.26	12.27	12.36		0
	50	0	12.34	12.38	12.34	0-1	0
	50	25	**12.49**	12.46	12.40		0
	50	50	12.43	12.41	12.48		0
	100	0	12.32	12.33	12.30		0
16QAM	1	0	12.15	12.15	12.04	0-1	0
	1	50	12.09	12.23	12.17		0
	1	99	12.08	12.08	11.80		0
	50	0	11.93	11.98	11.85	0-2	0
	50	25	12.01	12.01	11.82		0
	50	50	11.98	11.94	11.88		0
	100	0	11.95	11.97	11.81		0
64QAM	1	0	12.21	12.15	12.22	0-2	0
	1	50	12.15	12.17	12.15		0
	1	99	12.17	12.05	11.94		0
	50	0	11.98	11.99	12.11	0-3	0
	50	25	12.00	11.97	11.79		0
	50	50	11.94	11.94	11.81		0
	100	0	11.99	11.98	11.80		0
256QAM	1	0	11.98	11.93	11.83	0-5	0
	1	50	12.06	11.95	11.79		0
	1	99	12.07	11.98	12.02		0
	50	0	11.83	11.91	11.85		0
	50	25	11.94	12.01	11.92		0
	50	50	11.87	11.90	11.86		0
	100	0	11.92	11.87	11.90		0

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Table 8-21
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	12.24	12.05	11.90	0	0
	1	50	**12.32**	12.19	12.06		0
	1	99	12.29	12.01	11.74		0
	50	0	12.31	12.29	12.09	0-1	0
	50	25	**12.37**	12.33	12.19		0
	50	50	12.33	12.28	12.09		0
	100	0	12.30	12.18	11.94		0
16QAM	1	0	12.24	12.44	12.30	0-1	0
	1	50	12.23	12.40	12.25		0
	1	99	12.39	12.45	12.06		0
	50	0	12.23	12.23	11.96	0-2	0
	50	25	12.26	12.21	11.99		0
	50	50	12.24	12.16	11.94		0
	100	0	12.22	12.15	11.98		0
64QAM	1	0	12.35	12.37	12.09	0-2	0
	1	50	12.34	12.33	12.11		0
	1	99	12.41	12.29	11.90		0
	50	0	12.26	12.22	11.98	0-3	0
	50	25	12.22	12.22	12.00		0
	50	50	12.25	12.15	11.95		0
	100	0	12.24	12.20	12.01		0
256QAM	1	0	12.18	12.20	12.10	0-5	0
	1	50	12.32	12.22	11.95		0
	1	99	12.33	12.24	12.03		0
	50	0	12.07	12.14	11.93		0
	50	25	12.18	12.23	11.96		0
	50	50	12.18	12.19	11.93		0
	100	0	12.17	12.20	11.94		0

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Table 8-22
LTE Band 66 (AWS) Measured P_{Limit} Antenna 3a - 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	12.73	**12.91**	12.83	0	0
	1	50	12.63	12.82	12.79		0
	1	99	12.66	12.83	12.73		0
	50	0	12.85	12.87	12.78	0-1	0
	50	25	12.88	**12.92**	12.80		0
	50	50	12.84	12.86	12.82		0
	100	0	12.84	12.86	12.75		0
16QAM	1	0	12.42	12.48	12.79	0-1	0
	1	50	12.59	12.65	12.86		0
	1	99	12.51	12.51	12.58		0
	50	0	12.44	12.45	12.38	0-2	0
	50	25	12.59	12.52	12.45		0
	50	50	12.54	12.50	12.44		0
	100	0	12.53	12.49	12.40		0
64QAM	1	0	12.49	12.80	12.56	0-2	0
	1	50	12.50	12.51	12.81		0
	1	99	12.44	12.40	12.59		0
	50	0	12.44	12.44	12.38	0-3	0
	50	25	12.57	12.54	12.44		0
	50	50	12.49	12.49	12.46		0
	100	0	12.53	12.54	12.36		0
256QAM	1	0	12.43	12.61	12.77	0-5	0
	1	50	12.52	12.51	12.77		0
	1	99	12.57	12.53	12.63		0
	50	0	12.43	12.42	12.38		0
	50	25	12.57	12.57	12.45		0
	50	50	12.51	12.52	12.49		0
	100	0	12.53	12.51	12.36		0

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Table 8-23
LTE Band 66 (AWS) Measured P_{Limit} Antenna 4 - 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	14.06	13.96	13.86	0	0
	1	50	**14.09**	13.73	13.95		0
	1	99	13.98	13.72	13.74		0
	50	0	14.14	13.98	13.90	0-1	0
	50	25	**14.16**	13.99	13.89		0
	50	50	14.04	13.92	13.93		0
	100	0	13.96	13.78	13.87		0
16QAM	1	0	14.13	14.04	14.05	0-1	0
	1	50	14.22	13.93	14.18		0
	1	99	14.07	14.00	13.87		0
	50	0	14.06	13.88	13.73	0-2	0
	50	25	14.08	13.86	13.72		0
	50	50	14.09	13.82	13.76		0
	100	0	14.05	13.83	13.70		0
64QAM	1	0	14.24	14.03	13.97	0-2	0
	1	50	14.19	14.06	13.99		0
	1	99	14.19	13.89	13.80		0
	50	0	14.08	13.87	13.72	0-3	0
	50	25	14.06	13.85	13.71		0
	50	50	14.06	13.84	13.76		0
	100	0	14.03	13.84	13.70		0
256QAM	1	0	14.12	13.82	13.78	0-5	0
	1	50	14.15	13.78	13.82		0
	1	99	14.16	13.87	13.74		0
	50	0	14.04	13.87	13.70		0
	50	25	14.04	13.85	13.70		0
	50	50	14.00	13.79	13.74		0
	100	0	14.05	13.82	13.71		0

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8.2.8 LTE Band 25

Table 8-24
LTE Band 25 (PCS) Measured P_{Limit} Antenna 1b - 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	11.93	11.85	11.94	0	0
	1	50	**12.03**	12.02	11.98		0
	1	99	11.96	11.87	11.86		0
	50	0	11.97	12.05	11.98	0-1	0
	50	25	**12.09**	12.07	11.99		0
	50	50	12.02	12.06	12.03		0
	100	0	12.00	12.01	11.96		0
16QAM	1	0	11.87	12.09	11.81	0-1	0
	1	50	11.92	12.22	11.80		0
	1	99	11.94	12.17	11.72		0
	50	0	11.77	11.86	11.83	0-2	0
	50	25	11.82	11.85	11.89		0
	50	50	11.84	11.89	11.88		0
	100	0	11.83	11.82	11.89		0
64QAM	1	0	11.92	12.03	12.02	0-2	0
	1	50	12.03	12.11	12.10		0
	1	99	11.95	12.10	11.91		0
	50	0	11.75	11.82	11.83	0-3	0
	50	25	11.82	11.87	11.86		0
	50	50	11.83	11.89	11.83		0
	100	0	11.81	11.85	11.87		0
256QAM	1	0	11.91	11.87	11.93	0-5	0
	1	50	12.01	11.97	11.93		0
	1	99	12.02	11.97	11.95		0
	50	0	11.77	11.80	11.80		0
	50	25	11.83	11.88	11.85		0
	50	50	11.86	11.87	11.84		0
	100	0	11.82	11.81	11.88		0

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Table 8-25
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	12.87	13.16	13.19	0	0
	1	50	13.02	**13.26**	13.24		0
	1	99	12.99	13.22	13.15		0
	50	0	13.17	13.25	13.27	0-1	0
	50	25	13.29	**13.31**	13.20		0
	50	50	13.27	13.30	13.28		0
	100	0	13.22	13.25	13.20		0
16QAM	1	0	13.24	13.27	13.24	0-1	0
	1	50	13.43	13.45	13.27		0
	1	99	13.29	13.24	13.24		0
	50	0	13.22	13.18	12.98	0-2	0
	50	25	13.30	13.10	12.94		0
	50	50	13.28	13.15	13.00		0
	100	0	13.26	13.09	12.90		0
64QAM	1	0	13.27	13.28	12.94	0-2	0
	1	50	13.34	13.42	13.19		0
	1	99	13.30	13.19	13.10		0
	50	0	13.19	13.14	12.93	0-3	0
	50	25	13.25	13.08	12.92		0
	50	50	13.23	13.12	12.99		0
	100	0	13.26	13.08	12.94		0
256QAM	1	0	13.30	13.25	13.01	0-5	0
	1	50	13.42	13.29	13.07		0
	1	99	13.43	13.33	13.17		0
	50	0	13.16	13.11	12.90		0
	50	25	13.28	13.09	12.92		0
	50	50	13.27	13.16	12.98		0
	100	0	13.26	13.08	12.93		0

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Table 8-26
LTE Band 25 (PCS) Measured P_{Limit} Antenna 3a - 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	13.71	13.52	13.83	0	0
	1	50	13.83	13.78	**13.94**		0
	1	99	13.73	13.61	13.86		0
	50	0	13.81	13.80	13.82	0-1	0
	50	25	13.88	13.81	13.88		0
	50	50	13.85	13.87	**13.92**		0
	100	0	13.82	13.67	13.85		0
16QAM	1	0	14.06	13.78	13.68	0-1	0
	1	50	14.09	13.83	13.83		0
	1	99	13.99	13.58	13.69		0
	50	0	13.72	13.68	13.71	0-2	0
	50	25	13.79	13.69	13.77		0
	50	50	13.76	13.75	13.76		0
	100	0	13.75	13.66	13.74		0
64QAM	1	0	13.74	13.99	13.85	0-2	0
	1	50	13.91	14.04	14.05		0
	1	99	13.75	13.81	13.93		0
	50	0	13.69	13.69	13.70	0-3	0
	50	25	13.77	13.72	13.78		0
	50	50	13.74	13.77	13.80		0
	100	0	13.72	13.66	13.78		0
256QAM	1	0	13.86	13.82	13.49	0-5	0
	1	50	13.88	13.96	13.75		0
	1	99	13.76	14.01	13.96		0
	50	0	13.68	13.63	13.64		0
	50	25	13.78	13.71	13.78		0
	50	50	13.72	13.70	13.77		0
	100	0	13.77	13.68	13.71		0

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Table 8-27
LTE Band 25 (PCS) Measured P_{Limit} Antenna 4 - 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	13.54	13.73	13.66	0	0
	1	50	13.57	**13.79**	13.70		0
	1	99	13.51	13.68	13.63		0
	50	0	13.78	13.74	13.71	0-1	0
	50	25	13.83	**13.84**	13.77		0
	50	50	13.82	13.79	13.74		0
	100	0	13.76	13.78	13.77		0
16QAM	1	0	13.73	13.81	13.87	0-1	0
	1	50	13.85	13.95	14.08		0
	1	99	13.71	13.81	13.94		0
	50	0	13.79	13.76	13.69	0-2	0
	50	25	13.87	13.80	13.67		0
	50	50	13.85	13.83	13.75		0
	100	0	13.82	13.78	13.66		0
64QAM	1	0	13.94	13.95	13.77	0-2	0
	1	50	14.09	14.01	13.92		0
	1	99	13.76	13.93	13.67		0
	50	0	13.74	13.72	13.63	0-3	0
	50	25	13.83	13.81	13.63		0
	50	50	13.81	13.73	13.67		0
	100	0	13.80	13.74	13.62		0
256QAM	1	0	13.96	13.66	13.74	0-5	0
	1	50	13.99	13.94	13.88		0
	1	99	13.98	13.88	13.83		0
	50	0	13.71	13.80	13.66		0
	50	25	13.83	13.78	13.69		0
	50	50	13.79	13.79	13.71		0
	100	0	13.78	13.79	13.67		0

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8.2.9 LTE Band 30

Table 8-28
LTE Band 30 Measured P_{Limit} Antenna 1b - 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	12.81	0	0
	1	25	**12.88**		0
	1	49	12.79		0
	25	0	12.96	0-1	0
	25	12	**12.97**		0
	25	25	12.95		0
	50	0	12.87		0
16QAM	1	0	12.91	0-1	0
	1	25	12.78		0
	1	49	12.77		0
	25	0	12.71	0-2	0
	25	12	12.74		0
	25	25	12.70		0
	50	0	12.69		0
64QAM	1	0	12.81	0-2	0
	1	25	12.85		0
	1	49	12.86		0
	25	0	12.69	0-3	0
	25	12	12.70		0
	25	25	12.71		0
	50	0	12.71		0
256QAM	1	0	12.76	0-5	0
	1	25	12.80		0
	1	49	12.75		0
	25	0	12.65		0
	25	12	12.66		0
	25	25	12.65		0
	50	0	12.63		0

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Table 8-29
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	13.23	0	0
	1	25	**13.35**		0
	1	49	13.24		0
	25	0	**13.36**	0-1	0
	25	12	13.35		0
	25	25	13.27		0
	50	0	13.28		0
16QAM	1	0	13.54	0-1	0
	1	25	13.48		0
	1	49	13.21		0
	25	0	13.22	0-2	0
	25	12	13.22		0
	25	25	13.23		0
	50	0	13.17		0
64QAM	1	0	13.38	0-2	0
	1	25	13.24		0
	1	49	13.22		0
	25	0	13.13	0-3	0
	25	12	13.25		0
	25	25	13.17		0
	50	0	13.12		0
256QAM	1	0	13.30	0-5	0
	1	25	13.34		0
	1	49	13.19		0
	25	0	13.11		0
	25	12	13.14		0
	25	25	13.17		0
	50	0	13.13		0

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Table 8-30
LTE Band 30 Measured P_{Limit} Antenna 3a - 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	**11.17**	0	0
	1	25	11.11		0
	1	49	11.09		0
	25	0	11.19	0-1	0
	25	12	**11.20**		0
	25	25	11.16		0
	50	0	11.13		0
16QAM	1	0	11.54	0-1	0
	1	25	11.55		0
	1	49	11.40		0
	25	0	11.15	0-2	0
	25	12	11.21		0
	25	25	11.17		0
	50	0	11.15		0
64QAM	1	0	11.32	0-2	0
	1	25	11.19		0
	1	49	11.21		0
	25	0	11.11	0-3	0
	25	12	11.15		0
	25	25	11.11		0
	50	0	11.11		0
256QAM	1	0	11.32	0-5	0
	1	25	11.29		0
	1	49	11.30		0
	25	0	11.14		0
	25	12	11.15		0
	25	25	11.14		0
	50	0	11.14		0

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Table 8-31
LTE Band 30 Measured P_{Limit} Antenna 4 - 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	10.23	0	0
	1	25	**10.26**		0
	1	49	10.24		0
	25	0	10.32	0-1	0
	25	12	**10.35**		0
	25	25	10.34		0
	50	0	10.22		0
16QAM	1	0	10.43	0-1	0
	1	25	10.43		0
	1	49	10.32		0
	25	0	10.27	0-2	0
	25	12	10.31		0
	25	25	10.27		0
	50	0	10.27		0
64QAM	1	0	10.42	0-2	0
	1	25	10.42		0
	1	49	10.39		0
	25	0	10.27	0-3	0
	25	12	10.27		0
	25	25	10.26		0
	50	0	10.25		0
256QAM	1	0	10.41	0-5	0
	1	25	10.47		0
	1	49	10.29		0
	25	0	10.29		0
	25	12	10.33		0
	25	25	10.28		0
	50	0	10.29		0

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8.2.10 LTE Band 7

Table 8-32
LTE Band 7 Measured P_{Limit} Antenna 1b - 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	13.03	13.00	12.69	0	0
	1	50	**13.14**	13.12	12.78		0
	1	99	13.01	12.99	12.73		0
	50	0	**13.20**	13.01	13.04	0-1	0
	50	25	13.09	13.10	13.05		0
	50	50	13.07	12.98	12.99		0
	100	0	13.05	13.02	13.03		0
16QAM	1	0	12.95	13.02	13.10	0-1	0
	1	50	13.08	13.13	13.19		0
	1	99	12.95	13.03	13.12		0
	50	0	12.98	12.96	12.92	0-2	0
	50	25	12.97	12.92	12.88		0
	50	50	12.89	12.86	12.84		0
	100	0	12.90	12.90	12.89		0
64QAM	1	0	13.00	12.87	12.92	0-2	0
	1	50	13.02	13.05	13.06		0
	1	99	12.89	12.80	12.95		0
	50	0	12.88	12.81	12.85	0-3	0
	50	25	12.76	12.76	12.86		0
	50	50	12.77	12.77	12.83		0
	100	0	12.79	12.76	12.85		0
256QAM	1	0	12.92	12.90	12.90	0-5	0
	1	50	12.95	12.87	12.92		0
	1	99	12.89	12.90	12.97		0
	50	0	12.86	12.74	12.80		0
	50	25	12.76	12.74	12.84		0
	50	50	12.77	12.78	12.86		0
	100	0	12.72	12.76	12.83		0

Table 8-33
LTE Band 7 Uplink Carrier Aggregation Measured P_{Limit} Antenna 1b

	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	12.84	12.69

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Table 8-34
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]
			Conducted Power [dBm]				
QPSK	1	0	12.61	12.57	12.59	0	0
	1	50	**12.76**	12.65	12.72		0
	1	99	12.64	12.45	12.59		0
	50	0	12.76	12.69	12.70	0-1	0
	50	25	**12.81**	12.73	12.74		0
	50	50	12.71	12.68	12.67		0
	100	0	12.70	12.62	12.71		0
16QAM	1	0	12.62	12.43	12.62	0-1	0
	1	50	12.81	12.51	12.64		0
	1	99	12.70	12.44	12.58		0
	50	0	12.55	12.53	12.45	0-2	0
	50	25	12.51	12.48	12.49		0
	50	50	12.52	12.45	12.43		0
	100	0	12.49	12.44	12.45		0
64QAM	1	0	12.61	12.56	12.56	0-2	0
	1	50	12.77	12.76	12.63		0
	1	99	12.73	12.60	12.43		0
	50	0	12.57	12.56	12.53	0-3	0
	50	25	12.52	12.50	12.51		0
	50	50	12.48	12.45	12.46		0
	100	0	12.47	12.47	12.49		0
256QAM	1	0	12.59	12.66	12.51	0-5	0
	1	50	12.74	12.69	12.60		0
	1	99	12.65	12.58	12.51		0
	50	0	12.53	12.54	12.44		0
	50	25	12.50	12.53	12.42		0
	50	50	12.46	12.48	12.44		0
	100	0	12.46	12.47	12.46		0

Table 8-35
LTE Band 7 Uplink Carrier Aggregation Measured P_{Limit} Antenna 2b

	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	12.76	12.64

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Table 8-36
LTE Band 7 Measured P_{Limit} Antenna 3a - 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	10.03	**10.37**	10.22	0	0
	1	50	10.21	10.34	10.17		0
	1	99	10.23	10.26	10.08		0
	50	0	10.31	**10.38**	10.28	0-1	0
	50	25	10.32	10.35	10.26		0
	50	50	10.36	10.36	10.29		0
	100	0	10.30	10.32	10.24		0
16QAM	1	0	9.86	10.01	9.94	0-1	0
	1	50	10.03	10.02	10.05		0
	1	99	10.03	9.88	9.98		0
	50	0	9.93	9.84	9.79	0-2	0
	50	25	9.94	9.79	9.82		0
	50	50	9.91	9.79	9.79		0
	100	0	9.91	9.82	9.82		0
64QAM	1	0	9.97	10.04	9.84	0-2	0
	1	50	10.24	9.88	9.82		0
	1	99	10.06	9.78	9.76		0
	50	0	9.94	9.81	9.74	0-3	0
	50	25	9.92	9.80	9.77		0
	50	50	9.93	9.76	9.79		0
	100	0	9.89	9.77	9.77		0
256QAM	1	0	9.95	9.99	9.88	0-5	0
	1	50	10.06	9.86	9.86		0
	1	99	10.12	9.88	9.91		0
	50	0	9.87	9.78	9.67		0
	50	25	9.90	9.79	9.76		0
	50	50	9.92	9.78	9.75		0
	100	0	9.88	9.78	9.76		0

Table 8-37
LTE Band 7 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3a

	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	10.25	10.23

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Table 8-38
LTE Band 7 Measured P_{Limit} Antenna 4 - 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	11.43	11.42	11.30	0	0
	1	50	**11.46**	11.43	11.39		0
	1	99	11.36	11.34	11.26		0
	50	0	**11.52**	11.46	11.41	0-1	0
	50	25	11.47	11.44	11.40		0
	50	50	11.45	11.43	11.38		0
	100	0	11.42	11.40	11.32		0
16QAM	1	0	10.84	11.04	10.93	0-1	0
	1	50	10.91	11.06	11.05		0
	1	99	10.89	10.97	10.90		0
	50	0	10.96	10.97	10.88	0-2	0
	50	25	10.97	11.01	10.85		0
	50	50	10.95	10.95	10.84		0
	100	0	10.94	10.94	10.83		0
64QAM	1	0	11.03	11.06	11.04	0-2	0
	1	50	11.17	11.17	11.11		0
	1	99	11.07	10.96	11.08		0
	50	0	10.91	11.00	10.78	0-3	0
	50	25	10.92	11.02	10.88		0
	50	50	10.95	10.95	10.77		0
	100	0	10.88	10.94	10.81		0
256QAM	1	0	10.96	11.01	10.93	0-5	0
	1	50	11.09	11.10	11.08		0
	1	99	11.13	11.05	10.89		0
	50	0	10.94	10.93	10.82		0
	50	25	10.94	10.99	10.84		0
	50	50	10.91	10.88	10.80		0
	100	0	10.89	10.94	10.82		0

Table 8-39
LTE Band 7 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4 - 20 MHz Bandwidth

	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	11.30	11.36

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8.2.11 LTE Band 41

Table 8-40
LTE Band 41 PC3 Measured P_{Limit} Antenna 1b - 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	14.47	14.40	14.41	14.39	14.47	0	0
	1	50	14.56	14.48	14.49	14.44	14.54		0
	1	99	14.47	14.38	14.46	14.50	**14.57**		0
	50	0	14.57	14.60	14.53	14.49	14.51	0-1	0
	50	25	14.55	14.53	14.60	14.59	**14.61**		0
	50	50	14.52	14.54	14.51	14.49	14.49		0
	100	0	14.53	14.49	14.54	14.52	14.56		0
16QAM	1	0	14.42	14.35	14.51	14.26	14.29	0-1	0
	1	50	14.69	14.31	14.65	14.53	14.52		0
	1	99	14.37	14.19	14.33	14.51	14.49		0
	50	0	14.56	14.50	14.45	14.39	14.46	0-2	0
	50	25	14.53	14.54	14.51	14.40	14.52		0
	50	50	14.46	14.42	14.41	14.38	14.41		0
	100	0	14.46	14.48	14.51	14.42	14.46		0
64QAM	1	0	14.47	14.32	14.45	14.30	14.32	0-2	0
	1	50	14.59	14.57	14.31	14.37	14.42		0
	1	99	14.42	14.33	14.37	14.41	14.43		0
	50	0	14.58	14.50	14.45	14.36	14.46	0-3	0
	50	25	14.53	14.50	14.49	14.46	14.51		0
	50	50	14.44	14.39	14.39	14.37	14.39		0
	100	0	14.47	14.48	14.47	14.40	14.48		0
256QAM	1	0	14.51	14.35	14.36	14.34	14.27	0-5	0
	1	50	14.55	14.38	14.58	14.49	14.66		0
	1	99	14.52	14.29	14.40	14.46	14.54		0
	50	0	14.58	14.50	14.44	14.38	14.40		0
	50	25	14.53	14.52	14.49	14.44	14.51		0
	50	50	14.45	14.41	14.40	14.37	14.42		0
	100	0	14.47	14.46	14.46	14.41	14.42		0

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

	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	39750	2506.0	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	14.67	14.52

Table 8-42
LTE Band 41 PC2 Measured P_{Limit} Antenna 1b - 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	16.38	16.50	16.33	16.33	16.22	0	0
	1	50	16.49	16.52	16.40	16.42	16.34		0
	1	99	16.41	**16.54**	16.34	16.50	16.32		0
	50	0	16.47	16.41	16.39	16.33	16.43	0-1	0
	50	25	16.49	16.43	16.42	16.45	16.48		0
	50	50	16.41	**16.51**	16.38	16.37	16.40		0
	100	0	16.40	16.38	16.39	16.39	16.45		0

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Table 8-43
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 1b

	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	39750	2506.0	QPSK	50	50	LTE B41 PC2	20	39948	2525.8	QPSK	50	0	16.62	16.41

Table 8-44
LTE Band 41 PC3 Measured P_{Limit} Antenna 2b - 20 MHz Bandwidth

LTE Band 41 20 MHzBandwidth									
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	15.19	15.14	15.25	15.13	14.91	0	0
	1	50	15.24	15.18	15.26	15.17	14.95		0
	1	99	15.23	15.28	**15.40**	15.29	15.03		0
	50	0	15.37	15.39	15.32	15.22	15.15	0-1	0
	50	25	15.46	15.32	**15.47**	15.30	15.19		0
	50	50	15.38	15.38	15.33	15.25	15.13		0
	100	0	15.37	15.33	15.35	15.28	15.18		0
16QAM	1	0	15.13	15.18	15.02	14.93	14.73	0-1	0
	1	50	15.18	15.13	14.90	15.11	14.83		0
	1	99	15.28	14.97	15.10	15.13	14.93		0
	50	0	15.29	15.18	15.06	14.94	14.89	0-2	0
	50	25	15.32	15.16	15.09	15.05	14.97		0
	50	50	15.24	15.14	15.01	14.98	14.85		0
	100	0	15.27	15.11	15.04	15.00	14.93		0
64QAM	1	0	15.14	15.01	14.95	14.81	14.85	0-2	0
	1	50	15.13	15.07	15.02	14.84	14.81		0
	1	99	15.08	14.95	14.99	14.96	14.90		0
	50	0	15.25	15.16	15.01	15.00	14.91	0-3	0
	50	25	15.29	15.12	15.09	15.08	14.96		0
	50	50	15.22	15.10	15.00	14.99	14.89		0
	100	0	15.24	15.10	15.07	15.03	14.90		0
256QAM	1	0	15.08	14.99	15.02	14.85	14.83	0-5	0
	1	50	15.18	15.22	14.91	14.82	14.98		0
	1	99	15.03	15.06	14.93	14.84	14.89		0
	50	0	15.26	15.15	15.01	14.95	14.86		0
	50	25	15.29	15.13	15.09	14.99	14.96		0
	50	50	15.23	15.07	15.02	14.97	14.87		0
	100	0	15.27	15.08	15.04	14.97	14.89		0

Table 8-45
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 2b

	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	15.19	14.91

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Table 8-46
LTE Band 41 PC2 Measured P_{Limit} Antenna 2b - 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	17.09	16.86	16.85	16.84	16.67	0	0
	1	50	**17.16**	16.98	16.95	16.94	16.72		0
	1	99	17.05	16.90	16.92	16.98	16.71		0
	50	0	**17.11**	17.10	16.97	16.88	16.78	0-1	0
	50	25	17.07	17.08	17.01	16.94	16.85		0
	50	50	17.06	17.01	16.92	16.86	16.79		0
	100	0	17.03	17.09	16.96	16.90	16.82		0

Table 8-47
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 2b

	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	16.70	16.67

Table 8-48
LTE Band 41 PC3 Measured P_{Limit} Antenna 3a - 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	13.07	13.01	12.75	12.75	12.59	0	0
	1	50	12.96	**13.17**	12.73	12.55	12.50		0
	1	99	12.86	13.10	12.70	12.68	12.42		0
	50	0	13.14	**13.23**	12.74	12.66	12.55	0-1	0
	50	25	13.05	13.15	12.75	12.63	12.66		0
	50	50	13.01	13.06	12.78	12.75	12.59		0
	100	0	13.03	13.08	12.72	12.70	12.52		0
16QAM	1	0	12.37	12.47	12.44	12.30	12.21	0-1	0
	1	50	12.64	12.85	12.55	12.48	12.45		0
	1	99	12.77	12.59	12.36	12.37	12.32		0
	50	0	12.17	12.36	12.09	12.00	12.00	0-2	0
	50	25	12.19	12.38	12.07	12.10	12.00		0
	50	50	12.24	12.29	12.18	12.08	12.05		0
	100	0	12.19	12.31	12.00	12.10	12.00		0
64QAM	1	0	12.37	12.83	12.36	12.20	12.18	0-2	0
	1	50	12.64	13.08	12.50	12.35	12.61		0
	1	99	12.62	12.71	12.44	12.24	12.42		0
	50	0	12.26	12.36	12.04	12.05	12.00	0-3	0
	50	25	12.22	12.37	12.09	12.08	12.00		0
	50	50	12.29	12.24	12.00	12.07	12.03		0
	100	0	12.25	12.32	12.06	12.10	12.00		0
256QAM	1	0	12.28	12.67	12.33	12.27	12.20	0-5	0
	1	50	12.56	12.59	12.34	12.39	12.06		0
	1	99	12.67	12.50	12.30	12.12	12.02		0
	50	0	12.15	12.39	12.12	12.00	12.00		0
	50	25	12.22	12.36	12.09	12.11	11.98		0
	50	50	12.27	12.26	12.17	12.10	12.00		0
	100	0	12.20	12.30	12.19	12.12	11.95		0

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Table 8-49
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3a

	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	0	LTE B41	20	40857	2616.7	QPSK	1	99	12.48	12.75

Table 8-50
LTE Band 41 PC2 Measured P_{Limit} Antenna 3a - 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	14.38	14.81	14.58	14.34	14.27	0	0
	1	50	14.81	**14.85**	14.37	14.36	14.18		0
	1	99	**14.85**	14.69	14.42	14.38	14.21		0
	50	0	14.72	**14.90**	14.53	14.40	14.28	0-1	0
	50	25	14.83	14.78	14.49	14.48	14.27		0
	50	50	**14.90**	14.64	14.51	14.48	14.32		0
	100	0	14.79	14.72	14.50	14.46	14.26		0

Table 8-51
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3a

	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	0	LTE B41 PC2	20	40857	2616.7	QPSK	1	99	14.08	14.34

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Table 8-52
LTE Band 41 PC3 Measured P_{Limit} Antenna 4 - 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	14.06	14.08	13.85	13.93	13.68	0	0
	1	50	14.12	**14.15**	13.91	13.89	13.74		0
	1	99	13.95	13.93	13.90	13.87	13.70		0
	50	0	14.16	14.18	13.96	13.95	13.81	0-1	0
	50	25	14.15	**14.20**	14.01	14.01	13.86		0
	50	50	14.10	14.03	14.02	13.97	13.83		0
	100	0	14.12	14.14	13.96	14.01	13.81		0
16QAM	1	0	14.09	14.00	13.87	13.78	13.89	0-1	0
	1	50	14.25	14.01	14.11	14.22	13.96		0
	1	99	14.08	14.02	14.05	13.95	13.75		0
	50	0	14.18	13.98	13.93	13.91	13.77	0-2	0
	50	25	14.08	13.89	13.95	13.92	13.79		0
	50	50	14.06	13.91	13.99	13.92	13.78		0
	100	0	14.11	13.88	13.92	13.91	13.81		0
64QAM	1	0	13.88	13.70	13.71	13.71	13.61	0-2	0
	1	50	14.07	13.94	13.78	13.62	13.61		0
	1	99	13.84	13.74	13.75	13.75	13.60		0
	50	0	14.01	13.82	13.76	13.69	13.67	0-3	0
	50	25	14.02	13.73	13.79	13.72	13.70		0
	50	50	13.99	13.74	13.82	13.80	13.73		0
	100	0	14.00	13.75	13.80	13.72	13.71		0
256QAM	1	0	13.98	13.81	13.70	13.65	13.68	0-5	0
	1	50	13.87	13.86	13.59	13.71	13.63		0
	1	99	13.95	13.78	13.68	13.80	13.72		0
	50	0	14.03	13.81	13.78	13.71	13.69		0
	50	25	14.03	13.76	13.84	13.76	13.71		0
	50	50	14.01	13.73	13.81	13.81	13.68		0
	100	0	14.00	13.72	13.81	13.74	13.73		0

Table 8-53
LTE Band 41 PC3 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4

	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	14.01	13.68

Table 8-54
LTE Band 41 PC2 Measured P_{Limit} Antenna 4 - 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	15.51	15.48	15.31	15.28	15.30	0	0
	1	50	**15.58**	15.56	15.33	15.35	15.32		0
	1	99	15.39	15.42	15.40	15.36	15.39		0
	50	0	**15.64**	15.50	15.47	15.39	15.28	0-1	0
	50	25	15.58	15.44	15.50	15.44	15.35		0
	50	50	15.56	15.45	15.52	15.41	15.32		0
	100	0	15.53	15.40	15.48	15.37	15.31		0

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Table 8-55
LTE Band 41 PC2 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4

	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	15.34	15.30

Table 8-56
LTE Band 48 Measured P_{Limit} Antenna 1a - 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	12.32	12.27	12.15	12.30	0	0
	1	50	12.36	**12.43**	12.30	12.40		0
	1	99	12.34	12.26	12.22	12.30		0
	50	0	12.45	12.43	12.30	12.39	0-1	0
	50	25	12.44	**12.47**	12.42	12.46		0
	50	50	12.46	12.44	12.39	12.45		0
	100	0	12.41	12.42	12.35	12.41		0
16QAM	1	0	12.22	12.43	12.47	12.41	0-1	0
	1	50	12.38	12.58	12.61	12.57		0
	1	99	12.35	12.51	12.58	12.42		0
	50	0	12.46	12.50	12.51	12.48	0-2	0
	50	25	12.48	12.53	12.52	12.50		0
	50	50	12.48	12.54	12.63	12.58		0
	100	0	12.45	12.52	12.52	12.49		0
64QAM	1	0	12.28	12.34	12.39	12.47	0-2	0
	1	50	12.42	12.42	12.51	12.60		0
	1	99	12.38	12.46	12.40	12.38		0
	50	0	12.45	12.49	12.52	12.47	0-3	0
	50	25	12.49	12.54	12.54	12.50		0
	50	50	12.47	12.53	12.60	12.55		0
	100	0	12.47	12.48	12.53	12.49		0
256QAM	1	0	12.39	12.35	12.33	12.43	0-5	0
	1	50	12.41	12.43	12.39	12.42		0
	1	99	12.37	12.53	12.34	12.41		0
	50	0	12.43	12.44	12.47	12.42		0
	50	25	12.44	12.47	12.48	12.42		0
	50	50	12.41	12.49	12.57	12.50		0
	100	0	12.43	12.47	12.46	12.42		0

Table 8-57
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} Antenna 1a

	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	55773	3603.3	QPSK	50	50	LTE B48	20	55971	3623.1	QPSK	50	0	12.70	12.44

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Table 8-58
LTE Band 48 Measured P_{Limit} Antenna 2a - 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	9.47	9.42	9.52	9.56	0	0
	1	50	9.55	9.52	9.60	9.59		0
	1	99	9.56	9.57	**9.64**	9.53		0
	50	0	9.43	9.57	9.59	9.48	0-1	0
	50	25	9.50	9.60	9.63	9.51		0
	50	50	9.53	9.61	**9.68**	9.50		0
	100	0	9.52	9.53	9.59	9.48		0
16QAM	1	0	9.60	9.47	9.44	9.37	0-1	0
	1	50	9.71	9.66	9.54	9.55		0
	1	99	9.73	9.65	9.35	9.33		0
	50	0	9.36	9.53	9.31	9.15	0-2	0
	50	25	9.40	9.30	9.27	9.20		0
	50	50	9.37	9.33	9.34	9.21		0
	100	0	9.34	9.31	9.26	9.18		0
64QAM	1	0	9.45	9.28	9.29	9.26	0-2	0
	1	50	9.69	9.45	9.55	9.39		0
	1	99	9.53	9.42	9.33	9.30		0
	50	0	9.34	9.30	9.23	9.16	0-3	0
	50	25	9.40	9.34	9.27	9.20		0
	50	50	9.36	9.36	9.29	9.20		0
	100	0	9.30	9.31	9.22	9.13		0
256QAM	1	0	9.31	9.28	9.31	9.22	0-5	0
	1	50	9.56	9.43	9.45	9.35		0
	1	99	9.49	9.49	9.36	9.25		0
	50	0	9.28	9.18	9.22	9.15		0
	50	25	9.38	9.22	9.27	9.21		0
	50	50	9.42	9.32	9.32	9.07		0
	100	0	9.28	9.30	9.22	9.14		0

Table 8-59
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} Antenna 2a

	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	55340	3560.0	QPSK	50	50	LTE B48	20	55538	3579.8	QPSK	50	0	9.30	9.53

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Table 8-60
LTE Band 48 Measured P_{Limit} Antenna 3b - 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	13.53	13.51	13.54	13.60	0	0
	1	50	13.52	**13.75**	13.59	13.68		0
	1	99	13.63	13.56	13.47	13.55		0
	50	0	13.57	13.77	13.64	13.68	0-1	0
	50	25	13.76	**13.83**	13.69	13.72		0
	50	50	13.74	13.80	13.63	13.63		0
	100	0	13.71	13.74	13.64	13.71		0
16QAM	1	0	13.41	13.59	13.53	13.52	0-1	0
	1	50	13.62	13.81	13.57	13.56		0
	1	99	13.48	13.63	13.45	13.43		0
	50	0	13.58	13.74	13.65	13.67	0-2	0
	50	25	13.73	13.82	13.71	13.73		0
	50	50	13.72	13.80	13.66	13.63		0
	100	0	13.68	13.78	13.67	13.69		0
64QAM	1	0	13.24	13.43	13.39	13.36	0-2	0
	1	50	13.38	13.44	13.41	13.41		0
	1	99	13.28	13.41	13.32	13.34		0
	50	0	13.34	13.49	13.47	13.48	0-3	0
	50	25	13.48	13.61	13.51	13.55		0
	50	50	13.47	13.59	13.48	13.53		0
	100	0	13.44	13.56	13.49	13.51		0
256QAM	1	0	13.26	13.34	13.34	13.37	0-5	0.7
	1	50	13.42	13.43	13.32	13.46		0.7
	1	99	13.36	13.52	13.31	13.46		0.7
	50	0	13.28	13.42	13.42	13.46		0.7
	50	25	13.41	13.56	13.49	13.51		0.7
	50	50	13.41	13.52	13.43	13.49		0.7
	100	0	13.39	13.52	13.44	13.46		0.7

Table 8-61
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} Antenna 3b

	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	13.96	13.68

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Table 8-62
LTE Band 48 Measured P_{Limit} Antenna 4 - 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	13.18	13.31	13.23	13.26	0	0
	1	50	13.34	**13.49**	13.30	13.37		0
	1	99	13.24	13.33	13.20	13.29		0
	50	0	13.41	13.47	13.41	13.46	0-1	0
	50	25	13.49	**13.50**	13.44	13.49		0
	50	50	13.47	13.49	13.39	13.48		0
	100	0	13.45	13.48	13.38	13.44		0
16QAM	1	0	13.05	13.33	13.19	13.17	0-1	0
	1	50	13.25	13.43	13.19	13.40		0
	1	99	13.33	13.30	13.13	13.26		0
	50	0	13.10	13.24	13.02	13.10	0-2	0
	50	25	13.14	13.26	13.04	13.19		0
	50	50	13.17	13.24	13.02	13.20		0
	100	0	13.12	13.26	13.01	13.08		0
64QAM	1	0	13.15	13.28	13.12	13.21	0-2	0
	1	50	13.29	13.29	13.09	13.45		0
	1	99	13.27	13.28	13.01	13.28		0
	50	0	13.10	13.24	13.02	13.08	0-3	0
	50	25	13.15	13.23	13.04	13.20		0
	50	50	13.15	13.22	13.03	13.21		0
	100	0	13.11	13.23	13.00	13.11		0
256QAM	1	0	13.01	13.31	13.27	13.23	0-5	0
	1	50	13.10	13.35	13.10	13.26		0
	1	99	13.26	13.34	13.27	13.40		0
	50	0	13.08	13.20	12.99	12.99		0
	50	25	13.11	13.20	12.99	13.16		0
	50	50	13.11	13.18	12.97	13.17		0
	100	0	13.09	13.19	12.98	13.06		0

Table 8-63
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} Antenna 4

	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	55773	3603.3	QPSK	50	50	LTE B48	20	55971	3623.1	QPSK	50	0	13.41	13.49

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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.

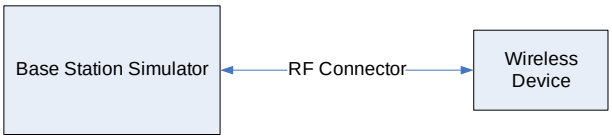

Figure 8-2
Power Measurement Setup

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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 the 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.

8.3.1 NR Band n71

Table 8-64
NR Band n71 Measured P_{Limit} Antenna 3b - 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	17.65	0	0.0
	1	53	**17.76**		0.0
	1	104	17.72		0.0
	50	0	17.62	0-1	0.0
	50	28	**17.71**	0	0.0
	50	56	17.65	0-1	0.0
	100	0	17.67		0.0
DFT-s-OFDM 16QAM	1	1	17.88	0-1	0.0
CP-OFDM QPSK	1	1	17.77	0-1.5	0.0

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Table 8-65
NR Band n71 Measured P_{Limit} Antenna 4 - 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	20.81	0	0.0
	1	53	**20.84**		0.0
	1	104	20.76		0.0
	50	0	20.78	0-1	0.0
	50	28	**20.81**	0	0.0
	50	56	20.77	0-1	0.0
	100	0	20.80		0.0
DFT-s-OFDM 16QAM	1	1	20.73	0-1	0.0
CP-OFDM QPSK	1	1	20.96	0-1.5	0.0

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8.3.2 NR Band n12

Table 8-66
NR Band n12 Measured P_{Limit} Antenna 3b - 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	**17.34**	0	0.0
	1	40	17.24		0.0
	1	77	17.26		0.0
	36	0	17.30	0-1	0.0
	36	22	17.23	0	0.0
	36	43	**17.31**	0-1	0.0
	75	0	17.28		0.0
DFT-s-OFDM 16QAM	1	1	17.27	0-1	0.0
CP-OFDM QPSK	1	1	17.22	0-1.5	0.0

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Table 8-67
NR Band n12 Measured P_{Limit} Antenna 4 - 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	19.00	0	0.0
	1	40	**19.01**		0.0
	1	77	18.92		0.0
	36	0	18.94	0-1	0.0
	36	22	**18.99**	0	0.0
	36	43	18.91	0-1	0.0
	75	0	18.98		0.0
DFT-s-OFDM 16QAM	1	1	18.66	0-1	0.0
CP-OFDM QPSK	1	1	19.05	0-1.5	0.0

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8.3.3 NR Band n14

Table 8-68
NR Band n14 Measured P_{Limit} Antenna 3b - 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	16.58	0	0.0
	1	26	16.59		0.0
	1	50	**16.61**		0.0
	25	0	16.53	0-1	0.0
	25	14	**16.57**	0	0.0
	25	27	16.55	0-1	0.0
	50	0	16.46		0.0
DFT-s-OFDM 16QAM	1	1	16.53	0-1	0.0
CP-OFDM QPSK	1	1	16.50	0-1.5	0.0

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Table 8-69
NR Band n14 Measured P_{Limit} Antenna 4 - 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	**17.97**	0	0.0
	1	26	17.96		0.0
	1	50	17.87		0.0
	25	0	17.92	0-1	0.0
	25	14	**17.96**	0	0.0
	25	27	17.94	0-1	0.0
	50	0	17.93		0.0
DFT-s-OFDM 16QAM	1	1	18.09	0-1	0.0
CP-OFDM QPSK	1	1	17.83	0-1.5	0.0

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8.3.4 NR Band n26

Table 8-70
NR Band n26 Measured P_{Limit} Antenna 3b - 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	16.06	0	0.0
	1	53	**16.09**		0.0
	1	104	16.05		0.0
	50	0	**16.12**	0-1	0.0
	50	28	16.04	0	0.0
	50	56	16.02	0-1	0.0
	100	0	16.03		0.0
DFT-s-OFDM 16QAM	1	1	15.93	0-1	0.0
CP-OFDM QPSK	1	1	15.96	0-1.5	0.0

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Table 8-71
NR Band n26 Measured P_{Limit} Antenna 4 - 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	18.03	0	0.0
	1	53	**18.13**		0.0
	1	104	18.07		0.0
	50	0	18.06	0-1	0.0
	50	28	**18.10**	0	0.0
	50	56	18.02	0-1	0.0
	100	0	18.07		0.0
DFT-s-OFDM 16QAM	1	1	17.96	0-1	0.0
CP-OFDM QPSK	1	1	18.08	0-1.5	0.0

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8.3.5 NR Band n5

Table 8-72
NR Band n5 Measured P_{Limit} Antenna 3b - 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	16.09	0	0.0
	1	53	**16.10**		0.0
	1	104	15.96		0.0
	50	0	**16.13**	0-1	0.0
	50	28	16.09	0	0.0
	50	56	16.03	0-1	0.0
	100	0	16.07		0.0
DFT-s-OFDM 16QAM	1	1	16.26	0-1	0.0
CP-OFDM QPSK	1	1	16.12	0-1.5	0.0

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Table 8-73
NR Band n5 Measured P_{Limit} Antenna 4 - 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	**18.17**	0	0.0
	1	53	18.13		0.0
	1	104	18.00		0.0
	50	0	**18.19**	0-1	0.0
	50	28	18.12	0	0.0
	50	56	18.06	0-1	0.0
	100	0	18.10		0.0
DFT-s-OFDM 16QAM	1	1	18.27	0-1	0.0
CP-OFDM QPSK	1	1	18.05	0-1.5	0.0

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8.3.6 NR Band n70

Table 8-74
NR Band n70 Measured P_{Limit} Antenna 1b - 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	12.11	0	0.0
	1	40	**12.14**		0.0
	1	77	12.00		0.0
	36	0	**12.10**	0-1	0.0
	36	22	12.06	0	0.0
	36	43	12.07	0-1	0.0
	75	0	12.09		0.0
DFT-s-OFDM 16QAM	1	1	11.76	0-1	0.0
CP-OFDM QPSK	1	1	12.08	0-1.5	0.0

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Table 8-75
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	12.23	0	0.0
	1	40	12.16		0.0
	1	77	**12.24**		0.0
	36	0	12.18	0-1	0.0
	36	22	**12.21**	0	0.0
	36	43	12.19	0-1	0.0
	75	0	12.17		0.0
DFT-s-OFDM 16QAM	1	1	12.21	0-1	0.0
CP-OFDM QPSK	1	1	12.34	0-1.5	0.0

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Table 8-76
NR Band n70 Measured P_{Limit} Antenna 3a - 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	**12.48**	0	0.0
	1	40	12.38		0.0
	1	77	12.35		0.0
	36	0	12.32	0-1	0.0
	36	22	12.28	0	0.0
	36	43	**12.34**	0-1	0.0
	75	0	12.25		0.0
DFT-s-OFDM 16QAM	1	1	12.32	0-1	0.0
CP-OFDM QPSK	1	1	12.39	0-1.5	0.0

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Table 8-77
NR Band n70 Measured P_{Limit} Antenna 4 - 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	14.09	0	0.0
	1	40	**14.15**		0.0
	1	77	14.11		0.0
	36	0	**14.09**	0-1	0.0
	36	22	14.07	0	0.0
	36	43	14.01	0-1	0.0
	75	0	14.06		0.0
DFT-s-OFDM 16QAM	1	1	14.13	0-1	0.0
CP-OFDM QPSK	1	1	14.06	0-1.5	0.0

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8.3.7 NR Band n66

Table 8-78
NR Band n66 Measured P_{Limit} Antenna 1b - 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	12.05	0	0.0
	1	108	**12.10**		0.0
	1	214	12.01		0.0
	108	0	**12.14**	0-1	0.0
	108	54	12.08	0	0.0
	108	108	12.04	0-1	0.0
	216	0	12.05		0.0
DFT-s-OFDM 16QAM	1	1	12.16	0-1	0.0
CP-OFDM QPSK	1	1	11.93	0-1.5	0.0

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Table 8-79
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	**12.22**	0	0.0
	1	108	12.21		0.0
	1	214	12.18		0.0
	108	0	**12.28**	0-1	0.0
	108	54	12.19	0	0.0
	108	108	12.23	0-1	0.0
	216	0	12.20		0.0
DFT-s-OFDM 16QAM	1	1	12.42	0-1	0.0
CP-OFDM QPSK	1	1	11.97	0-1.5	0.0

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Table 8-80
NR Band n66 Measured P_{Limit} Antenna 3a - 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	12.06	0	0.0
	1	108	12.21		0.0
	1	214	**12.31**		0.0
	108	0	12.24	0-1	0.0
	108	54	**12.34**	0	0.0
	108	108	12.19	0-1	0.0
	216	0	12.26		0.0
DFT-s-OFDM 16QAM	1	1	12.24	0-1	0.0
CP-OFDM QPSK	1	1	12.29	0-1.5	0.0

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Table 8-81
NR Band n66 Measured P_{Limit} Antenna 4 - 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	**14.15**	0	0.0
	1	108	14.08		0.0
	1	214	14.06		0.0
	108	0	14.14	0-1	0.0
	108	54	14.08	0	0.0
	108	108	**14.16**	0-1	0.0
	216	0	14.11		0.0
DFT-s-OFDM 16QAM	1	1	14.01	0-1	0.0
CP-OFDM QPSK	1	1	14.07	0-1.5	0.0

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8.3.8 NR Band n25

Table 8-82
NR Band n25 Measured P_{Limit} Antenna 1b - 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	**12.31**	0	0.0
	1	108	12.17		0.0
	1	214	12.20		0.0
	108	0	12.08	0-1	0.0
	108	54	12.11	0	0.0
	108	108	**12.15**	0-1	0.0
	216	0	12.11		0.0
DFT-s-OFDM 16QAM	1	1	12.11	0-1	0.0
CP-OFDM QPSK	1	1	12.22	0-1.5	0.0

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Table 8-83
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	13.21	0	0.0
	1	108	**13.31**		0.0
	1	214	13.24		0.0
	108	0	13.19	0-1	0.0
	108	54	**13.29**	0	0.0
	108	108	13.15	0-1	0.0
	216	0	13.27		0.0
DFT-s-OFDM 16QAM	1	1	13.26	0-1	0.0
CP-OFDM QPSK	1	1	13.37	0-1.5	0.0

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Table 8-84
NR Band n25 Measured P_{Limit} Antenna 3a - 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	13.93	0	0.0
	1	108	13.81		0.0
	1	214	**13.98**		0.0
	108	0	13.76	0-1	0.0
	108	54	13.79	0	0.0
	108	108	**13.84**	0-1	0.0
	216	0	13.82		0.0
DFT-s-OFDM 16QAM	1	1	13.83	0-1	0.0
CP-OFDM QPSK	1	1	13.85	0-1.5	0.0

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Table 8-85
NR Band n25 Measured P_{Limit} Antenna 4 - 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	13.27	0	0.0
	1	108	**13.30**		0.0
	1	214	13.28		0.0
	108	0	**13.32**	0-1	0.0
	108	54	13.27	0	0.0
	108	108	13.24	0-1	0.0
	216	0	13.25		0.0
DFT-s-OFDM 16QAM	1	1	13.39	0-1	0.0
CP-OFDM QPSK	1	1	13.25	0-1.5	0.0

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8.3.9 NR Band n30

Table 8-86
NR Band n30 Measured P_{Limit} Antenna 1b - 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	**12.87**	0	0.0
	1	26	12.78		0.0
	1	50	12.86		0.0
	25	0	12.79	0-1	0.0
	25	14	12.77	0	0.0
	25	27	**12.85**	0-1	0.0
	50	0	12.74		0.0
DFT-s-OFDM 16QAM	1	1	12.99	0-1	0.0
CP-OFDM QPSK	1	1	12.82	0-1.5	0.0

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Table 8-87
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	13.35	0	0.0
	1	26	**13.38**		0.0
	1	50	13.32		0.0
	25	0	13.29	0-1	0.0
	25	14	**13.33**	0	0.0
	25	27	13.32	0-1	0.0
	50	0	13.32		0.0
DFT-s-OFDM 16QAM	1	1	13.25	0-1	0.0
CP-OFDM QPSK	1	1	13.20	0-1.5	0.0

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Table 8-88
NR Band n30 Measured P_{Limit} Antenna 3a - 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	11.45	0	0.0
	1	26	11.42		0.0
	1	50	**11.51**		0.0
	25	0	**11.31**	0-1	0.0
	25	14	11.24	0	0.0
	25	27	11.25	0-1	0.0
	50	0	11.22		0.0
DFT-s-OFDM 16QAM	1	1	11.48	0-1	0.0
CP-OFDM QPSK	1	1	11.52	0-1.5	0.0

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Table 8-89
NR Band n30 Measured P_{Limit} Antenna 4 - 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	10.57	0	0.0
	1	26	10.65		0.0
	1	50	**10.69**		0.0
	25	0	10.61	0-1	0.0
	25	14	**10.66**	0	0.0
	25	27	10.64	0-1	0.0
	50	0	10.62		0.0
DFT-s-OFDM 16QAM	1	1	10.81	0-1	0.0
CP-OFDM QPSK	1	1	10.63	0-1.5	0.0

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8.3.10 NR Band n7

Table 8-90
NR Band n7 Measured P_{Limit} Antenna 1b - 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	**12.92**	0	0.0
	1	108	12.89		0.0
	1	214	12.74		0.0
	108	0	12.73	0-1	0.0
	108	54	12.69	0	0.0
	108	108	**12.77**	0-1	0.0
	216	0	12.73		0.0
DFT-s-OFDM 16QAM	1	1	12.91	0-1	0.0
CP-OFDM QPSK	1	1	12.89	0-1.5	0.0

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Table 8-91
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	**12.68**	0	0.0
	1	108	12.62		0.0
	1	214	12.54		0.0
	108	0	**12.60**	0-1	0.0
	108	54	12.53	0	0.0
	108	108	12.58	0-1	0.0
	216	0	12.55		0.0
DFT-s-OFDM 16QAM	1	1	12.83	0-1	0.0
CP-OFDM QPSK	1	1	12.63	0-1.5	0.0

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Table 8-92
NR Band n7 Measured P_{Limit} Antenna 3a - 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	**10.29**	0	0.0
	1	108	10.28		0.0
	1	214	10.22		0.0
	108	0	**10.35**	0-1	0.0
	108	54	10.27	0	0.0
	108	108	10.29	0-1	0.0
	216	0	10.25		0.0
DFT-s-OFDM 16QAM	1	1	10.35	0-1	0.0
CP-OFDM QPSK	1	1	10.52	0-1.5	0.0

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Table 8-93
NR Band n7 Measured P_{Limit} Antenna 4 - 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	11.10	0	0.0
	1	108	**11.12**		0.0
	1	214	11.07		0.0
	108	0	11.08	0-1	0.0
	108	54	11.06	0	0.0
	108	108	**11.13**	0-1	0.0
	216	0	11.11		0.0
DFT-s-OFDM 16QAM	1	1	11.17	0-1	0.0
CP-OFDM QPSK	1	1	11.21	0-1.5	0.0

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8.3.11 NR Band n41

Table 8-94
NR Band n41 Measured P_{Limit} Antenna 1b - 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	**12.58**	0	0.0
	1	137	12.55		0.0
	1	271	12.51		0.0
	135	0	**12.60**	0-1	0.0
	135	69	12.59	0	0.0
	135	138	12.53	0-1	0.0
	270	0	12.57		0.0
DFT-s-OFDM 16QAM	1	1	12.37	0-1	0.0
CP-OFDM QPSK	1	1	12.43	0-1.5	0.0

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Table 8-95
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	12.55	0	0.0
	1	137	**12.67**		0.0
	1	271	12.58		0.0
	135	0	12.72	0-1	0.0
	135	69	**12.77**	0	0.0
	135	138	12.73	0-1	0.0
	270	0	12.65		0.0
DFT-s-OFDM 16QAM	1	1	12.55	0-1	0.0
CP-OFDM QPSK	1	1	12.67	0-1.5	0.0

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Table 8-96
NR Band n41 Measured P_{Limit} Antenna 3a - 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	**10.50**	0	0.0
	1	137	10.35		0.0
	1	271	10.15		0.0
	135	0	**10.53**	0-1	0.0
	135	69	10.40	0	0.0
	135	138	10.37	0-1	0.0
	270	0	10.38		0.0
DFT-s-OFDM 16QAM	1	1	10.65	0-1	0.0
CP-OFDM QPSK	1	1	10.55	0-1.5	0.0

Table 8-97
NR Band n41 Measured P_{Limit} Antenna 4 - 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	**11.84**	0	0.0
	1	137	11.75		0.0
	1	271	11.78		0.0
	135	0	**11.79**	0-1	0.0
	135	69	11.72	0	0.0
	135	138	11.74	0-1	0.0
	270	0	11.77		0.0
DFT-s-OFDM 16QAM	1	1	11.85	0-1	0.0
CP-OFDM QPSK	1	1	11.92	0-1.5	0.0

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8.3.12 NR Band n48

Table 8-98
NR Band n48 Measured P_{Limit} Antenna 1a - 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	**10.59**	10.33	9.87	0	0.0
	1	53	10.03	10.10	9.74		0.0
	1	104	10.28	10.00	9.66		0.0
	50	0	10.12	10.23	9.83	0-1	0.0
	50	28	10.16	10.10	9.79	0	0.0
	50	56	**10.26**	9.92	9.66	0-1	0.0
	100	0	10.19	10.09	9.73		0.0
DFT-s-OFDM 16QAM	1	1	10.56	10.49	10.02	0-1	0.0
CP-OFDM QPSK	1	1	10.55	10.35	9.89	0-1.5	0.0

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Table 8-99
NR Band n48 Measured P_{Limit} Antenna 2a - 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	8.33	8.33	8.30	0	0.0
	1	53	8.33	8.33	8.27		0.0
	1	104	**8.54**	8.37	8.23		0.0
	50	0	8.36	8.32	8.25	0-1	0.0
	50	28	8.44	8.35	8.15	0	0.0
	50	56	**8.47**	8.21	8.05	0-1	0.0
	100	0	8.41	8.28	8.08		0.0
DFT-s-OFDM 16QAM	1	1	8.53	8.25	8.24	0-1	0.0
CP-OFDM QPSK	1	1	8.50	8.23	8.22	0-1.5	0.0

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Table 8-100
NR Band n48 Measured P_{Limit} Antenna 3b - 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	11.38	11.28	11.35	0	0.0
	1	53	11.41	11.29	11.36		0.0
	1	104	**11.46**	11.34	11.41		0.0
	50	0	**11.45**	11.31	11.44	0-1	0.0
	50	28	11.35	11.27	11.31	0	0.0
	50	56	11.36	11.23	11.32	0-1	0.0
	100	0	11.35	11.24	11.30		0.0
DFT-s-OFDM 16QAM	1	1	11.13	11.34	11.55	0-1	0.0
CP-OFDM QPSK	1	1	11.47	11.15	11.26	0-1.5	0.0

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Table 8-101
NR Band n48 Measured P_{Limit} Antenna 4 - 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	**11.32**	11.27	11.12	0	0.0
	1	53	11.24	11.08	11.10		0.0
	1	104	11.26	11.18	11.29		0.0
	50	0	**11.27**	11.12	11.06	0-1	0.0
	50	28	11.25	11.05	11.06	0	0.0
	50	56	11.21	11.00	11.15	0-1	0.0
	100	0	11.24	11.01	11.12		0.0
DFT-s-OFDM 16QAM	1	1	11.30	11.14	11.00	0-1	0.0
CP-OFDM QPSK	1	1	11.24	11.12	11.11	0-1.5	0.0

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8.3.13 NR Band n77 C

Table 8-102
NR Band n77 C Measured P_{Limit} Antenna 1a - 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	8.26	8.25	0	0.0
	1	137	**8.77**	8.28		0.0
	1	271	8.33	8.06		0.0
	135	0	8.50	8.34	0-1	0.0
	135	69	**8.53**	8.21	0	0.0
	135	138	8.30	8.25	0-1	0.0
	270	0	8.44	8.28		0.0
DFT-s-OFDM 16QAM	1	1	8.35	8.06	0-1	0.0
CP-OFDM QPSK	1	1	8.20	8.34	0-1.5	0.0

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Table 8-103
NR Band n77 C Measured P_{Limit} Antenna 2a - 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	7.22	7.21	0	0.0
	1	137	**7.43**	6.96		0.0
	1	271	7.15	7.01		0.0
	135	0	7.32	6.97	0-1	0.0
	135	69	**7.35**	6.85	0	0.0
	135	138	7.14	6.91	0-1	0.0
	270	0	7.22	7.02		0.0
DFT-s-OFDM 16QAM	1	1	6.95	7.22	0-1	0.0
CP-OFDM QPSK	1	1	7.16	7.15	0-1.5	0.0

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Table 8-104
NR Band n77 C Measured P_{Limit} Antenna 3b - 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	10.25	10.15	0	0.0
	1	137	**10.32**	10.24		0.0
	1	271	10.26	10.12		0.0
	135	0	10.28	10.17	0-1	0.0
	135	69	**10.34**	10.25	0	0.0
	135	138	10.25	10.24	0-1	0.0
	270	0	10.31	10.22		0.0
DFT-s-OFDM 16QAM	1	1	10.37	9.85	0-1	0.0
CP-OFDM QPSK	1	1	10.17	9.96	0-1.5	0.0

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Table 8-105
NR Band n77 C Measured P_{Limit} Antenna 4 - 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	8.96	8.86	0	0.0
	1	137	**8.97**	8.81		0.0
	1	271	8.92	8.78		0.0
	135	0	**9.04**	8.84	0-1	0.0
	135	69	9.00	8.73	0	0.0
	135	138	8.94	8.75	0-1	0.0
	270	0	8.96	8.82		0.0
DFT-s-OFDM 16QAM	1	1	9.18	8.78	0-1	0.0
CP-OFDM QPSK	1	1	9.07	8.79	0-1.5	0.0

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8.3.14 NR Band n77 DoD

Table 8-106
NR Band n77 DoD Measured P_{Limit} Antenna 1a - 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	8.46	0	0.0
	1	137	8.58		0.0
	1	271	**8.75**		0.0
	135	0	8.48	0-1	0.0
	135	69	**8.57**	0	0.0
	135	138	8.55	0-1	0.0
	270	0	8.51		0.0
DFT-s-OFDM 16QAM	1	1	8.94	0-1	0.0
CP-OFDM QPSK	1	1	8.34	0-1.5	0.0

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Table 8-107
NR Band n77 DoD Measured P_{Limit} Antenna 2a - 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	7.44	0	0.0
	1	137	7.52		0.0
	1	271	**7.54**		0.0
	135	0	7.44	0-1	0.0
	135	69	**7.57**	0	0.0
	135	138	7.50	0-1	0.0
	270	0	7.52		0.0
DFT-s-OFDM 16QAM	1	1	7.55	0-1	0.0
CP-OFDM QPSK	1	1	7.34	0-1.5	0.0

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Table 8-108
NR Band n77 DoD Measured P_{Limit} Antenna 3b - 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	10.20	0	0.0
	1	137	10.18		0.0
	1	271	**10.27**		0.0
	135	0	10.23	0-1	0.0
	135	69	**10.28**	0	0.0
	135	138	10.24	0-1	0.0
	270	0	10.20		0.0
DFT-s-OFDM 16QAM	1	1	10.11	0-1	0.0
CP-OFDM QPSK	1	1	10.24	0-1.5	0.0

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Table 8-109
NR Band n77 DoD Measured P_{Limit} Antenna 4 - 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	9.01	0	0.0
	1	137	8.96		0.0
	1	271	**9.04**		0.0
	135	0	**9.08**	0-1	0.0
	135	69	8.95	0	0.0
	135	138	8.99	0-1	0.0
	270	0	9.00		0.0
DFT-s-OFDM 16QAM	1	1	8.73	0-1	0.0
CP-OFDM QPSK	1	1	8.85	0-1.5	0.0

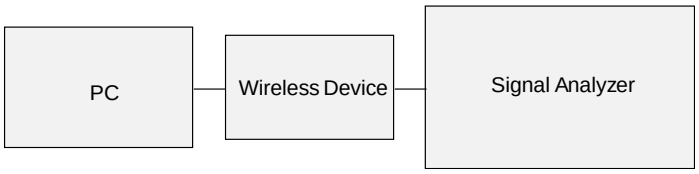

Figure 8-3
Power Measurement Setup

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8.4 2.4 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-110
2.4 GHz WLAN Maximum Average RF Power – Antenna 1a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	10.68
2437	6		10.79
2462	11		10.72
2.4GHz WIFI (20MHz 802.11g SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	10.40
2437	6		10.29
2462	11		10.11
2.4GHz WIFI (20MHz 802.11n SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	10.42
2437	6		10.29
2462	11		10.11
2.4GHz WIFI (20MHz 802.11ax SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	10.30
2437	6		10.25
2462	11		10.25

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Table 8-111
2.4 GHz WLAN Maximum Average RF Power – Antenna 1a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	10.59
2437	6		10.70
2462	11		10.57
2.4GHz WIFI (20MHz 802.11g SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	10.12
2437	6		10.26
2462	11		10.22
2.4GHz WIFI (20MHz 802.11n SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	10.11
2437	6		10.16
2462	11		10.22
2.4GHz WIFI (20MHz 802.11ax SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	10.24
2437	6		10.16
2462	11		10.15

Table 8-112
2.4 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.75
2437	6		11.73
2462	11		11.76
2.4GHz WIFI (20MHz 802.11g SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.52
2437	6		11.57
2462	11		11.49
2.4GHz WIFI (20MHz 802.11n SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.58
2437	6		11.59
2462	11		11.52
2.4GHz WIFI (20MHz 802.11ax SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.51
2437	6		11.47
2462	11		11.45

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Table 8-113
2.4 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.73
2437	6		11.74
2462	11		11.69
2.4GHz WIFI (20MHz 802.11g SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.29
2437	6		11.48
2462	11		11.33
2.4GHz WIFI (20MHz 802.11n SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.37
2437	6		11.47
2462	11		11.31
2.4GHz WIFI (20MHz 802.11ax SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	11.17
2437	6		11.06
2462	11		11.34

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8.5 2.4 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-114
2.4 GHz WLAN 6 dB Reduced Average RF Power – Antenna 1a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	3.26
2437	6		3.27
2462	11		3.26
2.4GHz WIFI (20MHz 802.11g SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	3.34
2437	6		3.52
2462	11		3.36
2.4GHz WIFI (20MHz 802.11n SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	3.27
2437	6		3.59
2462	11		3.26
2.4GHz WIFI (20MHz 802.11ax SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	3.26
2437	6		3.52
2462	11		3.27

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Table 8-115
2.4 GHz WLAN 6 dB Reduced Average RF Power – Antenna 1a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	3.30
2437	6		3.39
2462	11		3.34
2.4GHz WIFI (20MHz 802.11g SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	3.41
2437	6		3.69
2462	11		3.26
2.4GHz WIFI (20MHz 802.11n SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	3.41
2437	6		3.64
2462	11		3.26
2.4GHz WIFI (20MHz 802.11ax SISO ANT 1a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	3.44
2437	6		3.69
2462	11		3.28

Table 8-116
2.4 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3a, Variant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	4.27
2437	6		4.29
2462	11		4.31
2.4GHz WIFI (20MHz 802.11g SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	4.26
2437	6		4.45
2462	11		4.29
2.4GHz WIFI (20MHz 802.11n SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	4.26
2437	6		4.46
2462	11		4.28
2.4GHz WIFI (20MHz 802.11ax SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	4.30
2437	6		4.32
2462	11		4.29

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Table 8-117
2.4 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3a, Variant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	4.31
2437	6		4.26
2462	11		4.26
2.4GHz WIFI (20MHz 802.11g SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	4.43
2437	6		4.57
2462	11		4.26
2.4GHz WIFI (20MHz 802.11n SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	4.40
2437	6		4.55
2462	11		4.31
2.4GHz WIFI (20MHz 802.11ax SISO ANT 3a)			
Freq. [MHz]	**Channel**	**Detector**	**Conducted Power [dBm]**
2412	1	Average	4.26
2437	6		4.73
2462	11		4.30

8.6 5 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-118
5 GHz WLAN Maximum Average RF Power – Antenna 1b, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 1b)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	9.09
UNII-2A	5290	58	9.41
UNII-2C	5530	106	8.28
	5610	122	8.33
	5690	138	8.43
UNII-3	5775	155	8.38
5GHz WIFI (80MHz 802.11ax SISO ANT1b)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	9.15
UNII-2A	5290	58	8.55
UNII-2C	5530	106	7.85
	5610	122	7.77
	5690	138	7.62
UNII-3	5775	155	8.32

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Table 8-119
5 GHz WLAN Maximum Average RF Power – Antenna 1b, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 1b)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	9.48
UNII-2A	5290	58	9.19
UNII-2C	5530	106	8.29
	5610	122	8.42
	5690	138	8.46
UNII-3	5775	155	8.30
5GHz WIFI (80MHz 802.11ax SISO ANT1b)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	8.99
UNII-2A	5290	58	8.62
UNII-2C	5530	106	7.87
	5610	122	7.88
	5690	138	7.76
UNII-3	5775	155	8.29

Table 8-120
5 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	8.89
UNII-2A	5290	58	9.10
UNII-2C	5530	106	9.36
	5610	122	9.51
	5690	138	9.07
UNII-3	5775	155	9.57
5GHz WIFI (80MHz 802.11ax SISO ANT3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	9.07
UNII-2A	5290	58	9.09
UNII-2C	5530	106	8.73
	5610	122	8.71
	5690	138	8.66
UNII-3	5775	155	8.91

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Table 8-121
5 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	9.13
UNII-2A	5290	58	9.29
UNII-2C	5530	106	9.65
	5610	122	9.74
	5690	138	9.39
UNII-3	5775	155	9.67

5GHz WIFI (80MHz 802.11ax SISO ANT3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	8.92
UNII-2A	5290	58	9.06
UNII-2C	5530	106	8.73
	5610	122	8.71
	5690	138	8.82
UNII-3	5775	155	9.01

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Table 8-122
5 GHz WLAN Maximum Average RF Power – Antenna 3c, Variant 1

5GHz WIFI (40MHz 802.11n SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	14.23
	5230	46	15.04
UNII-2A	5270	54	14.09
	5310	62	14.10
5GHz WIFI (40MHz 802.11ac SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	14.91
	5230	46	15.32
UNII-2A	5270	54	14.33
	5310	62	14.23
5GHz WIFI (40MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	14.12
	5230	46	15.17
UNII-2A	5270	54	14.24
	5310	62	14.19
5GHz WIFI (80MHz 802.11ac SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-2C	5530	106	13.56
	5610	122	13.55
	5690	138	13.46
UNII-3	5775	155	13.92
5GHz WIFI (80MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-2C	5530	106	13.37
	5610	122	13.17
	5690	138	13.25
UNII-3	5775	155	13.39

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Table 8-123
5 GHz WLAN Maximum Average RF Power – Antenna 3c, Variant 2

5GHz WIFI (40MHz 802.11n SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	14.19
	5230	46	14.94
UNII-2A	5270	54	14.24
	5310	62	14.30
5GHz WIFI (40MHz 802.11ac SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	14.98
	5230	46	15.29
UNII-2A	5270	54	14.43
	5310	62	14.49
5GHz WIFI (40MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5190	38	13.98
	5230	46	15.18
UNII-2A	5270	54	14.36
	5310	62	14.35
5GHz WIFI (80MHz 802.11ac SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-2C	5530	106	13.47
	5610	122	13.64
	5690	138	13.63
UNII-3	5775	155	13.94
5GHz WIFI (80MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-2C	5530	106	13.35
	5610	122	13.32
	5690	138	13.38
UNII-3	5775	155	13.29

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8.7 5 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-124
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 1b, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 1b)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	3.21
UNII-2A	5290	58	2.30
UNII-2C	5530	106	1.83
	5610	122	1.82
	5690	138	1.50
UNII-3	5775	155	2.11
5GHz WIFI (80MHz 802.11ax SISO ANT 1b)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	3.27
UNII-2A	5290	58	2.76
UNII-2C	5530	106	2.24
	5610	122	2.19
	5690	138	1.67
UNII-3	5775	155	2.38

Table 8-125
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 1b, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 1b)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	3.23
UNII-2A	5290	58	2.45
UNII-2C	5530	106	2.18
	5610	122	2.32
	5690	138	2.06
UNII-3	5775	155	2.22
5GHz WIFI (80MHz 802.11ax SISO ANT 1b)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	3.06
UNII-2A	5290	58	3.13
UNII-2C	5530	106	2.02
	5610	122	2.22
	5690	138	1.60
UNII-3	5775	155	2.17

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Table 8-126
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3a, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	3.05
UNII-2A	5290	58	2.80
UNII-2C	5530	106	2.59
	5610	122	2.62
	5690	138	2.42
UNII-3	5775	155	2.84
5GHz WIFI (80MHz 802.11ax SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	3.13
UNII-2A	5290	58	3.12
UNII-2C	5530	106	3.17
	5610	122	3.03
	5690	138	2.38
UNII-3	5775	155	3.15

Table 8-127
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3a, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	2.94
UNII-2A	5290	58	3.06
UNII-2C	5530	106	2.74
	5610	122	2.90
	5690	138	2.61
UNII-3	5775	155	2.90
5GHz WIFI (80MHz 802.11ax SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	3.18
UNII-2A	5290	58	3.32
UNII-2C	5530	106	2.60
	5610	122	2.78
	5690	138	2.26
UNII-3	5775	155	2.93

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Table 8-128
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3c, Variant 1

5GHz WIFI (80MHz 802.11ac SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	9.19
UNII-2A	5290	58	8.38
UNII-2C	5530	106	7.07
	5610	122	7.28
	5690	138	7.21
UNII-3	5775	155	7.15
5GHz WIFI (80MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	9.11
UNII-2A	5290	58	9.22
UNII-2C	5530	106	7.36
	5610	122	7.63
	5690	138	7.15
UNII-3	5775	155	7.39

Table 8-129
5 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3c, Variant 2

5GHz WIFI (80MHz 802.11ac SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	9.25
UNII-2A	5290	58	8.48
UNII-2C	5530	106	7.32
	5610	122	7.52
	5690	138	7.27
UNII-3	5775	155	7.32
5GHz WIFI (80MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-1	5210	42	9.12
UNII-2A	5290	58	8.27
UNII-2C	5530	106	7.56
	5610	122	7.76
	5690	138	7.05
UNII-3	5775	155	7.51

8.8 6 GHz WLAN Maximum Time-Averaged Conducted Powers

Table 8-130
6 GHz WLAN Maximum Average RF Power – Antenna 1b, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 1b)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	10.61
	6345	79	9.43
UNII-6	6505	111	8.83
UNII-7	6665	143	10.15
UNII-8	6985	207	10.60

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Table 8-131
6 GHz WLAN Maximum Average RF Power – Antenna 1b, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 1b)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	10.10
	6345	79	9.04
UNII-6	6505	111	8.74
UNII-7	6665	143	9.85
UNII-8	6985	207	10.70

Table 8-132
6 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	8.96
	6345	79	8.40
UNII-6	6505	111	7.92
UNII-7	6665	143	7.53
UNII-8	6985	207	8.61

Table 8-133
6 GHz WLAN Maximum Average RF Power – Antenna 3a, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	8.65
	6345	79	8.36
UNII-6	6505	111	7.81
UNII-7	6665	143	7.31
UNII-8	6985	207	8.37

Table 8-134
6 GHz WLAN Maximum Average RF Power – Antenna 3c, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	11.23
	6345	79	11.24
UNII-6	6505	111	11.24
UNII-7	6665	143	10.44
UNII-8	6985	207	11.18

Table 8-135
6 GHz WLAN Maximum Average RF Power – Antenna 3c, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	11.27
	6345	79	11.01
UNII-6	6505	111	10.96
UNII-7	6665	143	10.05
UNII-8	6985	207	11.07

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8.9 6 GHz WLAN Reduced Time-Averaged Conducted Powers

Table 8-136
6 GHz WLAN 6 dB Reduced Average RF Power – Antenna 1b, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 1b)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	3.68
	6345	79	3.78
UNII-6	6505	111	3.46
UNII-7	6665	143	3.98
UNII-8	6985	207	5.39

Table 8-137
6 GHz WLAN 6 dB Reduced Average RF Power – Antenna 1b, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 1b)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	3.73
	6345	79	3.81
UNII-6	6505	111	3.43
UNII-7	6665	143	3.85
UNII-8	6985	207	5.42

Table 8-138
6 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3a, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	2.95
	6345	79	2.62
UNII-6	6505	111	2.15
UNII-7	6665	143	1.07
UNII-8	6985	207	2.70

Table 8-139
6 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3a, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 3a)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	2.85
	6345	79	2.65
UNII-6	6505	111	2.24
UNII-7	6665	143	0.85
UNII-8	6985	207	2.70

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Table 8-140
6 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3c, Variant 1

6GHz WIFI (160MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	6.67
	6345	79	6.05
UNII-6	6505	111	5.75
UNII-7	6665	143	5.40
UNII-8	6985	207	4.97

Table 8-141
6 GHz WLAN 6 dB Reduced Average RF Power – Antenna 3c, Variant 2

6GHz WIFI (160MHz 802.11ax SISO ANT 3c)			
Band	**Freq. [MHz]**	**Channel**	**Avg. Conducted Power [dBm]**
UNII-5	6025	15	6.73
	6345	79	6.19
UNII-6	6505	111	5.63
UNII-7	6665	143	5.51
UNII-8	6985	207	5.13

8.10 WLAN Power Reduction Verification Summary

Table 8-142
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 3A	2.4 GHz WLAN	Main Band 3A/3B ON	12.25	6.25	11.78	5.83	Pass
	2.4 GHz WLAN	ULCA ON	12.25	6.25	11.78	5.88	Pass
Ant 1A	2.4 GHz WLAN	Main Band 1A/1B ON	11.25	5.25	10.15	3.9	Pass
	2.4 GHz WLAN	ULCA ON	11.25	5.25	10.15	3.88	Pass
Ant 3A	5 GHz WLAN	Main Band 3A/3B ON	10	4	8.75	1.94	Pass
	5 GHz WLAN	ULCA ON	10	4	8.75	1.82	Pass
Ant 3C	5 GHz WLAN	Main Band 3A/3B ON	15.5	9.5	15.18	8.74	Pass
	5 GHz WLAN	Main Band 4 ON	15.5	9.5	15.18	9.2	Pass
	5 GHz WLAN	ULCA ON	15.5	9.5	15.18	9.04	Pass
Ant 1B	5 GHz WLAN	Main Band 1A/1B ON	9.5	3.5	8.5	2.87	Pass
	5 GHz WLAN	Main Band 2A/2B ON	9.5	3.5	8.5	3.08	Pass
	5 GHz WLAN	ULCA ON	9.5	3.5	8.5	3.04	Pass
Ant 3A	6 GHz WLAN	Main Band 3A/3B ON	9.5	3.5	8.01	1.12	Pass
	6 GHz WLAN	ULCA ON	9.5	3.5	8.01	1.12	Pass
Ant 3C	6 GHz WLAN	Main Band 3A/3B ON	12	8.5	10.67	6.3	Pass
	6 GHz WLAN	Main Band 4 ON	12	8.5	10.67	6.3	Pass
	6 GHz WLAN	ULCA ON	12	8.5	10.67	6.3	Pass
Ant 1B	6 GHz WLAN	Main Band 1A/1B ON	10.75	4.75	10.15	3.58	Pass
	6 GHz WLAN	Main Band 2A/2B ON	10.75	4.75	10.15	3.58	Pass
	6 GHz WLAN	ULCA ON	10.75	4.75	10.15	3.58	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 within tolerance.

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8.11 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.

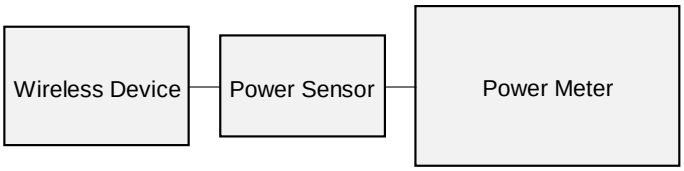

Figure 8-4
Power Measurement Setup

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8.12 Bluetooth Maximum Conducted Powers

Table 8-143
Bluetooth Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.21	16.634
2441	GFSK	1.0	39	12.11	16.255
2480	GFSK	1.0	78	12.03	15.959

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

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	12.06	16.069
2441	GFSK	1.0	39	11.94	15.631
2480	GFSK	1.0	78	12.00	15.849

Table 8-145
Bluetooth Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.20	13.183
2441	GFSK	1.0	39	11.18	13.122
2480	GFSK	1.0	78	11.44	13.932

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Table 8-146
Bluetooth Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	11.04	12.706
2441	GFSK	1.0	39	10.81	12.050
2480	GFSK	1.0	78	11.14	13.002

8.13 Bluetooth Reduced Conducted Powers

Table 8-147
Bluetooth 4.5 dB Reduced Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.97	4.977
2441	GFSK	1.0	39	6.76	4.742
2480	GFSK	1.0	78	6.81	4.797

Table 8-148
Bluetooth 4.5 dB Reduced Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.17	5.212
2441	GFSK	1.0	39	7.41	5.508
2480	GFSK	1.0	78	7.03	5.047

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Table 8-149
Bluetooth 7 dB Reduced Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	4.54	2.844
2441	GFSK	1.0	39	4.41	2.761
2480	GFSK	1.0	78	4.43	2.773

Table 8-150
Bluetooth 7 dB Reduced Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	4.66	2.924
2441	GFSK	1.0	39	4.84	3.048
2480	GFSK	1.0	78	4.77	2.999

Table 8-151
Bluetooth 4.5 dB Reduced Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	6.86	4.853
2441	GFSK	1.0	39	7.08	5.105
2480	GFSK	1.0	78	7.13	5.164

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Table 8-152
Bluetooth 4.5 dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	7.10	5.129
2441	GFSK	1.0	39	7.16	5.200
2480	GFSK	1.0	78	7.42	5.521

Table 8-153
Bluetooth 7 dB Reduced Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	4.30	2.692
2441	GFSK	1.0	39	4.25	2.661
2480	GFSK	1.0	78	4.66	2.924

Table 8-154
Bluetooth 7 dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	4.58	2.871
2441	GFSK	1.0	39	4.66	2.924
2480	GFSK	1.0	78	4.97	3.141

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8.14 Bluetooth Duty Cycle Plots

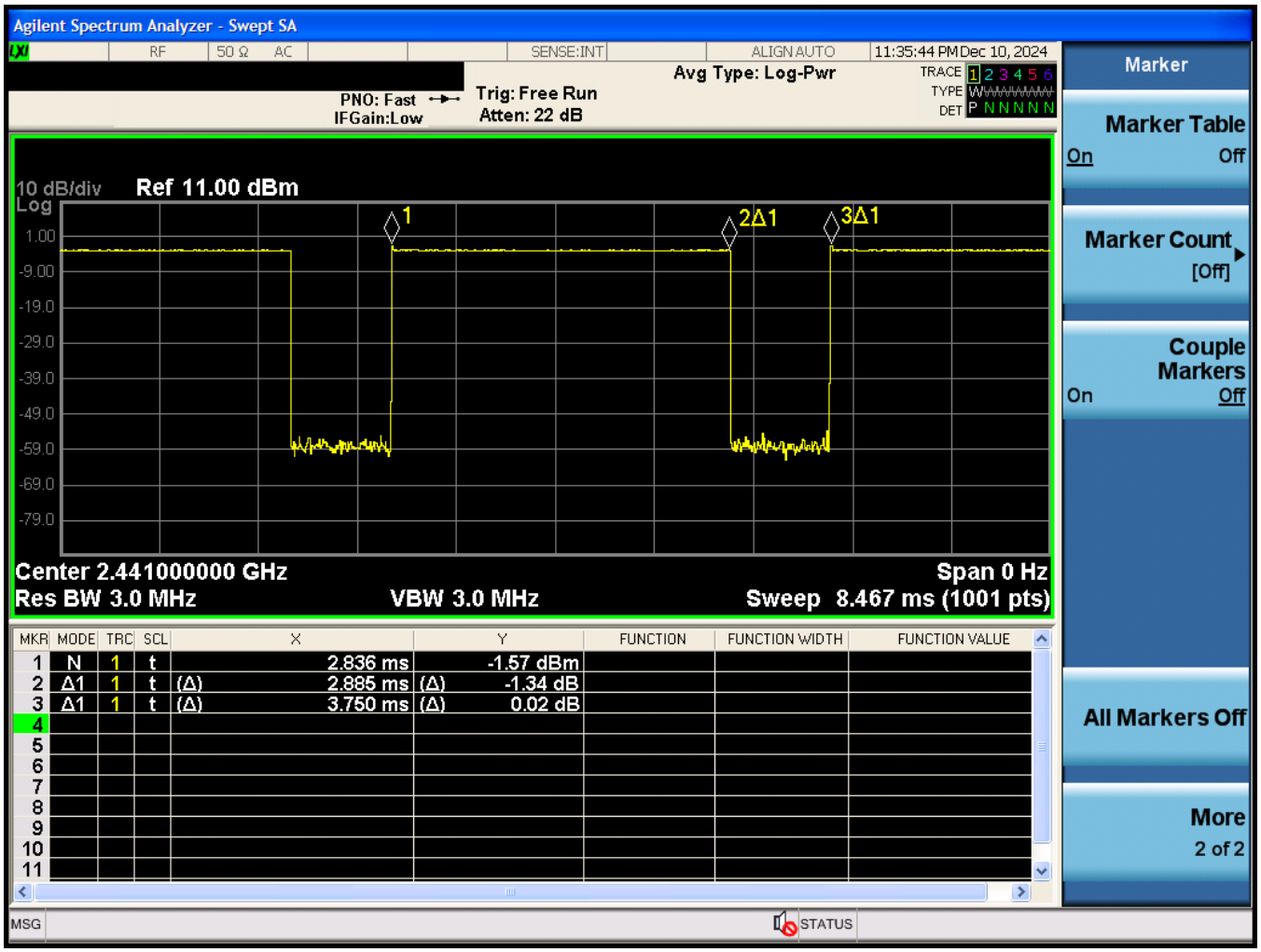

Figure 8-5
Bluetooth Transmission Plot – Antenna 1a, Variant 1

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

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.885\ ms}{3.750\ ms} * 100\% = 76.93\%$$

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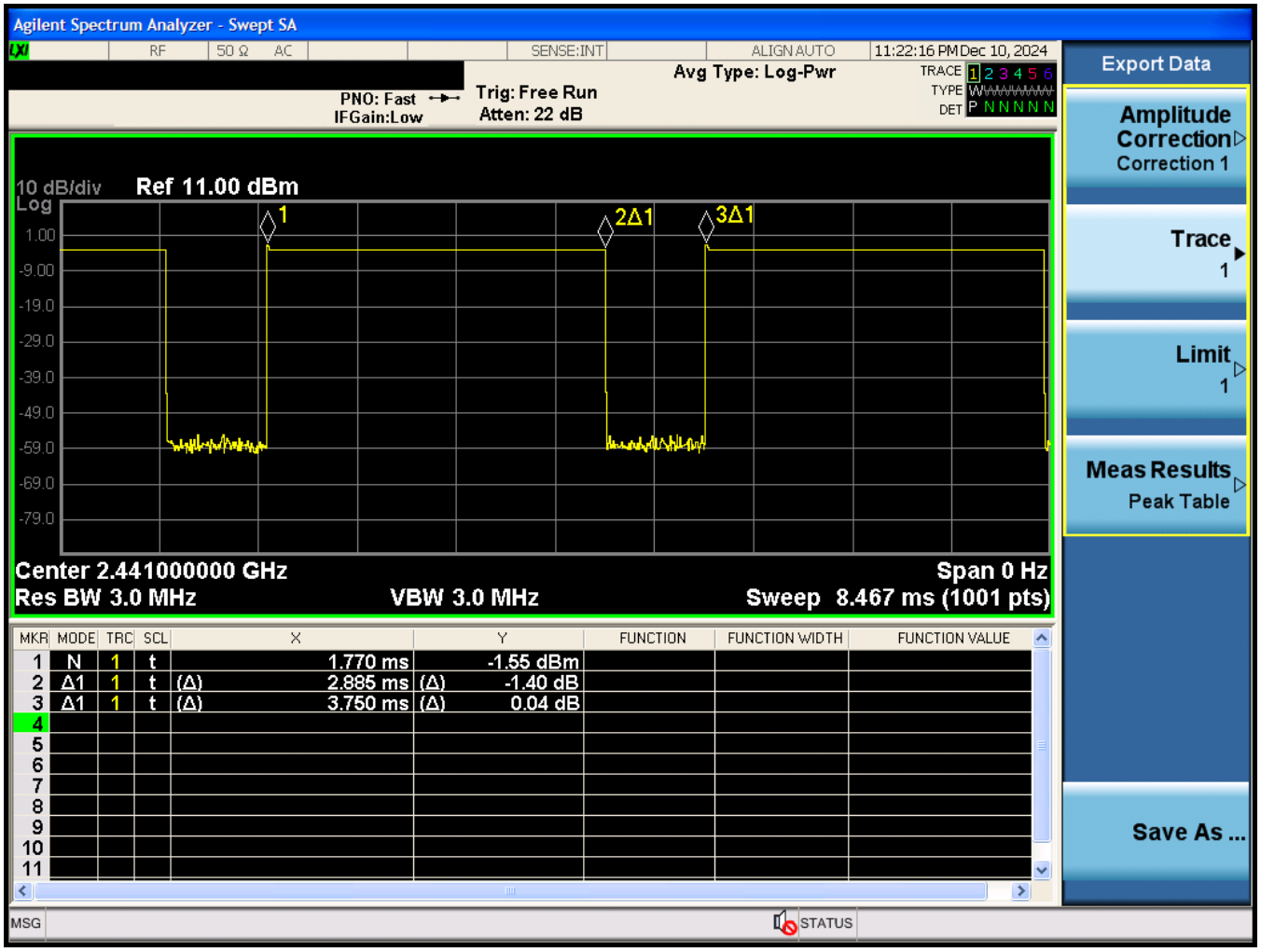

Figure 8-6
Bluetooth Transmission Plot – Antenna 1a, Variant 2

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

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.885\ ms}{3.750\ ms} * 100\% = 76.93\%$$

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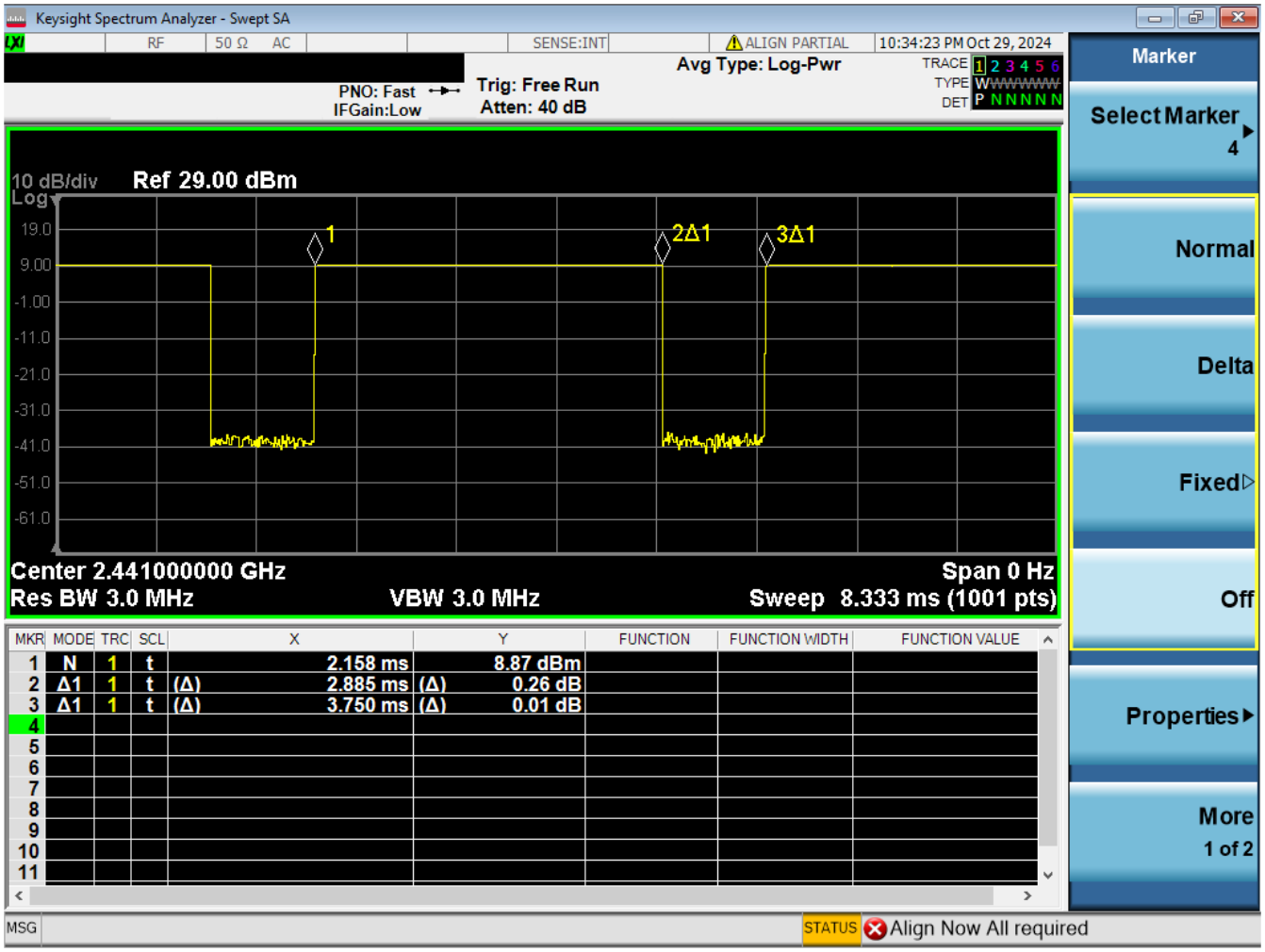

Figure 8-7
Bluetooth Transmission Plot – Antenna 3a, Variant 1

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

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.885\ ms}{3.750\ ms} * 100\% = 76.93\%$$

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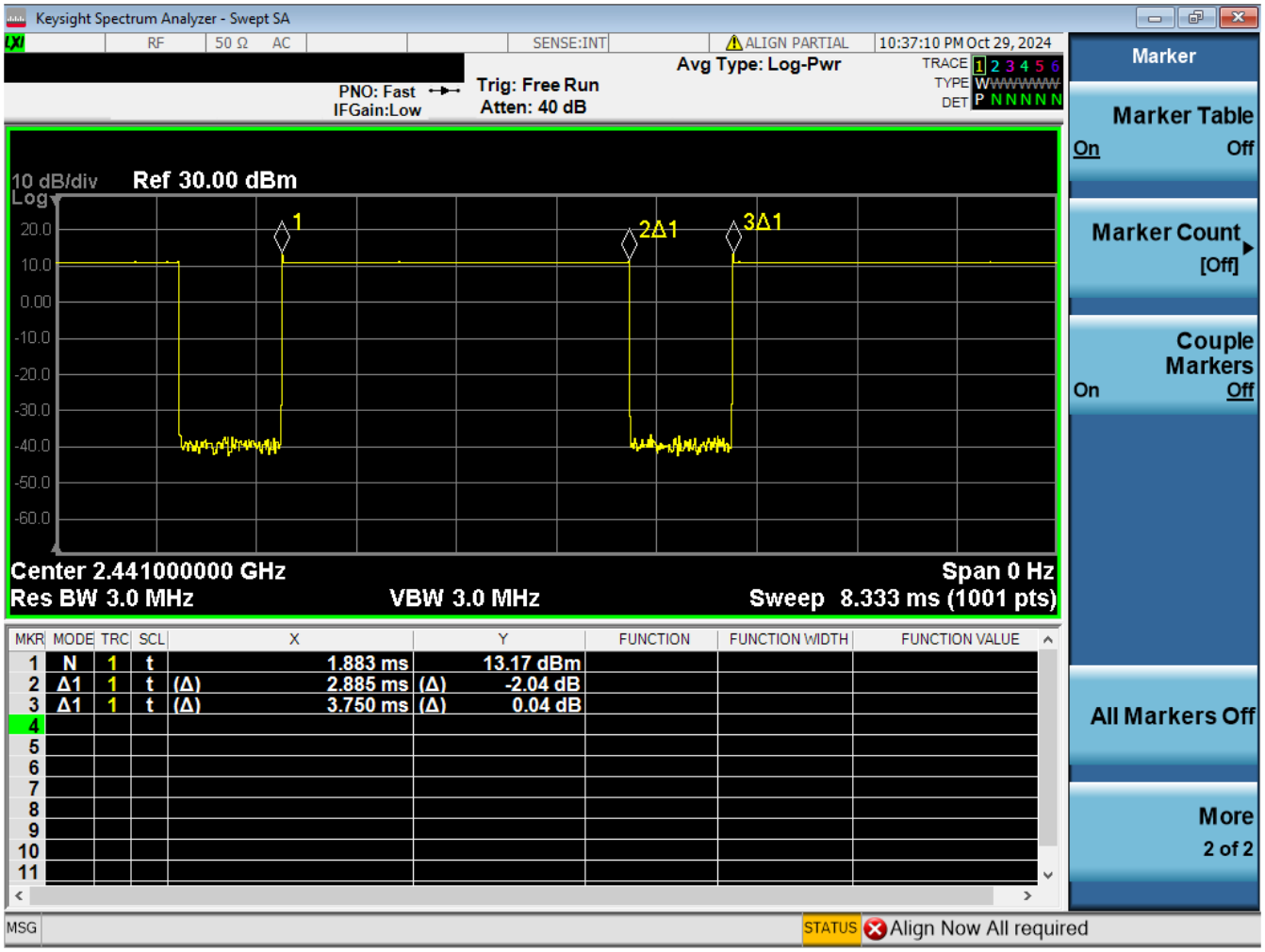

Figure 8-8
Bluetooth Transmission Plot – Antenna 3a, Variant 2

Equation 8-4
Bluetooth Duty Cycle Calculation – Antenna 3a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.885\ ms}{3.750\ ms} * 100\% = 76.93\%$$

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8.15 802.15.4 Maximum Conducted Powers

Table 8-155
802.15.4 Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	11.17	13.092
2440	O-QPSK	1.0	18	11.20	13.183
2475	O-QPSK	1.0	25	11.89	15.453

Table 8-156
802.15.4 Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	11.06	12.764
2440	O-QPSK	1.0	18	11.26	13.366
2475	O-QPSK	1.0	25	11.03	12.677

Table 8-157
802.15.4 Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	12.65	18.408
2440	O-QPSK	1.0	18	12.03	15.959
2475	O-QPSK	1.0	25	12.44	17.539

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

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	12.50	17.783
2440	O-QPSK	1.0	18	12.02	15.922
2475	O-QPSK	1.0	25	12.08	16.144

8.16 802.15.4 Reduced Conducted Powers

Table 8-159
802.15.4 4.5 dB Reduced Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	7.24	5.297
2440	O-QPSK	1.0	18	7.31	5.383
2475	O-QPSK	1.0	25	7.22	5.272

Table 8-160
802.15.4 4.5 dB Reduced Average RF Power – Antenna 1a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	7.41	5.508
2440	O-QPSK	1.0	18	7.28	5.346
2475	O-QPSK	1.0	25	7.17	5.212

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Table 8-161
802.15.4 7 dB Reduced Average RF Power – Antenna 1a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	5.32	3.404
2440	O-QPSK	1.0	18	5.33	3.412
2475	O-QPSK	1.0	25	5.24	3.342

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

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	5.36	3.436
2440	O-QPSK	1.0	18	5.06	3.206
2475	O-QPSK	1.0	25	5.25	3.350

Table 8-163
802.15.4 4.5 dB Reduced Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	8.69	7.396
2440	O-QPSK	1.0	18	8.74	7.482
2475	O-QPSK	1.0	25	8.75	7.499

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Table 8-164
802.15.4 4.5 dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	8.81	7.603
2440	O-QPSK	1.0	18	8.87	7.709
2475	O-QPSK	1.0	25	8.75	7.499

Table 8-165
802.15.4 7 dB Reduced Average RF Power – Antenna 3a, Variant 1

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	5.74	3.750
2440	O-QPSK	1.0	18	5.82	3.819
2475	O-QPSK	1.0	25	5.93	3.917

Table 8-166
802.15.4 7 dB Reduced Average RF Power – Antenna 3a, Variant 2

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2405	O-QPSK	1.0	11	5.77	3.776
2440	O-QPSK	1.0	18	5.88	3.873
2475	O-QPSK	1.0	25	5.79	3.793

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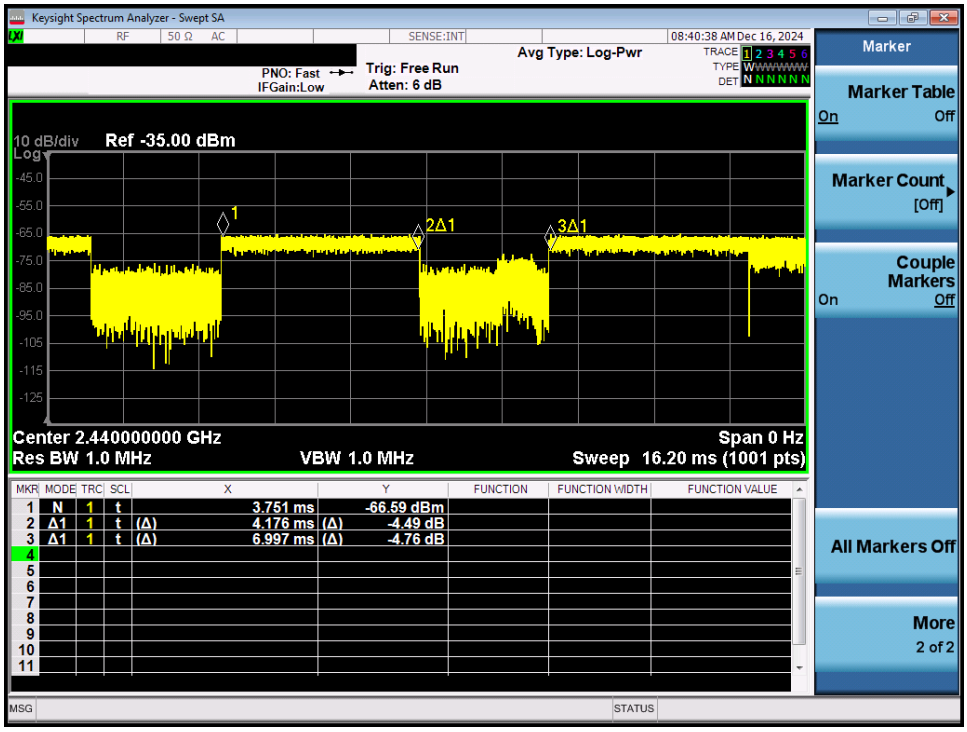
8.17 802.15.4 Duty Cycle Plots



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 1a and 3a, Variant 1

Equation 8-5
802.15.4 Duty Cycle Calculation – Antenna 1a and 3a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{4.176\ ms}{6.997\ ms} * 100\% = 59.68\%$$

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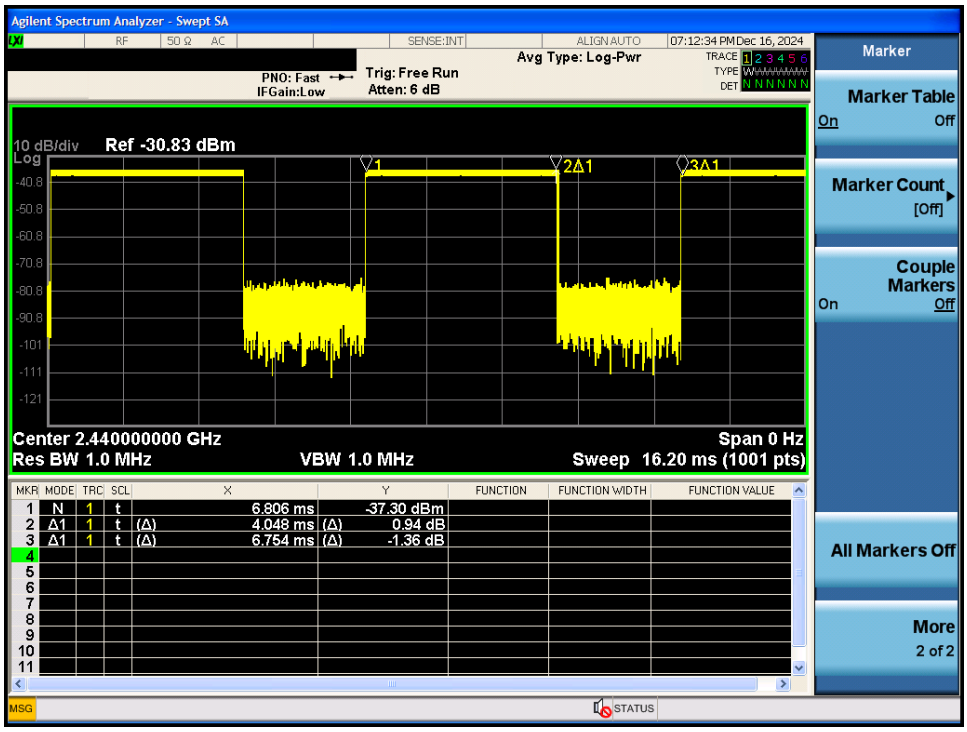

Note: Measured duty cycle as shown above is within the device maximum source-based duty cycle of 60%

Figure 8-10
802.15.4 Transmission Plot – Antenna 1a and 3a, Variant 2

Equation 8-6
802.15.4 Duty Cycle Calculation – Antenna 1a and 3a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{4.048\ ms}{6.754\ ms} * 100\% = 59.93\%$$

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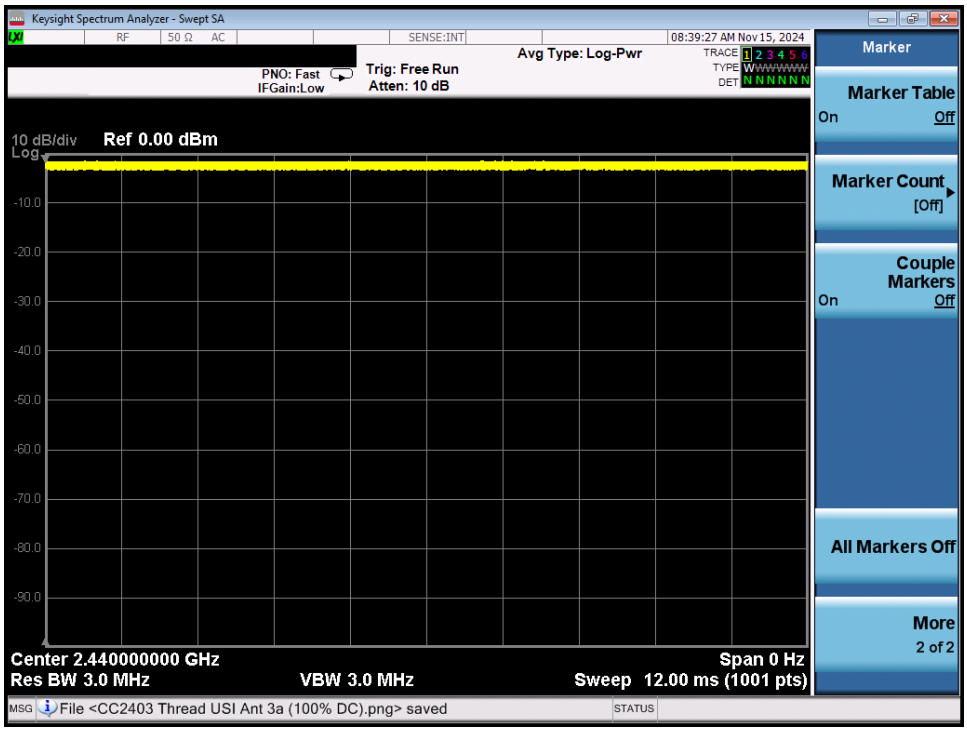

Test mode measured duty cycle for 802.15.4 during SAR measurement.

Figure 8-11
802.15.4 Transmission Plot – Antenna 1a and 3a, Variant 1 and 2

Equation 8-7
802.15.4 Duty Cycle Calculation – Antenna 1a and 3a, Variant 1 and 2

$$\boldsymbol{Duty\ Cycle} = \mathbf{100\%}$$

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8.18 Bluetooth/802.15.4 Power Reduction Verification Summary

Table 8-167
Bluetooth/802.15.4 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 3A	2.4 GHz Bluetooth	Main Band 3A/3B ON	12.5	8	11.02	6.2	Pass
	2.4 GHz Bluetooth	ULCA ON	12.5	5.5	10.88	4.02	Pass
	2.4 GHz Thread	Main band Ant 1A/1B ON and 5/6 GHZ WLAN 3A/3C ON	14	9.5	12.67	8.5	Pass
	2.4 GHz Thread	Main band Ant 2A/2B ON and 5/6 GHz WLAN Ant 3A/3C ON	14	9.5	12.67	8.5	Pass
	2.4 GHz Thread	Main band Ant 3A/3B ON and 5/6 GHz WLAN Ant 3A/3C ON	14	7	12.67	5.56	Pass
	2.4 GHz Thread	Main Band Ant 4 ON and 5/6 GHz WLAN Ant 3A/3C ON	14	7	12.67	5.57	Pass
	2.4 GHz Bluetooth	ULCA ON and 5/6 GHz WLAN 3A/3C ON	12.5	5.5	10.88	4.05	Pass
	2.4 GHz Bluetooth	5/6 GHz WLAN Ant 3A/3C ON	12.5	8	11.02	6.51	Pass
Ant 1A	2.4 GHz Thread	Main Band 1A/1B ON	13	8.5	11.59	7.14	Pass
	2.4 GHz Thread	ULCA ON	13	6	11.59	4.7	Pass
	2.4 GHz Bluetooth	Main band Ant 1A/1B ON and 5/6 GHZ WLAN 1B ON	12.5	5.5	11.5	4.07	Pass
	2.4 GHz Bluetooth	Main band Ant 2A/2B ON and 5/6 GHZ WLAN 1B ON	12.5	5.5	11.52	4.1	Pass
	2.4 GHz Bluetooth	Main band Ant 3A/3B ON and 5/6 GHZ WLAN 1B ON	12.5	8	11.5	6.52	Pass
	2.4 GHz Bluetooth	Main band Ant 4 ON and 5/6 GHZ WLAN 1B ON	12.5	8	11.55	6.57	Pass
	2.4 GHz Thread	ULCA ON and 5/6 GHz WLAN 1B ON	13	6	11.59	4.7	Pass
	2.4 GHz Thread	5/6 GHZ WLAN 1B ON	13	8.5	11.59	7.14	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.

8.19 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/802.15.4 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 Bluetooth/802.15.4 configurations.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.

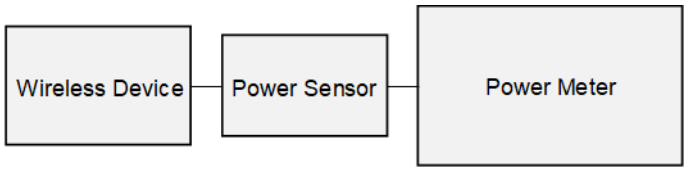

Figure 8-12
Power Measurement Setup

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8.20 NB UNII Maximum Conducted Powers

Table 8-168
NB UNII Average RF Power – Antenna 1b, Variant 1

Type	Band	Frequency	Channel	Average
HDR4	U-NII 1	5162	Low	10.66
		5204	Mid	10.83
		5245	High	10.84
BDR	U-NII 3	5733	Low	9.95
		5789	Mid	9.53
		5844	High	9.42

Table 8-169
NB UNII Average RF Power – Antenna 1b, Variant 2

Type	Band	Frequency	Channel	Average
HDR4	U-NII 1	5162	Low	10.87
		5204	Mid	10.98
		5245	High	10.97
BDR	U-NII 3	5733	Low	9.96
		5789	Mid	9.90
		5844	High	9.74

Table 8-170
NB UNII Average RF Power – Antenna 3a, Variant 1

Type	Band	Frequency	Channel	Average
HDR4	U-NII 1	5162	Low	11.55
		5204	Mid	11.37
		5245	High	11.29
BDR	U-NII 3	5733	Low	11.15
		5789	Mid	11.00
		5844	High	10.94

Table 8-171
NB UNII Average RF Power – Antenna 3a, Variant 2

Type	Band	Frequency	Channel	Average
HDR4	U-NII 1	5162	Low	11.60
		5204	Mid	11.42
		5245	High	11.50
BDR	U-NII 3	5733	Low	11.35
		5789	Mid	11.15
		5844	High	11.14

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Table 8-172
NB UNII Average RF Power – Antenna 3c, Variant 1

Type	Band	Frequency	Channel	Average
HDR8	U-NII 1	5162	Low	12.76
		5204	Mid	12.54
		5245	High	12.60
BDR	U-NII 3	5733	Low	12.71
		5789	Mid	12.95
		5844	High	12.79

Table 8-173
NB UNII Average RF Power – Antenna 3c, Variant 2

Type	Band	Frequency	Channel	Average
HDR8	U-NII 1	5162	Low	12.60
		5204	Mid	12.84
		5245	High	12.63
BDR	U-NII 3	5733	Low	12.68
		5789	Mid	12.51
		5844	High	12.53

8.21 NB UNII Reduced Conducted Powers

Table 8-174
NB UNII 4.5 dB Reduced Average RF Power – Antenna 1b, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	5.66
		5204	Mid	5.63
		5245	High	5.65
BDR	U-NII 3	5733	Low	4.33
		5789	Mid	4.26
		5844	High	4.50

Table 8-175
NB UNII 4.5 dB Reduced Average RF Power – Antenna 1b, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	5.44
		5204	Mid	5.41
		5245	High	5.31
BDR	U-NII 3	5733	Low	4.67
		5789	Mid	4.58
		5844	High	4.50

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Table 8-176
NB UNII 7 dB Reduced Average RF Power – Antenna 1b, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	2.96
		5204	Mid	3.19
		5245	High	2.89
BDR	U-NII 3	5733	Low	1.90
		5789	Mid	1.95
		5844	High	2.01

Table 8-177
NB UNII 7 dB Reduced Average RF Power – Antenna 1b, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	2.79
		5204	Mid	2.89
		5245	High	2.82
BDR	U-NII 3	5733	Low	2.16
		5789	Mid	2.26
		5844	High	1.90

Table 8-178
NB UNII 4.5 dB Reduced Average RF Power – Antenna 3a, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	8.98
		5204	Mid	8.55
		5245	High	8.67
BDR	U-NII 3	5733	Low	6.41
		5789	Mid	6.70
		5844	High	6.73

Table 8-179
NB UNII 4.5 dB Reduced Average RF Power – Antenna 3a, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	8.67
		5204	Mid	8.70
		5245	High	8.63
BDR	U-NII 3	5733	Low	6.77
		5789	Mid	6.66
		5844	High	6.76

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Table 8-180
NB UNII 7 dB Reduced Average RF Power – Antenna 3a, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	6.19
		5204	Mid	6.15
		5245	High	6.11
BDR	U-NII 3	5733	Low	4.15
		5789	Mid	3.97
		5844	High	3.74

Table 8-181
NB UNII 7 dB Reduced Average RF Power – Antenna 3a, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	6.02
		5204	Mid	5.85
		5245	High	5.89
BDR	U-NII 3	5733	Low	3.89
		5789	Mid	3.76
		5844	High	3.93

Table 8-182
NB UNII 4.5 dB Reduced Average RF Power – Antenna 3c, Variant 1

Type	Band	Frequency	Channel	Average
HDR4	U-NII 1	5162	Low	11.48
		5204	Mid	11.41
		5245	High	11.49
BDR	U-NII 3	5733	Low	10.13
		5789	Mid	10.18
		5844	High	10.24

Table 8-183
NB UNII 4.5 dB Reduced Average RF Power – Antenna 3c, Variant 2

Type	Band	Frequency	Channel	Average
HDR4	U-NII 1	5162	Low	11.56
		5204	Mid	11.62
		5245	High	11.45
BDR	U-NII 3	5733	Low	10.42
		5789	Mid	10.61
		5844	High	10.21

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Table 8-184
NB UNII 7 dB Reduced Average RF Power – Antenna 3c, Variant 1

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	8.97
		5204	Mid	8.81
		5245	High	8.74
BDR	U-NII 3	5733	Low	7.68
		5789	Mid	7.52
		5844	High	7.63

Table 8-185
NB UNII 7 dB Reduced Average RF Power – Antenna 3c, Variant 2

Type	Band	Frequency	Channel	Average
BDR	U-NII 1	5162	Low	8.96
		5204	Mid	8.90
		5245	High	8.83
BDR	U-NII 3	5733	Low	7.81
		5789	Mid	8.04
		5844	High	7.95

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8.22 NB UNII Duty Cycle Plots

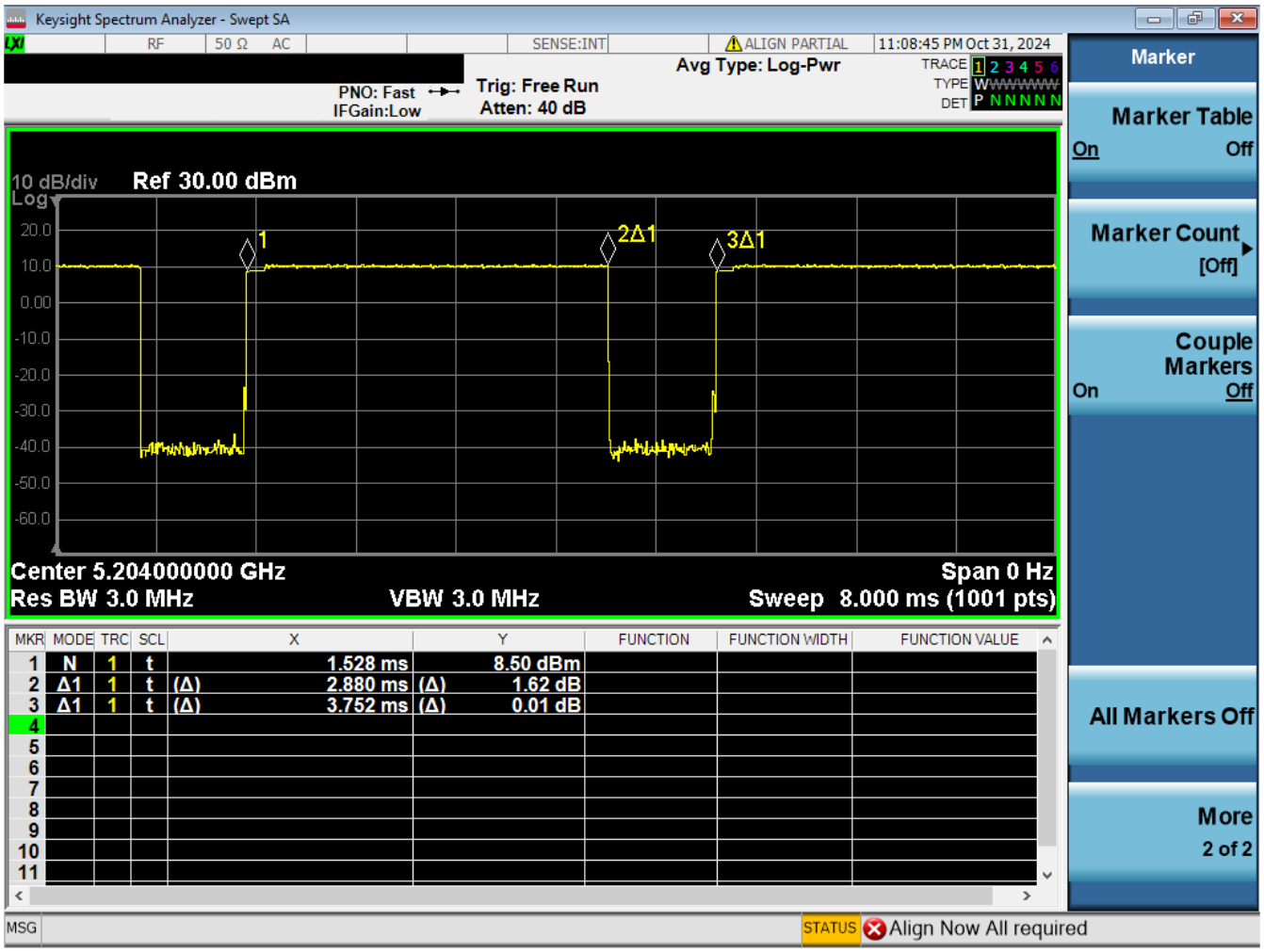

Figure 8-13
NB UNII HDR4 Transmission Plot – Antenna 1b, Variant 1

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

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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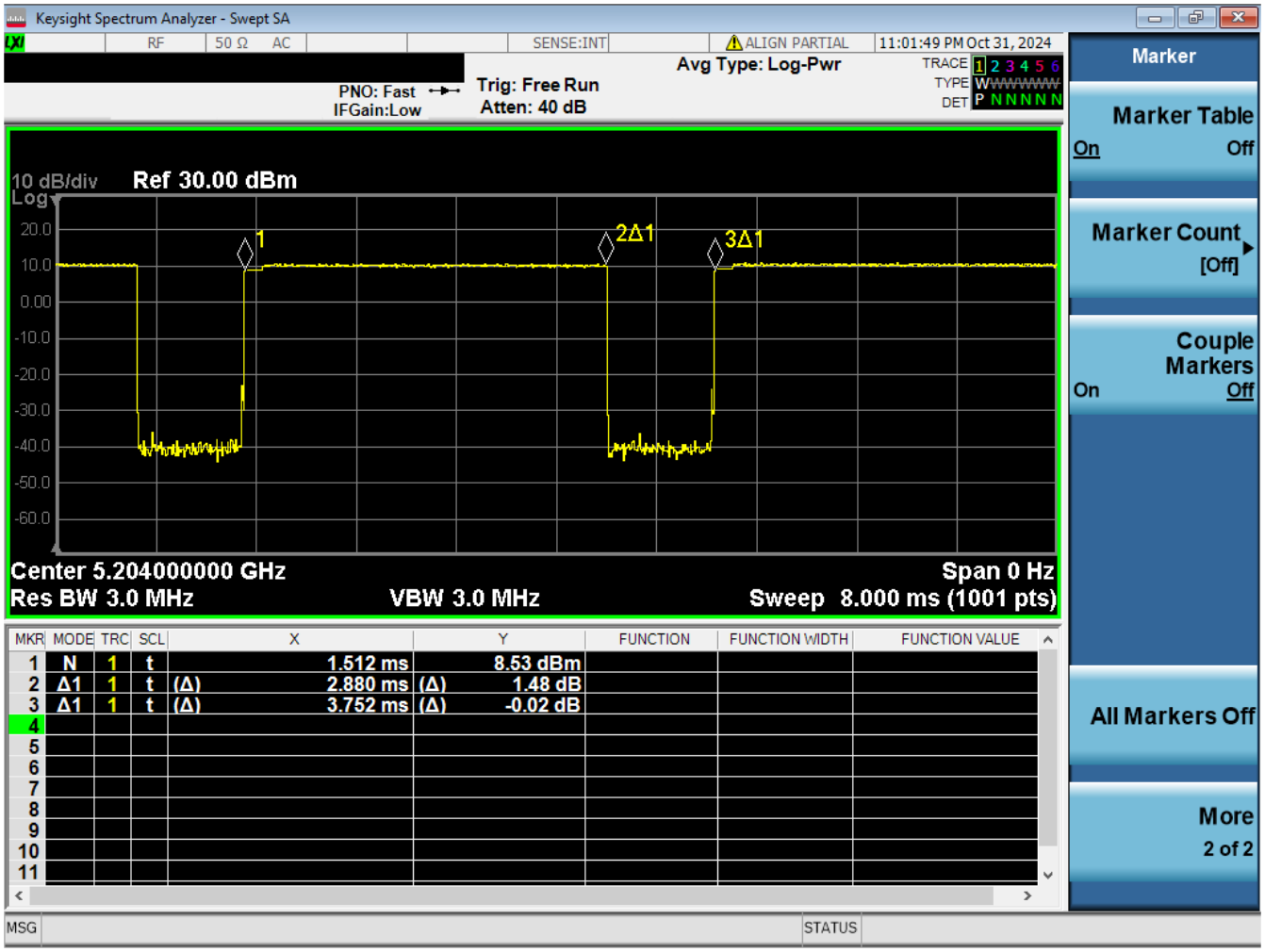

Figure 8-14
NB UNII HDR4Transmission Plot – Antenna 1b, Variant 2

Equation 8-9
NB UNII HDR4 Duty Cycle Calculation – Antenna 1b, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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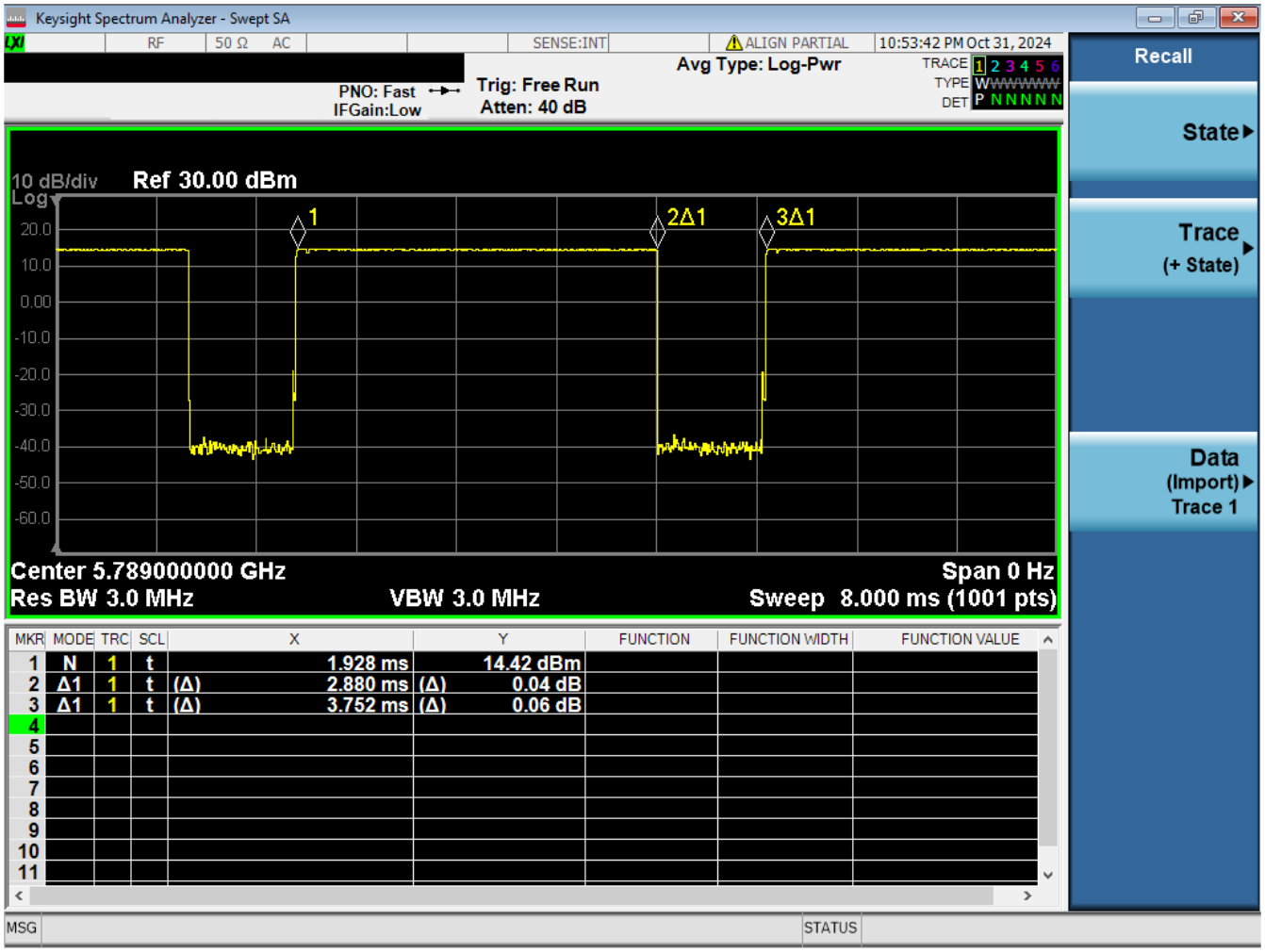

Figure 8-15
NB UNII BDR Transmission Plot – Antenna 1b, Variant 1

Equation 8-10
NB UNII BDR Duty Cycle Calculation – Antenna 1b, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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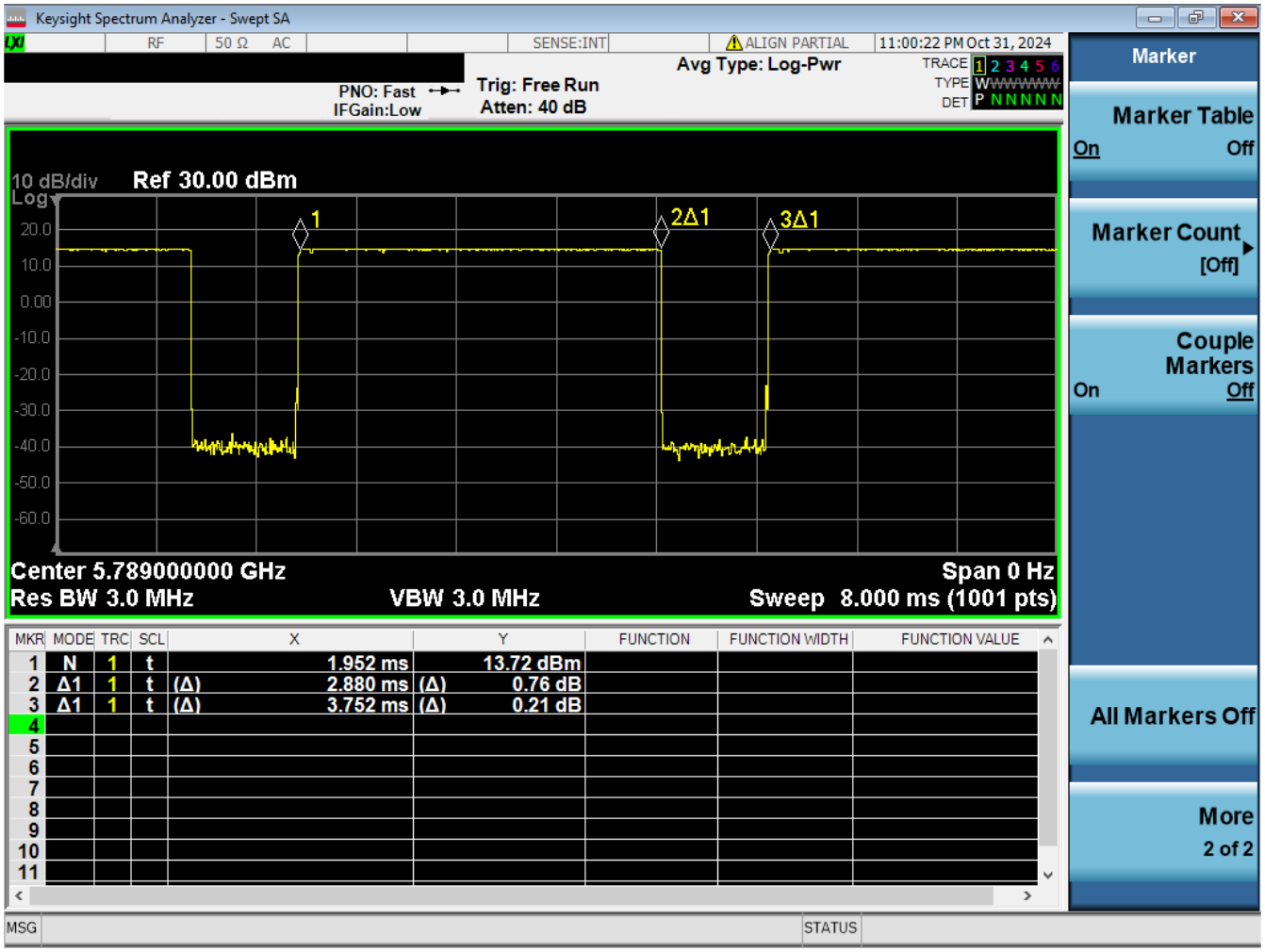

Figure 8-16
NB UNII BDR Transmission Plot – Antenna 1b, Variant 2

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

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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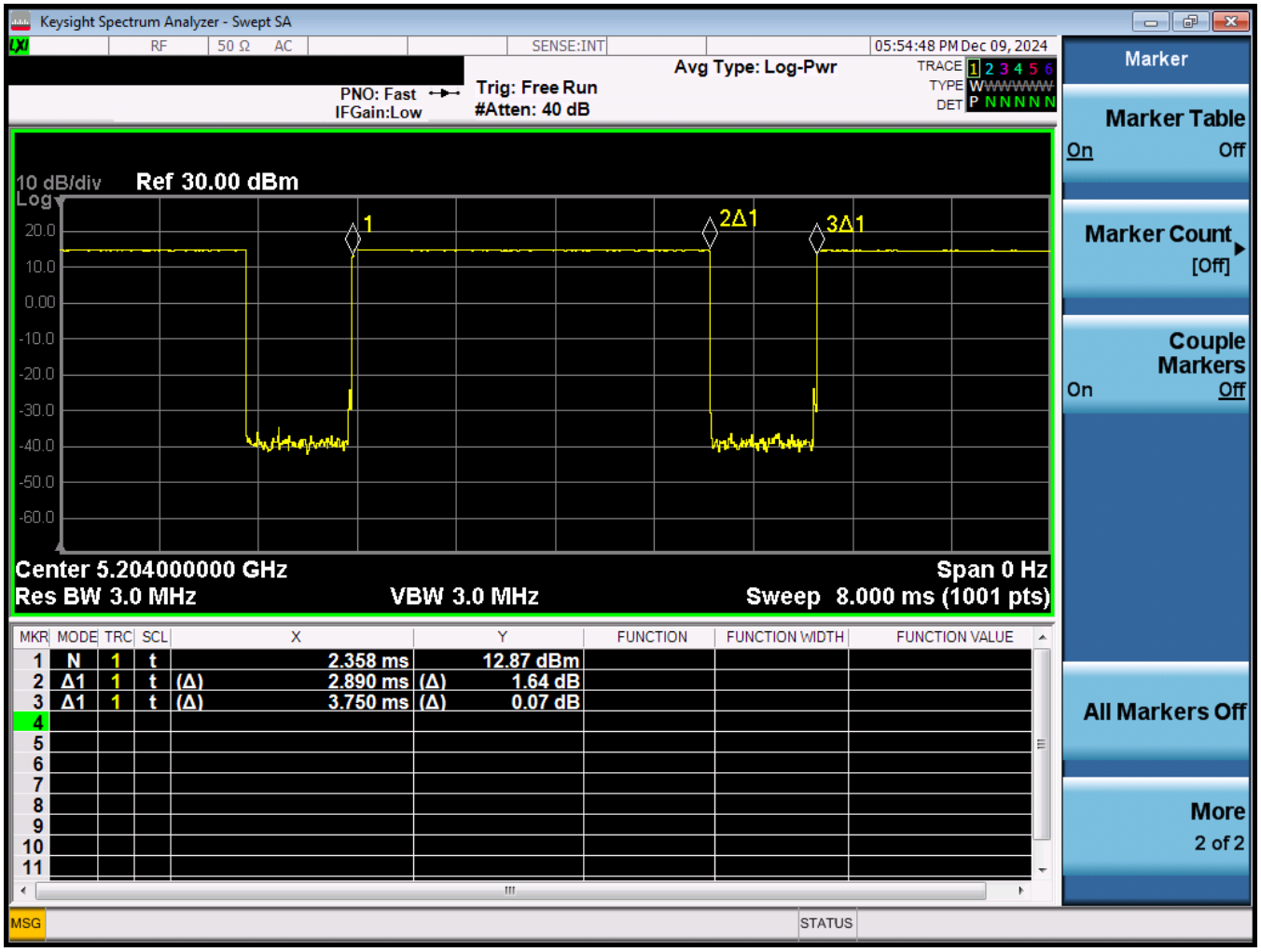

Figure 8-17
NB UNII BDR Transmission Plot – Antenna 1b, Variant 1

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

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.890\ ms}{3.750\ ms} * 100\% = 77.07\%$$

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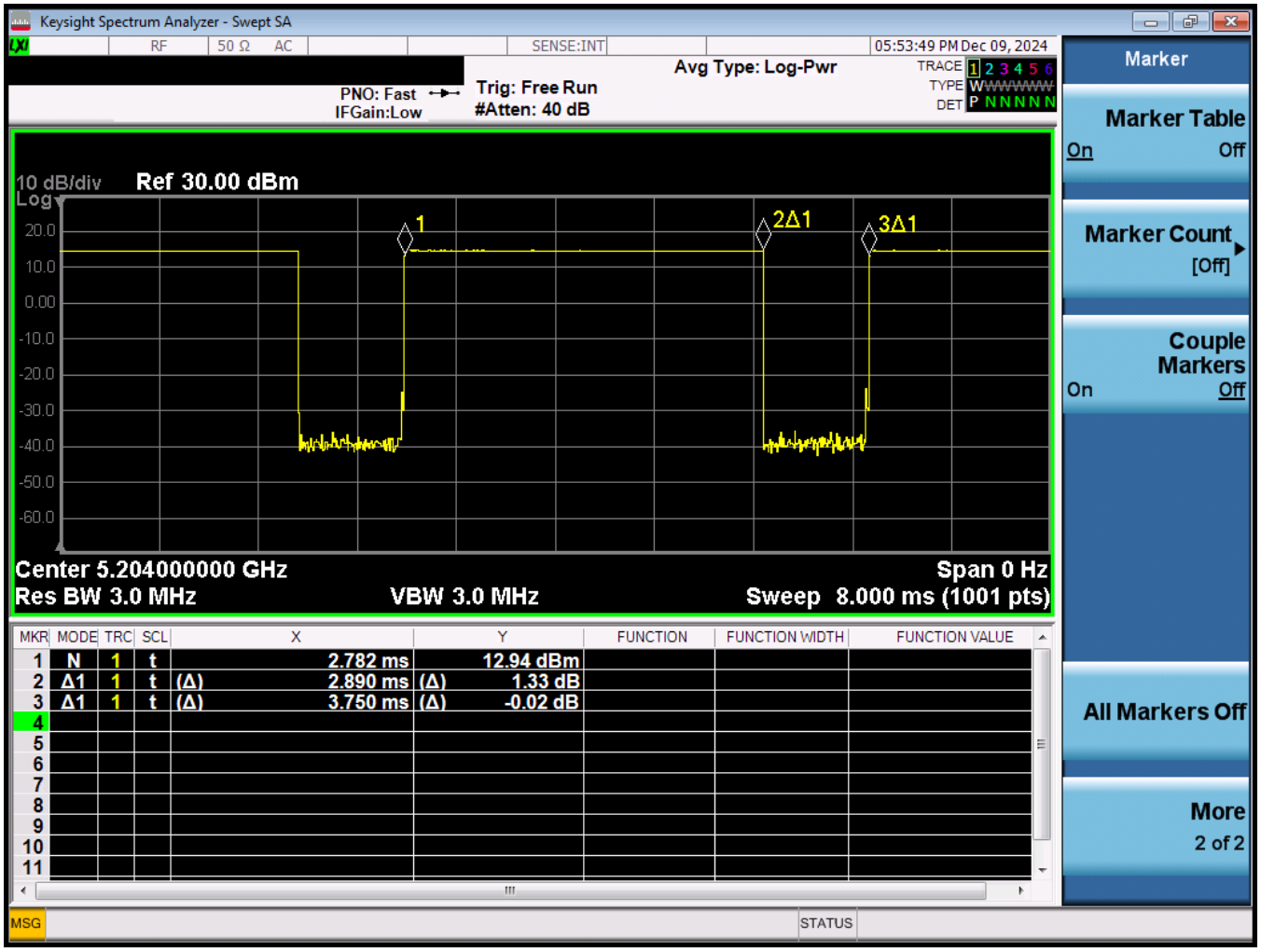

Figure 8-18
NB UNII BDR Transmission Plot – Antenna 1b, Variant 2

Equation 8-13
NB UNII BDR Duty Cycle Calculation – Antenna 1b, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.890\ ms}{3.750\ ms} * 100\% = 77.07\%$$

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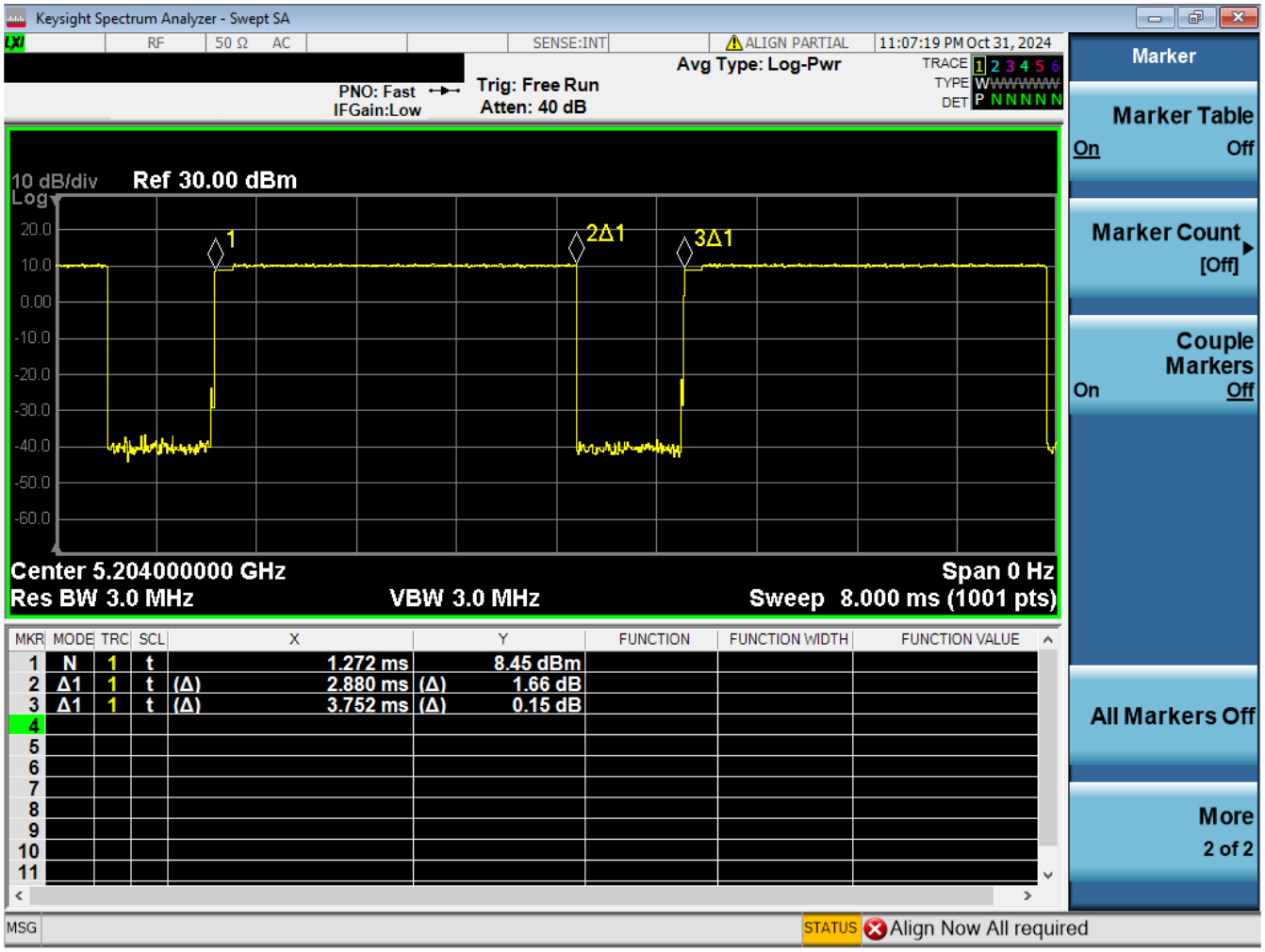

Figure 8-19
NB UNII HDR4 Transmission Plot – Antenna 3a, Variant 1

Equation 8-14
NB UNII HDR4 Duty Cycle Calculation – Antenna 3a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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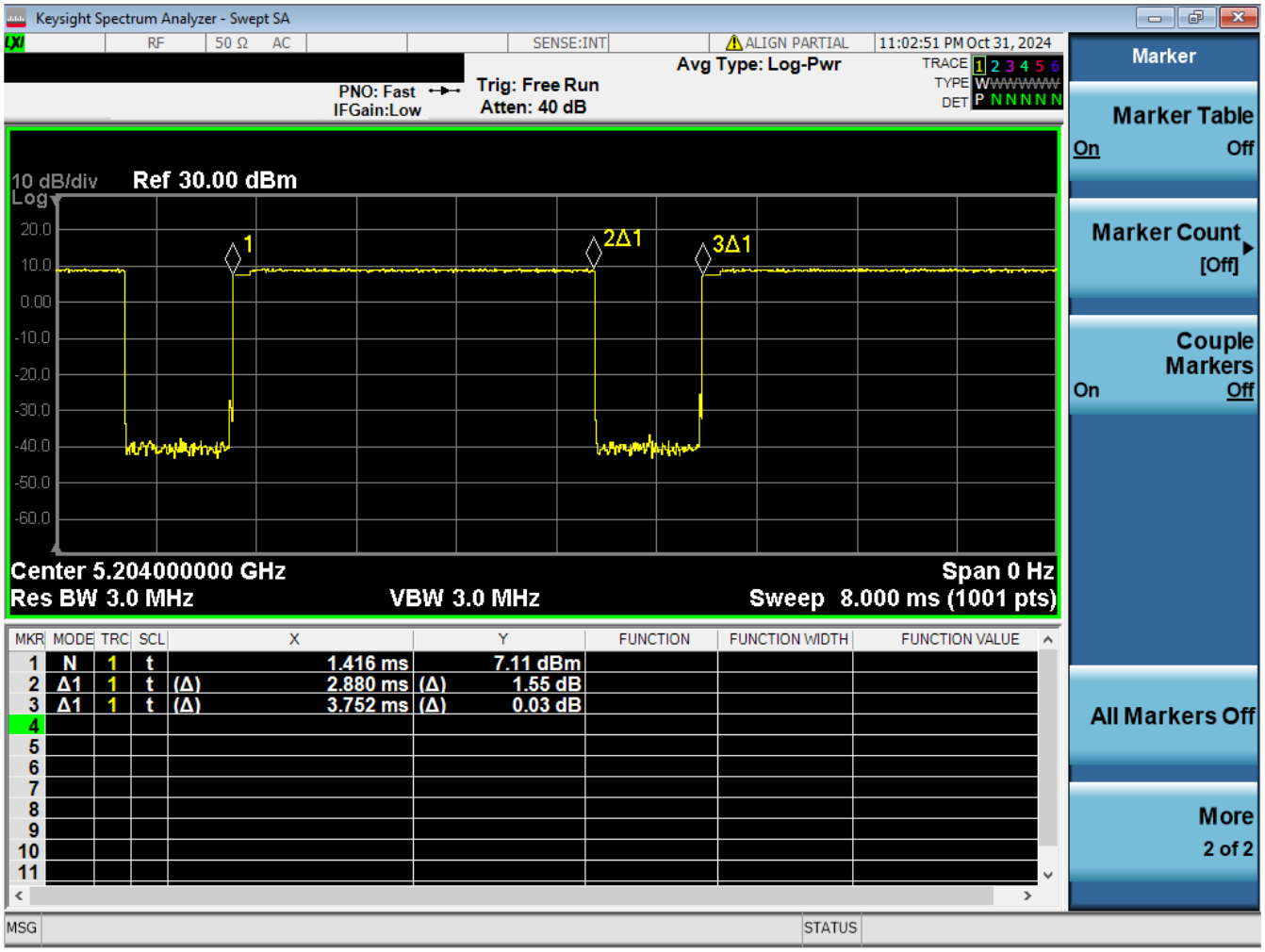

Figure 8-20
NB UNII HDR4 Transmission Plot – Antenna 3a, Variant 2

Equation 8-15
NB UNII HDR4 Duty Cycle Calculation – Antenna 3a, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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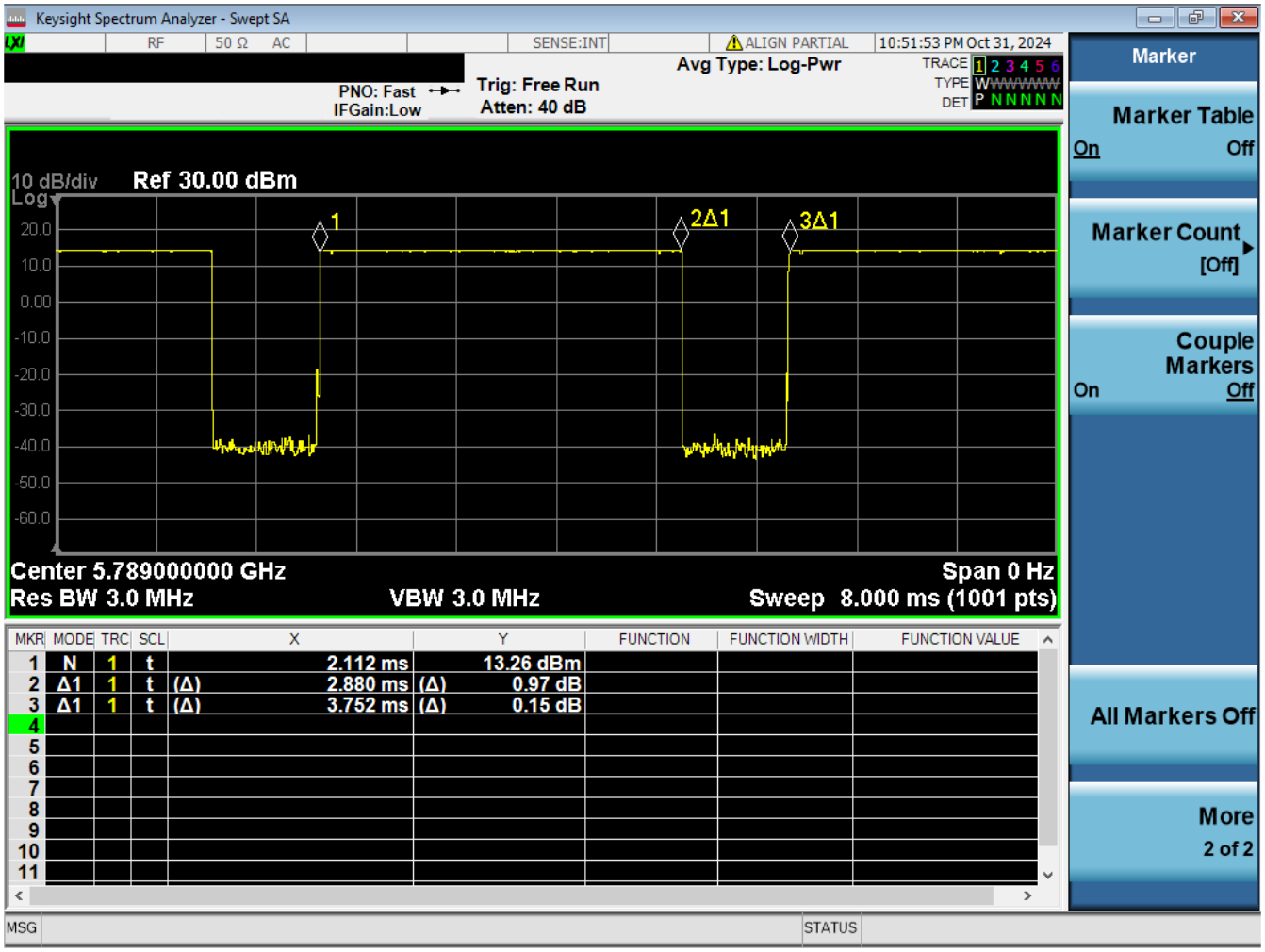

Figure 8-21
NB UNII BDR Transmission Plot – Antenna 3a, Variant 1

Equation 8-16
NB UNII BDR Duty Cycle Calculation – Antenna 3a, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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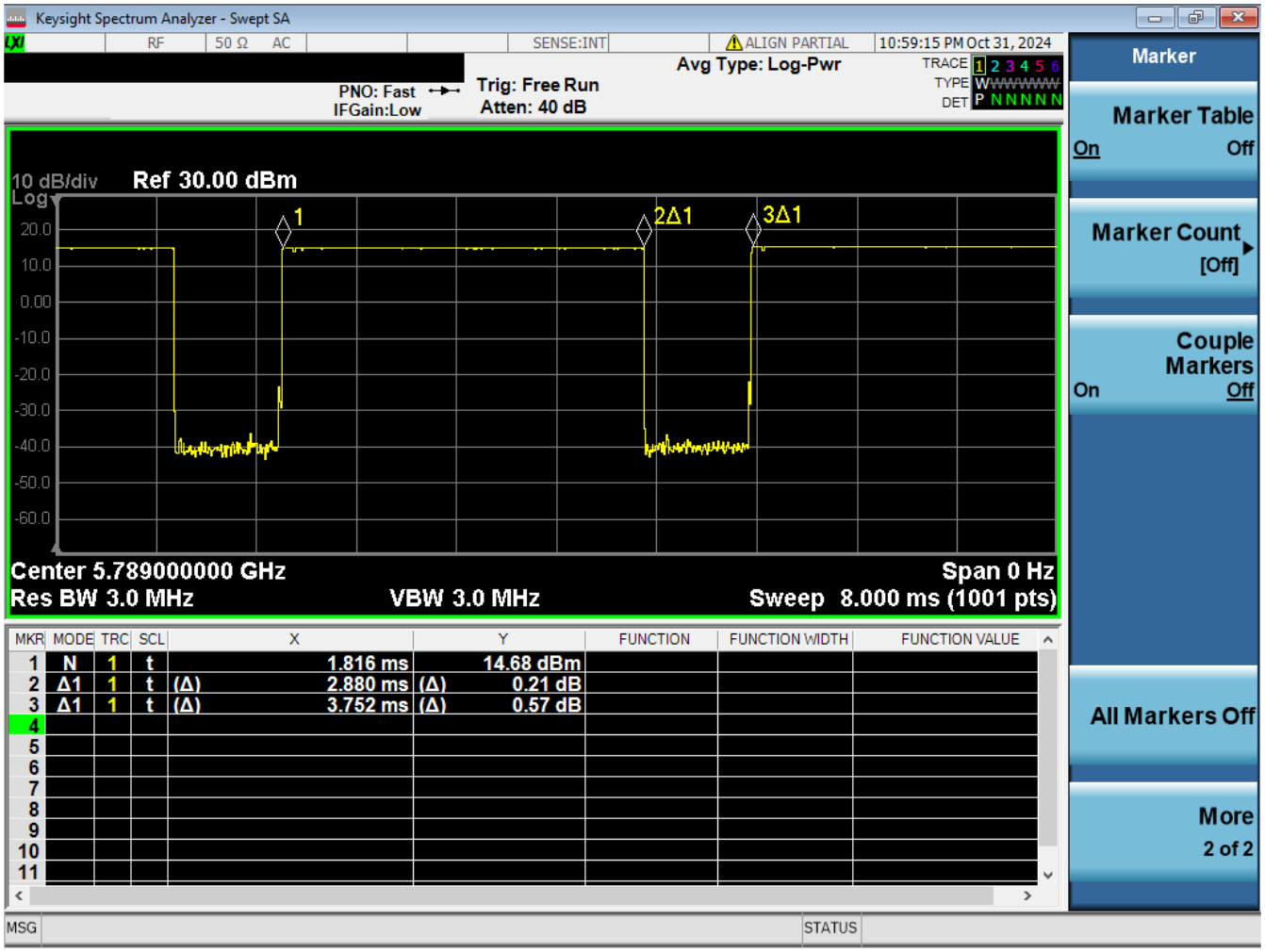

Figure 8-22
NB UNII BDR Transmission Plot – Antenna 3a, Variant 2

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

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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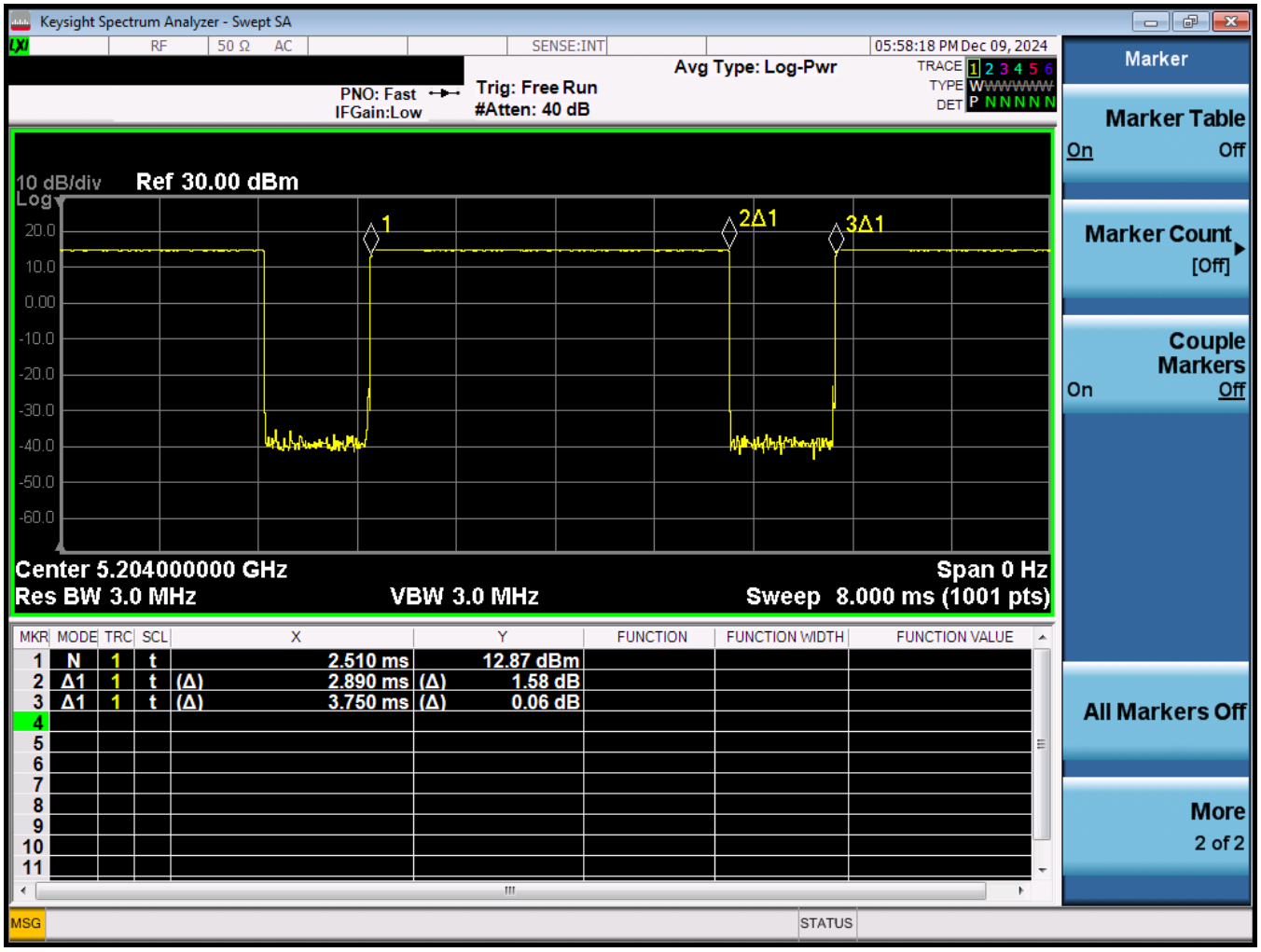

Figure 8-23
NB UNII BDR Transmission Plot – Antenna 3a, Variant 1

Equation 8-18
NB UNII BDR Duty Cycle Calculation – Antenna 3a, Variant 1

$$\boldsymbol{Duty\ Cycle} = \frac{\boldsymbol{Pulse\ Width}}{\boldsymbol{Period}} * \mathbf{100\%} = \frac{2.890\ \boldsymbol{ms}}{3.750\ \boldsymbol{ms}} * \mathbf{100\%} = \mathbf{77.07\%}$$

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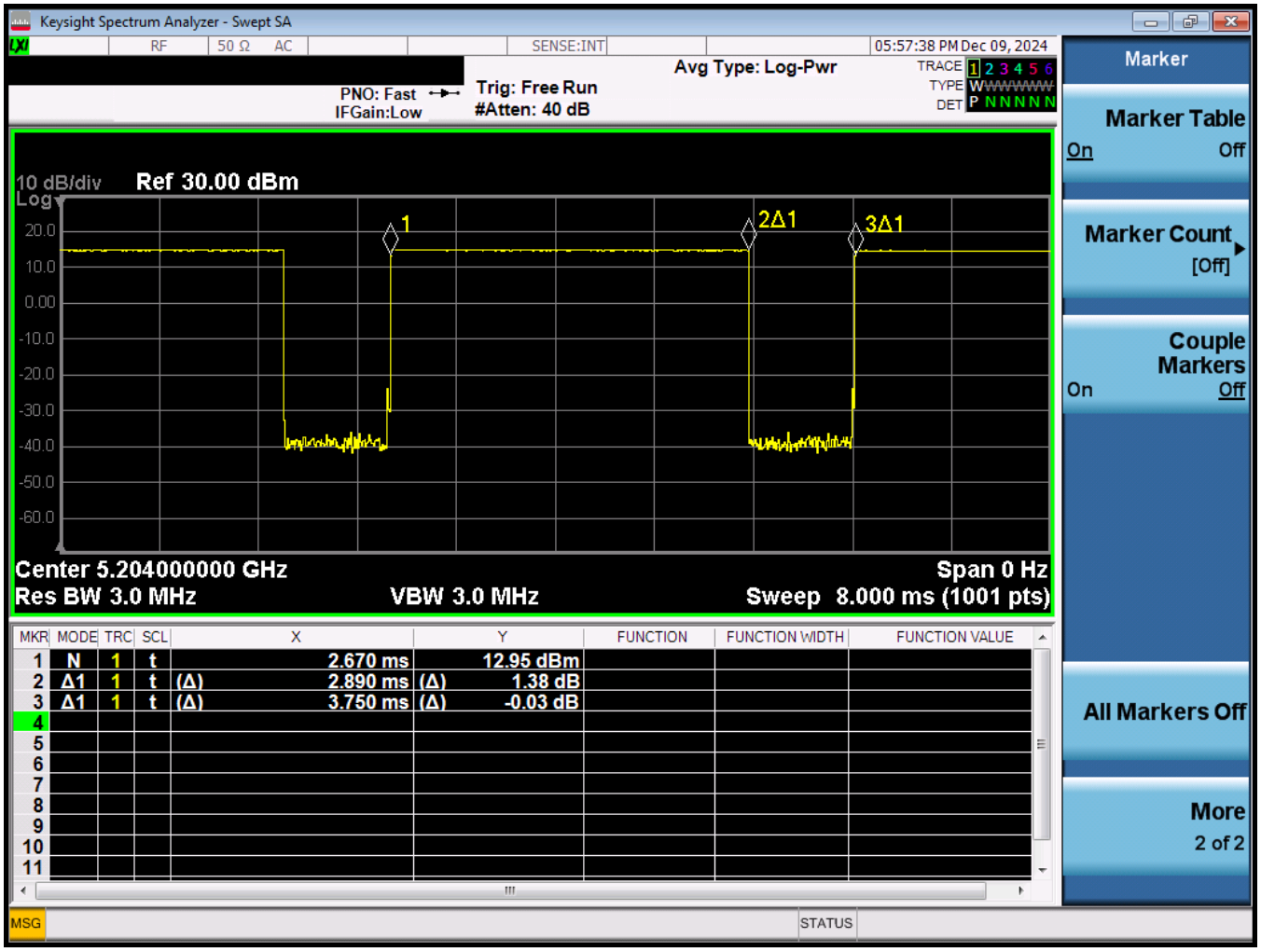

Figure 8-24
NB UNII BDR Transmission Plot – Antenna 3a, Variant 2

Equation 8-19
NB UNII BDR Duty Cycle Calculation – Antenna 3a, Variant 2

$$\boldsymbol{Duty\ Cycle} = \frac{\boldsymbol{Pulse\ Width}}{\boldsymbol{Period}} * \mathbf{100\%} = \frac{2.890\ \boldsymbol{ms}}{3.750\ \boldsymbol{ms}} * \mathbf{100\%} = \mathbf{77.07\%}$$

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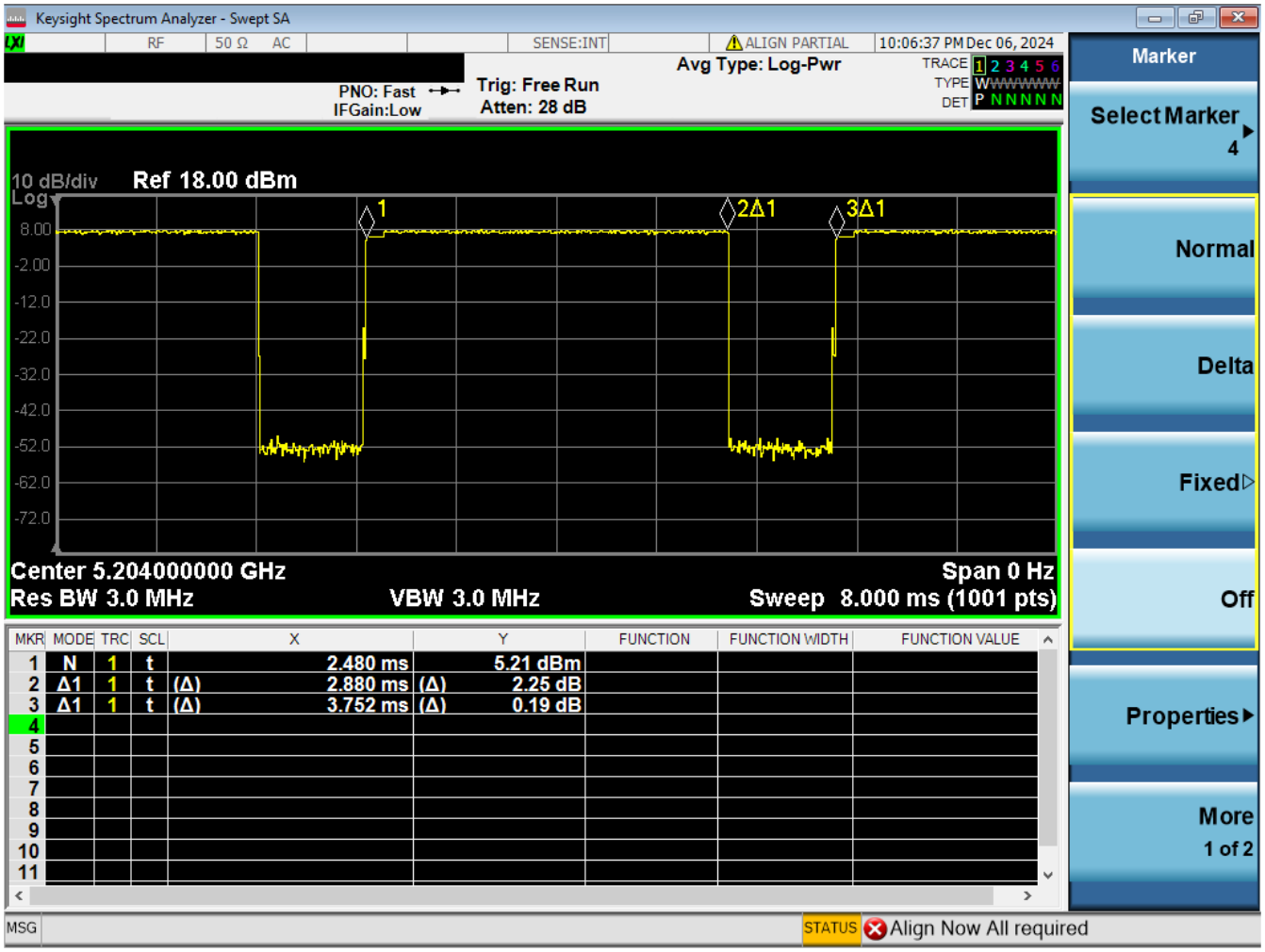

Figure 8-25
NB UNII HDR8 Transmission Plot – Antenna 3c, Variant 1

Equation 8-20
NB UNII HDR8 Duty Cycle Calculation – Antenna 3c, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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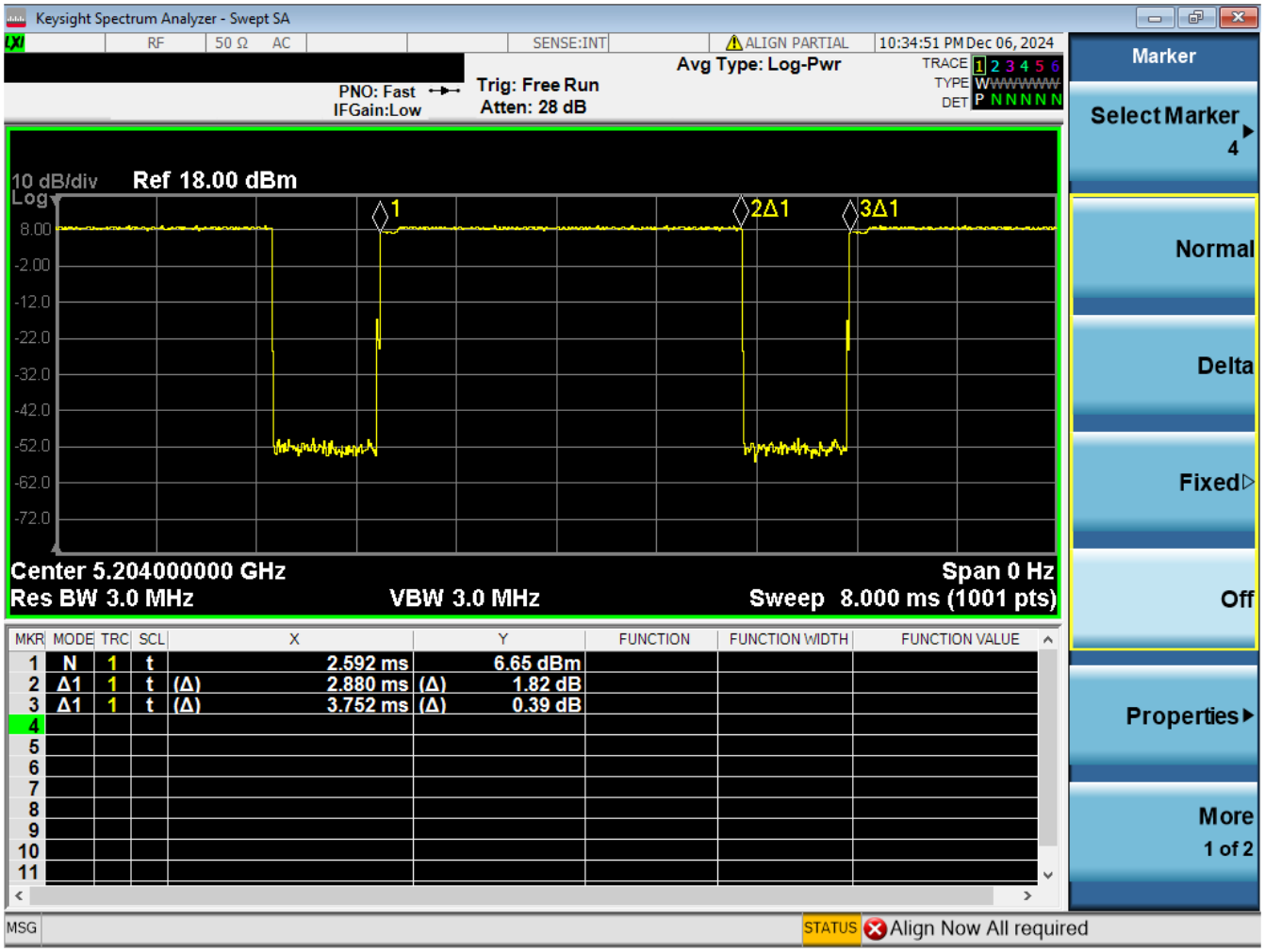

Figure 8-26
NB UNII HDR8 Transmission Plot – Antenna 3c, Variant 2

Equation 8-21
NB UNII HDR8 Duty Cycle Calculation – Antenna 3c, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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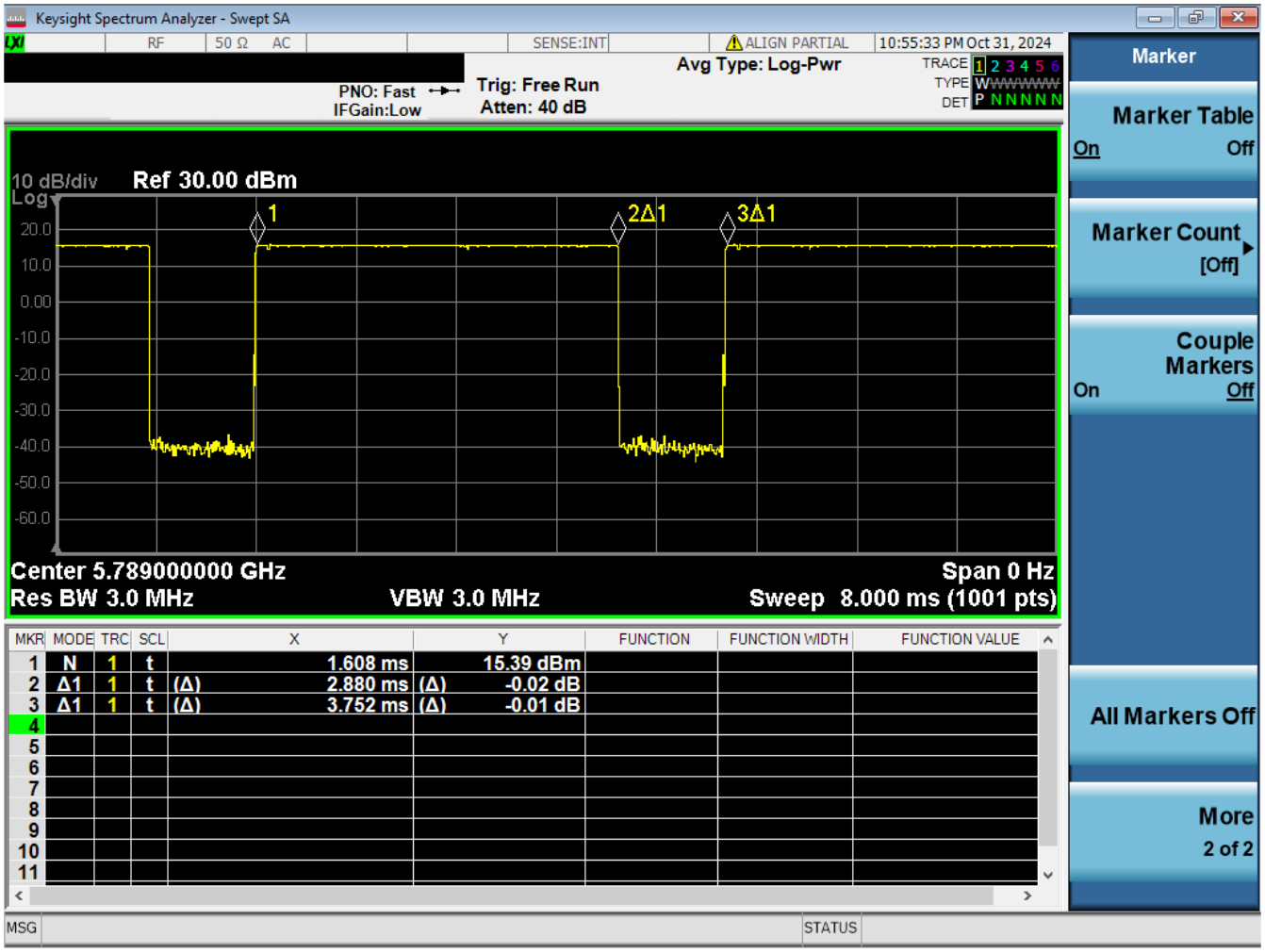

Figure 8-27
NB UNII BDR Transmission Plot – Antenna 3c, Variant 1

Equation 8-22
NB UNII BDR Duty Cycle Calculation – Antenna 3c, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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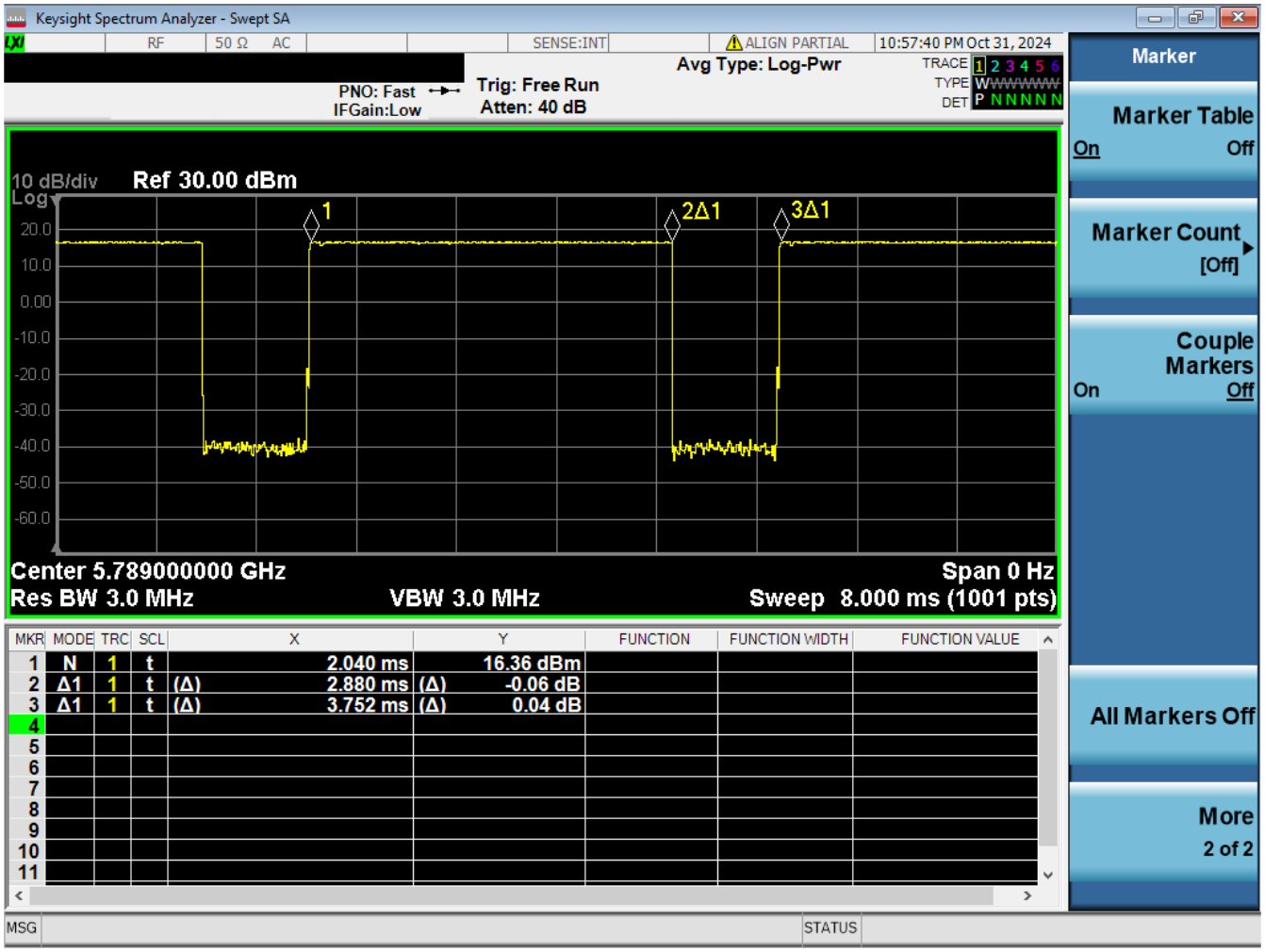

Figure 8-28
NB UNII BDR Transmission Plot – Antenna 3c, Variant 2

Equation 8-23
NB UNII BDR Duty Cycle Calculation – Antenna 3c, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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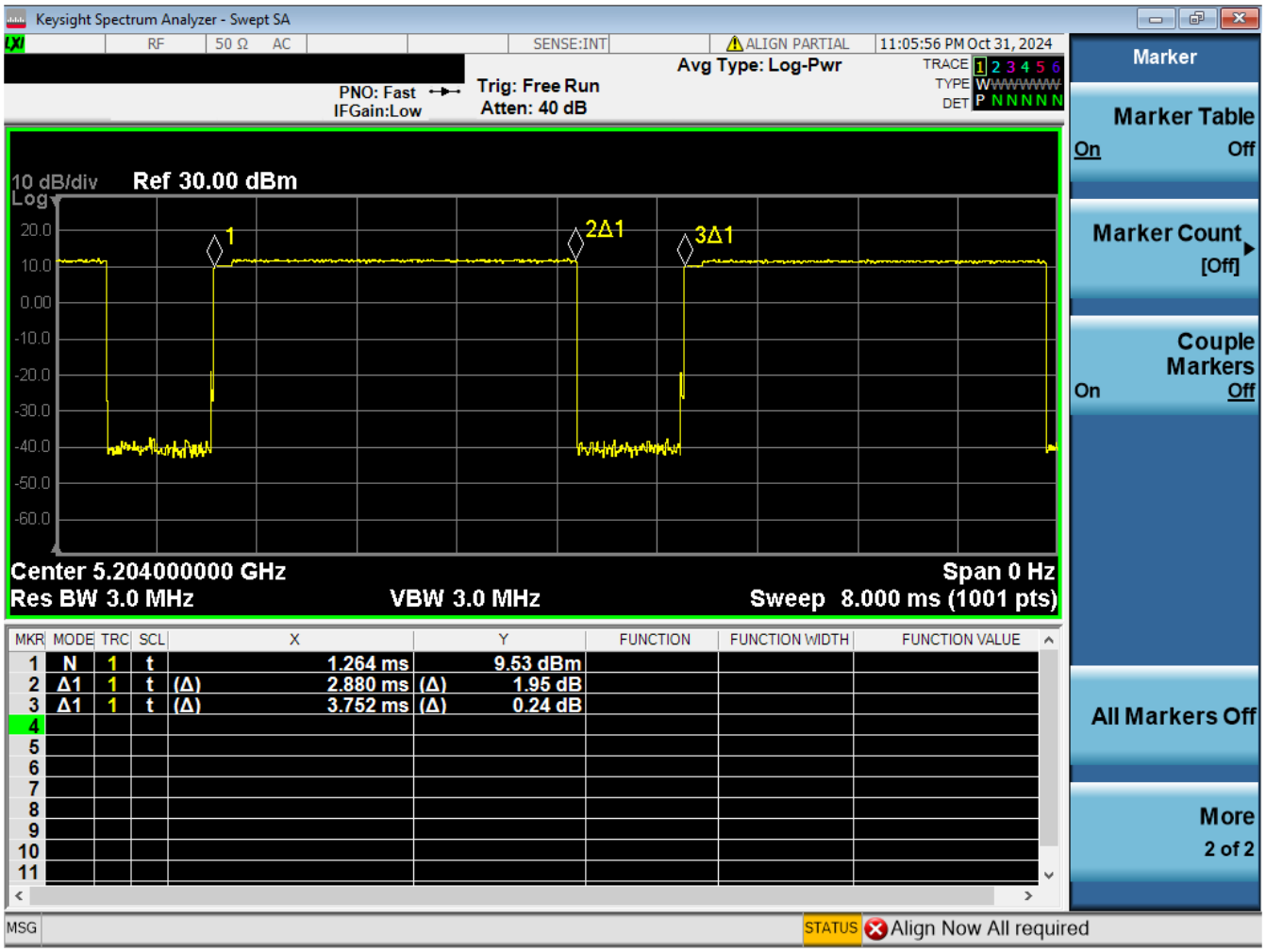

Figure 8-29
NB UNII HDR4 Transmission Plot – Antenna 3c, Variant 1

Equation 8-24
NB UNII HDR4 Duty Cycle Calculation – Antenna 3c, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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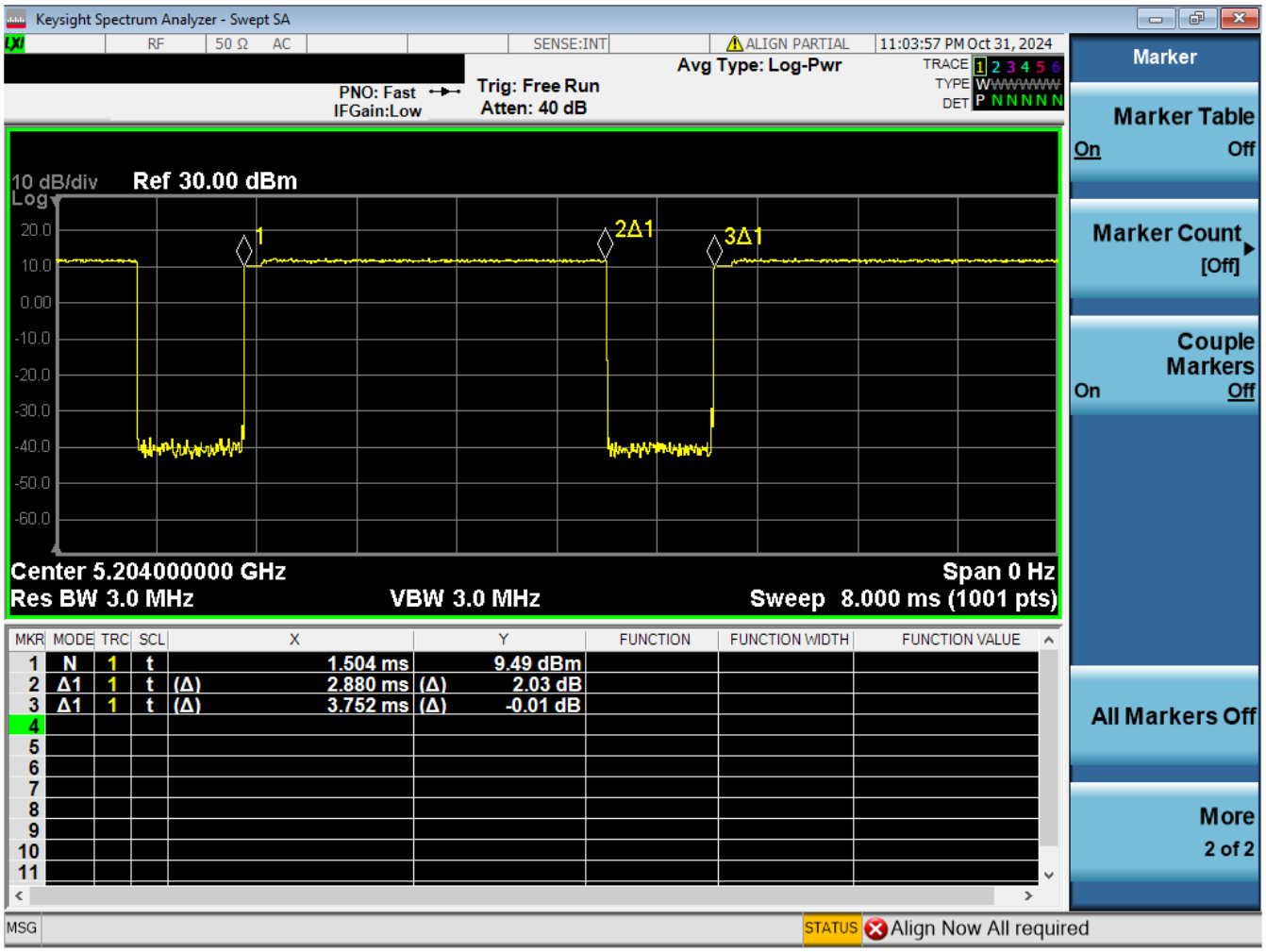

Figure 8-30
NB UNII HDR4 Transmission Plot – Antenna 3c, Variant 2

Equation 8-25
NB UNII HDR4 Duty Cycle Calculation – Antenna 3c, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880\ ms}{3.752\ ms} * 100\% = 76.76\%$$

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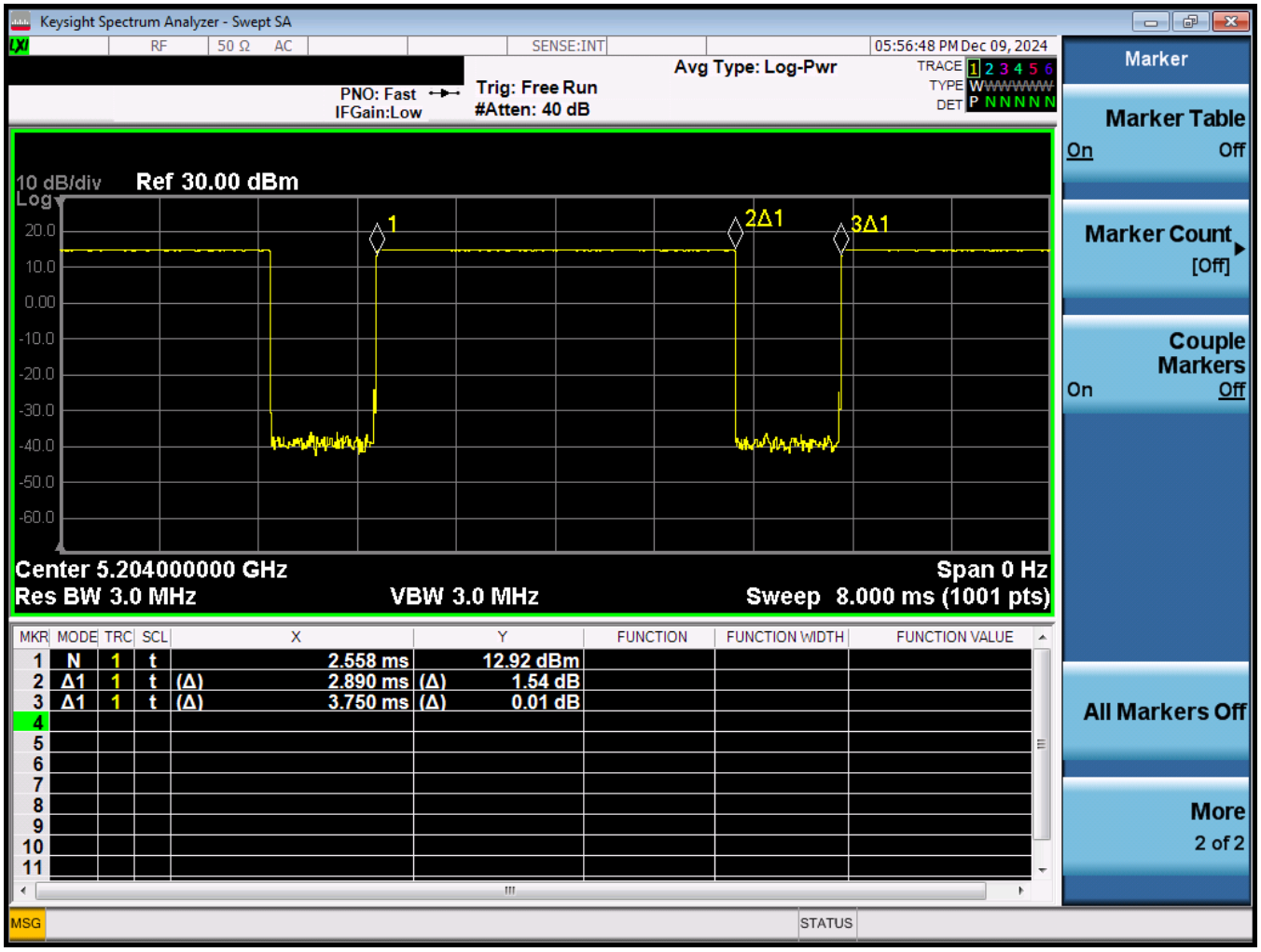

Figure 8-31
NB UNII BDR Transmission Plot – Antenna 3c, Variant 1

Equation 8-26
NB UNII BDR Duty Cycle Calculation – Antenna 3c, Variant 1

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.890\ ms}{3.750\ ms} * 100\% = 77.07\%$$

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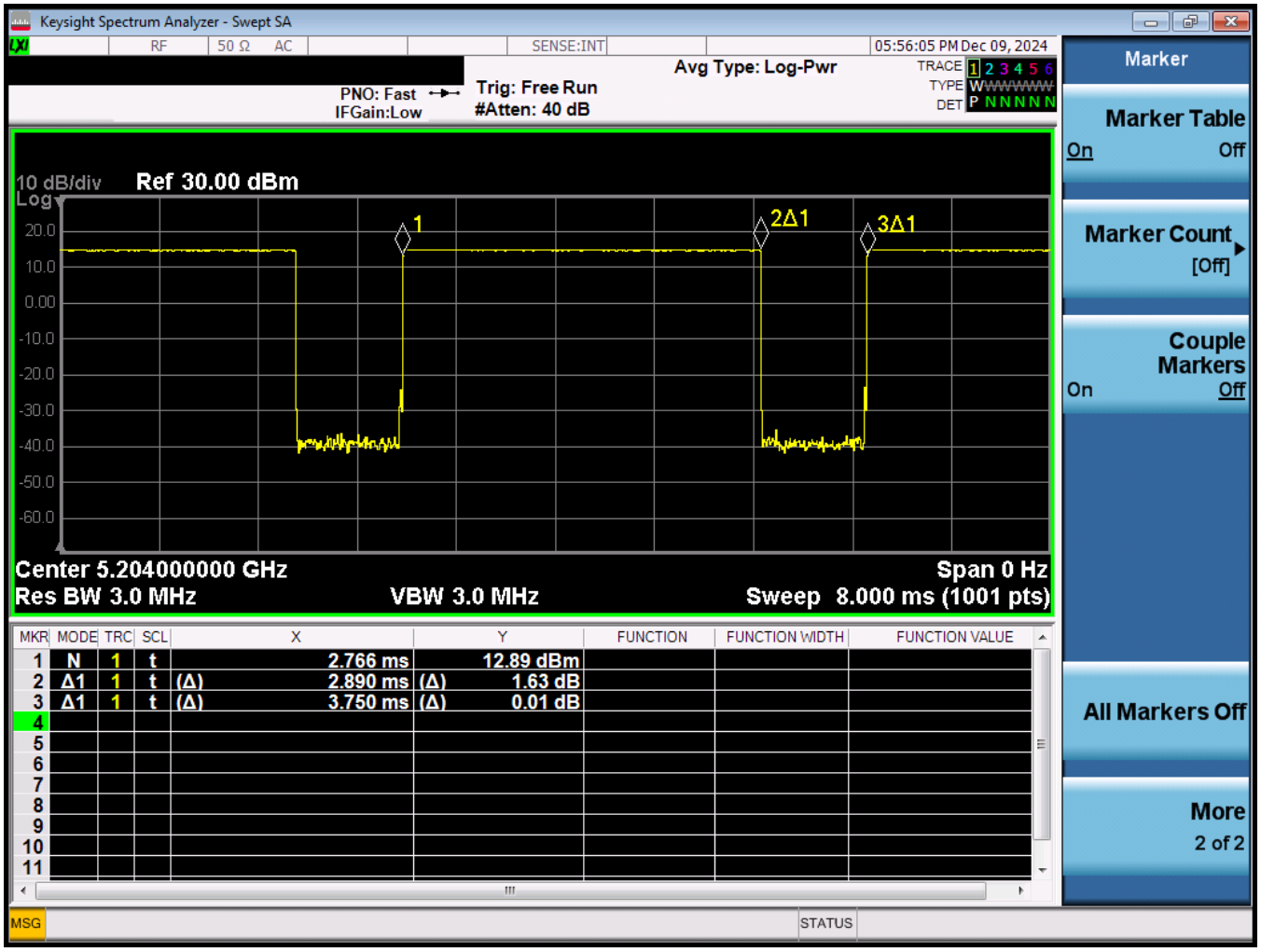

Figure 8-32
NB UNII BDR Transmission Plot – Antenna 3c, Variant 2

Equation 8-27
NB UNII BDR Duty Cycle Calculation – Antenna 3c, Variant 2

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.890\ ms}{3.750\ ms} * 100\% = 77.07\%$$

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8.23 NB UNII Power Reduction Verification Summary

Table 8-186
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 1B	NB UNII	Main Band 1A/1B ON	10	5.5	8.75	4.91	Pass
	NB UNII	Main Band 2A/2B ON	10	5.5	8.75	4.91	Pass
	NB UNII	ULCA ON	10	3	8.75	1.61	Pass
	NB UNII	2.4 GHz WLAN Ant 1a	10	5.5	8.75	4.91	Pass
	NB UNII	ULCA ON an 2.4 GHz WLAN 1A ON	10	3	8.75	1.61	Pass
	NB UNII	Main band Ant 1A/1B ON and 2.4 GHZ WLAN 1A ON	10	3	8.75	1.61	Pass
	NB UNII	Main band Ant 2A/2B ON and 2.4 GHZ WLAN 1A ON	10	3	8.75	1.61	Pass
	NB UNII	Main band Ant 3A/3B ON and 2.4 GHZ WLAN 1A ON	10	5.5	8.75	4.91	Pass
	NB UNII	Main band Ant 4 ON and 2.4 GHZ WLAN 1A ON	10	5.5	8.75	4.91	Pass
Ant 3C	NB UNII	Main Band 3A/3B ON	13.5	11	11.64	9.13	Pass
	NB UNII	ULCA ON	13.5	8.5	11.64	6.42	Pass
	NB UNII	2.4 GHz WLAN Ant 3a	13.5	11	11.64	9.13	Pass
	NB UNII	ULCA ON an 2.4 GHz WLAN 3A ON	13.5	8.5	11.64	6.42	Pass
	NB UNII	Main band Ant 1A/1B ON and 2.4 GHZ WLAN 3A ON	13.5	11	11.64	9.15	Pass
	NB UNII	Main band Ant 2A/2B ON and 2.4 GHZ WLAN 3A ON	13.5	11	11.64	9.15	Pass
	NB UNII	Main band Ant 3A/3B ON and 2.4 GHZ WLAN 3A ON	13.5	8.5	11.66	6.42	Pass
	NB UNII	Main band Ant 4 ON and 2.4 GHZ WLAN 3A ON	13.5	8.5	11.66	6.42	Pass
Ant 3A	NB UNII	Main Band 3A/3B ON	12	7.5	9.9	6.35	Pass
	NB UNII	ULCA ON	12	5	9.9	3.64	Pass
	NB UNII	2.4 GHz WLAN Ant 3a	12	7.5	9.9	6.35	Pass
	NB UNII	ULCA ON an 2.4 GHz WLAN 3A ON	12	5	9.9	3.64	Pass
	NB UNII	Main band Ant 1A/1B ON and 2.4 GHZ WLAN 3A ON	12	7.5	9.9	6.35	Pass
	NB UNII	Main band Ant 2A/2B ON and 2.4 GHZ WLAN 3A ON	12	7.5	9.9	6.35	Pass
	NB UNII	Main band Ant 3A/3B ON and 2.4 GHZ WLAN 3A ON	12	5	9.9	3.64	Pass
	NB UNII	Main band Ant 4 ON and 2.4 GHZ WLAN 3A ON	12	5	9.9	3.63	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 within tolerance.

8.24 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 structure 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 spotchecked on Variant 1 and Variant 2. The Variant with the highest reported SAR value was evaluated for the remaining NB UNII configurations.
- Full power measurements were performed for Variant 1 and Variant 2 per FCC KDB Procedures 248227.

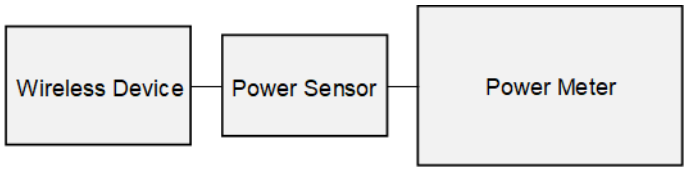

Figure 8-33

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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
12/11/2024	13 Head	24.8	4	0.744	52.836	0.750	55.000	-0.80%	-3.93%
			6	0.744	52.794	0.750	55.000	-0.80%	-4.01%
			12	0.744	52.531	0.750	55.000	-0.80%	-4.49%
			13	0.744	52.495	0.750	55.000	-0.80%	-4.55%
			14	0.745	52.422	0.750	55.000	-0.67%	-4.69%
10/23/2024	750 Head	20.4	680	0.880	41.926	0.888	42.305	-0.90%	-0.90%
			695	0.884	41.895	0.889	42.227	-0.56%	-0.79%
			700	0.885	41.880	0.889	42.201	-0.45%	-0.76%
			710	0.888	41.848	0.890	42.149	-0.22%	-0.71%
			725	0.893	41.795	0.891	42.071	0.22%	-0.66%
			750	0.902	41.711	0.894	41.942	0.89%	-0.55%
			770	0.909	41.664	0.895	41.838	1.56%	-0.42%
			785	0.914	41.635	0.896	41.760	2.01%	-0.30%
			800	0.918	41.592	0.897	41.682	2.34%	-0.22%
10/25/2024	750 Head	20.4	680	0.851	40.726	0.888	42.305	-4.17%	-3.73%
			695	0.855	40.670	0.889	42.227	-3.82%	-3.69%
			700	0.857	40.654	0.889	42.201	-3.60%	-3.67%
			710	0.861	40.624	0.890	42.149	-3.26%	-3.62%
			725	0.866	40.579	0.891	42.071	-2.81%	-3.55%
			750	0.874	40.502	0.894	41.942	-2.24%	-3.43%
			770	0.881	40.425	0.895	41.838	-1.56%	-3.38%
			785	0.886	40.376	0.896	41.760	-1.12%	-3.31%
			800	0.891	40.324	0.897	41.682	-0.67%	-3.26%
10/27/2024	750 Head	20.2	680	0.865	42.238	0.888	42.305	-2.59%	-0.16%
			695	0.871	42.186	0.889	42.227	-2.02%	-0.10%
			700	0.873	42.168	0.889	42.201	-1.80%	-0.08%
			710	0.876	42.133	0.890	42.149	-1.57%	-0.04%
			725	0.881	42.075	0.891	42.071	-1.12%	0.01%
			750	0.888	41.988	0.894	41.942	-0.67%	0.11%
			770	0.895	41.931	0.895	41.838	0.00%	0.22%
			785	0.901	41.895	0.896	41.760	0.56%	0.32%
			800	0.906	41.861	0.897	41.682	1.00%	0.43%
10/28/2024	750 Head	20.0	680	0.856	40.821	0.888	42.305	-3.60%	-3.51%
			695	0.861	40.773	0.889	42.227	-3.15%	-3.44%
			700	0.862	40.756	0.889	42.201	-3.04%	-3.42%
			710	0.866	40.726	0.890	42.149	-2.70%	-3.38%
			725	0.871	40.690	0.891	42.071	-2.24%	-3.28%
			750	0.878	40.621	0.894	41.942	-1.79%	-3.15%
			770	0.885	40.547	0.895	41.838	-1.12%	-3.09%
			785	0.890	40.495	0.896	41.760	-0.67%	-3.03%
			800	0.895	40.438	0.897	41.682	-0.22%	-2.98%
			800	0.896	41.099	0.897	41.682	-0.11%	-1.40%

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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
10/23/2024	835 Head	20.4	815	0.876	40.544	0.898	41.594	-2.45%	-2.52%
			820	0.880	40.472	0.899	41.578	-2.11%	-2.66%
			835	0.895	40.267	0.900	41.500	-0.56%	-2.97%
			850	0.909	40.078	0.916	41.500	-0.76%	-3.43%
10/25/2024	835 Head	20.0	815	0.870	40.902	0.898	41.594	-3.12%	-1.66%
			820	0.874	40.837	0.899	41.578	-2.78%	-1.78%
			835	0.888	40.647	0.900	41.500	-1.33%	-2.06%
			850	0.902	40.469	0.916	41.500	-1.53%	-2.48%
10/28/2024	835 Head	20.0	815	0.877	41.015	0.898	41.594	-2.34%	-1.39%
			820	0.882	40.950	0.899	41.578	-1.89%	-1.51%
			835	0.895	40.758	0.900	41.500	-0.56%	-1.79%
			850	0.908	40.572	0.916	41.500	-0.87%	-2.24%
10/29/2024	1750 Head	20.8	1700	1.351	38.549	1.343	40.145	0.60%	-3.98%
			1705	1.355	38.541	1.345	40.141	0.74%	-3.99%
			1710	1.359	38.535	1.348	40.136	0.82%	-3.99%
			1720	1.367	38.521	1.354	40.126	0.96%	-4.00%
			1745	1.383	38.508	1.368	40.087	1.10%	-3.94%
			1750	1.386	38.505	1.371	40.079	1.09%	-3.93%
			1770	1.396	38.480	1.383	40.047	0.94%	-3.91%
			1790	1.406	38.451	1.394	40.016	0.86%	-3.91%
11/07/2024	1750 Head	20.0	1700	1.286	38.803	1.343	40.145	-4.24%	-3.34%
			1705	1.289	38.795	1.345	40.141	-4.16%	-3.35%
			1710	1.292	38.790	1.348	40.136	-4.15%	-3.35%
			1720	1.298	38.777	1.354	40.126	-4.14%	-3.36%
			1745	1.313	38.724	1.368	40.087	-4.02%	-3.40%
			1750	1.316	38.713	1.371	40.079	-4.01%	-3.41%
			1770	1.327	38.681	1.383	40.047	-4.05%	-3.41%
			1790	1.337	38.663	1.394	40.016	-4.09%	-3.38%
10/30/2024	1900 Head	22.0	1850	1.331	40.462	1.400	40.000	-4.93%	1.16%
			1860	1.343	40.421	1.400	40.000	-4.07%	1.05%
			1880	1.365	40.339	1.400	40.000	-2.50%	0.85%
			1900	1.388	40.247	1.400	40.000	-0.86%	0.62%
			1905	1.393	40.224	1.400	40.000	-0.50%	0.56%
			1910	1.399	40.200	1.400	40.000	-0.07%	0.50%
			1920	1.409	40.157	1.400	40.000	0.64%	0.39%
11/01/2024	1900 Head	21.2	1850	1.357	39.236	1.400	40.000	-3.07%	-1.91%
			1860	1.366	39.188	1.400	40.000	-2.43%	-2.03%
			1880	1.387	39.104	1.400	40.000	-0.93%	-2.24%
			1900	1.405	39.016	1.400	40.000	0.36%	-2.46%
			1905	1.410	38.995	1.400	40.000	0.71%	-2.51%
			1910	1.415	38.977	1.400	40.000	1.07%	-2.56%
			1920	1.425	38.938	1.400	40.000	1.79%	-2.65%

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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
10/24/2024	2450 Head	20.0	2300	1.703	39.222	1.670	39.500	1.98%	-0.70%
			2310	1.711	39.210	1.679	39.480	1.91%	-0.68%
			2320	1.719	39.202	1.687	39.460	1.90%	-0.65%
			2400	1.782	39.097	1.756	39.289	1.48%	-0.49%
			2450	1.822	39.023	1.800	39.200	1.22%	-0.45%
			2480	1.843	38.957	1.833	39.162	0.55%	-0.52%
			2500	1.859	38.915	1.855	39.136	0.22%	-0.56%
			2510	1.867	38.895	1.866	39.123	0.05%	-0.58%
			2535	1.889	38.854	1.893	39.092	-0.21%	-0.61%
			2550	1.902	38.836	1.909	39.073	-0.37%	-0.61%
			2560	1.910	38.819	1.920	39.060	-0.52%	-0.62%
			2600	1.942	38.749	1.964	39.009	-1.12%	-0.67%
			2650	1.982	38.660	2.018	38.945	-1.78%	-0.73%
			2680	2.004	38.598	2.051	38.907	-2.29%	-0.79%
			2700	2.020	38.557	2.073	38.882	-2.56%	-0.84%
10/25/2024	2450 Head	24.6	2300	1.691	38.663	1.670	39.500	1.26%	-2.12%
			2310	1.702	38.626	1.679	39.480	1.37%	-2.16%
			2320	1.714	38.589	1.687	39.460	1.60%	-2.21%
			2400	1.806	38.271	1.756	39.289	2.85%	-2.59%
			2450	1.863	38.085	1.800	39.200	3.50%	-2.84%
			2480	1.897	37.952	1.833	39.162	3.49%	-3.09%
			2500	1.921	37.865	1.855	39.136	3.56%	-3.25%
			2510	1.932	37.830	1.866	39.123	3.54%	-3.30%
			2535	1.962	37.731	1.893	39.092	3.65%	-3.48%
			2550	1.980	37.677	1.909	39.073	3.72%	-3.57%
			2560	1.993	37.637	1.920	39.060	3.80%	-3.64%
			2600	2.040	37.456	1.964	39.009	3.87%	-3.98%
			2650	2.098	37.249	2.018	38.945	3.96%	-4.35%
			2680	2.132	37.112	2.051	38.907	3.95%	-4.61%
			2700	2.154	37.018	2.073	38.882	3.91%	-4.79%
10/26/2024	2450 Head	24.3	2300	1.702	39.731	1.670	39.500	1.92%	0.58%
			2310	1.714	39.689	1.679	39.480	2.08%	0.53%
			2320	1.726	39.651	1.687	39.460	2.31%	0.48%
			2400	1.815	39.343	1.756	39.289	3.36%	0.14%
			2450	1.873	39.139	1.800	39.200	4.06%	-0.16%
			2480	1.908	39.022	1.833	39.162	4.09%	-0.36%
			2500	1.931	38.947	1.855	39.136	4.10%	-0.48%
			2510	1.942	38.905	1.866	39.123	4.07%	-0.56%
			2535	1.968	38.807	1.893	39.092	3.96%	-0.73%
			2550	1.987	38.756	1.909	39.073	4.09%	-0.81%
			2560	1.999	38.720	1.920	39.060	4.11%	-0.87%
			2600	2.049	38.548	1.964	39.009	4.33%	-1.18%
			2650	2.107	38.356	2.018	38.945	4.41%	-1.51%
			2680	2.143	38.219	2.051	38.907	4.49%	-1.77%
			2700	2.166	38.126	2.073	38.882	4.49%	-1.94%
10/30/2024	2450 Head	24.3	2300	1.677	38.751	1.670	39.500	0.42%	-1.90%
			2310	1.690	38.715	1.679	39.480	0.66%	-1.94%
			2320	1.701	38.683	1.687	39.460	0.83%	-1.97%
			2400	1.788	38.336	1.756	39.289	1.82%	-2.43%
			2450	1.844	38.140	1.800	39.200	2.44%	-2.70%
			2480	1.875	37.993	1.833	39.162	2.29%	-2.99%
			2500	1.897	37.924	1.855	39.136	2.26%	-3.10%
			2510	1.908	37.894	1.866	39.123	2.25%	-3.14%
			2535	1.937	37.807	1.893	39.092	2.32%	-3.29%
			2550	1.954	37.748	1.909	39.073	2.36%	-3.39%
			2560	1.965	37.706	1.920	39.060	2.34%	-3.47%
			2600	2.012	37.545	1.964	39.009	2.44%	-3.75%
			2650	2.070	37.372	2.018	38.945	2.58%	-4.04%
			2680	2.104	37.233	2.051	38.907	2.58%	-4.30%
			2700	2.127	37.141	2.073	38.882	2.60%	-4.48%

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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
10/30/2024	2450 Head	19.0	2300	1.692	38.067	1.670	39.500	1.32%	-3.63%
			2310	1.700	38.055	1.679	39.480	1.25%	-3.61%
			2320	1.708	38.043	1.687	39.460	1.24%	-3.59%
			2400	1.769	37.939	1.756	39.289	0.74%	-3.44%
			2450	1.810	37.874	1.800	39.200	0.56%	-3.38%
			2480	1.832	37.818	1.833	39.162	-0.05%	-3.43%
			2500	1.847	37.782	1.855	39.136	-0.43%	-3.46%
			2510	1.855	37.766	1.866	39.123	-0.59%	-3.47%
			2535	1.877	37.722	1.893	39.092	-0.85%	-3.50%
			2550	1.890	37.698	1.909	39.073	-1.00%	-3.52%
			2560	1.898	37.677	1.920	39.060	-1.15%	-3.54%
			2600	1.929	37.594	1.964	39.009	-1.78%	-3.63%
			2650	1.971	37.517	2.018	38.945	-2.33%	-3.67%
			2680	1.997	37.447	2.051	38.907	-2.63%	-3.75%
			2700	2.013	37.408	2.073	38.882	-2.89%	-3.79%
10/31/2024	2450 Head	24.5	2300	1.693	38.646	1.670	39.500	1.38%	-2.16%
			2310	1.704	38.608	1.679	39.480	1.49%	-2.21%
			2320	1.715	38.571	1.687	39.460	1.66%	-2.25%
			2400	1.806	38.254	1.756	39.289	2.85%	-2.63%
			2450	1.862	38.051	1.800	39.200	3.44%	-2.93%
			2480	1.895	37.910	1.833	39.162	3.38%	-3.20%
			2500	1.918	37.831	1.855	39.136	3.40%	-3.33%
			2510	1.929	37.798	1.866	39.123	3.38%	-3.39%
			2535	1.959	37.715	1.893	39.092	3.49%	-3.52%
			2550	1.976	37.655	1.909	39.073	3.51%	-3.63%
			2560	1.986	37.612	1.920	39.060	3.44%	-3.71%
			2600	2.032	37.434	1.964	39.009	3.46%	-4.04%
			2650	2.095	37.258	2.018	38.945	3.82%	-4.33%
			2680	2.126	37.107	2.051	38.907	3.66%	-4.63%
			2700	2.150	37.007	2.073	38.882	3.71%	-4.82%
11/07/2024	2450 Head	19.1	2300	1.680	38.529	1.670	39.500	0.60%	-2.46%
			2310	1.688	38.516	1.679	39.480	0.54%	-2.44%
			2320	1.696	38.508	1.687	39.460	0.53%	-2.41%
			2400	1.754	38.367	1.756	39.289	-0.11%	-2.35%
			2450	1.792	38.302	1.800	39.200	-0.44%	-2.29%
			2480	1.814	38.244	1.833	39.162	-1.04%	-2.34%
			2500	1.830	38.208	1.855	39.136	-1.35%	-2.37%
			2510	1.837	38.192	1.866	39.123	-1.55%	-2.38%
			2535	1.858	38.167	1.893	39.092	-1.85%	-2.37%
			2550	1.871	38.152	1.909	39.073	-1.99%	-2.36%
			2560	1.878	38.138	1.920	39.060	-2.19%	-2.36%
			2600	1.909	38.045	1.964	39.009	-2.80%	-2.47%
			2650	1.949	37.978	2.018	38.945	-3.42%	-2.48%
			2680	1.972	37.922	2.051	38.907	-3.85%	-2.53%
			2700	1.989	37.877	2.073	38.882	-4.05%	-2.58%
11/14/2024	2450 Head	24.4	2300	1.675	39.357	1.670	39.500	0.30%	-0.36%
			2310	1.687	39.331	1.679	39.480	0.48%	-0.38%
			2320	1.698	39.304	1.687	39.460	0.65%	-0.40%
			2400	1.786	38.959	1.756	39.289	1.71%	-0.84%
			2450	1.838	38.760	1.800	39.200	2.11%	-1.12%
			2480	1.876	38.617	1.833	39.162	2.35%	-1.39%
			2500	1.901	38.556	1.855	39.136	2.48%	-1.48%
			2510	1.913	38.524	1.866	39.123	2.52%	-1.53%
			2535	1.939	38.424	1.893	39.092	2.43%	-1.71%
			2550	1.956	38.349	1.909	39.073	2.46%	-1.85%
			2560	1.970	38.301	1.920	39.060	2.60%	-1.94%
			2600	2.024	38.191	1.964	39.009	3.05%	-2.10%
			2650	2.076	37.981	2.018	38.945	2.87%	-2.48%
			2680	2.117	37.864	2.051	38.907	3.22%	-2.68%
			2700	2.142	37.816	2.073	38.882	3.33%	-2.74%

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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
11/23/2024	2450 Head	19.4	2300	1.679	38.250	1.670	39.500	0.54%	-3.16%
			2310	1.686	38.239	1.679	39.480	0.42%	-3.14%
			2320	1.694	38.227	1.687	39.460	0.41%	-3.12%
			2400	1.751	38.113	1.756	39.289	-0.28%	-2.99%
			2450	1.786	38.039	1.800	39.200	-0.78%	-2.96%
			2480	1.809	37.997	1.833	39.162	-1.31%	-2.97%
			2500	1.824	37.969	1.855	39.136	-1.67%	-2.98%
			2510	1.831	37.959	1.866	39.123	-1.88%	-2.98%
			2535	1.851	37.922	1.893	39.092	-2.22%	-2.99%
			2550	1.863	37.901	1.909	39.073	-2.41%	-3.00%
			2560	1.871	37.888	1.920	39.060	-2.55%	-3.00%
			2600	1.903	37.816	1.964	39.009	-3.11%	-3.06%
			2650	1.941	37.743	2.018	38.945	-3.82%	-3.09%
			2680	1.967	37.696	2.051	38.907	-4.10%	-3.11%
			2700	1.982	37.651	2.073	38.882	-4.39%	-3.17%
10/26/2024	3600 Head	19.1	3300	2.682	36.979	2.708	38.157	-0.96%	-3.09%
			3350	2.721	36.881	2.759	38.100	-1.38%	-3.20%
			3450	2.798	36.715	2.861	37.986	-2.20%	-3.35%
			3500	2.846	36.644	2.913	37.929	-2.30%	-3.39%
			3550	2.886	36.564	2.964	37.871	-2.63%	-3.45%
			3560	2.894	36.532	2.974	37.860	-2.69%	-3.51%
			3600	2.928	36.495	3.015	37.814	-2.89%	-3.49%
			3650	2.969	36.421	3.066	37.757	-3.16%	-3.54%
			3690	3.009	36.346	3.107	37.711	-3.15%	-3.62%
			3700	3.017	36.333	3.117	37.700	-3.21%	-3.63%
			3750	3.055	36.257	3.169	37.643	-3.60%	-3.68%
			3900	3.194	36.043	3.323	37.471	-3.88%	-3.81%
			3930	3.223	36.006	3.353	37.437	-3.88%	-3.82%
			4100	3.387	35.757	3.528	37.243	-4.00%	-3.99%
			4150	3.430	35.736	3.579	37.186	-4.16%	-3.90%
10/31/2024	3600 Head	19.0	3300	2.691	37.411	2.708	38.157	-0.63%	-1.96%
			3350	2.726	37.346	2.759	38.100	-1.20%	-1.98%
			3450	2.806	37.181	2.861	37.986	-1.92%	-2.12%
			3500	2.850	37.084	2.913	37.929	-2.16%	-2.23%
			3550	2.892	37.028	2.964	37.871	-2.43%	-2.23%
			3560	2.901	37.013	2.974	37.860	-2.45%	-2.24%
			3600	2.933	36.954	3.015	37.814	-2.72%	-2.27%
			3650	2.981	36.888	3.066	37.757	-2.77%	-2.30%
			3690	3.015	36.799	3.107	37.711	-2.96%	-2.42%
			3700	3.026	36.787	3.117	37.700	-2.92%	-2.42%
			3750	3.069	36.732	3.169	37.643	-3.16%	-2.42%
			3900	3.202	36.514	3.323	37.471	-3.64%	-2.55%
			3930	3.231	36.465	3.353	37.437	-3.64%	-2.60%
			4100	3.391	36.247	3.528	37.243	-3.88%	-2.67%
			4150	3.442	36.168	3.579	37.186	-3.83%	-2.74%
11/15/2024	3600 Head	19.0	3300	2.603	39.134	2.708	38.157	-3.88%	2.56%
			3350	2.643	39.036	2.759	38.100	-4.20%	2.46%
			3450	2.736	38.864	2.861	37.986	-4.37%	2.31%
			3500	2.781	38.773	2.913	37.929	-4.53%	2.23%
			3550	2.824	38.708	2.964	37.871	-4.72%	2.21%
			3560	2.837	38.677	2.974	37.860	-4.61%	2.16%
			3600	2.874	38.612	3.015	37.814	-4.68%	2.11%
			3650	2.924	38.539	3.066	37.757	-4.63%	2.07%
			3690	2.963	38.452	3.107	37.711	-4.63%	1.96%
			3700	2.974	38.440	3.117	37.700	-4.59%	1.96%
			3750	3.023	38.361	3.169	37.643	-4.61%	1.91%
			3900	3.172	38.113	3.323	37.471	-4.54%	1.71%
			3930	3.204	38.059	3.353	37.437	-4.44%	1.66%
			4100	3.383	37.787	3.528	37.243	-4.11%	1.46%
			4150	3.433	37.714	3.579	37.186	-4.08%	1.42%

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10/23/2024	5200-5800 Head	20.0	5150	4.479	35.478	4.608	36.050	-2.80%	-1.59%
			5160	4.488	35.477	4.618	36.040	-2.82%	-1.56%
			5170	4.497	35.455	4.629	36.030	-2.85%	-1.60%
			5180	4.507	35.426	4.635	36.009	-2.76%	-1.62%
			5190	4.522	35.402	4.645	35.998	-2.65%	-1.66%
			5200	4.533	35.385	4.655	35.986	-2.62%	-1.67%
			5210	4.540	35.365	4.666	35.975	-2.70%	-1.70%
			5220	4.547	35.344	4.676	35.963	-2.76%	-1.72%
			5240	4.576	35.293	4.696	35.940	-2.56%	-1.80%
			5250	4.590	35.288	4.706	35.929	-2.46%	-1.78%
			5260	4.600	35.286	4.717	35.917	-2.48%	-1.76%
			5270	4.610	35.271	4.727	35.906	-2.48%	-1.77%
			5280	4.622	35.245	4.737	35.894	-2.43%	-1.81%
			5290	4.634	35.222	4.748	35.883	-2.40%	-1.84%
			5300	4.641	35.200	4.758	35.871	-2.46%	-1.87%
			5310	4.649	35.186	4.768	35.860	-2.50%	-1.88%
			5320	4.658	35.169	4.778	35.849	-2.51%	-1.90%
			5500	4.863	34.842	4.963	35.643	-2.01%	-2.25%
			5510	4.871	34.828	4.973	35.632	-2.05%	-2.26%
			5520	4.883	34.807	4.983	35.620	-2.01%	-2.28%
			5530	4.895	34.775	4.994	35.609	-1.98%	-2.34%
			5540	4.909	34.753	5.004	35.597	-1.90%	-2.37%
			5550	4.922	34.735	5.014	35.586	-1.83%	-2.39%
			5560	4.934	34.728	5.024	35.574	-1.79%	-2.38%
			5580	4.955	34.709	5.045	35.551	-1.78%	-2.37%
			5600	4.979	34.668	5.065	35.529	-1.70%	-2.42%
			5610	4.990	34.651	5.076	35.518	-1.69%	-2.44%
			5620	5.001	34.637	5.086	35.506	-1.67%	-2.45%
			5640	5.029	34.575	5.106	35.483	-1.51%	-2.56%
			5660	5.056	34.523	5.127	35.460	-1.38%	-2.64%
			5670	5.064	34.517	5.137	35.449	-1.42%	-2.63%
			5680	5.072	34.514	5.147	35.437	-1.46%	-2.60%
			5690	5.084	34.510	5.158	35.426	-1.43%	-2.59%
			5700	5.096	34.488	5.168	35.414	-1.39%	-2.61%
			5710	5.107	34.471	5.178	35.403	-1.37%	-2.63%
			5720	5.114	34.447	5.188	35.391	-1.43%	-2.67%
			5745	5.142	34.387	5.214	35.363	-1.38%	-2.76%
			5750	5.149	34.371	5.219	35.357	-1.34%	-2.79%
			5755	5.157	34.357	5.224	35.351	-1.28%	-2.81%
			5765	5.173	34.344	5.234	35.340	-1.17%	-2.82%
			5775	5.183	34.325	5.245	35.329	-1.18%	-2.84%
			5785	5.192	34.319	5.255	35.317	-1.20%	-2.83%
			5795	5.205	34.308	5.265	35.305	-1.14%	-2.82%
			5800	5.212	34.302	5.270	35.300	-1.10%	-2.83%
			5805	5.220	34.293	5.275	35.294	-1.04%	-2.84%
			5825	5.242	34.266	5.296	35.271	-1.02%	-2.85%
			5835	5.247	34.254	5.305	35.230	-1.09%	-2.77%
			5845	5.256	34.236	5.315	35.210	-1.11%	-2.77%
			5850	5.262	34.220	5.320	35.200	-1.09%	-2.78%
			5855	5.267	34.202	5.325	35.197	-1.09%	-2.83%
			5865	5.287	34.164	5.336	35.190	-0.92%	-2.92%
			5875	5.302	34.141	5.347	35.183	-0.84%	-2.96%
			5885	5.314	34.133	5.357	35.177	-0.80%	-2.97%
			5905	5.328	34.113	5.379	35.163	-0.95%	-2.99%

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11/04/2024	5200-5800 Head	19.7	5150	4.515	34.825	4.608	36.050	-2.02%	-3.40%
			5160	4.527	34.807	4.618	36.040	-1.97%	-3.42%
			5170	4.539	34.784	4.629	36.030	-1.94%	-3.46%
			5180	4.553	34.758	4.635	36.009	-1.77%	-3.47%
			5190	4.565	34.738	4.645	35.998	-1.72%	-3.50%
			5200	4.572	34.730	4.655	35.986	-1.78%	-3.49%
			5210	4.581	34.728	4.666	35.975	-1.82%	-3.47%
			5220	4.588	34.719	4.676	35.963	-1.88%	-3.46%
			5240	4.611	34.672	4.696	35.940	-1.81%	-3.53%
			5250	4.619	34.653	4.706	35.929	-1.85%	-3.55%
			5260	4.625	34.635	4.717	35.917	-1.95%	-3.57%
			5270	4.636	34.610	4.727	35.906	-1.93%	-3.61%
			5280	4.656	34.583	4.737	35.894	-1.71%	-3.65%
			5290	4.672	34.557	4.748	35.883	-1.60%	-3.70%
			5300	4.682	34.553	4.758	35.871	-1.60%	-3.67%
			5310	4.694	34.547	4.768	35.860	-1.55%	-3.66%
			5320	4.705	34.529	4.778	35.849	-1.53%	-3.68%
			5500	4.885	34.218	4.963	35.643	-1.57%	-4.00%
			5510	4.896	34.199	4.973	35.632	-1.55%	-4.02%
			5520	4.907	34.182	4.983	35.620	-1.53%	-4.04%
			5530	4.920	34.159	4.994	35.609	-1.48%	-4.07%
			5540	4.931	34.141	5.004	35.597	-1.46%	-4.09%
			5550	4.944	34.130	5.014	35.586	-1.40%	-4.09%
			5560	4.952	34.122	5.024	35.574	-1.43%	-4.08%
			5580	4.966	34.096	5.045	35.551	-1.57%	-4.09%
			5600	4.994	34.053	5.065	35.529	-1.40%	-4.15%
			5610	5.006	34.039	5.076	35.518	-1.38%	-4.16%
			5620	5.018	34.031	5.086	35.506	-1.34%	-4.15%
			5640	5.040	33.985	5.106	35.483	-1.29%	-4.22%
			5660	5.067	33.946	5.127	35.460	-1.17%	-4.27%
			5670	5.075	33.938	5.137	35.449	-1.21%	-4.26%
			5680	5.081	33.935	5.147	35.437	-1.28%	-4.24%
			5690	5.090	33.913	5.158	35.426	-1.32%	-4.27%
			5700	5.105	33.893	5.168	35.414	-1.22%	-4.29%
			5710	5.122	33.869	5.178	35.403	-1.08%	-4.33%
			5720	5.134	33.859	5.188	35.391	-1.04%	-4.33%
			5745	5.159	33.824	5.214	35.363	-1.05%	-4.35%
			5750	5.163	33.820	5.219	35.357	-1.07%	-4.35%
			5755	5.168	33.812	5.224	35.351	-1.07%	-4.35%
			5765	5.178	33.796	5.234	35.340	-1.07%	-4.37%
			5775	5.186	33.782	5.245	35.329	-1.12%	-4.38%
			5785	5.194	33.768	5.255	35.317	-1.16%	-4.39%
			5795	5.200	33.750	5.265	35.305	-1.23%	-4.40%
			5800	5.207	33.739	5.270	35.300	-1.20%	-4.42%
			5805	5.214	33.736	5.275	35.294	-1.16%	-4.41%
			5825	5.242	33.715	5.296	35.271	-1.02%	-4.41%
			5835	5.255	33.707	5.305	35.230	-0.94%	-4.32%
			5845	5.265	33.701	5.315	35.210	-0.94%	-4.29%
			5850	5.269	33.690	5.320	35.200	-0.96%	-4.29%
			5855	5.275	33.682	5.325	35.197	-0.94%	-4.30%
			5865	5.287	33.654	5.336	35.190	-0.92%	-4.36%
			5875	5.303	33.628	5.347	35.183	-0.82%	-4.42%
			5885	5.318	33.613	5.357	35.177	-0.73%	-4.45%
			5905	5.332	33.573	5.379	35.163	-0.87%	-4.52%

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10/27/2024	6000 Head	19.2	5935	5.321	35.307	5.411	35.143	-1.66%	0.47%
			5970	5.360	35.275	5.448	35.120	-1.62%	0.44%
			5985	5.375	35.243	5.464	35.110	-1.63%	0.38%
			6000	5.391	35.203	5.480	35.100	-1.62%	0.29%
			6025	5.426	35.133	5.510	35.070	-1.52%	0.18%
			6065	5.482	35.084	5.557	35.022	-1.35%	0.18%
			6075	5.492	35.073	5.569	35.010	-1.38%	0.18%
			6085	5.503	35.058	5.580	34.998	-1.38%	0.17%
			6185	5.624	34.846	5.698	34.878	-1.30%	-0.09%
			6275	5.743	34.662	5.805	34.770	-1.07%	-0.31%
			6285	5.753	34.656	5.816	34.758	-1.08%	-0.29%
			6305	5.772	34.628	5.840	34.734	-1.16%	-0.31%
			6345	5.822	34.547	5.887	34.686	-1.10%	-0.40%
			6475	5.977	34.323	6.041	34.530	-1.06%	-0.60%
			6485	5.987	34.311	6.052	34.518	-1.07%	-0.60%
			6500	5.999	34.282	6.070	34.500	-1.17%	-0.63%
			6505	6.003	34.269	6.076	34.494	-1.20%	-0.65%
			6545	6.064	34.157	6.122	34.446	-0.95%	-0.84%
			6665	6.218	33.942	6.265	34.302	-0.75%	-1.05%
			6675	6.234	33.936	6.273	34.290	-0.62%	-1.03%
			6685	6.250	33.931	6.285	34.278	-0.56%	-1.01%
			6715	6.277	33.912	6.319	34.242	-0.66%	-0.96%
			6785	6.353	33.742	6.400	34.158	-0.73%	-1.22%
			6825	6.402	33.712	6.447	34.110	-0.70%	-1.17%
			6985	6.595	33.400	6.633	33.918	-0.57%	-1.53%
			6995	6.608	33.384	6.644	33.906	-0.54%	-1.54%
			7000	6.611	33.384	6.650	33.900	-0.59%	-1.52%
			7005	6.616	33.387	6.656	33.894	-0.60%	-1.50%
			7025	6.645	33.381	6.680	33.870	-0.52%	-1.44%
			7500	7.212	32.518	7.240	33.300	-0.39%	-2.35%
			7980	7.812	31.695	7.816	32.724	-0.05%	-3.14%
			8000	7.830	31.782	7.840	32.700	-0.13%	-2.81%

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

System Verification TARGET & MEASURED																	
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	12/11/2024	21.9	24.0	1.00	1004	7308	534	0.566	0.575	0.566	-1.57%				
AM11	750	HEAD	10/23/2024	21.4	20.4	0.20	1097	7532	501	1.680	8.270	8.400	1.57%				
AM11	750	HEAD	10/25/2024	22.2	20.0	0.20	1097	7532	501	1.660	8.270	8.300	0.36%				
AM1	750	HEAD	10/27/2024	21.8	20.0	0.20	1057	7416	701	1.710	8.510	8.550	0.47%				
AM11	750	HEAD	10/28/2024	20.5	20.0	0.20	1097	7532	501	1.740	8.270	8.700	5.20%				
AM13	835	HEAD	10/23/2024	21.8	20.0	0.20	460	7682	1683	1.910	9.720	9.550	-1.75%				
AM13	835	HEAD	10/25/2024	23.0	20.0	0.20	460	7682	1683	1.910	9.720	9.550	-1.75%				
AM13	835	HEAD	10/28/2024	21.8	20.5	0.20	460	7682	1683	1.930	9.720	9.650	-0.72%				
AM11	1750	HEAD	10/29/2024	22.4	20.4	0.10	1083	7532	501	3.480	36.500	34.800	-4.66%				
AM11	1750	HEAD	11/07/2024	22.4	20.0	0.10	1104	7532	501	3.710	35.600	37.100	4.21%				
AM7	1900	HEAD	10/30/2024	20.8	20.5	0.10	5d181	7421	604	4.280	39.900	42.800	7.27%				
AM7	1900	HEAD	11/01/2024	21.2	20.9	0.10	5d181	7421	604	4.000	39.900	40.000	0.25%				
AM10	2300	HEAD	10/25/2024	22.5	22.8	0.10	1038	7546	1402	4.860	49.100	48.600	-1.02%				
AM10	2300	HEAD	10/31/2024	24.1	23.5	0.10	1038	7546	1402	4.980	49.100	49.800	1.43%				
AM6	2450	HEAD	10/24/2024	20.0	20.0	0.10	855	7639	1403	5.480	52.400	54.800	4.58%				
AM16	2450	HEAD	10/30/2024	22.0	23.0	0.10	750	7552	1676	5.230	52.600	52.300	-0.57%				
AM6	2450	HEAD	10/30/2024	21.5	19.7	0.10	750	7639	1403	5.240	52.600	52.400	-0.38%				
AM6	2450	HEAD	11/07/2024	21.1	20.6	0.10	750	7639	1403	5.270	52.600	52.700	0.19%				
AM16	2600	HEAD	10/26/2024	22.1	22.7	0.10	1042	7552	1676	5.410	55.800	54.100	-3.05%				
AM16	2600	HEAD	11/14/2024	20.0	22.7	0.10	1042	7552	1676	5.590	55.800	55.900	0.18%				
AM6	2600	HEAD	11/23/2024	21.6	20.5	0.10	1042	7639	1403	5.720	55.800	57.200	2.51%				
AM4	3500	HEAD	11/15/2024	23.0	21.0	0.10	1126	7357	1582	6.680	66.200	66.800	0.91%				
AM3	3700	HEAD	10/26/2024	21.5	20.6	0.10	1097	7668	1681	6.830	67.900	68.300	0.59%				
AM3	3700	HEAD	10/31/2024	23.3	20.0	0.10	1097	7668	1681	7.220	67.900	72.200	6.33%				
AM3	3900	HEAD	10/26/2024	21.5	20.6	0.10	1062	7668	1681	7.210	68.900	72.100	4.64%				
AM9	5250	HEAD	10/23/2024	21.5	19.8	0.05	1163	7782	1646	3.760	79.600	75.200	-5.53%				
AM9	5600	HEAD	10/23/2024	21.5	19.8	0.05	1163	7782	1646	3.970	82.800	79.400	-4.11%				
AM9	5750	HEAD	10/23/2024	21.5	19.8	0.05	1163	7782	1646	3.970	81.100	79.400	-2.10%				
AM8	5850	HEAD	11/04/2024	22.3	20.0	0.05	1163	7427	467	3.930	79.000	78.600	-0.51%				
AM2	6500	HEAD	10/27/2024	22.1	20.7	0.03	1019	3949	1684	7.720	300.000	308.800	2.93%	34.7	1340	1388	3.58%

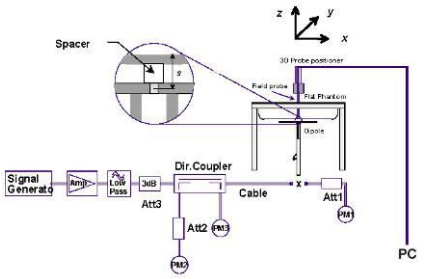

Figure 10-1
System Verification Setup Diagram

Figure 10-2
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.

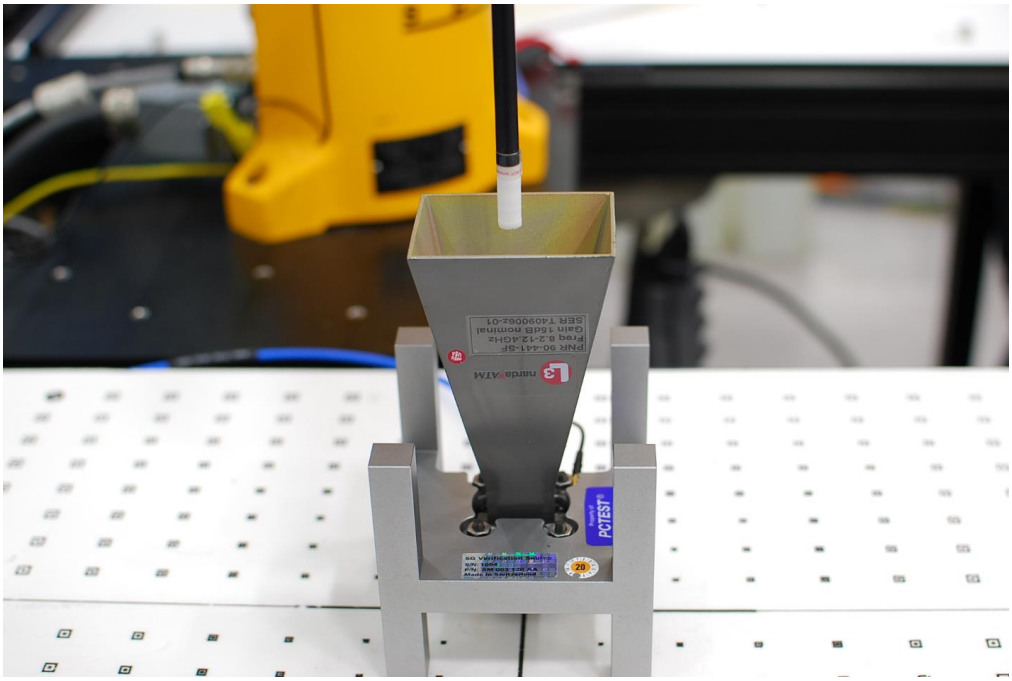

Figure 10-3
System Verification Setup Photo

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	10/25/2024	1004	9487	93.3	56.60	56.70	-0.01	56.80	56.90	-0.01

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 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 850	RMC	3b	2N1FD	1:1	0.00	836.60	4183	17.10	16.31	Back	0	0.657	0.329	1.199	0.788	0.394	0.493		17.4	16.6
Body	UMTS 850	RMC	3b	2N1FD	1:1	0.00	826.40	4132	17.10	16.29	Top	0	0.791	0.337	1.205	0.953	0.406	0.596		16.6	
Body	UMTS 850	RMC	3b	2N1FD	1:1	0.05	836.60	4183	17.10	16.31	Top	0	0.791	0.337	1.199	0.948	0.404	0.593		16.6	
Body	UMTS 850	RMC	3b	2N1FD	1:1	0.02	846.60	4233	17.10	16.26	Top	0	0.795	0.346	1.213	0.964	0.420	0.603	A1	16.6	
Body	UMTS 850	RMC	3b	2N1FD	1:1	0.04	836.60	4183	17.10	16.31	Bottom	0	0.006	0.003	1.199	0.007	0.004	0.004		37.8	
Body	UMTS 850	RMC	3b	2N1FD	1:1	0.06	836.60	4183	17.10	16.31	Right	0	0.092	0.045	1.199	0.110	0.054	0.069		26.0	
Body	UMTS 850	RMC	3b	2N1FD	1:1	-0.03	836.60	4183	17.10	16.31	Left	0	0.019	0.008	1.199	0.023	0.010	0.014		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										

Table 10-2 Antenna 4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 850	RMC	4	20JV6	1:1	0.01	846.60	4233	18.70	18.21	Back	0	0.637	0.298	1.119	0.713	0.333	0.446		19.5	19.2
Body	UMTS 850	RMC	4	20JV6	1:1	0.01	846.60	4233	18.70	18.21	Top	0	0.559	0.238	1.119	0.626	0.266	0.391		20.0	
Body	UMTS 850	RMC	4	20JV6	1:1	0.09	846.60	4233	18.70	18.21	Bottom	0	0.023	0.012	1.119	0.026	0.013	0.016		33.9	
Body	UMTS 850	RMC	4	20JV6	1:1	-0.08	846.60	4233	18.70	18.21	Right	0	0.028	0.013	1.119	0.031	0.015	0.019		33.0	
Body	UMTS 850	RMC	4	20JV6	1:1	-0.01	846.60	4233	18.70	18.21	Left	0	0.672	0.265	1.119	0.752	0.297	0.470		19.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.2 UMTS 1750 Standalone SAR

Table 10-3 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	1b	G20V7	1:1	0.05	1712.40	1312	12.30	12.14	Back	0	0.770	0.307	1.038	0.799	0.319	0.499		12.3	11.7
Body	UMTS 1750	RMC	1b	G20V7	1:1	0.00	1732.40	1412	12.30	12.16	Back	0	0.795	0.316	1.033	0.821	0.326	0.513		12.1	
Body	UMTS 1750	RMC	1b	G20V7	1:1	-0.03	1752.60	1513	12.30	12.19	Back	0	0.891	0.348	1.026	0.914	0.357	0.571	A2	11.7	
Body	UMTS 1750	RMC	1b	G20V7	1:1	0.02	1752.60	1513	12.30	12.19	Top	0	0.001	0.000	1.026	0.001	0.000	0.001		41.2	
Body	UMTS 1750	RMC	1b	G20V7	1:1	-0.06	1752.60	1513	12.30	12.19	Bottom	0	0.618	0.231	1.026	0.634	0.237	0.396		13.3	
Body	UMTS 1750	RMC	1b	G20V7	1:1	-0.10	1752.60	1513	12.30	12.19	Right	0	0.005	0.002	1.026	0.005	0.002	0.003		34.2	
Body	UMTS 1750	RMC	1b	G20V7	1:1	0.02	1752.60	1513	12.30	12.19	Left	0	0.051	0.020	1.026	0.052	0.021	0.033		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										

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	2b	4CWM9	1:1	0.01	1712.40	1312	13.50	12.30	Back	0	0.477	0.183	1.318	0.629	0.241	0.393		14.5	13.3
Body	UMTS 1750	RMC	2b	4CWM9	1:1	0.03	1712.40	1312	13.50	12.30	Top	0	0.004	0.001	1.318	0.005	0.001	0.003		35.3	
Body	UMTS 1750	RMC	2b	4CWM9	1:1	0.02	1712.40	1312	13.50	12.30	Bottom	0	0.618	0.237	1.318	0.815	0.312	0.509		13.4	
Body	UMTS 1750	RMC	2b	4CWM9	1:1	-0.01	1732.40	1412	13.50	12.23	Bottom	0	0.622	0.237	1.340	0.833	0.318	0.521		13.3	
Body	UMTS 1750	RMC	2b	4CWM9	1:1	-0.01	1752.60	1513	13.50	12.29	Bottom	0	0.618	0.231	1.321	0.816	0.305	0.510		13.4	
Body	UMTS 1750	RMC	2b	4CWM9	1:1	0.07	1712.40	1312	13.50	12.30	Right	0	0.052	0.024	1.318	0.069	0.032	0.043		24.1	
Body	UMTS 1750	RMC	2b	4CWM9	1:1	0.05	1712.40	1312	13.50	12.30	Left	0	0.002	0.000	1.318	0.003	0.000	0.002		38.3	
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 10-5 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	3a	CVDXJ	1:1	0.04	1712.40	1312	13.80	12.13	Back	0	0.317	0.142	1.469	0.466	0.209	0.291		16.1	13.1
Body	UMTS 1750	RMC	3a	CVDXJ	1:1	0.00	1712.40	1312	13.80	12.13	Top	0	0.225	0.071	1.469	0.331	0.104	0.207		17.6	
Body	UMTS 1750	RMC	3a	CVDXJ	1:1	0.04	1712.40	1312	13.80	12.13	Bottom	0	0.008	0.003	1.469	0.012	0.004	0.008		32.1	
Body	UMTS 1750	RMC	3a	CVDXJ	1:1	0.00	1712.40	1312	13.80	12.13	Right	0	0.638	0.256	1.469	0.937	0.376	0.586		13.1	
Body	UMTS 1750	RMC	3a	CVDXJ	1:1	0.00	1732.40	1412	13.80	12.10	Right	0	0.633	0.253	1.479	0.936	0.374	0.585		13.1	
Body	UMTS 1750	RMC	3a	CVDXJ	1:1	0.01	1752.60	1513	13.80	12.05	Right	0	0.562	0.227	1.496	0.841	0.340	0.526		13.5	
Body	UMTS 1750	RMC	3a	CVDXJ	1:1	0.08	1712.40	1312	13.80	12.13	Left	0	0.000	0.000	1.469	0.000	0.000	0.000		51.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 10-6 Antenna 4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	4	11Q0X	1:1	0.01	1712.40	1312	15.20	14.48	Back	0	0.743	0.304	1.180	0.877	0.359	0.548		14.8	14.7
Body	UMTS 1750	RMC	4	11Q0X	1:1	0.01	1732.40	1412	15.20	14.52	Back	0	0.742	0.303	1.169	0.867	0.354	0.542		14.8	
Body	UMTS 1750	RMC	4	11Q0X	1:1	0.03	1752.60	1513	15.20	14.66	Back	0	0.785	0.319	1.132	0.889	0.361	0.556		14.7	
Body	UMTS 1750	RMC	4	11Q0X	1:1	-0.01	1752.60	1513	15.20	14.66	Top	0	0.691	0.301	1.132	0.782	0.341	0.489		15.2	
Body	UMTS 1750	RMC	4	11Q0X	1:1	0.06	1752.60	1513	15.20	14.66	Bottom	0	0.000	0.000	1.132	0.000	0.000	0.000		53.6	
Body	UMTS 1750	RMC	4	11Q0X	1:1	0.16	1752.60	1513	15.20	14.66	Right	0	0.034	0.015	1.132	0.038	0.017	0.024		28.3	
Body	UMTS 1750	RMC	4	11Q0X	1:1	-0.02	1752.60	1513	15.20	14.66	Left	0	0.666	0.223	1.132	0.754	0.252	0.471		15.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.3 UMTS 1900 Standalone SAR

Table 10-7 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	1b	3XGHJ	1:1	0.02	1852.40	9262	12.80	11.88	Back	0	0.783	0.306	1.236	0.968	0.378	0.605		11.9	11.9
Body	UMTS 1900	RMC	1b	3XGHJ	1:1	0.06	1880.00	9400	12.80	11.85	Back	0	0.765	0.298	1.245	0.952	0.371	0.595		12.0	
Body	UMTS 1900	RMC	1b	3XGHJ	1:1	0.00	1907.60	9538	12.80	11.87	Back	0	0.758	0.295	1.239	0.939	0.366	0.587		12.1	
Body	UMTS 1900	RMC	1b	3XGHJ	1:1	0.01	1852.40	9262	12.80	11.88	Top	0	0.006	0.003	1.236	0.007	0.004	0.004		33.1	
Body	UMTS 1900	RMC	1b	3XGHJ	1:1	-0.02	1852.40	9262	12.80	11.88	Bottom	0	0.526	0.193	1.236	0.650	0.239	0.406		13.7	
Body	UMTS 1900	RMC	1b	3XGHJ	1:1	0.08	1852.40	9262	12.80	11.88	Right	0	0.006	0.005	1.236	0.007	0.006	0.004		33.1	
Body	UMTS 1900	RMC	1b	3XGHJ	1:1	-0.04	1852.40	9262	12.80	11.88	Left	0	0.048	0.020	1.236	0.059	0.025	0.037		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										

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	2b	G4PWH	1:1	0.02	1852.40	9262	13.90	13.37	Back	0	0.491	0.194	1.130	0.555	0.219	0.347		15.4	13.2
Body	UMTS 1900	RMC	2b	G4PWH	1:1	0.09	1852.40	9262	13.90	13.37	Top	0	0.001	0.000	1.130	0.001	0.000	0.001		42.4	
Body	UMTS 1900	RMC	2b	G4PWH	1:1	-0.01	1852.40	9262	13.90	13.37	Bottom	0	0.731	0.282	1.130	0.826	0.319	0.516		13.7	
Body	UMTS 1900	RMC	2b	G4PWH	1:1	-0.03	1880.00	9400	13.90	13.30	Bottom	0	0.724	0.277	1.148	0.831	0.318	0.519		13.7	
Body	UMTS 1900	RMC	2b	G4PWH	1:1	-0.05	1907.60	9538	13.90	13.15	Bottom	0	0.790	0.294	1.189	0.939	0.350	0.587	A3	13.2	
Body	UMTS 1900	RMC	2b	G4PWH	1:1	0.01	1852.40	9262	13.90	13.37	Right	0	0.075	0.032	1.130	0.085	0.036	0.053		23.6	
Body	UMTS 1900	RMC	2b	G4PWH	1:1	0.07	1852.40	9262	13.90	13.37	Left	0	0.010	0.004	1.130	0.011	0.005	0.007		32.4	
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 10-9 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	3a	H2VMQ	1:1	0.01	1852.40	9262	14.80	13.93	Back	0	0.394	0.175	1.222	0.481	0.214	0.301		17.0	13.9
Body	UMTS 1900	RMC	3a	H2VMQ	1:1	0.00	1852.40	9262	14.80	13.93	Top	0	0.307	0.095	1.222	0.375	0.116	0.234		18.0	
Body	UMTS 1900	RMC	3a	H2VMQ	1:1	0.08	1852.40	9262	14.80	13.93	Bottom	0	0.012	0.006	1.222	0.015	0.007	0.009		32.1	
Body	UMTS 1900	RMC	3a	H2VMQ	1:1	0.00	1852.40	9262	14.80	13.93	Right	0	0.773	0.291	1.222	0.945	0.356	0.591		14.0	
Body	UMTS 1900	RMC	3a	H2VMQ	1:1	-0.18	1880.00	9400	14.80	13.83	Right	0	0.754	0.278	1.250	0.943	0.348	0.589		14.0	
Body	UMTS 1900	RMC	3a	H2VMQ	1:1	-0.17	1907.60	9538	14.80	13.80	Right	0	0.775	0.283	1.259	0.976	0.356	0.610		13.9	
Body	UMTS 1900	RMC	3a	H2VMQ	1:1	0.05	1852.40	9262	14.80	13.93	Left	0	0.012	0.004	1.222	0.015	0.005	0.009		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										

Table 10-10 Antenna 4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	4	11Q0X	1:1	-0.02	1852.40	9262	14.80	13.32	Back	0	0.593	0.238	1.406	0.834	0.335	0.521		14.6	14.5
Body	UMTS 1900	RMC	4	11Q0X	1:1	0.00	1880.00	9400	14.80	13.30	Back	0	0.593	0.235	1.413	0.838	0.332	0.524		14.6	
Body	UMTS 1900	RMC	4	11Q0X	1:1	0.00	1907.60	9538	14.80	13.13	Back	0	0.571	0.224	1.469	0.839	0.329	0.524		14.5	
Body	UMTS 1900	RMC	4	11Q0X	1:1	-0.01	1852.40	9262	14.80	13.32	Top	0	0.450	0.186	1.406	0.633	0.262	0.396		15.8	
Body	UMTS 1900	RMC	4	11Q0X	1:1	0.01	1852.40	9262	14.80	13.32	Bottom	0	0.000	0.000	1.406	0.000	0.000	0.000		52.3	
Body	UMTS 1900	RMC	4	11Q0X	1:1	0.07	1852.40	9262	14.80	13.32	Right	0	0.015	0.006	1.406	0.021	0.008	0.013		30.5	
Body	UMTS 1900	RMC	4	11Q0X	1:1	-0.01	1852.40	9262	14.80	13.32	Left	0	0.278	0.088	1.406	0.391	0.124	0.244		17.9	
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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10.4 LTE Band 71 Standalone SAR

Table 10-11 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 71	20	QPSK	3b	HH9X5	1:1	0.01	680.50	133297	0.0	18.70	17.88	1	50	Back	0	0.740	0.361	1.208	0.894	0.436	0.559		18.5	18.2
Body	LTE Band 71	20	QPSK	3b	HH9X5	1:1	-0.01	680.50	133297	0.0	18.70	17.91	50	25	Back	0	0.747	0.364	1.199	0.896	0.436	0.560		18.5	
Body	LTE Band 71	20	QPSK	3b	HH9X5	1:1	-0.02	680.50	133297	0.0	18.70	17.87	100	0	Back	0	0.745	0.356	1.211	0.902	0.431	0.564		18.4	
Body	LTE Band 71	20	QPSK	3b	HH9X5	1:1	0.04	680.50	133297	0.0	18.70	17.88	1	50	Top	0	0.768	0.325	1.208	0.928	0.393	0.580		18.3	
Body	LTE Band 71	20	QPSK	3b	HH9X5	1:1	0.00	680.50	133297	0.0	18.70	17.91	50	25	Top	0	0.785	0.329	1.199	0.941	0.394	0.588		18.3	
Body	LTE Band 71	20	QPSK	3b	HH9X5	1:1	0.01	680.50	133297	0.0	18.70	17.87	100	0	Top	0	0.792	0.334	1.211	0.959	0.404	0.599		18.2	
Body	LTE Band 71	20	QPSK	3b	HH9X5	1:1	0.04	680.50	133297	0.0	18.70	17.88	1	50	Bottom	0	0.007	0.002	1.208	0.008	0.002	0.005		38.7	
Body	LTE Band 71	20	QPSK	3b	HH9X5	1:1	0.05	680.50	133297	0.0	18.70	17.91	50	25	Bottom	0	0.009	0.003	1.199	0.011	0.004	0.007		37.7	
Body	LTE Band 71	20	QPSK	3b	HH9X5	1:1	-0.05	680.50	133297	0.0	18.70	17.88	1	50	Right	0	0.144	0.064	1.208	0.174	0.077	0.109		25.6	
Body	LTE Band 71	20	QPSK	3b	HH9X5	1:1	-0.03	680.50	133297	0.0	18.70	17.91	50	25	Right	0	0.151	0.067	1.199	0.181	0.080	0.113		25.4	
Body	LTE Band 71	20	QPSK	3b	HH9X5	1:1	0.08	680.50	133297	0.0	18.70	17.88	1	50	Left	0	0.031	0.012	1.208	0.037	0.014	0.023		32.3	
Body	LTE Band 71	20	QPSK	3b	HH9X5	1:1	0.02	680.50	133297	0.0	18.70	17.91	50	25	Left	0	0.028	0.011	1.199	0.034	0.013	0.021		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											

Table 10-12 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 71	20	QPSK	4	HH9X5	1:1	0.09	680.50	133297	0.0	21.30	20.84	1	0	Back	0	0.866	0.395	1.112	0.963	0.439	0.602	A4	20.4	20.4
Body	LTE Band 71	20	QPSK	4	HH9X5	1:1	-0.02	680.50	133297	0.0	21.30	20.94	50	25	Back	0	0.817	0.377	1.086	0.887	0.409	0.554		20.8	
Body	LTE Band 71	20	QPSK	4	HH9X5	1:1	0.04	680.50	133297	0.0	21.30	20.80	100	0	Back	0	0.752	0.347	1.122	0.844	0.389	0.528		21.0	
Body	LTE Band 71	20	QPSK	4	HH9X5	1:1	0.05	680.50	133297	0.0	21.30	20.84	1	0	Top	0	0.661	0.288	1.112	0.735	0.320	0.459		21.6	
Body	LTE Band 71	20	QPSK	4	HH9X5	1:1	0.03	680.50	133297	0.0	21.30	20.94	50	25	Top	0	0.684	0.296	1.086	0.743	0.321	0.464		21.6	
Body	LTE Band 71	20	QPSK	4	HH9X5	1:1	0.04	680.50	133297	0.0	21.30	20.84	1	0	Bottom	0	0.021	0.008	1.112	0.023	0.009	0.014		36.6	
Body	LTE Band 71	20	QPSK	4	HH9X5	1:1	0.03	680.50	133297	0.0	21.30	20.94	50	25	Bottom	0	0.021	0.009	1.086	0.023	0.010	0.014		36.7	
Body	LTE Band 71	20	QPSK	4	HH9X5	1:1	0.02	680.50	133297	0.0	21.30	20.84	1	0	Right	0	0.084	0.036	1.112	0.093	0.040	0.058		30.6	
Body	LTE Band 71	20	QPSK	4	HH9X5	1:1	0.04	680.50	133297	0.0	21.30	20.94	50	25	Right	0	0.078	0.033	1.086	0.085	0.036	0.053		31.0	
Body	LTE Band 71	20	QPSK	4	HH9X5	1:1	0.05	680.50	133297	0.0	21.30	20.84	1	0	Left	0	0.865	0.295	1.112	0.962	0.328	0.601		20.5	
Body	LTE Band 71	20	QPSK	4	HH9X5	1:1	0.02	680.50	133297	0.0	21.30	20.94	50	25	Left	0	0.767	0.278	1.086	0.833	0.302	0.521		21.1	
Body	LTE Band 71	20	QPSK	4	HH9X5	1:1	-0.03	680.50	133297	0.0	21.30	20.80	100	0	Left	0	0.768	0.278	1.122	0.862	0.312	0.539		20.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram											

10.5 LTE Band 12 Standalone SAR

Table 10-13 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 12	10	QPSK	3b	QQGXD	1:1	-0.03	707.50	23095	0.0	17.80	17.42	1	49	Back	0	0.804	0.390	1.091	0.877	0.425	0.548		17.7	17.5
Body	LTE Band 12	10	QPSK	3b	QQGXD	1:1	0.00	707.50	23095	0.0	17.80	17.38	25	12	Back	0	0.824	0.397	1.102	0.908	0.437	0.568		17.5	
Body	LTE Band 12	10	QPSK	3b	QQGXD	1:1	0.00	707.50	23095	0.0	17.80	17.35	50	0	Back	0	0.821	0.395	1.109	0.910	0.438	0.569		17.5	
Body	LTE Band 12	10	QPSK	3b	QQGXD	1:1	0.01	707.50	23095	0.0	17.80	17.42	1	49	Top	0	0.794	0.340	1.091	0.866	0.371	0.541		17.7	
Body	LTE Band 12	10	QPSK	3b	QQGXD	1:1	0.05	707.50	23095	0.0	17.80	17.38	25	12	Top	0	0.789	0.340	1.102	0.869	0.375	0.543		17.7	
Body	LTE Band 12	10	QPSK	3b	QQGXD	1:1	0.02	707.50	23095	0.0	17.80	17.35	50	0	Top	0	0.806	0.340	1.109	0.894	0.377	0.559		17.6	
Body	LTE Band 12	10	QPSK	3b	QQGXD	1:1	0.01	707.50	23095	0.0	17.80	17.42	1	49	Bottom	0	0.007	0.003	1.091	0.008	0.003	0.005		38.3	
Body	LTE Band 12	10	QPSK	3b	QQGXD	1:1	0.01	707.50	23095	0.0	17.80	17.38	25	12	Bottom	0	0.009	0.004	1.102	0.010	0.004	0.006		37.1	
Body	LTE Band 12	10	QPSK	3b	QQGXD	1:1	0.06	707.50	23095	0.0	17.80	17.42	1	49	Right	0	0.117	0.054	1.091	0.128	0.059	0.080		26.0	
Body	LTE Band 12	10	QPSK	3b	QQGXD	1:1	0.07	707.50	23095	0.0	17.80	17.38	25	12	Right	0	0.112	0.052	1.102	0.123	0.057	0.077		26.2	
Body	LTE Band 12	10	QPSK	3b	QQGXD	1:1	-0.02	707.50	23095	0.0	17.80	17.42	1	49	Left	0	0.035	0.010	1.091	0.038	0.011	0.024		31.3	
Body	LTE Band 12	10	QPSK	3b	QQGXD	1:1	0.06	707.50	23095	0.0	17.80	17.38	25	12	Left	0	0.032	0.010	1.102	0.035	0.011	0.022		31.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-14 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 12	10	QPSK	4	HH9X5	1:1	0.02	707.50	23095	0.0	19.40	19.07	1	0	Back	0	0.899	0.403	1.079	0.970	0.435	0.606	A5	18.8	18.8
Body	LTE Band 12	10	QPSK	4	HH9X5	1:1	0.00	707.50	23095	0.0	19.40	19.10	25	12	Back	0	0.840	0.376	1.072	0.900	0.403	0.563		19.2	
Body	LTE Band 12	10	QPSK	4	HH9X5	1:1	0.01	707.50	23095	0.0	19.40	19.05	50	0	Back	0	0.856	0.390	1.084	0.928	0.423	0.580		19.0	
Body	LTE Band 12	10	QPSK	4	HH9X5	1:1	-0.20	707.50	23095	0.0	19.40	19.07	1	0	Top	0	0.571	0.233	1.079	0.616	0.251	0.385		20.8	
Body	LTE Band 12	10	QPSK	4	HH9X5	1:1	0.00	707.50	23095	0.0	19.40	19.10	25	12	Top	0	0.568	0.230	1.072	0.609	0.247	0.381		20.9	
Body	LTE Band 12	10	QPSK	4	HH9X5	1:1	0.15	707.50	23095	0.0	19.40	19.07	1	0	Bottom	0	0.020	0.008	1.079	0.022	0.009	0.014		35.4	
Body	LTE Band 12	10	QPSK	4	HH9X5	1:1	-0.17	707.50	23095	0.0	19.40	19.10	25	12	Bottom	0	0.019	0.008	1.072	0.020	0.009	0.013		35.6	
Body	LTE Band 12	10	QPSK	4	HH9X5	1:1	0.04	707.50	23095	0.0	19.40	19.07	1	0	Right	0	0.034	0.014	1.079	0.037	0.015	0.023		33.1	
Body	LTE Band 12	10	QPSK	4	HH9X5	1:1	0.19	707.50	23095	0.0	19.40	19.10	25	12	Right	0	0.034	0.014	1.072	0.036	0.015	0.023		33.1	
Body	LTE Band 12	10	QPSK	4	HH9X5	1:1	-0.12	707.50	23095	0.0	19.40	19.07	1	0	Left	0	0.648	0.223	1.079	0.699	0.241	0.437		20.2	
Body	LTE Band 12	10	QPSK	4	HH9X5	1:1	0.01	707.50	23095	0.0	19.40	19.10	25	12	Left	0	0.634	0.224	1.072	0.680	0.240	0.425		20.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram											

10.6 LTE Band 13 Standalone SAR

Table 10-15 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 13	10	QPSK	3b	QQGXD	1:1	0.12	782.00	23230	0.0	17.20	16.84	1	0	Back	0	0.750	0.361	1.086	0.815	0.392	0.509		17.4	16.8
Body	LTE Band 13	10	QPSK	3b	QQGXD	1:1	0.07	782.00	23230	0.0	17.20	16.79	25	12	Back	0	0.753	0.363	1.099	0.828	0.399	0.518		17.3	
Body	LTE Band 13	10	QPSK	3b	QQGXD	1:1	-0.18	782.00	23230	0.0	17.20	16.72	50	0	Back	0	0.741	0.361	1.117	0.828	0.403	0.518		17.3	
Body	LTE Band 13	10	QPSK	3b	QQGXD	1:1	0.00	782.00	23230	0.0	17.20	16.84	1	0	Top	0	0.756	0.329	1.086	0.821	0.357	0.513		17.3	
Body	LTE Band 13	10	QPSK	3b	QQGXD	1:1	0.03	782.00	23230	0.0	17.20	16.79	25	12	Top	0	0.808	0.349	1.099	0.888	0.384	0.555		17.0	
Body	LTE Band 13	10	QPSK	3b	QQGXD	1:1	0.00	782.00	23230	0.0	17.20	16.72	50	0	Top	0	0.841	0.361	1.117	0.939	0.403	0.587	A6	16.8	
Body	LTE Band 13	10	QPSK	3b	QQGXD	1:1	-0.01	782.00	23230	0.0	17.20	16.84	1	0	Bottom	0	0.007	0.002	1.086	0.008	0.002	0.005		37.7	
Body	LTE Band 13	10	QPSK	3b	QQGXD	1:1	0.04	782.00	23230	0.0	17.20	16.79	25	12	Bottom	0	0.007	0.003	1.099	0.008	0.003	0.005		37.6	
Body	LTE Band 13	10	QPSK	3b	QQGXD	1:1	-0.01	782.00	23230	0.0	17.20	16.84	1	0	Right	0	0.095	0.045	1.086	0.103	0.049	0.064		26.4	
Body	LTE Band 13	10	QPSK	3b	QQGXD	1:1	0.01	782.00	23230	0.0	17.20	16.79	25	12	Right	0	0.103	0.049	1.099	0.113	0.054	0.071		26.0	
Body	LTE Band 13	10	QPSK	3b	QQGXD	1:1	0.13	782.00	23230	0.0	17.20	16.84	1	0	Left	0	0.013	0.006	1.086	0.014	0.007	0.009		35.0	
Body	LTE Band 13	10	QPSK	3b	QQGXD	1:1	0.06	782.00	23230	0.0	17.20	16.79	25	12	Left	0	0.014	0.006	1.099	0.015	0.007	0.009		34.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 10-16 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 13	10	QPSK	4	9QLN2	1:1	0.01	782.00	23230	0.0	19.20	17.99	1	25	Back	0	0.618	0.288	1.321	0.816	0.380	0.510		19.1	18.4
Body	LTE Band 13	10	QPSK	4	9QLN2	1:1	-0.01	782.00	23230	0.0	19.20	18.07	25	12	Back	0	0.619	0.288	1.297	0.803	0.374	0.502		19.1	
Body	LTE Band 13	10	QPSK	4	9QLN2	1:1	0.01	782.00	23230	0.0	19.20	17.98	50	0	Back	0	0.600	0.276	1.324	0.794	0.365	0.496		19.2	
Body	LTE Band 13	10	QPSK	4	9QLN2	1:1	0.05	782.00	23230	0.0	19.20	17.99	1	25	Top	0	0.646	0.260	1.321	0.853	0.343	0.533		18.9	
Body	LTE Band 13	10	QPSK	4	9QLN2	1:1	-0.01	782.00	23230	0.0	19.20	18.07	25	12	Top	0	0.669	0.268	1.297	0.868	0.348	0.543		18.8	
Body	LTE Band 13	10	QPSK	4	9QLN2	1:1	-0.02	782.00	23230	0.0	19.20	17.98	50	0	Top	0	0.641	0.260	1.324	0.849	0.344	0.531		18.9	
Body	LTE Band 13	10	QPSK	4	9QLN2	1:1	0.07	782.00	23230	0.0	19.20	17.99	1	25	Bottom	0	0.014	0.007	1.321	0.018	0.009	0.011		35.5	
Body	LTE Band 13	10	QPSK	4	9QLN2	1:1	0.02	782.00	23230	0.0	19.20	18.07	25	12	Bottom	0	0.016	0.008	1.297	0.021	0.010	0.013		35.0	
Body	LTE Band 13	10	QPSK	4	9QLN2	1:1	0.02	782.00	23230	0.0	19.20	17.99	1	25	Right	0	0.032	0.014	1.321	0.042	0.018	0.026		31.9	
Body	LTE Band 13	10	QPSK	4	9QLN2	1:1	0.04	782.00	23230	0.0	19.20	18.07	25	12	Right	0	0.033	0.014	1.297	0.043	0.018	0.027		31.9	
Body	LTE Band 13	10	QPSK	4	9QLN2	1:1	-0.08	782.00	23230	0.0	19.20	17.99	1	25	Left	0	0.714	0.240	1.321	0.943	0.317	0.589		18.4	
Body	LTE Band 13	10	QPSK	4	9QLN2	1:1	0.00	782.00	23230	0.0	19.20	18.07	25	12	Left	0	0.732	0.246	1.297	0.949	0.319	0.593		18.4	
Body	LTE Band 13	10	QPSK	4	9QLN2	1:1	0.00	782.00	23230	0.0	19.20	17.98	50	0	Left	0	0.726	0.244	1.324	0.961	0.323	0.601		18.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram											

10.7 LTE Band 14 Standalone SAR

Table 10-17 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 14	10	QPSK	3b	QQGXD	1:1	0.07	793.00	23330	0.0	17.20	16.63	1	49	Back	0	0.698	0.337	1.140	0.796	0.384	0.498		17.5	16.7
Body	LTE Band 14	10	QPSK	3b	QQGXD	1:1	-0.02	793.00	23330	0.0	17.20	16.71	25	25	Back	0	0.689	0.333	1.119	0.771	0.373	0.482		17.6	
Body	LTE Band 14	10	QPSK	3b	QQGXD	1:1	-0.01	793.00	23330	0.0	17.20	16.63	1	49	Top	0	0.772	0.332	1.140	0.880	0.378	0.550		17.0	
Body	LTE Band 14	10	QPSK	3b	QQGXD	1:1	-0.01	793.00	23330	0.0	17.20	16.71	25	25	Top	0	0.785	0.336	1.119	0.878	0.376	0.549		17.1	
Body	LTE Band 14	10	QPSK	3b	QQGXD	1:1	0.07	793.00	23330	0.0	17.20	16.62	50	0	Top	0	0.840	0.354	1.143	0.960	0.405	0.600	A7	16.7	
Body	LTE Band 14	10	QPSK	3b	QQGXD	1:1	0.07	793.00	23330	0.0	17.20	16.63	1	49	Bottom	0	0.006	0.002	1.140	0.007	0.002	0.004		38.1	
Body	LTE Band 14	10	QPSK	3b	QQGXD	1:1	0.07	793.00	23330	0.0	17.20	16.71	25	25	Bottom	0	0.006	0.002	1.119	0.007	0.002	0.004		38.2	
Body	LTE Band 14	10	QPSK	3b	QQGXD	1:1	-0.21	793.00	23330	0.0	17.20	16.63	1	49	Right	0	0.095	0.045	1.140	0.108	0.051	0.068		26.1	
Body	LTE Band 14	10	QPSK	3b	QQGXD	1:1	-0.11	793.00	23330	0.0	17.20	16.71	25	25	Right	0	0.089	0.042	1.119	0.100	0.047	0.063		26.5	
Body	LTE Band 14	10	QPSK	3b	QQGXD	1:1	0.03	793.00	23330	0.0	17.20	16.63	1	49	Left	0	0.016	0.007	1.140	0.018	0.008	0.011		33.9	
Body	LTE Band 14	10	QPSK	3b	QQGXD	1:1	0.09	793.00	23330	0.0	17.20	16.71	25	25	Left	0	0.015	0.007	1.119	0.017	0.008	0.011		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 10-18 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 14	10	QPSK	4	9QLN2	1:1	0.01	793.00	23330	0.0	19.20	17.79	1	49	Back	0	0.498	0.234	1.384	0.689	0.324	0.431		19.8	18.5
Body	LTE Band 14	10	QPSK	4	9QLN2	1:1	0.01	793.00	23330	0.0	19.20	17.81	25	12	Back	0	0.538	0.252	1.377	0.741	0.347	0.463		19.5	
Body	LTE Band 14	10	QPSK	4	9QLN2	1:1	-0.08	793.00	23330	0.0	19.20	17.79	1	49	Top	0	0.572	0.224	1.384	0.792	0.310	0.495		19.2	
Body	LTE Band 14	10	QPSK	4	9QLN2	1:1	-0.03	793.00	23330	0.0	19.20	17.81	25	12	Top	0	0.602	0.238	1.377	0.829	0.328	0.518		19.0	
Body	LTE Band 14	10	QPSK	4	9QLN2	1:1	0.00	793.00	23330	0.0	19.20	17.68	50	0	Top	0	0.620	0.243	1.419	0.880	0.345	0.550		18.7	
Body	LTE Band 14	10	QPSK	4	9QLN2	1:1	0.17	793.00	23330	0.0	19.20	17.79	1	49	Bottom	0	0.010	0.005	1.384	0.014	0.007	0.009		36.8	
Body	LTE Band 14	10	QPSK	4	9QLN2	1:1	0.06	793.00	23330	0.0	19.20	17.81	25	12	Bottom	0	0.008	0.004	1.377	0.011	0.006	0.007		37.8	
Body	LTE Band 14	10	QPSK	4	9QLN2	1:1	0.05	793.00	23330	0.0	19.20	17.79	1	49	Right	0	0.024	0.011	1.384	0.033	0.015	0.021		33.0	
Body	LTE Band 14	10	QPSK	4	9QLN2	1:1	0.07	793.00	23330	0.0	19.20	17.81	25	12	Right	0	0.024	0.011	1.377	0.033	0.015	0.021		33.0	
Body	LTE Band 14	10	QPSK	4	9QLN2	1:1	-0.07	793.00	23330	0.0	19.20	17.79	1	49	Left	0	0.635	0.222	1.384	0.879	0.307	0.549		18.7	
Body	LTE Band 14	10	QPSK	4	9QLN2	1:1	-0.03	793.00	23330	0.0	19.20	17.81	25	12	Left	0	0.651	0.226	1.377	0.896	0.311	0.560		18.7	
Body	LTE Band 14	10	QPSK	4	9QLN2	1:1	0.00	793.00	23330	0.0	19.20	17.68	50	0	Left	0	0.654	0.226	1.419	0.928	0.321	0.580		18.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram											

10.8 LTE Band 26 (Cell) Standalone SAR

Table 10-19 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	0.13	819.00	26740	0.0	17.10	16.21	1	0	Back	0	0.674	0.338	1.227	0.827	0.415	0.517		17.2	16.4
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	0.03	831.50	26865	0.0	17.10	16.19	1	0	Back	0	0.702	0.350	1.233	0.866	0.432	0.541		17.0	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	-0.08	844.00	26990	0.0	17.10	16.36	1	0	Back	0	0.708	0.349	1.186	0.840	0.414	0.525		17.2	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	-0.01	819.00	26740	0.0	17.10	16.26	25	12	Back	0	0.684	0.341	1.213	0.830	0.414	0.519		17.2	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	0.00	831.50	26865	0.0	17.10	16.22	25	12	Back	0	0.695	0.346	1.225	0.851	0.424	0.532		17.1	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	-0.04	844.00	26990	0.0	17.10	16.27	25	12	Back	0	0.697	0.344	1.211	0.844	0.417	0.528		17.1	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	-0.04	844.00	26990	0.0	17.10	16.18	50	0	Back	0	0.685	0.338	1.236	0.847	0.418	0.529		17.1	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	-0.01	819.00	26740	0.0	17.10	16.21	1	0	Top	0	0.807	0.343	1.227	0.990	0.421	0.619		16.4	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	-0.03	831.50	26865	0.0	17.10	16.19	1	0	Top	0	0.803	0.339	1.233	0.990	0.418	0.619		16.4	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	-0.13	844.00	26990	0.0	17.10	16.36	1	0	Top	0	0.817	0.355	1.186	0.969	0.421	0.606		16.5	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	-0.01	819.00	26740	0.0	17.10	16.26	25	12	Top	0	0.798	0.341	1.213	0.968	0.414	0.605		16.5	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	-0.02	831.50	26865	0.0	17.10	16.22	25	12	Top	0	0.802	0.337	1.225	0.982	0.413	0.614		16.5	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	0.01	844.00	26990	0.0	17.10	16.27	25	12	Top	0	0.814	0.345	1.211	0.986	0.418	0.616		16.5	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	0.00	844.00	26990	0.0	17.10	16.18	50	0	Top	0	0.800	0.341	1.236	0.989	0.421	0.618		16.4	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	0.08	844.00	26990	0.0	17.10	16.36	1	0	Bottom	0	0.013	0.006	1.186	0.015	0.007	0.009		34.5	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	-0.02	844.00	26990	0.0	17.10	16.27	25	12	Bottom	0	0.013	0.007	1.211	0.016	0.008	0.010		34.4	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	-0.13	844.00	26990	0.0	17.10	16.36	1	0	Right	0	0.097	0.049	1.186	0.115	0.058	0.072		25.8	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	0.20	844.00	26990	0.0	17.10	16.27	25	12	Right	0	0.093	0.046	1.211	0.113	0.056	0.071		25.9	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	-0.04	844.00	26990	0.0	17.10	16.36	1	0	Left	0	0.025	0.011	1.186	0.030	0.013	0.019		31.7	
Body	LTE Band 26	10	QPSK	3b	2N1FD	1:1	0.11	844.00	26990	0.0	17.10	16.27	25	12	Left	0	0.022	0.010	1.211	0.027	0.012	0.017		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											

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Table 10-20 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	-0.02	819.00	26740	0.0	18.70	18.22	1	0	Back	0	0.866	0.430	1.117	0.967	0.480	0.604	A8	18.1	18.1
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	-0.10	819.00	26740	0.0	18.70	18.22	1	0	Back	0	0.850	0.392	1.117	0.949	0.438	0.593		18.2	
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	-0.01	831.50	26865	0.0	18.70	18.23	1	49	Back	0	0.770	0.382	1.114	0.858	0.426	0.536		18.7	
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	0.00	844.00	26990	0.0	18.70	18.21	1	0	Back	0	0.740	0.366	1.119	0.828	0.410	0.518		18.8	
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	0.01	819.00	26740	0.0	18.70	18.17	25	12	Back	0	0.829	0.410	1.130	0.937	0.463	0.586		18.3	
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	-0.01	831.50	26865	0.0	18.70	18.18	25	12	Back	0	0.753	0.378	1.127	0.849	0.426	0.531		18.7	
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	-0.01	844.00	26990	0.0	18.70	18.15	25	25	Back	0	0.673	0.332	1.135	0.764	0.377	0.478		19.2	
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	0.03	831.50	26865	0.0	18.70	18.15	50	0	Back	0	0.757	0.376	1.135	0.859	0.427	0.537		18.7	
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	-0.06	831.50	26865	0.0	18.70	18.23	1	49	Top	0	0.563	0.238	1.114	0.627	0.265	0.392		20.0	
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	-0.01	831.50	26865	0.0	18.70	18.18	25	12	Top	0	0.566	0.242	1.127	0.638	0.273	0.399		19.9	
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	-0.11	831.50	26865	0.0	18.70	18.23	1	49	Bottom	0	0.020	0.010	1.114	0.022	0.011	0.014		34.5	
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	0.01	831.50	26865	0.0	18.70	18.18	25	12	Bottom	0	0.021	0.011	1.127	0.024	0.012	0.015		34.3	
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	-0.12	831.50	26865	0.0	18.70	18.23	1	49	Right	0	0.022	0.010	1.114	0.025	0.011	0.016		34.1	
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	0.06	831.50	26865	0.0	18.70	18.18	25	12	Right	0	0.021	0.010	1.127	0.024	0.011	0.015		34.3	
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	-0.07	831.50	26865	0.0	18.70	18.23	1	49	Left	0	0.626	0.243	1.114	0.697	0.271	0.436		19.6	
Body	LTE Band 26	10	QPSK	4	M7K2F	1:1	-0.01	831.50	26865	0.0	18.70	18.18	25	12	Left	0	0.603	0.236	1.127	0.680	0.266	0.425		19.7	
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

10.9 LTE Band 5 (Cell) Standalone SAR

Table 10-21 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 5	10	QPSK	3b	2N1FD	1:1	0.00	836.50	20525	0.0	16.70	16.15	1	0	Back	0	N/A	0.664	0.332	1.135	0.754	0.377	0.471		17.2	16.7
Body	LTE Band 5	10	QPSK	3b	2N1FD	1:1	0.03	836.50	20525	0.0	16.70	16.20	25	12	Back	0	N/A	0.680	0.337	1.122	0.763	0.378	0.477		17.2	
Body	LTE Band 5	10	QPSK	3b	2N1FD	1:1	0.01	836.50	20525	0.0	16.70	16.15	1	0	Top	0	N/A	0.741	0.326	1.135	0.841	0.370	0.526		16.7	
Body	LTE Band 5	10	QPSK	3b	2N1FD	1:1	0.04	836.50	20525	0.0	16.70	16.20	25	12	Top	0	N/A	0.752	0.322	1.122	0.844	0.361	0.528	A9	16.7	
Body	LTE Band 5	10	QPSK	3b	2N1FD	1:1	-0.02	836.50	20525	0.0	16.70	16.14	25	0	Top	0	N/A	0.747	0.328	1.138	0.850	0.373	0.531		16.7	
Body	LTE Band 5	10	QPSK	3b	2N1FD	1:1	0.01	836.50	20525	0.0	16.70	16.14	50	0	Top	0	N/A	0.735	0.328	1.138	0.836	0.373	0.523		16.8	
Body	LTE Band 5	10	QPSK	3b	2N1FD	1:1	0.02	836.50	20525	0.0	16.70	16.15	1	0	Bottom	0	N/A	0.010	0.004	1.135	0.011	0.005	0.007		35.4	
Body	LTE Band 5	10	QPSK	3b	2N1FD	1:1	0.01	836.50	20525	0.0	16.70	16.20	25	12	Bottom	0	N/A	0.009	0.005	1.122	0.010	0.006	0.006		36.0	
Body	LTE Band 5	10	QPSK	3b	2N1FD	1:1	0.04	836.50	20525	0.0	16.70	16.15	1	0	Right	0	N/A	0.089	0.045	1.135	0.101	0.051	0.063		26.0	
Body	LTE Band 5	10	QPSK	3b	2N1FD	1:1	0.03	836.50	20525	0.0	16.70	16.20	25	12	Right	0	N/A	0.087	0.044	1.122	0.098	0.049	0.061		26.1	
Body	LTE Band 5	10	QPSK	3b	2N1FD	1:1	0.02	836.50	20525	0.0	16.70	16.15	1	0	Left	0	N/A	0.017	0.007	1.135	0.019	0.008	0.012		33.1	
Body	LTE Band 5	10	QPSK	3b	2N1FD	1:1	0.04	836.50	20525	0.0	16.70	16.20	25	12	Left	0	N/A	0.020	0.009	1.122	0.022	0.010	0.014		32.5	
Body	LTE Band 5	10	QPSK	3b	2N1FD	1:1	0.04	836.50	20525	0.0	16.70	15.95	25	0	Top	0	ULCA 5B	0.720	0.316	1.189	0.856	0.376	0.535		16.7	
		5						829.30	20453				12	13												
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 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 5	10	QPSK	4	4CWM9	1:1	0.00	836.50	20525	0.0	18.70	18.13	1	49	Back	0	N/A	0.718	0.338	1.140	0.819	0.385	0.512		18.9	18.7
Body	LTE Band 5	10	QPSK	4	4CWM9	1:1	-0.02	836.50	20525	0.0	18.70	18.17	25	12	Back	0	N/A	0.749	0.352	1.130	0.846	0.398	0.529		18.7	
Body	LTE Band 5	10	QPSK	4	4CWM9	1:1	0.02	836.50	20525	0.0	18.70	18.09	50	0	Back	0	N/A	0.741	0.349	1.151	0.853	0.402	0.533		18.7	
Body	LTE Band 5	10	QPSK	4	4CWM9	1:1	0.00	836.50	20525	0.0	18.70	18.13	1	49	Top	0	N/A	0.580	0.251	1.140	0.661	0.286	0.413		19.8	
Body	LTE Band 5	10	QPSK	4	4CWM9	1:1	-0.02	836.50	20525	0.0	18.70	18.17	25	12	Top	0	N/A	0.573	0.248	1.130	0.647	0.280	0.404		19.9	
Body	LTE Band 5	10	QPSK	4	4CWM9	1:1	0.11	836.50	20525	0.0	18.70	18.13	1	49	Bottom	0	N/A	0.024	0.012	1.140	0.027	0.014	0.017		33.6	
Body	LTE Band 5	10	QPSK	4	4CWM9	1:1	-0.08	836.50	20525	0.0	18.70	18.17	25	12	Bottom	0	N/A	0.023	0.012	1.130	0.026	0.014	0.016		33.8	
Body	LTE Band 5	10	QPSK	4	4CWM9	1:1	0.04	836.50	20525	0.0	18.70	18.13	1	49	Right	0	N/A	0.026	0.013	1.140	0.030	0.015	0.019		33.3	
Body	LTE Band 5	10	QPSK	4	4CWM9	1:1	0.21	836.50	20525	0.0	18.70	18.17	25	12	Right	0	N/A	0.021	0.010	1.130	0.024	0.011	0.015		34.2	
Body	LTE Band 5	10	QPSK	4	4CWM9	1:1	0.03	836.50	20525	0.0	18.70	18.13	1	49	Left	0	N/A	0.654	0.253	1.140	0.746	0.288	0.466		19.3	
Body	LTE Band 5	10	QPSK	4	4CWM9	1:1	0.05	836.50	20525	0.0	18.70	18.17	25	12	Left	0	N/A	0.657	0.251	1.130	0.742	0.284	0.464		19.3	
Body	LTE Band 5	10	QPSK	4	4CWM9	1:1	0.02	836.50	20525	0.0	18.70	18.05	50	0	Back	0	ULCA 5B	0.711	0.333	1.161	0.825	0.387	0.516		18.8	
		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											

10.10 LTE Band 66 (AWS) Standalone SAR

Table 10-23 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	0.06	1720.00	132072	0.0	13.10	12.38	1	50	Back	0	0.794	0.315	1.180	0.937	0.372	0.586		12.4	12.1
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	0.05	1745.00	132222	0.0	13.10	12.37	1	50	Back	0	0.837	0.327	1.183	0.990	0.387	0.619		12.1	
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	0.01	1770.00	132572	0.0	13.10	12.37	1	50	Back	0	0.834	0.331	1.183	0.987	0.392	0.617		12.1	
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	0.02	1720.00	132072	0.0	13.10	12.49	50	25	Back	0	0.819	0.324	1.151	0.943	0.373	0.589		12.3	
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	-0.01	1745.00	132322	0.0	13.10	12.46	50	25	Back	0	0.849	0.334	1.159	0.984	0.387	0.615		12.2	
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	0.02	1770.00	132572	0.0	13.10	12.48	50	50	Back	0	0.858	0.338	1.153	0.989	0.390	0.618	A10	12.1	
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	0.05	1745.00	132222	0.0	13.10	12.33	100	0	Back	0	0.759	0.301	1.194	0.906	0.359	0.566		12.5	
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	0.05	1720.00	132072	0.0	13.10	12.38	1	50	Top	0	0.001	0.000	1.180	0.001	0.000	0.001		41.4	
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	0.01	1720.00	132072	0.0	13.10	12.49	50	25	Top	0	0.001	0.000	1.151	0.001	0.000	0.001		41.5	
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	-0.01	1720.00	132072	0.0	13.10	12.38	1	50	Bottom	0	0.582	0.218	1.180	0.687	0.257	0.429		13.7	
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	0.01	1720.00	132072	0.0	13.10	12.49	50	25	Bottom	0	0.590	0.221	1.151	0.679	0.254	0.424		13.8	
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	0.15	1720.00	132072	0.0	13.10	12.38	1	50	Right	0	0.007	0.003	1.180	0.008	0.004	0.005		32.9	
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	-0.15	1720.00	132072	0.0	13.10	12.49	50	25	Right	0	0.007	0.003	1.151	0.008	0.003	0.005		33.0	
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	0.03	1720.00	132072	0.0	13.10	12.38	1	50	Left	0	0.041	0.016	1.180	0.048	0.019	0.030		25.2	
Body	LTE Band 66	20	QPSK	1b	G20V7	1:1	-0.10	1720.00	132072	0.0	13.10	12.49	50	25	Left	0	0.042	0.016	1.151	0.048	0.018	0.030		25.2	
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 10-24 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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	0.07	1720.00	132072	0.0	13.50	12.32	1	50	Back	0	0.466	0.189	1.312	0.611	0.248	0.382		14.6	12.9
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	0.03	1720.00	132072	0.0	13.50	12.37	50	25	Back	0	0.474	0.192	1.297	0.615	0.249	0.384		14.6	
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	0.06	1720.00	132072	0.0	13.50	12.32	1	50	Top	0	0.002	0.000	1.312	0.003	0.000	0.002		38.3	
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	0.03	1720.00	132072	0.0	13.50	12.37	50	25	Top	0	0.001	0.000	1.297	0.001	0.000	0.001		41.4	
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	0.01	1720.00	132072	0.0	13.50	12.32	1	50	Bottom	0	0.624	0.245	1.312	0.819	0.321	0.512		13.3	
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	-0.02	1745.00	132322	0.0	13.50	12.19	1	50	Bottom	0	0.624	0.247	1.352	0.844	0.334	0.528		13.2	
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	0.04	1770.00	132572	0.0	13.50	12.06	1	50	Bottom	0	0.599	0.235	1.393	0.834	0.327	0.521		13.3	
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	0.00	1720.00	132072	0.0	13.50	12.37	50	25	Bottom	0	0.637	0.249	1.297	0.826	0.323	0.516		13.3	
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	0.02	1745.00	132322	0.0	13.50	12.33	50	25	Bottom	0	0.625	0.246	1.309	0.818	0.322	0.511		13.4	
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	0.00	1770.00	132572	0.0	13.50	12.19	50	25	Bottom	0	0.603	0.236	1.352	0.815	0.319	0.509		13.4	
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	0.05	1720.00	132072	0.0	13.50	12.30	100	0	Bottom	0	0.684	0.259	1.318	0.902	0.341	0.564		12.9	
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	0.01	1720.00	132072	0.0	13.50	12.32	1	50	Right	0	0.049	0.022	1.312	0.064	0.029	0.040		24.4	
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	-0.01	1720.00	132072	0.0	13.50	12.37	50	25	Right	0	0.049	0.022	1.297	0.064	0.029	0.040		24.4	
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	-0.20	1720.00	132072	0.0	13.50	12.32	1	50	Left	0	0.004	0.002	1.312	0.005	0.003	0.003		35.3	
Body	LTE Band 66	20	QPSK	2b	M7K2F	1:1	0.01	1720.00	132072	0.0	13.50	12.37	50	25	Left	0	0.006	0.002	1.297	0.008	0.003	0.005		33.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 10-25 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	-0.06	1745.00	132322	0.0	13.80	12.91	1	0	Back	0	0.372	0.167	1.227	0.456	0.205	0.285		16.2	13.3
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	0.00	1745.00	132322	0.0	13.80	12.92	50	25	Back	0	0.372	0.166	1.225	0.456	0.203	0.285		16.2	
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	-0.05	1745.00	132322	0.0	13.80	12.91	1	0	Top	0	0.286	0.089	1.227	0.351	0.109	0.219		17.3	
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	0.02	1745.00	132322	0.0	13.80	12.92	50	25	Top	0	0.283	0.088	1.225	0.347	0.108	0.217		17.4	
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	0.04	1745.00	132322	0.0	13.80	12.91	1	0	Bottom	0	0.012	0.006	1.227	0.015	0.007	0.009		31.1	
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	-0.18	1745.00	132322	0.0	13.80	12.92	50	25	Bottom	0	0.011	0.005	1.225	0.013	0.006	0.008		31.5	
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	-0.04	1720.00	132072	0.0	13.80	12.73	1	0	Right	0	0.691	0.277	1.279	0.884	0.354	0.553		13.3	
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	0.02	1745.00	132322	0.0	13.80	12.91	1	0	Right	0	0.671	0.270	1.227	0.823	0.331	0.514		13.6	
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	-0.03	1770.00	132572	0.0	13.80	12.83	1	0	Right	0	0.655	0.261	1.250	0.819	0.326	0.512		13.6	
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	0.01	1720.00	132072	0.0	13.80	12.88	50	25	Right	0	0.694	0.280	1.236	0.858	0.346	0.536		13.4	
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	0.01	1745.00	132322	0.0	13.80	12.92	50	25	Right	0	0.667	0.267	1.225	0.817	0.327	0.511		13.7	
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	0.00	1770.00	132572	0.0	13.80	12.82	50	50	Right	0	0.663	0.264	1.253	0.831	0.331	0.519		13.6	
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	0.00	1745.00	132322	0.0	13.80	12.86	100	0	Right	0	0.667	0.267	1.242	0.828	0.332	0.518		13.6	
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	0.04	1745.00	132322	0.0	13.80	12.91	1	0	Left	0	0.002	0.000	1.227	0.002	0.000	0.001		38.9	
Body	LTE Band 66	20	QPSK	3a	G4PWH	1:1	0.06	1745.00	132322	0.0	13.80	12.92	50	25	Left	0	0.001	0.000	1.225	0.001	0.000	0.001		41.9	
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 10-26 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	0.03	1720.00	132072	0.0	15.20	14.09	1	50	Back	0	0.679	0.279	1.291	0.877	0.360	0.548		14.8	14.3
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	0.04	1745.00	132322	0.0	15.20	13.96	1	0	Back	0	0.689	0.282	1.330	0.916	0.375	0.573		14.6	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	-0.01	1770.00	132572	0.0	15.20	13.95	1	50	Back	0	0.709	0.286	1.334	0.946	0.382	0.591		14.4	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	0.02	1720.00	132072	0.0	15.20	14.16	50	25	Back	0	0.695	0.286	1.271	0.883	0.364	0.552		14.7	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	0.01	1745.00	132322	0.0	15.20	13.99	50	25	Back	0	0.694	0.281	1.321	0.917	0.374	0.573		14.6	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	0.01	1770.00	132572	0.0	15.20	13.93	50	50	Back	0	0.727	0.292	1.340	0.974	0.391	0.609		14.3	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	-0.02	1720.00	132072	0.0	15.20	13.96	100	0	Back	0	0.693	0.286	1.330	0.922	0.380	0.576		14.5	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	-0.02	1720.00	132072	0.0	15.20	14.09	1	50	Top	0	0.543	0.239	1.291	0.701	0.309	0.438		15.7	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	-0.01	1720.00	132072	0.0	15.20	14.16	50	25	Top	0	0.559	0.246	1.271	0.710	0.313	0.444		15.7	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	0.07	1720.00	132072	0.0	15.20	14.09	1	50	Bottom	0	0.000	0.000	1.291	0.000	0.000	0.000		53.1	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	0.04	1720.00	132072	0.0	15.20	14.16	50	25	Bottom	0	0.000	0.000	1.271	0.000	0.000	0.000		53.1	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	0.03	1720.00	132072	0.0	15.20	14.09	1	50	Right	0	0.014	0.007	1.291	0.018	0.009	0.011		31.6	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	-0.21	1720.00	132072	0.0	15.20	14.16	50	25	Right	0	0.014	0.005	1.271	0.018	0.006	0.011		31.7	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	-0.02	1720.00	132072	0.0	15.20	14.09	1	50	Left	0	0.623	0.205	1.291	0.804	0.265	0.503		15.1	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	0.06	1745.00	132322	0.0	15.20	13.96	1	0	Left	0	0.530	0.177	1.330	0.705	0.235	0.441		15.7	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	0.09	1770.00	132572	0.0	15.20	13.95	1	50	Left	0	0.578	0.194	1.334	0.771	0.259	0.482		15.3	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	0.01	1720.00	132072	0.0	15.20	14.16	50	25	Left	0	0.681	0.222	1.271	0.866	0.282	0.541		14.8	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	-0.01	1745.00	132322	0.0	15.20	13.99	50	25	Left	0	0.633	0.205	1.321	0.836	0.271	0.523		15.0	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	0.01	1770.00	132572	0.0	15.20	13.93	50	50	Left	0	0.614	0.207	1.340	0.823	0.277	0.514		15.0	
Body	LTE Band 66	20	QPSK	4	11Q0X	1:1	-0.01	1720.00	132072	0.0	15.20	13.96	100	0	Left	0	0.557	0.186	1.330	0.741	0.247	0.463		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											

10.11 LTE Band 25 (PCS) Standalone SAR

Table 10-27 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	0.03	1860.00	26140	0.0	12.80	12.03	1	50	Back	0	0.803	0.314	1.194	0.959	0.375	0.599		12.0	11.9
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	0.01	1882.50	26365	0.0	12.80	12.02	1	50	Back	0	0.794	0.309	1.197	0.950	0.370	0.594		12.0	
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	0.04	1905.00	26590	0.0	12.80	11.98	1	50	Back	0	0.785	0.305	1.208	0.948	0.368	0.593		12.0	
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	0.04	1860.00	26140	0.0	12.80	12.09	50	25	Back	0	0.826	0.322	1.178	0.973	0.379	0.608	A11	11.9	
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	0.01	1882.50	26365	0.0	12.80	12.07	50	25	Back	0	0.808	0.314	1.183	0.956	0.371	0.598		12.0	
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	0.01	1905.00	26590	0.0	12.80	12.03	50	50	Back	0	0.798	0.308	1.194	0.953	0.368	0.596		12.0	
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	0.01	1882.50	26365	0.0	12.80	12.01	100	0	Back	0	0.812	0.315	1.199	0.974	0.378	0.609		11.9	
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	0.08	1860.00	26140	0.0	12.80	12.03	1	50	Top	0	0.006	0.004	1.194	0.007	0.005	0.004		33.2	
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	0.04	1860.00	26140	0.0	12.80	12.09	50	25	Top	0	0.007	0.005	1.178	0.008	0.006	0.005		32.6	
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	-0.02	1860.00	26140	0.0	12.80	12.03	1	50	Bottom	0	0.525	0.198	1.194	0.627	0.236	0.392		13.8	
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	-0.02	1860.00	26140	0.0	12.80	12.09	50	25	Bottom	0	0.534	0.202	1.178	0.629	0.238	0.393		13.8	
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	0.03	1860.00	26140	0.0	12.80	12.03	1	50	Right	0	0.010	0.008	1.194	0.012	0.010	0.008		31.0	
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	0.02	1860.00	26140	0.0	12.80	12.09	50	25	Right	0	0.009	0.008	1.178	0.011	0.009	0.007		31.5	
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	0.02	1860.00	26140	0.0	12.80	12.03	1	50	Left	0	0.048	0.020	1.194	0.057	0.024	0.036		24.2	
Body	LTE Band 25	20	QPSK	1b	3XGHJ	1:1	0.04	1860.00	26140	0.0	12.80	12.09	50	25	Left	0	0.051	0.021	1.178	0.060	0.025	0.038		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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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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	0.02	1882.50	26365	0.0	13.90	13.26	1	50	Back	0	0.509	0.196	1.159	0.590	0.227	0.369		15.2	13.2
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	0.01	1882.50	26365	0.0	13.90	13.31	50	25	Back	0	0.525	0.202	1.146	0.602	0.231	0.376		15.1	
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	-0.05	1882.50	26365	0.0	13.90	13.26	1	50	Top	0	0.009	0.007	1.159	0.010	0.008	0.006		32.7	
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	0.04	1882.50	26365	0.0	13.90	13.31	50	25	Top	0	0.010	0.008	1.146	0.011	0.009	0.007		32.3	
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	-0.01	1860.00	26140	0.0	13.90	13.02	1	50	Bottom	0	0.716	0.277	1.225	0.877	0.339	0.548		13.5	
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	-0.07	1882.50	26365	0.0	13.90	13.26	1	50	Bottom	0	0.735	0.285	1.159	0.852	0.330	0.533		13.6	
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	-0.04	1905.00	26590	0.0	13.90	13.24	1	50	Bottom	0	0.769	0.293	1.164	0.895	0.341	0.559		13.4	
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	-0.03	1860.00	26140	0.0	13.90	13.29	50	25	Bottom	0	0.736	0.284	1.151	0.847	0.327	0.529		13.6	
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	-0.03	1882.50	26365	0.0	13.90	13.31	50	25	Bottom	0	0.729	0.283	1.146	0.835	0.324	0.522		13.7	
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	-0.04	1905.00	26590	0.0	13.90	13.28	50	50	Bottom	0	0.801	0.303	1.153	0.924	0.349	0.578		13.2	
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	-0.04	1882.50	26365	0.0	13.90	13.25	100	0	Bottom	0	0.746	0.289	1.161	0.866	0.336	0.541		13.5	
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	0.00	1882.50	26365	0.0	13.90	13.26	1	50	Right	0	0.068	0.029	1.159	0.079	0.034	0.049		23.9	
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	-0.08	1882.50	26365	0.0	13.90	13.31	50	25	Right	0	0.067	0.029	1.146	0.077	0.033	0.048		24.0	
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	0.03	1882.50	26365	0.0	13.90	13.26	1	50	Left	0	0.005	0.004	1.159	0.006	0.005	0.004		35.3	
Body	LTE Band 25	20	QPSK	2b	G4PWH	1:1	-0.08	1882.50	26365	0.0	13.90	13.31	50	25	Left	0	0.007	0.005	1.146	0.008	0.006	0.005		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											

Table 10-29 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	0.02	1905.00	26590	0.0	14.80	13.94	1	50	Back	0	0.417	0.185	1.219	0.508	0.226	0.318		16.7	13.9
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	-0.01	1905.00	26590	0.0	14.80	13.92	50	50	Back	0	0.428	0.189	1.225	0.524	0.232	0.328		16.6	
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	-0.04	1905.00	26590	0.0	14.80	13.94	1	50	Top	0	0.316	0.097	1.219	0.385	0.118	0.241		17.9	
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	-0.01	1905.00	26590	0.0	14.80	13.92	50	50	Top	0	0.311	0.095	1.225	0.381	0.116	0.238		18.0	
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	0.07	1905.00	26590	0.0	14.80	13.94	1	50	Bottom	0	0.005	0.002	1.219	0.006	0.002	0.004		35.9	
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	-0.13	1905.00	26590	0.0	14.80	13.92	50	50	Bottom	0	0.005	0.002	1.225	0.006	0.002	0.004		35.9	
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	-0.02	1860.00	26140	0.0	14.80	13.83	1	50	Right	0	0.741	0.282	1.250	0.926	0.353	0.579		14.1	
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	0.05	1882.50	26365	0.0	14.80	13.78	1	50	Right	0	0.745	0.279	1.265	0.942	0.353	0.589		14.0	
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	-0.01	1905.00	26590	0.0	14.80	13.94	1	50	Right	0	0.752	0.281	1.219	0.917	0.343	0.573		14.2	
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	-0.04	1860.00	26140	0.0	14.80	13.88	50	25	Right	0	0.753	0.287	1.236	0.931	0.355	0.582		14.1	
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	-0.04	1882.50	26365	0.0	14.80	13.87	50	50	Right	0	0.744	0.279	1.239	0.922	0.346	0.576		14.1	
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	-0.11	1905.00	26590	0.0	14.80	13.92	50	50	Right	0	0.755	0.282	1.225	0.925	0.345	0.578		14.1	
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	-0.05	1905.00	26590	0.0	14.80	13.85	100	0	Right	0	0.788	0.291	1.245	0.981	0.362	0.613		13.9	
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	0.14	1905.00	26590	0.0	14.80	13.94	1	50	Left	0	0.005	0.002	1.219	0.006	0.002	0.004		35.9	
Body	LTE Band 25	20	QPSK	3a	G4PWH	1:1	-0.01	1905.00	26590	0.0	14.80	13.92	50	50	Left	0	0.009	0.003	1.225	0.011	0.004	0.007		33.4	
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 10-30 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	0.03	1860.00	26140	0.0	14.80	13.57	1	50	Back	0	0.672	0.267	1.327	0.892	0.354	0.558		14.3	14.1
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	-0.03	1882.50	26365	0.0	14.80	13.79	1	50	Back	0	0.658	0.259	1.262	0.830	0.327	0.519		14.6	
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	0.04	1905.00	26590	0.0	14.80	13.70	1	50	Back	0	0.708	0.281	1.288	0.912	0.362	0.570		14.2	
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	0.07	1860.00	26140	0.0	14.80	13.83	50	25	Back	0	0.713	0.283	1.250	0.891	0.354	0.557		14.3	
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	-0.02	1882.50	26365	0.0	14.80	13.84	50	25	Back	0	0.665	0.261	1.247	0.829	0.325	0.518		14.6	
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	-0.02	1905.00	26590	0.0	14.80	13.77	50	25	Back	0	0.738	0.292	1.268	0.936	0.370	0.585		14.1	
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	0.02	1882.50	26365	0.0	14.80	13.78	100	0	Back	0	0.690	0.271	1.265	0.873	0.343	0.546		14.4	
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	-0.04	1882.50	26365	0.0	14.80	13.79	1	50	Top	0	0.511	0.220	1.262	0.645	0.278	0.403		15.7	
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	-0.04	1882.50	26365	0.0	14.80	13.84	50	25	Top	0	0.523	0.225	1.247	0.652	0.281	0.408		15.6	
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	0.01	1882.50	26365	0.0	14.80	13.79	1	50	Bottom	0	0.001	0.000	1.262	0.001	0.000	0.001		42.8	
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	0.03	1882.50	26365	0.0	14.80	13.84	50	25	Bottom	0	0.000	0.000	1.247	0.000	0.000	0.000		52.8	
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	0.04	1882.50	26365	0.0	14.80	13.79	1	50	Right	0	0.013	0.006	1.262	0.016	0.008	0.010		31.6	
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	0.03	1882.50	26365	0.0	14.80	13.84	50	25	Right	0	0.015	0.007	1.247	0.019	0.009	0.012		31.1	
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	0.06	1882.50	26365	0.0	14.80	13.79	1	50	Left	0	0.288	0.083	1.262	0.363	0.105	0.227		18.2	
Body	LTE Band 25	20	QPSK	4	11QOX	1:1	0.08	1882.50	26365	0.0	14.80	13.84	50	25	Left	0	0.295	0.089	1.247	0.368	0.111	0.230		18.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram											

10.12 LTE Band 30 Standalone SAR

Table 10-31 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	1b	LJQPD	1:1	0.03	2310.00	27710	0.0	13.60	12.88	1	25	Back	0	0.790	0.279	1.180	0.932	0.329	0.583		12.9	12.7
Body	LTE Band 30	10	QPSK	1b	LJQPD	1:1	-0.05	2310.00	27710	0.0	13.60	12.97	25	12	Back	0	0.772	0.270	1.156	0.892	0.312	0.558		13.1	
Body	LTE Band 30	10	QPSK	1b	LJQPD	1:1	0.03	2310.00	27710	0.0	13.60	12.87	50	0	Back	0	0.720	0.250	1.183	0.852	0.296	0.533		13.3	
Body	LTE Band 30	10	QPSK	1b	LJQPD	1:1	0.04	2310.00	27710	0.0	13.60	12.88	1	25	Top	0	0.002	0.000	1.180	0.002	0.000	0.001		38.9	
Body	LTE Band 30	10	QPSK	1b	LJQPD	1:1	0.01	2310.00	27710	0.0	13.60	12.97	25	12	Top	0	0.002	0.000	1.156	0.002	0.000	0.001		38.9	
Body	LTE Band 30	10	QPSK	1b	LJQPD	1:1	0.07	2310.00	27710	0.0	13.60	12.88	1	25	Bottom	0	0.786	0.256	1.180	0.927	0.302	0.579		12.9	
Body	LTE Band 30	10	QPSK	1b	LJQPD	1:1	0.03	2310.00	27710	0.0	13.60	12.97	25	12	Bottom	0	0.836	0.268	1.156	0.966	0.310	0.604	A12	12.7	
Body	LTE Band 30	10	QPSK	1b	LJQPD	1:1	0.01	2310.00	27710	0.0	13.60	12.97	25	12	Bottom	0	0.802	0.259	1.156	0.927	0.299	0.579		12.9	
Body	LTE Band 30	10	QPSK	1b	LJQPD	1:1	-0.02	2310.00	27710	0.0	13.60	12.87	50	0	Bottom	0	0.784	0.256	1.183	0.927	0.303	0.579		12.9	
Body	LTE Band 30	10	QPSK	1b	LJQPD	1:1	0.07	2310.00	27710	0.0	13.60	12.88	1	25	Right	0	0.006	0.002	1.180	0.007	0.002	0.004		34.1	
Body	LTE Band 30	10	QPSK	1b	LJQPD	1:1	0.08	2310.00	27710	0.0	13.60	12.97	25	12	Right	0	0.006	0.002	1.156	0.007	0.002	0.004		34.2	
Body	LTE Band 30	10	QPSK	1b	LJQPD	1:1	0.05	2310.00	27710	0.0	13.60	12.88	1	25	Left	0	0.022	0.009	1.180	0.026	0.011	0.016		28.4	
Body	LTE Band 30	10	QPSK	1b	LJQPD	1:1	-0.15	2310.00	27710	0.0	13.60	12.97	25	12	Left	0	0.021	0.009	1.156	0.024	0.010	0.015		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											

Note: Blue entry represents variability measurement

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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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	2b	G4PWH	1:1	-0.07	2310.00	27710	0.0	14.20	13.35	1	25	Back	0	0.663	0.263	1.216	0.806	0.320	0.504		14.1	14.0
Body	LTE Band 30	10	QPSK	2b	G4PWH	1:1	0.00	2310.00	27710	0.0	14.20	13.36	25	0	Back	0	0.644	0.257	1.213	0.781	0.312	0.488		14.3	
Body	LTE Band 30	10	QPSK	2b	G4PWH	1:1	0.07	2310.00	27710	0.0	14.20	13.28	50	0	Back	0	0.627	0.250	1.236	0.775	0.309	0.484		14.3	
Body	LTE Band 30	10	QPSK	2b	G4PWH	1:1	0.09	2310.00	27710	0.0	14.20	13.35	1	25	Top	0	0.000	0.000	1.216	0.000	0.000	0.000		52.3	
Body	LTE Band 30	10	QPSK	2b	G4PWH	1:1	-0.21	2310.00	27710	0.0	14.20	13.36	25	0	Top	0	0.000	0.000	1.213	0.000	0.000	0.000		52.3	
Body	LTE Band 30	10	QPSK	2b	G4PWH	1:1	0.06	2310.00	27710	0.0	14.20	13.35	1	25	Bottom	0	0.680	0.224	1.216	0.827	0.272	0.517		14.0	
Body	LTE Band 30	10	QPSK	2b	G4PWH	1:1	-0.01	2310.00	27710	0.0	14.20	13.36	25	0	Bottom	0	0.667	0.221	1.213	0.809	0.268	0.506		14.1	
Body	LTE Band 30	10	QPSK	2b	G4PWH	1:1	-0.04	2310.00	27710	0.0	14.20	13.28	50	0	Bottom	0	0.655	0.214	1.236	0.810	0.265	0.506		14.1	
Body	LTE Band 30	10	QPSK	2b	G4PWH	1:1	-0.16	2310.00	27710	0.0	14.20	13.35	1	25	Right	0	0.025	0.010	1.216	0.030	0.012	0.019		28.4	
Body	LTE Band 30	10	QPSK	2b	G4PWH	1:1	0.06	2310.00	27710	0.0	14.20	13.36	25	0	Right	0	0.028	0.011	1.213	0.034	0.013	0.021		27.9	
Body	LTE Band 30	10	QPSK	2b	G4PWH	1:1	-0.16	2310.00	27710	0.0	14.20	13.35	1	25	Left	0	0.011	0.004	1.216	0.013	0.005	0.008		31.9	
Body	LTE Band 30	10	QPSK	2b	G4PWH	1:1	0.06	2310.00	27710	0.0	14.20	13.36	25	0	Left	0	0.011	0.004	1.213	0.013	0.005	0.008		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 10-33 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	3a	LJQPD	1:1	0.10	2310.00	27710	0.0	11.90	11.17	1	0	Back	0	0.431	0.194	1.183	0.510	0.230	0.319		13.8	11.0
Body	LTE Band 30	10	QPSK	3a	LJQPD	1:1	-0.01	2310.00	27710	0.0	11.90	11.20	25	12	Back	0	0.438	0.198	1.175	0.515	0.233	0.322		13.8	
Body	LTE Band 30	10	QPSK	3a	LJQPD	1:1	-0.03	2310.00	27710	0.0	11.90	11.17	1	0	Top	0	0.279	0.085	1.183	0.330	0.101	0.206		15.7	
Body	LTE Band 30	10	QPSK	3a	LJQPD	1:1	0.00	2310.00	27710	0.0	11.90	11.20	25	12	Top	0	0.291	0.088	1.175	0.342	0.103	0.214		15.5	
Body	LTE Band 30	10	QPSK	3a	LJQPD	1:1	-0.04	2310.00	27710	0.0	11.90	11.17	1	0	Bottom	0	0.016	0.006	1.183	0.019	0.007	0.012		28.1	
Body	LTE Band 30	10	QPSK	3a	LJQPD	1:1	0.02	2310.00	27710	0.0	11.90	11.20	25	12	Bottom	0	0.017	0.007	1.175	0.020	0.008	0.013		27.9	
Body	LTE Band 30	10	QPSK	3a	LJQPD	1:1	-0.07	2310.00	27710	0.0	11.90	11.17	1	0	Right	0	0.784	0.288	1.183	0.927	0.341	0.579		11.2	
Body	LTE Band 30	10	QPSK	3a	LJQPD	1:1	-0.01	2310.00	27710	0.0	11.90	11.20	25	12	Right	0	0.830	0.299	1.175	0.975	0.351	0.609		11.0	
Body	LTE Band 30	10	QPSK	3a	LJQPD	1:1	0.03	2310.00	27710	0.0	11.90	11.13	50	0	Right	0	0.798	0.289	1.194	0.953	0.345	0.596		11.1	
Body	LTE Band 30	10	QPSK	3a	LJQPD	1:1	0.09	2310.00	27710	0.0	11.90	11.17	1	0	Left	0	0.000	0.000	1.183	0.000	0.000	0.000		50.2	
Body	LTE Band 30	10	QPSK	3a	LJQPD	1:1	0.06	2310.00	27710	0.0	11.90	11.20	25	12	Left	0	0.000	0.000	1.175	0.000	0.000	0.000		50.2	
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 10-34 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 30	10	QPSK	4	11Q0X	1:1	0.05	2310.00	27710	0.0	11.80	10.26	1	25	Back	0	0.601	0.230	1.426	0.857	0.328	0.536		11.5	10.8
Body	LTE Band 30	10	QPSK	4	11Q0X	1:1	0.01	2310.00	27710	0.0	11.80	10.35	25	12	Back	0	0.601	0.229	1.396	0.839	0.320	0.524		11.5	
Body	LTE Band 30	10	QPSK	4	11Q0X	1:1	0.02	2310.00	27710	0.0	11.80	10.22	50	0	Back	0	0.587	0.224	1.439	0.845	0.322	0.528		11.5	
Body	LTE Band 30	10	QPSK	4	11Q0X	1:1	-0.01	2310.00	27710	0.0	11.80	10.26	1	25	Top	0	0.266	0.081	1.426	0.379	0.116	0.237		15.0	
Body	LTE Band 30	10	QPSK	4	11Q0X	1:1	-0.01	2310.00	27710	0.0	11.80	10.35	25	12	Top	0	0.270	0.082	1.396	0.377	0.114	0.236		15.0	
Body	LTE Band 30	10	QPSK	4	11Q0X	1:1	0.07	2310.00	27710	0.0	11.80	10.26	1	25	Bottom	0	0.006	0.002	1.426	0.009	0.003	0.006		31.5	
Body	LTE Band 30	10	QPSK	4	11Q0X	1:1	0.01	2310.00	27710	0.0	11.80	10.35	25	12	Bottom	0	0.007	0.002	1.396	0.010	0.003	0.006		30.9	
Body	LTE Band 30	10	QPSK	4	11Q0X	1:1	-0.08	2310.00	27710	0.0	11.80	10.26	1	25	Right	0	0.003	0.000	1.426	0.004	0.000	0.003		34.5	
Body	LTE Band 30	10	QPSK	4	11Q0X	1:1	0.07	2310.00	27710	0.0	11.80	10.35	25	12	Right	0	0.002	0.000	1.396	0.003	0.000	0.002		36.3	
Body	LTE Band 30	10	QPSK	4	11Q0X	1:1	-0.04	2310.00	27710	0.0	11.80	10.26	1	25	Left	0	0.670	0.229	1.426	0.955	0.327	0.597		11.0	
Body	LTE Band 30	10	QPSK	4	11Q0X	1:1	0.05	2310.00	27710	0.0	11.80	10.35	25	12	Left	0	0.698	0.235	1.396	0.974	0.328	0.609		10.9	
Body	LTE Band 30	10	QPSK	4	11Q0X	1:1	0.07	2310.00	27710	0.0	11.80	10.22	50	0	Left	0	0.686	0.231	1.439	0.987	0.332	0.617		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											

10.13 LTE Band 7 Standalone SAR

Table 10-35 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	0.03	2510.00	20850	0.0	13.50	13.14	1	50	Back	0	N/A	0.788	0.265	1.086	0.856	0.288	0.535		13.2	12.6
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	-0.02	2535.00	21100	0.0	13.50	13.12	1	50	Back	0	N/A	0.767	0.254	1.091	0.837	0.277	0.523		13.3	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	0.15	2560.00	21350	0.0	13.50	12.78	1	50	Back	0	N/A	0.771	0.253	1.180	0.910	0.299	0.569		12.9	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	-0.11	2510.00	20850	0.0	13.50	13.20	50	0	Back	0	N/A	0.800	0.270	1.072	0.858	0.289	0.536		13.2	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	0.07	2535.00	21100	0.0	13.50	13.10	50	25	Back	0	N/A	0.798	0.264	1.096	0.875	0.289	0.547		13.1	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	0.07	2560.00	21350	0.0	13.50	13.05	50	25	Back	0	N/A	0.782	0.257	1.109	0.867	0.285	0.542		13.1	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	-0.03	2510.00	20850	0.0	13.50	13.05	100	0	Back	0	N/A	0.803	0.271	1.109	0.891	0.301	0.557		13.0	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	0.01	2510.00	20850	0.0	13.50	13.14	1	50	Top	0	N/A	0.000	0.000	1.086	0.000	0.000	0.000		52.1	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	0.03	2510.00	20850	0.0	13.50	13.20	50	0	Top	0	N/A	0.005	0.000	1.072	0.005	0.000	0.003		35.2	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	-0.01	2510.00	20850	0.0	13.50	13.14	1	50	Bottom	0	N/A	0.816	0.255	1.086	0.886	0.277	0.554		13.0	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	-0.01	2535.00	21100	0.0	13.50	13.12	1	50	Bottom	0	N/A	0.790	0.245	1.091	0.862	0.267	0.539		13.1	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	0.01	2560.00	21350	0.0	13.50	12.78	1	50	Bottom	0	N/A	0.806	0.259	1.180	0.951	0.306	0.594		12.7	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	0.02	2560.00	21350	0.0	13.50	12.69	1	0	Bottom	0	N/A	0.812	0.261	1.205	0.978	0.315	0.611		12.6	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	0.04	2510.00	20850	0.0	13.50	13.20	50	0	Bottom	0	N/A	0.885	0.280	1.072	0.949	0.300	0.593	A13	12.7	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	-0.01	2535.00	21100	0.0	13.50	13.10	50	25	Bottom	0	N/A	0.816	0.252	1.096	0.894	0.276	0.559		13.0	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	0.03	2560.00	21350	0.0	13.50	13.05	50	25	Bottom	0	N/A	0.796	0.246	1.109	0.883	0.273	0.552		13.0	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	0.04	2510.00	20850	0.0	13.50	13.05	100	0	Bottom	0	N/A	0.832	0.260	1.109	0.923	0.288	0.577		12.8	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	0.01	2510.00	20850	0.0	13.50	13.14	1	50	Right	0	N/A	0.007	0.002	1.086	0.008	0.002	0.005		33.7	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	0.03	2510.00	20850	0.0	13.50	13.20	50	0	Right	0	N/A	0.007	0.002	1.072	0.008	0.002	0.005		33.7	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	-0.05	2510.00	20850	0.0	13.50	13.14	1	50	Left	0	N/A	0.020	0.008	1.086	0.022	0.009	0.014		29.1	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	-0.16	2510.00	20850	0.0	13.50	13.20	50	0	Left	0	N/A	0.020	0.007	1.072	0.021	0.008	0.013		29.2	
Body	LTE Band 7	20	QPSK	1b	M7K2F	1:1	0.01	2560.00	21350	0.0	13.50	12.84	1	0	Bottom	0	ULCA 7C	0.822	0.261	1.164	0.957	0.304	0.598		12.7	
		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											

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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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	-0.04	2510.00	20850	0.0	14.20	12.76	1	50	Back	0	N/A	0.635	0.242	1.393	0.885	0.337	0.553		13.7	13.3
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	-0.09	2510.00	20850	0.0	14.20	12.64	1	99	Back	0	N/A	0.652	0.248	1.432	0.934	0.355	0.584		13.5	
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	-0.05	2535.00	21100	0.0	14.20	12.65	1	50	Back	0	N/A	0.585	0.235	1.429	0.836	0.336	0.523		14.0	
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	-0.01	2560.00	21350	0.0	14.20	12.72	1	50	Back	0	N/A	0.537	0.178	1.406	0.755	0.250	0.472		14.4	
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	-0.08	2510.00	20850	0.0	14.20	12.81	50	25	Back	0	N/A	0.552	0.223	1.377	0.760	0.307	0.475		14.4	
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	-0.04	2560.00	21350	0.0	14.20	12.71	100	0	Back	0	N/A	0.537	0.177	1.409	0.757	0.249	0.473		14.4	
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	0.01	2510.00	20850	0.0	14.20	12.76	1	50	Top	0	N/A	0.007	0.002	1.393	0.010	0.003	0.006		33.3	
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	0.08	2510.00	20850	0.0	14.20	12.81	50	25	Top	0	N/A	0.006	0.001	1.377	0.008	0.001	0.005		34.0	
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	0.03	2510.00	20850	0.0	14.20	12.76	1	50	Bottom	0	N/A	0.454	0.147	1.393	0.632	0.205	0.395		15.2	
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	0.03	2510.00	20850	0.0	14.20	12.81	50	25	Bottom	0	N/A	0.458	0.148	1.377	0.631	0.204	0.394		15.2	
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	0.05	2510.00	20850	0.0	14.20	12.76	1	50	Right	0	N/A	0.018	0.006	1.393	0.025	0.008	0.016		29.2	
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	0.09	2510.00	20850	0.0	14.20	12.81	50	25	Right	0	N/A	0.017	0.006	1.377	0.023	0.008	0.014		29.5	
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	0.08	2510.00	20850	0.0	14.20	12.76	1	50	Left	0	N/A	0.013	0.005	1.393	0.018	0.007	0.011		30.6	
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	0.05	2510.00	20850	0.0	14.20	12.81	50	25	Left	0	N/A	0.012	0.005	1.377	0.017	0.007	0.011		31.0	
Body	LTE Band 7	20	QPSK	2b	M7K2F	1:1	-0.03	2510.00	20850	0.0	14.20	12.76	1	99	Back	0	ULCA 7C	0.700	0.268	1.393	0.975	0.373	0.609		13.3	
		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												

Table 10-37 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	-0.01	2535.00	21100	0.0	11.30	10.37	1	0	Back	0	N/A	0.385	0.161	1.239	0.477	0.199	0.298		13.5	10.3
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	0.01	2535.00	21100	0.0	11.30	10.38	50	0	Back	0	N/A	0.394	0.165	1.236	0.487	0.204	0.304		13.4	
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	0.01	2535.00	21100	0.0	11.30	10.37	1	0	Top	0	N/A	0.284	0.086	1.239	0.352	0.107	0.220		14.8	
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	0.00	2535.00	21100	0.0	11.30	10.38	50	0	Top	0	N/A	0.288	0.088	1.236	0.356	0.109	0.223		14.8	
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	-0.04	2535.00	21100	0.0	11.30	10.37	1	0	Bottom	0	N/A	0.016	0.006	1.239	0.020	0.007	0.013		27.3	
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	-0.14	2535.00	21100	0.0	11.30	10.38	50	0	Bottom	0	N/A	0.016	0.007	1.236	0.020	0.009	0.013		27.3	
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	0.09	2510.00	20850	0.0	11.30	10.23	1	99	Right	0	N/A	0.773	0.273	1.279	0.989	0.349	0.618		10.3	
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	0.01	2535.00	21100	0.0	11.30	10.37	1	0	Right	0	N/A	0.669	0.229	1.239	0.829	0.284	0.518		11.1	
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	0.07	2560.00	21350	0.0	11.30	10.22	1	0	Right	0	N/A	0.656	0.229	1.282	0.841	0.294	0.526		11.0	
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	0.05	2510.00	20850	0.0	11.30	10.36	50	50	Right	0	N/A	0.792	0.281	1.242	0.984	0.349	0.615		10.4	
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	0.04	2535.00	21100	0.0	11.30	10.38	50	0	Right	0	N/A	0.665	0.226	1.236	0.822	0.279	0.514		11.1	
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	-0.13	2560.00	21350	0.0	11.30	10.29	50	50	Right	0	N/A	0.642	0.222	1.262	0.810	0.280	0.506		11.2	
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	-0.06	2535.00	21100	0.0	11.30	10.32	100	0	Right	0	N/A	0.686	0.246	1.253	0.860	0.308	0.538		10.9	
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	-0.17	2535.00	21100	0.0	11.30	10.37	1	0	Left	0	N/A	0.003	0.000	1.239	0.004	0.000	0.003		34.6	
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	0.02	2535.00	21100	0.0	11.30	10.38	50	0	Left	0	N/A	0.003	0.000	1.236	0.004	0.000	0.003		34.6	
Body	LTE Band 7	20	QPSK	3a	G20V7	1:1	-0.16	2510.00	20850	0.0	11.30	10.25	1	99	Right	0	ULCA 7C	0.747	0.265	1.274	0.952	0.338	0.595		10.5	
		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												

Table 10-38 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	0.09	2510.00	20850	0.0	12.40	11.46	1	50	Back	0	N/A	0.788	0.277	1.242	0.979	0.344	0.612		11.5	11.5
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	0.01	2510.00	20850	0.0	12.40	11.36	1	99	Back	0	N/A	0.739	0.273	1.271	0.939	0.347	0.587		11.7	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	0.01	2535.00	21100	0.0	12.40	11.43	1	50	Back	0	N/A	0.699	0.248	1.250	0.874	0.310	0.546		12.0	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	0.04	2560.00	21350	0.0	12.40	11.39	1	50	Back	0	N/A	0.666	0.236	1.262	0.840	0.298	0.525		12.1	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	0.03	2510.00	20850	0.0	12.40	11.52	50	0	Back	0	N/A	0.751	0.266	1.225	0.920	0.326	0.575		11.7	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	-0.02	2535.00	21100	0.0	12.40	11.46	50	0	Back	0	N/A	0.707	0.251	1.242	0.878	0.312	0.549		11.9	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	0.10	2560.00	21350	0.0	12.40	11.41	50	0	Back	0	N/A	0.688	0.244	1.256	0.864	0.306	0.540		12.0	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	0.06	2510.00	20850	0.0	12.40	11.42	100	0	Back	0	N/A	0.770	0.272	1.253	0.965	0.341	0.603		11.5	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	0.06	2510.00	20850	0.0	12.40	11.46	1	50	Top	0	N/A	0.417	0.156	1.242	0.518	0.194	0.324		14.2	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	-0.01	2510.00	20850	0.0	12.40	11.52	50	0	Top	0	N/A	0.427	0.159	1.225	0.523	0.195	0.327		14.2	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	-0.18	2510.00	20850	0.0	12.40	11.46	1	50	Bottom	0	N/A	0.010	0.004	1.242	0.012	0.005	0.008		30.4	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	0.09	2510.00	20850	0.0	12.40	11.52	50	0	Bottom	0	N/A	0.009	0.004	1.225	0.011	0.005	0.007		31.0	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	0.19	2510.00	20850	0.0	12.40	11.46	1	50	Right	0	N/A	0.014	0.006	1.242	0.017	0.007	0.011		29.0	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	-0.01	2510.00	20850	0.0	12.40	11.52	50	0	Right	0	N/A	0.014	0.005	1.225	0.017	0.006	0.011		29.0	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	0.05	2510.00	20850	0.0	12.40	11.46	1	50	Left	0	N/A	0.593	0.201	1.242	0.737	0.250	0.461		12.7	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	0.06	2510.00	20850	0.0	12.40	11.52	50	0	Left	0	N/A	0.597	0.203	1.225	0.731	0.249	0.457		12.7	
Body	LTE Band 7	20	QPSK	4	JCVDXJ	1:1	0.09	2510.00	20850	0.0	12.40	11.30	1	99	Back	0	ULCA 7C	0.706	0.255	1.288	0.909	0.328	0.568		11.8	
		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												

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10.14 LTE Band 41 Standalone SAR

Table 10-39 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.02	2506.00	39750	0.0	15.70	14.56	1	50	Back	0	N/A	0.666	0.230	1.300	0.866	0.299	0.541		13.3	12.9
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.08	2549.50	40185	0.0	15.70	14.48	1	50	Back	0	N/A	0.652	0.223	1.324	0.863	0.295	0.539		13.3	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.03	2593.00	40620	0.0	15.70	14.49	1	50	Back	0	N/A	0.614	0.209	1.321	0.811	0.276	0.507		13.6	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.07	2636.50	41055	0.0	15.70	14.50	1	99	Back	0	N/A	0.521	0.170	1.318	0.687	0.224	0.429		14.3	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	-0.03	2680.00	41490	0.0	15.70	14.57	1	99	Back	0	N/A	0.585	0.195	1.297	0.759	0.253	0.474		13.9	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	-0.02	2506.00	39750	0.0	15.70	14.57	50	0	Back	0	N/A	0.678	0.234	1.297	0.879	0.303	0.549		13.3	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.04	2549.50	40185	0.0	15.70	14.60	50	0	Back	0	N/A	0.673	0.230	1.288	0.867	0.296	0.542		13.3	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.05	2593.00	40620	0.0	15.70	14.60	50	25	Back	0	N/A	0.630	0.214	1.288	0.811	0.276	0.507		13.6	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	-0.02	2636.50	41055	0.0	15.70	14.59	50	25	Back	0	N/A	0.545	0.180	1.291	0.704	0.232	0.440		14.2	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.02	2680.00	41490	0.0	15.70	14.61	50	25	Back	0	N/A	0.588	0.196	1.285	0.756	0.252	0.473		13.9	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	-0.02	2680.00	41490	0.0	15.70	14.56	100	0	Back	0	N/A	0.589	0.196	1.300	0.766	0.255	0.479		13.9	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.02	2680.00	41490	0.0	15.70	14.57	1	99	Top	0	N/A	0.000	0.000	1.297	0.000	0.000	0.000		51.6	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.04	2680.00	41490	0.0	15.70	14.61	50	25	Top	0	N/A	0.000	0.000	1.285	0.000	0.000	0.000		51.6	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	-0.12	2506.00	39750	0.0	15.70	14.56	1	50	Bottom	0	N/A	0.681	0.208	1.300	0.885	0.270	0.553		13.2	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.08	2549.50	40185	0.0	15.70	14.48	1	50	Bottom	0	N/A	0.633	0.189	1.324	0.838	0.250	0.524		13.5	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	-0.01	2593.00	40620	0.0	15.70	14.49	1	50	Bottom	0	N/A	0.672	0.206	1.321	0.888	0.272	0.555		13.2	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.00	2636.50	41055	0.0	15.70	14.50	1	99	Bottom	0	N/A	0.633	0.193	1.318	0.834	0.254	0.521		13.5	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.12	2680.00	41490	0.0	15.70	14.57	1	99	Bottom	0	N/A	0.686	0.208	1.297	0.890	0.270	0.556		13.2	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.01	2506.00	39750	0.0	15.70	14.57	50	0	Bottom	0	N/A	0.744	0.240	1.297	0.965	0.311	0.603		12.9	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.01	2506.00	39750	0.0	15.70	14.52	50	50	Bottom	0	N/A	0.730	0.235	1.312	0.958	0.308	0.599		12.9	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:2.31	0.03	2506.00	39750	0.0	17.30	16.47	50	0	Bottom	0	N/A	0.770	0.247	1.211	0.932	0.299	0.583		13.0	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:2.31	0.07	2506.00	39750	0.0	17.30	16.41	50	50	Bottom	0	N/A	0.756	0.242	1.227	0.928	0.297	0.580		13.0	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.21	2549.50	40185	0.0	15.70	14.60	50	0	Bottom	0	N/A	0.689	0.211	1.288	0.887	0.272	0.554		13.2	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.00	2593.00	40620	0.0	15.70	14.60	50	25	Bottom	0	N/A	0.674	0.207	1.288	0.868	0.267	0.543		13.3	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.04	2636.50	41055	0.0	15.70	14.59	50	25	Bottom	0	N/A	0.640	0.194	1.291	0.826	0.250	0.516		13.5	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.02	2680.00	41490	0.0	15.70	14.61	50	25	Bottom	0	N/A	0.652	0.203	1.285	0.838	0.261	0.524		13.5	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	-0.01	2680.00	41490	0.0	15.70	14.56	100	0	Bottom	0	N/A	0.671	0.205	1.300	0.872	0.267	0.545		13.3	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.06	2680.00	41490	0.0	15.70	14.57	1	99	Right	0	N/A	0.006	0.000	1.297	0.008	0.000	0.005		33.8	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.08	2680.00	41490	0.0	15.70	14.61	50	25	Right	0	N/A	0.003	0.001	1.285	0.004	0.001	0.003		36.8	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.04	2680.00	41490	0.0	15.70	14.57	1	99	Left	0	N/A	0.019	0.012	1.297	0.025	0.016	0.016		28.8	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.20	2680.00	41490	0.0	15.70	14.61	50	25	Left	0	N/A	0.018	0.012	1.285	0.023	0.015	0.014		29.1	
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:1.58	0.04	2506.00	39750	0.0	15.70	14.67	50	50	Bottom	0	ULCA 41C	0.759	0.243	1.268	0.962	0.308	0.601		12.9	
		20						2525.80	39948				50	0												
Body	LTE Band 41	20	QPSK	1b	M7K2F	1:2.31	0.05	2506.00	39750	0.0	17.30	16.62	50	50	Bottom	0	ULCA 41C	0.787	0.252	1.169	0.920	0.295	0.575		13.0	
		20						2525.80	39948				50	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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	-0.04	2506.00	39750	0.0	16.30	15.24	1	50	Back	0	N/A	0.671	0.258	1.276	0.856	0.329	0.535		14.0	13.4
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	0.02	2549.50	40185	0.0	16.30	15.28	1	99	Back	0	N/A	0.743	0.280	1.265	0.940	0.354	0.588		13.6	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	0.01	2593.00	40620	0.0	16.30	15.40	1	99	Back	0	N/A	0.752	0.285	1.230	0.925	0.351	0.578		13.6	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	-0.08	2636.50	41055	0.0	16.30	15.29	1	99	Back	0	N/A	0.699	0.264	1.262	0.882	0.333	0.551		13.8	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	0.01	2680.00	41490	0.0	16.30	15.03	1	99	Back	0	N/A	0.702	0.260	1.340	0.941	0.348	0.588		13.6	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	-0.13	2680.00	41490	0.0	16.30	14.91	1	0	Back	0	N/A	0.703	0.261	1.377	0.968	0.359	0.605		13.4	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:2.31	-0.09	2680.00	41490	0.0	17.90	16.71	1	99	Back	0	N/A	0.699	0.261	1.315	0.919	0.343	0.574		13.6	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:2.31	-0.09	2680.00	41490	0.0	17.90	16.67	1	0	Back	0	N/A	0.696	0.260	1.327	0.924	0.345	0.578		13.6	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	-0.06	2506.00	39750	0.0	16.30	15.46	50	25	Back	0	N/A	0.673	0.258	1.213	0.816	0.313	0.510		14.2	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	0.07	2549.50	40185	0.0	16.30	15.39	50	0	Back	0	N/A	0.742	0.283	1.233	0.915	0.349	0.572		13.7	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	-0.09	2593.00	40620	0.0	16.30	15.47	50	25	Back	0	N/A	0.772	0.293	1.211	0.935	0.355	0.584		13.6	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	-0.05	2636.50	41055	0.0	16.30	15.30	50	25	Back	0	N/A	0.722	0.272	1.259	0.909	0.342	0.568		13.7	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	-0.09	2680.00	41490	0.0	16.30	15.19	50	25	Back	0	N/A	0.717	0.266	1.291	0.926	0.343	0.579		13.6	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	-0.07	2506.00	39750	0.0	16.30	15.37	100	0	Back	0	N/A	0.653	0.253	1.239	0.809	0.313	0.506		14.2	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	0.08	2593.00	40620	0.0	16.30	15.40	1	99	Top	0	N/A	0.001	0.000	1.230	0.001	0.000	0.001		42.4	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	0.06	2593.00	40620	0.0	16.30	15.47	50	25	Top	0	N/A	0.001	0.000	1.211	0.001	0.000	0.001		42.5	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	0.02	2593.00	40620	0.0	16.30	15.40	1	99	Bottom	0	N/A	0.460	0.145	1.230	0.566	0.178	0.354		15.8	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	0.01	2593.00	40620	0.0	16.30	15.47	50	25	Bottom	0	N/A	0.470	0.148	1.211	0.569	0.179	0.356		15.7	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	-0.07	2593.00	40620	0.0	16.30	15.40	1	99	Right	0	N/A	0.015	0.005	1.230	0.018	0.006	0.011		30.6	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	0.17	2593.00	40620	0.0	16.30	15.47	50	25	Right	0	N/A	0.017	0.006	1.211	0.021	0.007	0.013		30.2	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	0.01	2593.00	40620	0.0	16.30	15.40	1	99	Left	0	N/A	0.014	0.004	1.230	0.017	0.005	0.011		30.9	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	0.09	2593.00	40620	0.0	16.30	15.47	50	25	Left	0	N/A	0.015	0.005	1.211	0.018	0.006	0.011		30.7	
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:1.58	-0.04	2680.00	41490	0.0	16.30	15.19	1	0	Back	0	ULCA 41C	0.751	0.280	1.291	0.970	0.361	0.606		13.4	
		20						2660.20	41292				1	99												
Body	LTE Band 41	20	QPSK	2b	M7K2F	1:2.31	-0.05	2680.00	41490	0.0	17.90	16.70	1	0	Back	0	ULCA 41C	0.714	0.265	1.318	0.941	0.349	0.588		13.5	
		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

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Table 10-41 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.04	2549.50	40185	0.0	13.80	13.17	1	50	Back	0	N/A	0.427	0.191	1.156	0.494	0.221	0.309		13.9	10.8
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.06	2549.50	40185	0.0	13.80	13.23	50	0	Back	0	N/A	0.449	0.200	1.140	0.512	0.228	0.320		13.7	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.01	2549.50	40185	0.0	13.80	13.17	1	50	Top	0	N/A	0.291	0.092	1.156	0.336	0.106	0.210		15.5	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.01	2549.50	40185	0.0	13.80	13.23	50	0	Top	0	N/A	0.291	0.092	1.140	0.332	0.105	0.208		15.6	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.01	2549.50	40185	0.0	13.80	13.17	1	50	Bottom	0	N/A	0.016	0.006	1.156	0.018	0.007	0.011		28.1	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.09	2549.50	40185	0.0	13.80	13.23	50	0	Bottom	0	N/A	0.018	0.007	1.140	0.021	0.008	0.013		27.7	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.04	2506.00	39750	0.0	13.80	13.07	1	0	Right	0	N/A	0.718	0.260	1.183	0.849	0.308	0.531		11.5	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.06	2549.50	40185	0.0	13.80	13.17	1	50	Right	0	N/A	0.744	0.262	1.156	0.860	0.303	0.538		11.5	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.01	2593.00	40620	0.0	13.80	12.75	1	0	Right	0	N/A	0.755	0.257	1.274	0.962	0.327	0.601		10.8	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.03	2636.50	41055	0.0	13.80	12.75	1	0	Right	0	N/A	0.777	0.262	1.274	0.990	0.334	0.619		10.8	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:2.31	0.00	2636.50	41055	0.0	15.40	14.34	1	0	Right	0	N/A	0.770	0.266	1.276	0.983	0.339	0.614		10.8	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.09	2680.00	41490	0.0	13.80	12.59	1	0	Right	0	N/A	0.736	0.246	1.321	0.972	0.325	0.608		10.9	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.08	2506.00	39750	0.0	13.80	13.14	50	0	Right	0	N/A	0.788	0.284	1.164	0.917	0.331	0.573		11.2	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.03	2549.50	40185	0.0	13.80	13.23	50	0	Right	0	N/A	0.758	0.270	1.140	0.864	0.308	0.540		11.4	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.02	2593.00	40620	0.0	13.80	12.78	50	50	Right	0	N/A	0.767	0.261	1.265	0.970	0.330	0.606		10.9	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.03	2636.50	41055	0.0	13.80	12.75	50	50	Right	0	N/A	0.771	0.260	1.274	0.982	0.331	0.614		10.9	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.07	2680.00	41490	0.0	13.80	12.66	50	25	Right	0	N/A	0.740	0.248	1.300	0.962	0.322	0.601		11.0	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.05	2549.50	40185	0.0	13.80	13.08	100	0	Right	0	N/A	0.824	0.292	1.180	0.972	0.345	0.608	A14	10.9	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.01	2549.50	40185	0.0	13.80	13.17	1	50	Left	0	N/A	0.003	0.000	1.156	0.003	0.000	0.002		35.4	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.01	2549.50	40185	0.0	13.80	13.23	50	0	Left	0	N/A	0.003	0.000	1.140	0.003	0.000	0.002		35.5	
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:1.58	0.08	2636.50	41055	0.0	13.80	12.48	1	0	Right	0	ULCA 41C	0.730	0.244	1.355	0.989	0.331	0.618		10.8	
		20						2616.70	40857				1	99												
Body	LTE Band 41	20	QPSK	3a	LIQPD	1:2.31	-0.05	2636.50	41055	0.0	15.40	14.08	1	0	Right	0	ULCA 41C	0.728	0.248	1.355	0.986	0.336	0.616		10.8	
		20						2616.70	40857				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 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.06	2506.00	39750	0.0	14.90	14.12	1	50	Back	0	N/A	0.780	0.273	1.197	0.934	0.327	0.584		12.2	12.0
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.03	2549.50	40185	0.0	14.90	14.15	1	50	Back	0	N/A	0.778	0.271	1.189	0.925	0.322	0.578		12.2	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.07	2593.00	40620	0.0	14.90	13.91	1	50	Back	0	N/A	0.728	0.255	1.256	0.914	0.320	0.571		12.3	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.06	2636.50	41055	0.0	14.90	13.93	1	0	Back	0	N/A	0.689	0.242	1.250	0.861	0.303	0.538		12.5	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.08	2680.00	41490	0.0	14.90	13.74	1	50	Back	0	N/A	0.632	0.222	1.306	0.825	0.290	0.516		12.7	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.08	2506.00	39750	0.0	14.90	14.16	50	0	Back	0	N/A	0.799	0.280	1.186	0.948	0.332	0.593		12.1	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.08	2549.50	40185	0.0	14.90	14.20	50	25	Back	0	N/A	0.769	0.269	1.175	0.904	0.316	0.565		12.3	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.04	2593.00	40620	0.0	14.90	14.02	50	50	Back	0	N/A	0.727	0.254	1.225	0.891	0.311	0.557		12.4	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.02	2636.50	41055	0.0	14.90	14.01	50	25	Back	0	N/A	0.685	0.241	1.227	0.840	0.296	0.525		12.6	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.07	2680.00	41490	0.0	14.90	13.86	50	25	Back	0	N/A	0.637	0.224	1.271	0.810	0.285	0.506		12.8	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.05	2549.50	40185	0.0	14.90	14.14	100	0	Back	0	N/A	0.771	0.269	1.191	0.918	0.320	0.574		12.3	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	-0.03	2549.50	40185	0.0	14.90	14.15	1	50	Top	0	N/A	0.446	0.162	1.189	0.530	0.193	0.331		14.7	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	-0.01	2549.50	40185	0.0	14.90	14.20	50	25	Top	0	N/A	0.449	0.165	1.175	0.528	0.194	0.330		14.7	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.12	2549.50	40185	0.0	14.90	14.15	1	50	Bottom	0	N/A	0.010	0.004	1.189	0.012	0.005	0.008		31.1	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.03	2549.50	40185	0.0	14.90	14.20	50	25	Bottom	0	N/A	0.011	0.005	1.175	0.013	0.006	0.008		30.8	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.01	2549.50	40185	0.0	14.90	14.15	1	50	Right	0	N/A	0.010	0.004	1.189	0.012	0.005	0.008		31.1	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.02	2549.50	40185	0.0	14.90	14.20	50	25	Right	0	N/A	0.010	0.004	1.175	0.012	0.005	0.008		31.2	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	-0.11	2506.00	39750	0.0	14.90	14.12	1	50	Left	0	N/A	0.685	0.226	1.197	0.820	0.271	0.513		12.8	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.05	2549.50	40185	0.0	14.90	14.15	1	50	Left	0	N/A	0.697	0.227	1.189	0.829	0.270	0.518		12.7	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.00	2593.00	40620	0.0	14.90	13.91	1	50	Left	0	N/A	0.698	0.226	1.256	0.877	0.284	0.548		12.5	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	-0.01	2636.50	41055	0.0	14.90	13.93	1	0	Left	0	N/A	0.717	0.231	1.250	0.896	0.289	0.560		12.4	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	-0.07	2680.00	41490	0.0	14.90	13.74	1	50	Left	0	N/A	0.745	0.233	1.306	0.973	0.304	0.608		12.0	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	-0.01	2680.00	41490	0.0	14.90	13.68	1	0	Left	0	N/A	0.732	0.230	1.324	0.969	0.305	0.606		12.0	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:2.31	0.00	2680.00	41490	0.0	16.50	15.32	1	50	Left	0	N/A	0.670	0.210	1.312	0.879	0.276	0.549		12.4	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:2.31	0.04	2680.00	41490	0.0	16.50	15.30	1	0	Left	0	N/A	0.675	0.212	1.318	0.890	0.279	0.556		12.4	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	-0.01	2506.00	39750	0.0	14.90	14.16	50	0	Left	0	N/A	0.695	0.231	1.186	0.824	0.274	0.515		12.7	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	-0.01	2549.50	40185	0.0	14.90	14.20	50	25	Left	0	N/A	0.701	0.229	1.175	0.824	0.269	0.515		12.7	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.03	2593.00	40620	0.0	14.90	14.02	50	50	Left	0	N/A	0.696	0.218	1.225	0.853	0.267	0.533		12.6	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.04	2636.50	41055	0.0	14.90	14.01	50	25	Left	0	N/A	0.724	0.232	1.227	0.888	0.285	0.555		12.4	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	0.00	2680.00	41490	0.0	14.90	13.86	50	25	Left	0	N/A	0.752	0.236	1.271	0.956	0.300	0.598		12.1	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	-0.01	2549.50	40185	0.0	14.90	14.14	100	0	Left	0	N/A	0.669	0.210	1.191	0.797	0.250	0.498		12.9	
Body	LTE Band 41	20	QPSK	4	CVDXI	1:1.58	-0.01	2680.00	41490	0.0	14.90	14.01	1	0	Left	0	ULCA 41C	0.764	0.239	1.227	0.937	0.293	0.586		12.2	
		20						2660.20	41292				1	99												
Body	LTE Band 41	20	QPSK	4	CVDXI	1:2.31	-0.02	2680.00	41490	0.0	16.50	15.34	1	0	Left	0	ULCA 41C	0.713	0.223	1.306	0.931	0.291	0.582		12.2	
		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

10.15 LTE Band 48 Standalone SAR

Table 10-43 Antenna 1a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.00	3560.00	55340	0.0	13.50	12.36	1	50	Back	0	N/A	0.610	0.184	1.300	0.793	0.239	0.496		11.5	10.6
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	-0.02	3603.30	55773	0.0	13.50	12.43	1	50	Back	0	N/A	0.668	0.200	1.279	0.854	0.256	0.534		11.2	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.00	3646.70	56207	0.0	13.50	12.30	1	50	Back	0	N/A	0.635	0.188	1.318	0.837	0.248	0.523		11.3	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.01	3690.00	56640	0.0	13.50	12.40	1	50	Back	0	N/A	0.558	0.162	1.288	0.719	0.209	0.449		11.9	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.00	3560.00	55340	0.0	13.50	12.46	50	50	Back	0	N/A	0.638	0.192	1.271	0.811	0.244	0.507		11.4	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.00	3603.30	55773	0.0	13.50	12.47	50	25	Back	0	N/A	0.690	0.207	1.268	0.875	0.262	0.547		11.1	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.01	3646.70	56207	0.0	13.50	12.42	50	25	Back	0	N/A	0.652	0.194	1.282	0.836	0.249	0.523		11.3	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	-0.01	3690.00	56640	0.0	13.50	12.46	50	25	Back	0	N/A	0.559	0.163	1.271	0.710	0.207	0.444		12.0	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	-0.01	3603.30	55773	0.0	13.50	12.42	100	0	Back	0	N/A	0.690	0.207	1.282	0.885	0.265	0.553		11.0	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.01	3603.30	55773	0.0	13.50	12.43	1	50	Top	0	N/A	0.002	0.000	1.279	0.003	0.000	0.002		36.4	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.06	3603.30	55773	0.0	13.50	12.47	50	25	Top	0	N/A	0.002	0.000	1.268	0.003	0.000	0.002		36.5	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.00	3603.30	55773	0.0	13.50	12.43	1	50	Bottom	0	N/A	0.228	0.064	1.279	0.292	0.082	0.183		15.8	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	-0.04	3603.30	55773	0.0	13.50	12.47	50	25	Bottom	0	N/A	0.236	0.066	1.268	0.299	0.084	0.187		15.7	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.07	3603.30	55773	0.0	13.50	12.43	1	50	Right	0	N/A	0.000	0.000	1.279	0.000	0.000	0.000		49.4	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.02	3603.30	55773	0.0	13.50	12.47	50	25	Right	0	N/A	0.000	0.000	1.268	0.000	0.000	0.000		49.5	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.09	3560.00	55340	0.0	13.50	12.36	1	50	Left	0	N/A	0.648	0.177	1.300	0.842	0.230	0.526		11.2	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	-0.01	3603.30	55773	0.0	13.50	12.43	1	50	Left	0	N/A	0.727	0.193	1.279	0.930	0.247	0.581		10.8	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.06	3646.70	56207	0.0	13.50	12.30	1	50	Left	0	N/A	0.672	0.178	1.318	0.886	0.235	0.554		11.0	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	-0.02	3690.00	56640	0.0	13.50	12.40	1	50	Left	0	N/A	0.586	0.152	1.288	0.755	0.196	0.472		11.7	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.05	3560.00	55340	0.0	13.50	12.46	50	50	Left	0	N/A	0.705	0.189	1.271	0.896	0.240	0.560		11.0	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.02	3603.30	55773	0.0	13.50	12.44	50	50	Left	0	N/A	0.747	0.199	1.276	0.953	0.254	0.596		10.7	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.04	3603.30	55773	0.0	13.50	12.47	50	25	Left	0	N/A	0.770	0.204	1.268	0.976	0.259	0.610		10.6	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.02	3646.70	56207	0.0	13.50	12.42	50	25	Left	0	N/A	0.698	0.183	1.282	0.895	0.235	0.559		11.0	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.03	3690.00	56640	0.0	13.50	12.46	50	25	Left	0	N/A	0.583	0.151	1.271	0.741	0.192	0.463		11.8	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	-0.02	3603.30	55773	0.0	13.50	12.42	100	0	Left	0	N/A	0.758	0.201	1.282	0.972	0.258	0.608		10.6	
Body	LTE Band 48	20	QPSK	1a	11QDX	1:1.58	0.02	3603.30	55773	0.0	13.50	12.70	50	50	Left	0	ULCA 48C	0.805	0.214	1.202	0.968	0.257	0.605	A15	10.6	
		20						3623.10	55971				50	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 10-44 Antenna 2a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	-0.05	3560.00	55340	0.0	11.00	9.56	1	99	Back	0	N/A	0.692	0.239	1.393	0.964	0.333	0.603		8.2	8.1
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	0.01	3603.30	55773	0.0	11.00	9.57	1	99	Back	0	N/A	0.650	0.200	1.390	0.904	0.278	0.565		8.4	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	0.17	3646.70	56207	0.0	11.00	9.64	1	99	Back	0	N/A	0.689	0.237	1.368	0.943	0.324	0.589		8.3	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	-0.04	3690.00	56640	0.0	11.00	9.59	1	50	Back	0	N/A	0.679	0.236	1.384	0.940	0.327	0.588		8.3	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	-0.04	3560.00	55340	0.0	11.00	9.53	50	50	Back	0	N/A	0.699	0.218	1.403	0.981	0.306	0.613		8.1	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	-0.05	3603.30	55773	0.0	11.00	9.61	50	50	Back	0	N/A	0.682	0.211	1.377	0.939	0.291	0.587		8.3	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	-0.06	3646.70	56207	0.0	11.00	9.68	50	50	Back	0	N/A	0.707	0.216	1.355	0.958	0.293	0.599		8.2	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	-0.04	3690.00	56640	0.0	11.00	9.51	50	25	Back	0	N/A	0.685	0.240	1.409	0.965	0.338	0.603		8.1	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	0.06	3646.70	56207	0.0	11.00	9.59	100	0	Back	0	N/A	0.682	0.230	1.384	0.916	0.318	0.573		8.4	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	0.07	3646.70	56207	0.0	11.00	9.64	1	99	Top	0	N/A	0.003	0.000	1.368	0.004	0.000	0.003		31.9	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	0.01	3646.70	56207	0.0	11.00	9.68	50	50	Top	0	N/A	0.001	0.000	1.355	0.001	0.000	0.001		36.7	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	0.08	3646.70	56207	0.0	11.00	9.64	1	99	Bottom	0	N/A	0.236	0.091	1.368	0.323	0.124	0.202		12.9	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	-0.14	3646.70	56207	0.0	11.00	9.68	50	50	Bottom	0	N/A	0.239	0.093	1.355	0.324	0.126	0.203		12.9	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	0.05	3560.00	55340	0.0	11.00	9.56	1	99	Right	0	N/A	0.566	0.181	1.393	0.788	0.252	0.493		9.0	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	0.00	3603.30	55773	0.0	11.00	9.57	1	99	Right	0	N/A	0.549	0.175	1.390	0.763	0.243	0.477		9.2	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	0.03	3646.70	56207	0.0	11.00	9.64	1	99	Right	0	N/A	0.562	0.178	1.368	0.769	0.244	0.481		9.1	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	-0.07	3690.00	56640	0.0	11.00	9.59	1	50	Right	0	N/A	0.566	0.177	1.384	0.783	0.245	0.489		9.1	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	-0.09	3560.00	55340	0.0	11.00	9.53	50	50	Right	0	N/A	0.574	0.183	1.403	0.805	0.257	0.503		8.9	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	-0.15	3603.30	55773	0.0	11.00	9.61	50	50	Right	0	N/A	0.549	0.173	1.377	0.756	0.238	0.473		9.2	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	0.02	3646.70	56207	0.0	11.00	9.68	50	50	Right	0	N/A	0.562	0.176	1.355	0.762	0.238	0.476		9.2	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	0.08	3690.00	56640	0.0	11.00	9.51	50	25	Right	0	N/A	0.583	0.181	1.409	0.821	0.255	0.513		8.9	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	0.05	3646.70	56207	0.0	11.00	9.59	100	0	Right	0	N/A	0.562	0.149	1.384	0.778	0.206	0.486		9.1	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	0.07	3646.70	56207	0.0	11.00	9.64	1	99	Left	0	N/A	0.000	0.000	1.368	0.000	0.000	0.000		46.6	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	0.09	3646.70	56207	0.0	11.00	9.68	50	50	Left	0	N/A	0.000	0.000	1.355	0.000	0.000	0.000		46.7	
Body	LTE Band 48	20	QPSK	2a	HH9X5	1:1.58	-0.13	3560.00	55340	0.0	11.00	9.30	50	50	Back	0	ULCA 48C	0.638	0.218	1.479	0.944	0.322	0.590		8.2	
		20						3579.80	55538				50	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 10-45 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.01	3560.00	55340	0.0	14.90	13.63	1	99	Back	0	N/A	0.609	0.183	1.340	0.816	0.245	0.510		12.8	12.3
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.00	3603.30	55773	0.0	14.90	13.75	1	50	Back	0	N/A	0.590	0.182	1.303	0.769	0.237	0.481		13.0	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	-0.01	3646.70	56207	0.0	14.90	13.59	1	50	Back	0	N/A	0.570	0.176	1.352	0.771	0.238	0.482		13.0	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	-0.02	3690.00	56640	0.0	14.90	13.68	1	50	Back	0	N/A	0.625	0.199	1.324	0.828	0.263	0.518		12.7	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	-0.02	3560.00	55340	0.0	14.90	13.76	50	25	Back	0	N/A	0.626	0.190	1.300	0.814	0.247	0.509		12.8	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.01	3603.30	55773	0.0	14.90	13.83	50	25	Back	0	N/A	0.598	0.185	1.279	0.765	0.237	0.478		13.1	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	-0.04	3646.70	56207	0.0	14.90	13.69	50	25	Back	0	N/A	0.561	0.176	1.321	0.741	0.232	0.463		13.2	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	-0.02	3690.00	56640	0.0	14.90	13.72	50	25	Back	0	N/A	0.634	0.200	1.312	0.832	0.262	0.520		12.7	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.04	3603.30	55773	0.0	14.90	13.74	100	0	Back	0	N/A	0.628	0.194	1.306	0.820	0.253	0.513		12.8	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.09	3560.00	55340	0.0	14.90	13.63	1	99	Top	0	N/A	0.650	0.204	1.340	0.871	0.273	0.544		12.5	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.01	3603.30	55773	0.0	14.90	13.75	1	50	Top	0	N/A	0.643	0.206	1.303	0.838	0.268	0.524		12.7	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.02	3646.70	56207	0.0	14.90	13.59	1	50	Top	0	N/A	0.647	0.201	1.352	0.875	0.272	0.547		12.5	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.05	3690.00	56640	0.0	14.90	13.68	1	50	Top	0	N/A	0.644	0.195	1.324	0.853	0.258	0.533		12.6	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.02	3560.00	55340	0.0	14.90	13.76	50	25	Top	0	N/A	0.637	0.188	1.300	0.828	0.244	0.518		12.7	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.01	3603.30	55773	0.0	14.90	13.83	50	25	Top	0	N/A	0.657	0.210	1.279	0.840	0.269	0.525		12.7	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.06	3646.70	56207	0.0	14.90	13.69	50	25	Top	0	N/A	0.644	0.200	1.321	0.851	0.264	0.532		12.6	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.05	3690.00	56640	0.0	14.90	13.72	50	25	Top	0	N/A	0.694	0.208	1.312	0.911	0.273	0.569		12.3	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.04	3690.00	56640	0.0	14.90	13.68	50	0	Top	0	N/A	0.690	0.217	1.324	0.914	0.287	0.571		12.3	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.03	3603.30	55773	0.0	14.90	13.74	100	0	Top	0	N/A	0.614	0.181	1.306	0.802	0.236	0.501		12.9	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.09	3603.30	55773	0.0	14.90	13.75	1	50	Bottom	0	N/A	0.001	0.000	1.303	0.001	0.000	0.001		40.7	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.05	3603.30	55773	0.0	14.90	13.83	50	25	Bottom	0	N/A	0.001	0.000	1.279	0.001	0.000	0.001		40.8	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.08	3603.30	55773	0.0	14.90	13.75	1	50	Right	0	N/A	0.047	0.010	1.303	0.061	0.013	0.038		24.0	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.07	3603.30	55773	0.0	14.90	13.83	50	25	Right	0	N/A	0.047	0.010	1.279	0.060	0.013	0.038		24.1	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.06	3603.30	55773	0.0	14.90	13.75	1	50	Left	0	N/A	0.018	0.008	1.303	0.023	0.010	0.014		28.2	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.07	3603.30	55773	0.0	14.90	13.83	50	25	Left	0	N/A	0.016	0.005	1.279	0.020	0.006	0.013		28.8	
Body	LTE Band 48	20	QPSK	3b	2N1FD	1:1.58	0.04	3690.00	56640	0.0	14.90	13.96	50	0	Top	0	ULCA 48C	0.722	0.227	1.242	0.897	0.282	0.561		12.4	
		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 10-46 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	-0.08	3560.00	55340	0.0	14.50	13.34	1	50	Back	0	N/A	0.549	0.167	1.306	0.717	0.218	0.448		12.9	11.6
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	-0.02	3603.30	55773	0.0	14.50	13.49	1	50	Back	0	N/A	0.758	0.226	1.262	0.957	0.285	0.598		11.7	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	0.04	3646.70	56207	0.0	14.50	13.30	1	50	Back	0	N/A	0.729	0.217	1.318	0.961	0.286	0.601		11.7	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	0.04	3690.00	56640	0.0	14.50	13.37	1	50	Back	0	N/A	0.538	0.161	1.297	0.698	0.209	0.436		13.1	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	0.04	3560.00	55340	0.0	14.50	13.49	50	25	Back	0	N/A	0.561	0.171	1.262	0.708	0.216	0.443		13.0	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	-0.01	3603.30	55773	0.0	14.50	13.50	50	25	Back	0	N/A	0.776	0.231	1.259	0.977	0.291	0.611		11.6	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	-0.02	3603.30	55773	0.0	14.50	13.49	50	50	Back	0	N/A	0.715	0.212	1.262	0.902	0.268	0.564		11.9	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	0.17	3646.70	56207	0.0	14.50	13.44	50	25	Back	0	N/A	0.655	0.197	1.276	0.836	0.251	0.523		12.3	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	0.08	3690.00	56640	0.0	14.50	13.49	50	25	Back	0	N/A	0.540	0.162	1.262	0.681	0.204	0.426		13.2	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	0.00	3603.30	55773	0.0	14.50	13.48	100	0	Back	0	N/A	0.770	0.230	1.265	0.974	0.291	0.609		11.6	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	0.10	3603.30	55773	0.0	14.50	13.49	1	50	Top	0	N/A	0.196	0.064	1.262	0.247	0.081	0.154		17.6	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	0.02	3603.30	55773	0.0	14.50	13.50	50	25	Top	0	N/A	0.202	0.066	1.259	0.254	0.083	0.159		17.4	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	0.09	3603.30	55773	0.0	14.50	13.49	1	50	Bottom	0	N/A	0.004	0.001	1.262	0.005	0.001	0.003		34.5	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	0.08	3603.30	55773	0.0	14.50	13.50	50	25	Bottom	0	N/A	0.003	0.000	1.259	0.004	0.000	0.003		35.7	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	0.10	3603.30	55773	0.0	14.50	13.49	1	50	Right	0	N/A	0.000	0.000	1.262	0.000	0.000	0.000		50.5	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	0.02	3603.30	55773	0.0	14.50	13.50	50	25	Right	0	N/A	0.000	0.000	1.259	0.000	0.000	0.000		50.5	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	-0.13	3603.30	55773	0.0	14.50	13.49	1	50	Left	0	N/A	0.380	0.103	1.262	0.480	0.130	0.300		14.7	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	-0.06	3603.30	55773	0.0	14.50	13.50	50	25	Left	0	N/A	0.390	0.106	1.259	0.491	0.133	0.307		14.6	
Body	LTE Band 48	20	QPSK	4	971RF	1:1.58	-0.02	3603.30	55773	0.0	14.50	13.41	50	50	Back	0	ULCA 48C	0.675	0.200	1.285	0.867	0.257	0.542		12.1	
		20						3623.10	55971				50	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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10.16 NR Band n71 Standalone SAR

Table 10-47 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n71	20	QPSK	3b	QQGXD	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	18.10	17.76	1	53	Back	0	0.859	0.413	1.081	0.929	0.446	0.581		17.7	17.5
Body	NR Band n71	20	QPSK	3b	QQGXD	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	18.10	17.71	50	28	Back	0	0.759	0.374	1.094	0.830	0.409	0.519		18.2	
Body	NR Band n71	20	QPSK	3b	QQGXD	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	18.10	17.67	100	0	Back	0	0.616	0.300	1.104	0.680	0.331	0.425		19.1	
Body	NR Band n71	20	QPSK	3b	QQGXD	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	18.10	17.76	1	53	Top	0	0.867	0.374	1.081	0.937	0.404	0.586		17.7	
Body	NR Band n71	20	QPSK	3b	QQGXD	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	18.10	17.71	50	28	Top	0	0.788	0.336	1.094	0.862	0.368	0.539		18.0	
Body	NR Band n71	20	QPSK	3b	QQGXD	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	18.10	17.67	100	0	Top	0	0.654	0.281	1.104	0.722	0.310	0.451		18.8	
Body	NR Band n71	20	QPSK	3b	QQGXD	1:1	-0.08	680.50	136100	CP-OFDM	0.0	18.10	17.77	1	1	Top	0	0.898	0.385	1.079	0.969	0.415	0.606		17.5	
Body	NR Band n71	20	QPSK	3b	QQGXD	1:1	0.01	680.50	136100	CP-OFDM	0.0	18.10	17.77	1	1	Top	0	0.910	0.381	1.079	0.982	0.411	0.614	A16	17.5	
Body	NR Band n71	20	QPSK	3b	QQGXD	1:1	0.09	680.50	136100	DFT-s-OFDM	0.0	18.10	17.76	1	53	Bottom	0	0.007	0.003	1.081	0.008	0.003	0.005		38.6	
Body	NR Band n71	20	QPSK	3b	QQGXD	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	18.10	17.71	50	28	Bottom	0	0.009	0.003	1.094	0.010	0.003	0.006		37.5	
Body	NR Band n71	20	QPSK	3b	QQGXD	1:1	-0.07	680.50	136100	DFT-s-OFDM	0.0	18.10	17.76	1	53	Right	0	0.156	0.071	1.081	0.169	0.077	0.106		25.1	
Body	NR Band n71	20	QPSK	3b	QQGXD	1:1	-0.07	680.50	136100	DFT-s-OFDM	0.0	18.10	17.71	50	28	Right	0	0.127	0.058	1.094	0.139	0.063	0.087		26.0	
Body	NR Band n71	20	QPSK	3b	QQGXD	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	18.10	17.76	1	53	Left	0	0.045	0.018	1.081	0.049	0.019	0.031		30.5	
Body	NR Band n71	20	QPSK	3b	QQGXD	1:1	-0.13	680.50	136100	DFT-s-OFDM	0.0	18.10	17.71	50	28	Left	0	0.042	0.017	1.094	0.046	0.019	0.029		30.8	
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 10-48 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n71	20	QPSK	4	HH9X5	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	21.80	20.84	1	53	Back	0	0.761	0.352	1.247	0.949	0.439	0.593		21.0	20.8
Body	NR Band n71	20	QPSK	4	HH9X5	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	21.80	20.81	50	28	Back	0	0.767	0.350	1.256	0.963	0.440	0.602		20.9	
Body	NR Band n71	20	QPSK	4	HH9X5	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	21.80	20.80	100	0	Back	0	0.786	0.354	1.259	0.990	0.446	0.619		20.8	
Body	NR Band n71	20	QPSK	4	HH9X5	1:1	0.01	680.50	136100	CP-OFDM	0.0	21.80	20.96	1	1	Back	0	0.781	0.353	1.213	0.947	0.428	0.592		21.0	
Body	NR Band n71	20	QPSK	4	HH9X5	1:1	-0.10	680.50	136100	DFT-s-OFDM	0.0	21.80	20.84	1	53	Top	0	0.643	0.277	1.247	0.802	0.345	0.501		21.7	
Body	NR Band n71	20	QPSK	4	HH9X5	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	21.80	20.81	50	28	Top	0	0.667	0.284	1.256	0.838	0.357	0.524		21.5	
Body	NR Band n71	20	QPSK	4	HH9X5	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	21.80	20.80	100	0	Top	0	0.696	0.295	1.259	0.876	0.371	0.548		21.4	
Body	NR Band n71	20	QPSK	4	HH9X5	1:1	0.15	680.50	136100	DFT-s-OFDM	0.0	21.80	20.84	1	53	Bottom	0	0.014	0.006	1.247	0.017	0.007	0.011		38.4	
Body	NR Band n71	20	QPSK	4	HH9X5	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	21.80	20.81	50	28	Bottom	0	0.015	0.006	1.256	0.019	0.008	0.012		38.0	
Body	NR Band n71	20	QPSK	4	HH9X5	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	21.80	20.84	1	53	Right	0	0.083	0.034	1.247	0.104	0.042	0.065		30.6	
Body	NR Band n71	20	QPSK	4	HH9X5	1:1	-0.07	680.50	136100	DFT-s-OFDM	0.0	21.80	20.81	50	28	Right	0	0.075	0.031	1.256	0.094	0.039	0.059		31.0	
Body	NR Band n71	20	QPSK	4	HH9X5	1:1	-0.06	680.50	136100	DFT-s-OFDM	0.0	21.80	20.84	1	53	Left	0	0.762	0.276	1.247	0.950	0.344	0.594		21.0	
Body	NR Band n71	20	QPSK	4	HH9X5	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	21.80	20.81	50	28	Left	0	0.736	0.269	1.256	0.924	0.338	0.578		21.1	
Body	NR Band n71	20	QPSK	4	HH9X5	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	21.80	20.80	100	0	Left	0	0.782	0.278	1.259	0.985	0.350	0.616		20.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.17 NR Band n12 Standalone SAR

Table 10-49 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n12	15	QPSK	3b	QQGXD	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	17.80	17.34	1	1	Back	0	0.863	0.419	1.112	0.960	0.466	0.600		17.3	17.2
Body	NR Band n12	15	QPSK	3b	QQGXD	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	17.80	17.31	36	43	Back	0	0.840	0.404	1.119	0.940	0.452	0.588		17.4	
Body	NR Band n12	15	QPSK	3b	QQGXD	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	17.80	17.28	75	0	Back	0	0.791	0.376	1.127	0.891	0.424	0.557		17.6	
Body	NR Band n12	15	QPSK	3b	QQGXD	1:1	-0.06	707.50	141500	CP-OFDM	0.0	17.80	17.22	1	1	Back	0	0.857	0.413	1.143	0.980	0.472	0.613		17.2	
Body	NR Band n12	15	QPSK	3b	QQGXD	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	17.80	17.34	1	1	Top	0	0.842	0.363	1.112	0.936	0.404	0.585		17.4	
Body	NR Band n12	15	QPSK	3b	QQGXD	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	17.80	17.31	36	43	Top	0	0.801	0.344	1.119	0.896	0.385	0.560		17.6	
Body	NR Band n12	15	QPSK	3b	QQGXD	1:1	-0.08	707.50	141500	DFT-s-OFDM	0.0	17.80	17.28	75	0	Top	0	0.779	0.342	1.127	0.878	0.385	0.549		17.7	
Body	NR Band n12	15	QPSK	3b	QQGXD	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	17.80	17.34	1	1	Bottom	0	0.014	0.006	1.112	0.016	0.007	0.010		35.2	
Body	NR Band n12	15	QPSK	3b	QQGXD	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	17.80	17.31	36	43	Bottom	0	0.007	0.003	1.119	0.008	0.003	0.005		38.2	
Body	NR Band n12	15	QPSK	3b	QQGXD	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	17.80	17.34	1	1	Right	0	0.106	0.050	1.112	0.118	0.056	0.074		26.4	
Body	NR Band n12	15	QPSK	3b	QQGXD	1:1	-0.04	707.50	141500	DFT-s-OFDM	0.0	17.80	17.31	36	43	Right	0	0.080	0.038	1.119	0.090	0.043	0.056		27.6	
Body	NR Band n12	15	QPSK	3b	QQGXD	1:1	-0.11	707.50	141500	DFT-s-OFDM	0.0	17.80	17.34	1	1	Left	0	0.037	0.012	1.112	0.041	0.013	0.026		31.0	
Body	NR Band n12	15	QPSK	3b	QQGXD	1:1	-0.08	707.50	141500	DFT-s-OFDM	0.0	17.80	17.31	36	43	Left	0	0.032	0.011	1.119	0.036	0.012	0.023		31.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-50 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n12	15	QPSK	4	HH9X5	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	19.40	19.01	1	40	Back	0	0.891	0.401	1.094	0.975	0.439	0.609	A17	18.8	18.8
Body	NR Band n12	15	QPSK	4	HH9X5	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	19.40	18.99	36	22	Back	0	0.785	0.359	1.099	0.863	0.395	0.539		19.3	
Body	NR Band n12	15	QPSK	4	HH9X5	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	19.40	18.98	75	0	Back	0	0.798	0.365	1.102	0.879	0.402	0.549		19.3	
Body	NR Band n12	15	QPSK	4	HH9X5	1:1	0.02	707.50	141500	CP-OFDM	0.0	19.40	19.05	1	1	Back	0	0.838	0.386	1.084	0.908	0.418	0.568		19.1	
Body	NR Band n12	15	QPSK	4	HH9X5	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	19.40	19.01	1	40	Top	0	0.563	0.224	1.094	0.616	0.245	0.385		20.8	
Body	NR Band n12	15	QPSK	4	HH9X5	1:1	-0.09	707.50	141500	DFT-s-OFDM	0.0	19.40	18.99	36	22	Top	0	0.549	0.215	1.099	0.603	0.236	0.377		20.9	
Body	NR Band n12	15	QPSK	4	HH9X5	1:1	0.09	707.50	141500	DFT-s-OFDM	0.0	19.40	19.01	1	40	Bottom	0	0.016	0.006	1.094	0.018	0.007	0.011		36.3	
Body	NR Band n12	15	QPSK	4	HH9X5	1:1	0.06	707.50	141500	DFT-s-OFDM	0.0	19.40	18.99	36	22	Bottom	0	0.018	0.007	1.099	0.020	0.008	0.013		35.7	
Body	NR Band n12	15	QPSK	4	HH9X5	1:1	0.09	707.50	141500	DFT-s-OFDM	0.0	19.40	19.01	1	40	Right	0	0.029	0.012	1.094	0.032	0.013	0.020		33.7	
Body	NR Band n12	15	QPSK	4	HH9X5	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	19.40	18.99	36	22	Right	0	0.034	0.014	1.099	0.037	0.015	0.023		33.0	
Body	NR Band n12	15	QPSK	4	HH9X5	1:1	-0.13	707.50	141500	DFT-s-OFDM	0.0	19.40	19.01	1	40	Left	0	0.576	0.206	1.094	0.630	0.225	0.394		20.7	
Body	NR Band n12	15	QPSK	4	HH9X5	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	19.40	18.99	36	22	Left	0	0.576	0.205	1.099	0.633	0.225	0.396		20.7	
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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10.18 NR Band n14 Standalone SAR

Table 10-51 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n14	10	QPSK	3b	QQGXD	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	17.20	16.61	1	50	Back	0	0.716	0.344	1.146	0.821	0.394	0.513		17.4	16.5
Body	NR Band n14	10	QPSK	3b	QQGXD	1:1	0.07	793.00	158600	DFT-s-OFDM	0.0	17.20	16.57	25	14	Back	0	0.721	0.347	1.156	0.833	0.401	0.521		17.3	
Body	NR Band n14	10	QPSK	3b	QQGXD	1:1	0.06	793.00	158600	DFT-s-OFDM	0.0	17.20	16.46	50	0	Back	0	0.723	0.348	1.186	0.857	0.413	0.536		17.2	
Body	NR Band n14	10	QPSK	3b	QQGXD	1:1	0.02	793.00	158600	DFT-s-OFDM	0.0	17.20	16.61	1	50	Top	0	0.786	0.335	1.146	0.901	0.384	0.563		17.0	
Body	NR Band n14	10	QPSK	3b	QQGXD	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	17.20	16.57	25	14	Top	0	0.776	0.341	1.156	0.897	0.394	0.561		17.0	
Body	NR Band n14	10	QPSK	3b	QQGXD	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	17.20	16.46	50	0	Top	0	0.832	0.354	1.186	0.987	0.420	0.617		16.6	
Body	NR Band n14	10	QPSK	3b	QQGXD	1:1	-0.01	793.00	158600	CP-OFDM	0.0	17.20	16.50	1	1	Top	0	0.842	0.355	1.175	0.989	0.417	0.618	A18	16.5	
Body	NR Band n14	10	QPSK	3b	QQGXD	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	17.20	16.61	1	50	Bottom	0	0.007	0.002	1.146	0.008	0.002	0.005		37.5	
Body	NR Band n14	10	QPSK	3b	QQGXD	1:1	-0.20	793.00	158600	DFT-s-OFDM	0.0	17.20	16.57	25	14	Bottom	0	0.004	0.001	1.156	0.005	0.001	0.003		39.8	
Body	NR Band n14	10	QPSK	3b	QQGXD	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	17.20	16.61	1	50	Right	0	0.091	0.043	1.146	0.104	0.049	0.065		26.3	
Body	NR Band n14	10	QPSK	3b	QQGXD	1:1	0.06	793.00	158600	DFT-s-OFDM	0.0	17.20	16.57	25	14	Right	0	0.099	0.046	1.156	0.114	0.053	0.071		25.9	
Body	NR Band n14	10	QPSK	3b	QQGXD	1:1	-0.10	793.00	158600	DFT-s-OFDM	0.0	17.20	16.61	1	50	Left	0	0.016	0.007	1.146	0.018	0.008	0.011		33.9	
Body	NR Band n14	10	QPSK	3b	QQGXD	1:1	0.07	793.00	158600	DFT-s-OFDM	0.0	17.20	16.57	25	14	Left	0	0.018	0.008	1.156	0.021	0.009	0.013		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										

Table 10-52 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n14	10	QPSK	4	9QLN2	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	19.20	17.97	1	1	Back	0	0.613	0.286	1.327	0.813	0.380	0.508		19.1	18.3
Body	NR Band n14	10	QPSK	4	9QLN2	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	19.20	17.96	25	14	Back	0	0.549	0.255	1.330	0.730	0.339	0.456		19.5	
Body	NR Band n14	10	QPSK	4	9QLN2	1:1	0.05	793.00	158600	DFT-s-OFDM	0.0	19.20	17.93	50	0	Back	0	0.553	0.259	1.340	0.741	0.347	0.463		19.5	
Body	NR Band n14	10	QPSK	4	9QLN2	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	19.20	17.97	1	1	Top	0	0.678	0.269	1.327	0.900	0.357	0.563		18.6	
Body	NR Band n14	10	QPSK	4	9QLN2	1:1	-0.09	793.00	158600	DFT-s-OFDM	0.0	19.20	17.96	25	14	Top	0	0.633	0.252	1.330	0.842	0.335	0.526		18.9	
Body	NR Band n14	10	QPSK	4	9QLN2	1:1	0.13	793.00	158600	DFT-s-OFDM	0.0	19.20	17.93	50	0	Top	0	0.650	0.253	1.340	0.871	0.339	0.544		18.8	
Body	NR Band n14	10	QPSK	4	9QLN2	1:1	-0.09	793.00	158600	DFT-s-OFDM	0.0	19.20	17.97	1	1	Bottom	0	0.013	0.006	1.327	0.017	0.008	0.011		35.8	
Body	NR Band n14	10	QPSK	4	9QLN2	1:1	-0.17	793.00	158600	DFT-s-OFDM	0.0	19.20	17.96	25	14	Bottom	0	0.016	0.008	1.330	0.021	0.011	0.013		34.9	
Body	NR Band n14	10	QPSK	4	9QLN2	1:1	0.11	793.00	158600	DFT-s-OFDM	0.0	19.20	17.97	1	1	Right	0	0.023	0.010	1.327	0.031	0.013	0.019		33.3	
Body	NR Band n14	10	QPSK	4	9QLN2	1:1	0.09	793.00	158600	DFT-s-OFDM	0.0	19.20	17.96	25	14	Right	0	0.024	0.011	1.330	0.032	0.015	0.020		33.1	
Body	NR Band n14	10	QPSK	4	9QLN2	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	19.20	17.97	1	1	Left	0	0.728	0.253	1.327	0.966	0.336	0.604		18.3	
Body	NR Band n14	10	QPSK	4	9QLN2	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	19.20	17.96	25	14	Left	0	0.648	0.229	1.330	0.862	0.305	0.539		18.8	
Body	NR Band n14	10	QPSK	4	9QLN2	1:1	-0.11	793.00	158600	DFT-s-OFDM	0.0	19.20	17.93	50	0	Left	0	0.674	0.234	1.340	0.903	0.314	0.564		18.6	
Body	NR Band n14	10	QPSK	4	9QLN2	1:1	0.03	793.00	158600	CP-OFDM	0.0	19.20	17.83	1	1	Left	0	0.709	0.245	1.371	0.972	0.336	0.608		18.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.19 NR Band n26 Standalone SAR

Table 10-53 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n26	20	QPSK	3b	2N1FD	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	16.70	16.09	1	53	Back	0	0.701	0.348	1.151	0.807	0.401	0.504		16.9	16.1
Body	NR Band n26	20	QPSK	3b	2N1FD	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	16.70	16.12	50	0	Back	0	0.714	0.354	1.143	0.816	0.405	0.510		16.9	
Body	NR Band n26	20	QPSK	3b	2N1FD	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	16.70	16.03	100	0	Back	0	0.698	0.346	1.167	0.815	0.404	0.509		16.9	
Body	NR Band n26	20	QPSK	3b	2N1FD	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	16.70	16.09	1	53	Top	0	0.807	0.340	1.151	0.929	0.391	0.581		16.3	
Body	NR Band n26	20	QPSK	3b	2N1FD	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	16.70	16.12	50	0	Top	0	0.850	0.357	1.143	0.972	0.408	0.608	A19	16.1	
Body	NR Band n26	20	QPSK	3b	2N1FD	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	16.70	16.03	100	0	Top	0	0.827	0.351	1.167	0.965	0.410	0.603		16.1	
Body	NR Band n26	20	QPSK	3b	2N1FD	1:1	0.03	831.50	166300	CP-OFDM	0.0	16.70	15.96	1	1	Top	0	0.798	0.343	1.186	0.946	0.407	0.591		16.2	
Body	NR Band n26	20	QPSK	3b	2N1FD	1:1	0.08	831.50	166300	DFT-s-OFDM	0.0	16.70	16.09	1	53	Bottom	0	0.013	0.006	1.151	0.015	0.007	0.009		34.2	
Body	NR Band n26	20	QPSK	3b	2N1FD	1:1	0.09	831.50	166300	DFT-s-OFDM	0.0	16.70	16.12	50	0	Bottom	0	0.012	0.005	1.143	0.014	0.006	0.009		34.6	
Body	NR Band n26	20	QPSK	3b	2N1FD	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	16.70	16.09	1	53	Right	0	0.096	0.047	1.151	0.110	0.054	0.069		25.6	
Body	NR Band n26	20	QPSK	3b	2N1FD	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	16.70	16.12	50	0	Right	0	0.096	0.047	1.143	0.110	0.054	0.069		25.6	
Body	NR Band n26	20	QPSK	3b	2N1FD	1:1	-0.06	831.50	166300	DFT-s-OFDM	0.0	16.70	16.09	1	53	Left	0	0.018	0.008	1.151	0.021	0.009	0.013		32.8	
Body	NR Band n26	20	QPSK	3b	2N1FD	1:1	0.08	831.50	166300	DFT-s-OFDM	0.0	16.70	16.12	50	0	Left	0	0.020	0.008	1.143	0.023	0.009	0.014		32.4	
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 10-54 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n26	20	QPSK	4	2N1FD	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	18.70	18.13	1	53	Back	0	0.762	0.356	1.140	0.869	0.406	0.543		18.6	18.2
Body	NR Band n26	20	QPSK	4	2N1FD	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	18.70	18.10	50	28	Back	0	0.730	0.338	1.148	0.838	0.388	0.524		18.8	
Body	NR Band n26	20	QPSK	4	2N1FD	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	18.70	18.07	100	0	Back	0	0.737	0.342	1.156	0.852	0.395	0.533		18.7	
Body	NR Band n26	20	QPSK	4	2N1FD	1:1	0.03	831.50	166300	CP-OFDM	0.0	18.70	18.08	1	1	Back	0	0.833	0.388	1.153	0.960	0.447	0.600		18.2	
Body	NR Band n26	20	QPSK	4	2N1FD	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	18.70	18.13	1	53	Top	0	0.520	0.224	1.140	0.593	0.255	0.371		20.3	
Body	NR Band n26	20	QPSK	4	2N1FD	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	18.70	18.10	50	28	Top	0	0.533	0.228	1.148	0.612	0.262	0.383		20.1	
Body	NR Band n26	20	QPSK	4	2N1FD	1:1	0.20	831.50	166300	DFT-s-OFDM	0.0	18.70	18.13	1	53	Bottom	0	0.028	0.015	1.140	0.032	0.017	0.020		33.0	
Body	NR Band n26	20	QPSK	4	2N1FD	1:1	0.16	831.50	166300	DFT-s-OFDM	0.0	18.70	18.10	50	28	Bottom	0	0.023	0.012	1.148	0.026	0.014	0.016		33.8	
Body	NR Band n26	20	QPSK	4	2N1FD	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	18.70	18.13	1	53	Right	0	0.015	0.007	1.140	0.017	0.008	0.011		35.7	
Body	NR Band n26	20	QPSK	4	2N1FD	1:1	0.08	831.50	166300	DFT-s-OFDM	0.0	18.70	18.10	50	28	Right	0	0.016	0.008	1.148	0.018	0.009	0.011		35.4	
Body	NR Band n26	20	QPSK	4	2N1FD	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	18.70	18.13	1	53	Left	0	0.640	0.246	1.140	0.730	0.280	0.456		19.4	
Body	NR Band n26	20	QPSK	4	2N1FD	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	18.70	18.10	50	28	Left	0	0.637	0.246	1.148	0.731	0.282	0.457		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										

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10.20 NR Band n5 Standalone SAR

Table 10-55 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n5	20	QPSK	3b	2N1FD	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	16.70	16.10	1	53	Back	0	0.691	0.342	1.148	0.793	0.393	0.496		17.0	16.2
Body	NR Band n5	20	QPSK	3b	2N1FD	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	16.70	16.13	50	0	Back	0	0.707	0.351	1.140	0.806	0.400	0.504		16.9	
Body	NR Band n5	20	QPSK	3b	2N1FD	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	16.70	16.07	100	0	Back	0	0.690	0.343	1.156	0.798	0.397	0.499		17.0	
Body	NR Band n5	20	QPSK	3b	2N1FD	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	16.70	16.10	1	53	Top	0	0.786	0.336	1.148	0.902	0.386	0.564		16.4	
Body	NR Band n5	20	QPSK	3b	2N1FD	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	16.70	16.13	50	0	Top	0	0.817	0.345	1.140	0.931	0.393	0.582		16.3	
Body	NR Band n5	20	QPSK	3b	2N1FD	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	16.70	16.07	100	0	Top	0	0.817	0.346	1.156	0.944	0.400	0.590		16.2	
Body	NR Band n5	20	QPSK	3b	2N1FD	1:1	-0.07	836.50	167300	CP-OFDM	0.0	16.70	16.12	1	1	Top	0	0.815	0.352	1.143	0.932	0.402	0.583		16.3	
Body	NR Band n5	20	QPSK	3b	2N1FD	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	16.70	16.10	1	53	Bottom	0	0.010	0.005	1.148	0.011	0.006	0.007		35.4	
Body	NR Band n5	20	QPSK	3b	2N1FD	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	16.70	16.13	50	0	Bottom	0	0.008	0.003	1.140	0.009	0.003	0.006		36.4	
Body	NR Band n5	20	QPSK	3b	2N1FD	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	16.70	16.10	1	53	Right	0	0.101	0.048	1.148	0.116	0.055	0.073		25.4	
Body	NR Band n5	20	QPSK	3b	2N1FD	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	16.70	16.13	50	0	Right	0	0.099	0.048	1.140	0.113	0.055	0.071		25.5	
Body	NR Band n5	20	QPSK	3b	2N1FD	1:1	0.09	836.50	167300	DFT-s-OFDM	0.0	16.70	16.10	1	53	Left	0	0.020	0.009	1.148	0.023	0.010	0.014		32.4	
Body	NR Band n5	20	QPSK	3b	2N1FD	1:1	-0.16	836.50	167300	DFT-s-OFDM	0.0	16.70	16.13	50	0	Left	0	0.019	0.008	1.140	0.022	0.009	0.014		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 10-56 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n5	20	QPSK	4	4CWM9	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	18.70	18.17	1	1	Back	0	0.829	0.411	1.130	0.937	0.464	0.586	A20	18.3	18.3
Body	NR Band n5	20	QPSK	4	4CWM9	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	18.70	18.19	50	0	Back	0	0.770	0.361	1.125	0.866	0.406	0.541		18.6	
Body	NR Band n5	20	QPSK	4	4CWM9	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	18.70	18.10	100	0	Back	0	0.715	0.335	1.148	0.821	0.385	0.513		18.9	
Body	NR Band n5	20	QPSK	4	4CWM9	1:1	0.10	836.50	167300	CP-OFDM	0.0	18.70	18.05	1	1	Back	0	0.734	0.349	1.161	0.852	0.405	0.533		18.7	
Body	NR Band n5	20	QPSK	4	4CWM9	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	18.70	18.17	1	1	Top	0	0.587	0.254	1.130	0.663	0.287	0.414		19.8	
Body	NR Band n5	20	QPSK	4	4CWM9	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	18.70	18.19	50	0	Top	0	0.561	0.239	1.125	0.631	0.269	0.394		20.0	
Body	NR Band n5	20	QPSK	4	4CWM9	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	18.70	18.17	1	1	Bottom	0	0.022	0.011	1.130	0.025	0.012	0.016		34.0	
Body	NR Band n5	20	QPSK	4	4CWM9	1:1	-0.17	836.50	167300	DFT-s-OFDM	0.0	18.70	18.19	50	0	Bottom	0	0.022	0.012	1.125	0.025	0.014	0.016		34.1	
Body	NR Band n5	20	QPSK	4	4CWM9	1:1	0.05	836.50	167300	DFT-s-OFDM	0.0	18.70	18.17	1	1	Right	0	0.017	0.008	1.130	0.019	0.009	0.012		35.2	
Body	NR Band n5	20	QPSK	4	4CWM9	1:1	0.08	836.50	167300	DFT-s-OFDM	0.0	18.70	18.19	50	0	Right	0	0.016	0.008	1.125	0.018	0.009	0.011		35.4	
Body	NR Band n5	20	QPSK	4	4CWM9	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	18.70	18.17	1	1	Left	0	0.654	0.247	1.130	0.739	0.279	0.462		19.3	
Body	NR Band n5	20	QPSK	4	4CWM9	1:1	-0.06	836.50	167300	DFT-s-OFDM	0.0	18.70	18.19	50	0	Left	0	0.657	0.254	1.125	0.739	0.286	0.462		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										

10.21 NR Band n70 Standalone SAR

Table 10-57 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	1b	2N1FD	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	12.30	12.14	1	40	Back	0	0.798	0.318	1.038	0.828	0.330	0.518		12.1	11.5
Body	NR Band n70	15	QPSK	1b	2N1FD	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	12.30	12.10	36	0	Back	0	0.815	0.322	1.047	0.853	0.337	0.533		12.0	
Body	NR Band n70	15	QPSK	1b	2N1FD	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	12.30	12.09	75	0	Back	0	0.818	0.325	1.050	0.859	0.341	0.537		11.9	
Body	NR Band n70	15	QPSK	1b	2N1FD	1:1	0.00	1702.50	340500	CP-OFDM	0.0	12.30	12.08	1	1	Back	0	0.903	0.361	1.052	0.950	0.380	0.594	A21	11.5	
Body	NR Band n70	15	QPSK	1b	2N1FD	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	12.30	12.14	1	40	Top	0	0.001	0.000	1.038	0.001	0.000	0.001		41.1	
Body	NR Band n70	15	QPSK	1b	2N1FD	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	12.30	12.10	36	0	Top	0	0.000	0.000	1.047	0.000	0.000	0.000		51.1	
Body	NR Band n70	15	QPSK	1b	2N1FD	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	12.30	12.14	1	40	Bottom	0	0.645	0.245	1.038	0.670	0.254	0.419		13.0	
Body	NR Band n70	15	QPSK	1b	2N1FD	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	12.30	12.10	36	0	Bottom	0	0.631	0.240	1.047	0.661	0.251	0.413		13.1	
Body	NR Band n70	15	QPSK	1b	2N1FD	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	12.30	12.14	1	40	Right	0	0.007	0.003	1.038	0.007	0.003	0.004		32.7	
Body	NR Band n70	15	QPSK	1b	2N1FD	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	12.30	12.10	36	0	Right	0	0.007	0.002	1.047	0.007	0.002	0.004		32.6	
Body	NR Band n70	15	QPSK	1b	2N1FD	1:1	-0.20	1702.50	340500	DFT-s-OFDM	0.0	12.30	12.14	1	40	Left	0	0.047	0.018	1.038	0.049	0.019	0.031		24.4	
Body	NR Band n70	15	QPSK	1b	2N1FD	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	12.30	12.10	36	0	Left	0	0.049	0.019	1.047	0.051	0.020	0.032		24.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	2b	NJ27F	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	13.50	12.24	1	77	Back	0	0.533	0.214	1.337	0.713	0.286	0.446		14.0	12.9
Body	NR Band n70	15	QPSK	2b	NJ27F	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	13.50	12.21	36	22	Back	0	0.510	0.204	1.346	0.686	0.275	0.429		14.1	
Body	NR Band n70	15	QPSK	2b	NJ27F	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	13.50	12.24	1	77	Top	0	0.000	0.000	1.337	0.000	0.000	0.000		51.2	
Body	NR Band n70	15	QPSK	2b	NJ27F	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	13.50	12.21	36	22	Top	0	0.000	0.000	1.346	0.000	0.000	0.000		51.2	
Body	NR Band n70	15	QPSK	2b	NJ27F	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	13.50	12.24	1	77	Bottom	0	0.611	0.247	1.337	0.817	0.330	0.511		13.4	
Body	NR Band n70	15	QPSK	2b	NJ27F	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	13.50	12.21	36	22	Bottom	0	0.605	0.244	1.346	0.814	0.328	0.509		13.4	
Body	NR Band n70	15	QPSK	2b	NJ27F	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	13.50	12.17	75	0	Bottom	0	0.676	0.269	1.358	0.918	0.365	0.574		12.9	
Body	NR Band n70	15	QPSK	2b	NJ27F	1:1	0.07	1702.50	340500	CP-OFDM	0.0	13.50	12.34	1	1	Bottom	0	0.646	0.260	1.306	0.844	0.340	0.528		13.2	
Body	NR Band n70	15	QPSK	2b	NJ27F	1:1	-0.09	1702.50	340500	DFT-s-OFDM	0.0	13.50	12.24	1	77	Right	0	0.058	0.026	1.337	0.078	0.035	0.049		23.6	
Body	NR Band n70	15	QPSK	2b	NJ27F	1:1	-0.07	1702.50	340500	DFT-s-OFDM	0.0	13.50	12.21	36	22	Right	0	0.052	0.024	1.346	0.070	0.032	0.044		24.0	
Body	NR Band n70	15	QPSK	2b	NJ27F	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	13.50	12.24	1	77	Left	0	0.002	0.000	1.337	0.003	0.000	0.002		38.2	
Body	NR Band n70	15	QPSK	2b	NJ27F	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	13.50	12.21	36	22	Left	0	0.002	0.000	1.346	0.003	0.000	0.002		38.2	
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 10-59 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	3a	11Q0X	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	13.80	12.48	1	1	Back	0	0.339	0.152	1.355	0.459	0.206	0.287		16.2	12.9
Body	NR Band n70	15	QPSK	3a	11Q0X	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	13.80	12.34	36	43	Back	0	0.343	0.154	1.400	0.480	0.216	0.300		16.0	
Body	NR Band n70	15	QPSK	3a	11Q0X	1:1	-0.05	1702.50	340500	DFT-s-OFDM	0.0	13.80	12.48	1	1	Top	0	0.250	0.081	1.355	0.339	0.110	0.212		17.5	
Body	NR Band n70	15	QPSK	3a	11Q0X	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	13.80	12.34	36	43	Top	0	0.250	0.080	1.400	0.350	0.112	0.219		17.3	
Body	NR Band n70	15	QPSK	3a	11Q0X	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	13.80	12.48	1	1	Bottom	0	0.013	0.005	1.355	0.018	0.007	0.011		30.3	
Body	NR Band n70	15	QPSK	3a	11Q0X	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	13.80	12.34	36	43	Bottom	0	0.013	0.005	1.400	0.018	0.007	0.011		30.2	
Body	NR Band n70	15	QPSK	3a	11Q0X	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	13.80	12.48	1	1	Right	0	0.619	0.252	1.355	0.839	0.341	0.524		13.5	
Body	NR Band n70	15	QPSK	3a	11Q0X	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	13.80	12.34	36	43	Right	0	0.665	0.269	1.400	0.931	0.377	0.582		13.1	
Body	NR Band n70	15	QPSK	3a	11Q0X	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	13.80	12.25	75	0	Right	0	0.671	0.271	1.429	0.959	0.387	0.599		13.0	
Body	NR Band n70	15	QPSK	3a	11Q0X	1:1	-0.05	1702.50	340500	CP-OFDM	0.0	13.80	12.39	1	1	Right	0	0.689	0.278	1.384	0.967	0.385	0.604		12.9	
Body	NR Band n70	15	QPSK	3a	11Q0X	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	13.80	12.48	1	1	Left	0	0.002	0.000	1.355	0.003	0.000	0.002		38.5	
Body	NR Band n70	15	QPSK	3a	11Q0X	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	13.80	12.34	36	43	Left	0	0.002	0.000	1.400	0.003	0.000	0.002		38.3	
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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Table 10-60 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n70	15	QPSK	4	11Q0X	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	15.20	14.15	1	40	Back	0	0.641	0.269	1.274	0.817	0.343	0.511		15.1	15.0
Body	NR Band n70	15	QPSK	4	11Q0X	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	15.20	14.09	36	0	Back	0	0.636	0.263	1.291	0.821	0.340	0.513		15.0	
Body	NR Band n70	15	QPSK	4	11Q0X	1:1	0.12	1702.50	340500	DFT-s-OFDM	0.0	15.20	14.06	75	0	Back	0	0.631	0.260	1.300	0.820	0.338	0.513		15.0	
Body	NR Band n70	15	QPSK	4	11Q0X	1:1	0.03	1702.50	340500	CP-OFDM	0.0	15.20	14.06	1	1	Back	0	0.634	0.262	1.300	0.824	0.341	0.515		15.0	
Body	NR Band n70	15	QPSK	4	11Q0X	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	15.20	14.15	1	40	Top	0	0.530	0.234	1.274	0.675	0.298	0.422		15.9	
Body	NR Band n70	15	QPSK	4	11Q0X	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	15.20	14.09	36	0	Top	0	0.507	0.227	1.291	0.655	0.293	0.409		16.0	
Body	NR Band n70	15	QPSK	4	11Q0X	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	15.20	14.15	1	40	Bottom	0	0.000	0.000	1.274	0.000	0.000	0.000		53.1	
Body	NR Band n70	15	QPSK	4	11Q0X	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	15.20	14.09	36	0	Bottom	0	0.000	0.000	1.291	0.000	0.000	0.000		53.1	
Body	NR Band n70	15	QPSK	4	11Q0X	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	15.20	14.15	1	40	Right	0	0.012	0.004	1.274	0.015	0.005	0.009		32.3	
Body	NR Band n70	15	QPSK	4	11Q0X	1:1	0.09	1702.50	340500	DFT-s-OFDM	0.0	15.20	14.09	36	0	Right	0	0.011	0.004	1.291	0.014	0.005	0.009		32.7	
Body	NR Band n70	15	QPSK	4	11Q0X	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	15.20	14.15	1	40	Left	0	0.559	0.192	1.274	0.712	0.245	0.445		15.7	
Body	NR Band n70	15	QPSK	4	11Q0X	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	15.20	14.09	36	0	Left	0	0.619	0.212	1.291	0.799	0.274	0.499		15.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram											

10.22 NR Band n66 Standalone SAR

Table 10-61 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	1b	G20V7	1:1	-0.09	1745.00	349000	DFT-s-OFDM	0.0	12.30	12.10	1	108	Back	0	0.933	0.367	1.047	0.977	0.384	0.611		11.4	11.4
Body	NR Band n66	40	QPSK	1b	G20V7	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	12.30	12.14	108	0	Back	0	0.945	0.372	1.038	0.981	0.386	0.613	A22	11.4	
Body	NR Band n66	40	QPSK	1b	G20V7	1:1	0.09	1745.00	349000	DFT-s-OFDM	0.0	12.30	12.14	108	0	Back	0	0.881	0.348	1.038	0.914	0.361	0.571		11.7	
Body	NR Band n66	40	QPSK	1b	G20V7	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	12.30	12.05	216	0	Back	0	0.920	0.362	1.059	0.974	0.383	0.609		11.4	
Body	NR Band n66	40	QPSK	1b	G20V7	1:1	0.03	1745.00	349000	CP-OFDM	0.0	12.30	11.93	1	1	Back	0	0.820	0.325	1.089	0.893	0.354	0.558		11.8	
Body	NR Band n66	40	QPSK	1b	G20V7	1:1	-0.15	1745.00	349000	DFT-s-OFDM	0.0	12.30	12.10	1	108	Top	0	0.001	0.000	1.047	0.001	0.000	0.001		41.1	
Body	NR Band n66	40	QPSK	1b	G20V7	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	12.30	12.14	108	0	Top	0	0.002	0.000	1.038	0.002	0.000	0.001		38.1	
Body	NR Band n66	40	QPSK	1b	G20V7	1:1	-0.09	1745.00	349000	DFT-s-OFDM	0.0	12.30	12.10	1	108	Bottom	0	0.623	0.237	1.047	0.652	0.248	0.408		13.1	
Body	NR Band n66	40	QPSK	1b	G20V7	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	12.30	12.14	108	0	Bottom	0	0.648	0.248	1.038	0.673	0.257	0.421		13.0	
Body	NR Band n66	40	QPSK	1b	G20V7	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	12.30	12.10	1	108	Right	0	0.002	0.000	1.047	0.002	0.000	0.001		38.1	
Body	NR Band n66	40	QPSK	1b	G20V7	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	12.30	12.14	108	0	Right	0	0.005	0.001	1.038	0.005	0.001	0.003		34.1	
Body	NR Band n66	40	QPSK	1b	G20V7	1:1	-0.14	1745.00	349000	DFT-s-OFDM	0.0	12.30	12.10	1	108	Left	0	0.051	0.020	1.047	0.053	0.021	0.033		24.0	
Body	NR Band n66	40	QPSK	1b	G20V7	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	12.30	12.14	108	0	Left	0	0.051	0.020	1.038	0.053	0.021	0.033		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											

Note: Blue entry represents variability measurement

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	2b	M7K2F	1:1	0.11	1745.00	349000	DFT-s-OFDM	0.0	13.50	12.22	1	1	Back	0	0.642	0.249	1.343	0.862	0.334	0.539		13.1	12.6
Body	NR Band n66	40	QPSK	2b	M7K2F	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	13.50	12.28	108	0	Back	0	0.662	0.261	1.324	0.876	0.346	0.548		13.1	
Body	NR Band n66	40	QPSK	2b	M7K2F	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	13.50	12.20	216	0	Back	0	0.656	0.256	1.349	0.885	0.345	0.553		13.0	
Body	NR Band n66	40	QPSK	2b	M7K2F	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	13.50	12.22	1	1	Top	0	0.001	0.000	1.343	0.001	0.000	0.001		41.2	
Body	NR Band n66	40	QPSK	2b	M7K2F	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	13.50	12.28	108	0	Top	0	0.002	0.000	1.324	0.003	0.000	0.002		38.3	
Body	NR Band n66	40	QPSK	2b	M7K2F	1:1	-0.06	1745.00	349000	DFT-s-OFDM	0.0	13.50	12.22	1	1	Bottom	0	0.702	0.277	1.343	0.943	0.372	0.589		12.7	
Body	NR Band n66	40	QPSK	2b	M7K2F	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	13.50	12.28	108	0	Bottom	0	0.714	0.279	1.324	0.945	0.369	0.591		12.7	
Body	NR Band n66	40	QPSK	2b	M7K2F	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	13.50	12.20	216	0	Bottom	0	0.692	0.269	1.349	0.934	0.363	0.584		12.8	
Body	NR Band n66	40	QPSK	2b	M7K2F	1:1	0.04	1745.00	349000	CP-OFDM	0.0	13.50	11.97	1	1	Bottom	0	0.686	0.272	1.422	0.975	0.387	0.609		12.6	
Body	NR Band n66	40	QPSK	2b	M7K2F	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	13.50	12.22	1	1	Right	0	0.076	0.033	1.343	0.102	0.044	0.064		22.4	
Body	NR Band n66	40	QPSK	2b	M7K2F	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	13.50	12.28	108	0	Right	0	0.074	0.033	1.324	0.098	0.044	0.061		22.6	
Body	NR Band n66	40	QPSK	2b	M7K2F	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	13.50	12.22	1	1	Left	0	0.002	0.000	1.343	0.003	0.000	0.002		38.2	
Body	NR Band n66	40	QPSK	2b	M7K2F	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	13.50	12.28	108	0	Left	0	0.002	0.000	1.324	0.003	0.000	0.002		38.3	
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 10-63 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	3a	3XGHU	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	13.80	12.31	1	214	Back	0	0.326	0.145	1.409	0.459	0.204	0.287		16.2	12.9
Body	NR Band n66	40	QPSK	3a	3XGHU	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	13.80	12.34	108	54	Back	0	0.327	0.148	1.400	0.458	0.207	0.286		16.2	
Body	NR Band n66	40	QPSK	3a	3XGHU	1:1	-0.10	1745.00	349000	DFT-s-OFDM	0.0	13.80	12.31	1	214	Top	0	0.262	0.083	1.409	0.369	0.117	0.231		17.1	
Body	NR Band n66	40	QPSK	3a	3XGHU	1:1	-0.13	1745.00	349000	DFT-s-OFDM	0.0	13.80	12.34	108	54	Top	0	0.264	0.083	1.400	0.370	0.116	0.231		17.1	
Body	NR Band n66	40	QPSK	3a	3XGHU	1:1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	13.80	12.31	1	214	Bottom	0	0.009	0.003	1.409	0.013	0.004	0.008		31.7	
Body	NR Band n66	40	QPSK	3a	3XGHU	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	13.80	12.34	108	54	Bottom	0	0.008	0.002	1.400	0.011	0.003	0.007		32.3	
Body	NR Band n66	40	QPSK	3a	3XGHU	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	13.80	12.31	1	214	Right	0	0.673	0.263	1.409	0.948	0.371	0.593		13.0	
Body	NR Band n66	40	QPSK	3a	3XGHU	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	13.80	12.34	108	54	Right	0	0.703	0.277	1.400	0.984	0.388	0.615		12.9	
Body	NR Band n66	40	QPSK	3a	3XGHU	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	13.80	12.26	216	0	Right	0	0.619	0.246	1.426	0.883	0.351	0.552		13.3	
Body	NR Band n66	40	QPSK	3a	3XGHU	1:1	-0.02	1745.00	349000	CP-OFDM	0.0	13.80	12.29	1	1	Right	0	0.676	0.270	1.416	0.957	0.382	0.598		13.0	
Body	NR Band n66	40	QPSK	3a	3XGHU	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	13.80	12.31	1	214	Left	0	0.004	0.001	1.409	0.006	0.001	0.004		35.3	
Body	NR Band n66	40	QPSK	3a	3XGHU	1:1	-0.19	1745.00	349000	DFT-s-OFDM	0.0	13.80	12.34	108	54	Left	0	0.004	0.000	1.400	0.006	0.000	0.004		35.3	
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 10-64 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n66	40	QPSK	4	11Q0X	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	15.20	14.15	1	1	Back	0	0.648	0.266	1.274	0.826	0.339	0.516		15.0	14.8
Body	NR Band n66	40	QPSK	4	11Q0X	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	15.20	14.16	108	108	Back	0	0.682	0.274	1.271	0.867	0.348	0.542		14.8	
Body	NR Band n66	40	QPSK	4	11Q0X	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	15.20	14.11	216	0	Back	0	0.672	0.274	1.285	0.864	0.352	0.540		14.8	
Body	NR Band n66	40	QPSK	4	11Q0X	1:1	0.01	1745.00	349000	CP-OFDM	0.0	15.20	14.07	1	1	Back	0	0.633	0.259	1.297	0.821	0.336	0.513		15.0	
Body	NR Band n66	40	QPSK	4	11Q0X	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	15.20	14.15	1	1	Top	0	0.510	0.215	1.274	0.650	0.274	0.406		16.1	
Body	NR Band n66	40	QPSK	4	11Q0X	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	15.20	14.16	108	108	Top	0	0.553	0.240	1.271	0.703	0.305	0.439		15.7	
Body	NR Band n66	40	QPSK	4	11Q0X	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	15.20	14.15	1	1	Bottom	0	0.000	0.000	1.274	0.000	0.000	0.000		53.1	
Body	NR Band n66	40	QPSK	4	11Q0X	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	15.20	14.16	108	108	Bottom	0	0.000	0.000	1.271	0.000	0.000	0.000		53.1	
Body	NR Band n66	40	QPSK	4	11Q0X	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	15.20	14.15	1	1	Right	0	0.024	0.010	1.274	0.031	0.013	0.019		29.3	
Body	NR Band n66	40	QPSK	4	11Q0X	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	15.20	14.16	108	108	Right	0	0.029	0.012	1.271	0.037	0.015	0.023		28.5	
Body	NR Band n66	40	QPSK	4	11Q0X	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	15.20	14.15	1	1	Left	0	0.570	0.186	1.274	0.726	0.237	0.454		15.6	
Body	NR Band n66	40	QPSK	4	11Q0X	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	15.20	14.16	108	108	Left	0	0.495	0.161	1.271	0.629	0.205	0.393		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											

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10.23 NR Band n25 Standalone SAR

Table 10-65 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	1b	3XGHJ	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	12.80	12.31	1	1	Back	0	0.884	0.344	1.119	0.989	0.385	0.618	A23	11.8	11.8
Body	NR Band n25	40	QPSK	1b	3XGHJ	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	12.80	12.31	1	1	Back	0	0.825	0.324	1.119	0.923	0.363	0.577		12.1	
Body	NR Band n25	40	QPSK	1b	3XGHJ	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	12.80	12.15	108	108	Back	0	0.853	0.331	1.161	0.990	0.384	0.619		11.8	
Body	NR Band n25	40	QPSK	1b	3XGHJ	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	12.80	12.11	216	0	Back	0	0.807	0.316	1.172	0.946	0.370	0.591		12.0	
Body	NR Band n25	40	QPSK	1b	3XGHJ	1:1	0.01	1882.50	376500	CP-OFDM	0.0	12.80	12.22	1	1	Back	0	0.834	0.326	1.143	0.953	0.373	0.596		12.0	
Body	NR Band n25	40	QPSK	1b	3XGHJ	1:1	0.09	1882.50	376500	DFT-s-OFDM	0.0	12.80	12.31	1	1	Top	0	0.004	0.002	1.119	0.004	0.002	0.003		35.3	
Body	NR Band n25	40	QPSK	1b	3XGHJ	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	12.80	12.15	108	108	Top	0	0.005	0.002	1.161	0.006	0.002	0.004		34.1	
Body	NR Band n25	40	QPSK	1b	3XGHJ	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	12.80	12.31	1	1	Bottom	0	0.586	0.211	1.119	0.656	0.236	0.410		13.6	
Body	NR Band n25	40	QPSK	1b	3XGHJ	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	12.80	12.15	108	108	Bottom	0	0.581	0.208	1.161	0.675	0.241	0.422		13.5	
Body	NR Band n25	40	QPSK	1b	3XGHJ	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	12.80	12.31	1	1	Right	0	0.007	0.003	1.119	0.008	0.003	0.005		32.8	
Body	NR Band n25	40	QPSK	1b	3XGHJ	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	12.80	12.15	108	108	Right	0	0.007	0.003	1.161	0.008	0.003	0.005		32.7	
Body	NR Band n25	40	QPSK	1b	3XGHJ	1:1	-0.13	1882.50	376500	DFT-s-OFDM	0.0	12.80	12.31	1	1	Left	0	0.053	0.022	1.119	0.059	0.025	0.037		24.0	
Body	NR Band n25	40	QPSK	1b	3XGHJ	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	12.80	12.15	108	108	Left	0	0.058	0.025	1.161	0.067	0.029	0.042		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										

Note: Blue entry represents variability measurement

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	2b	G4PNH	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	13.90	13.31	1	108	Back	0	0.544	0.211	1.146	0.623	0.242	0.389		14.9	12.9
Body	NR Band n25	40	QPSK	2b	G4PNH	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	13.90	13.29	108	54	Back	0	0.527	0.204	1.151	0.607	0.235	0.379		15.1	
Body	NR Band n25	40	QPSK	2b	G4PNH	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	13.90	13.31	1	108	Top	0	0.000	0.000	1.146	0.000	0.000	0.000		52.3	
Body	NR Band n25	40	QPSK	2b	G4PNH	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	13.90	13.29	108	54	Top	0	0.000	0.000	1.151	0.000	0.000	0.000		52.3	
Body	NR Band n25	40	QPSK	2b	G4PNH	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	13.90	13.31	1	108	Bottom	0	0.841	0.320	1.146	0.964	0.367	0.603		13.0	
Body	NR Band n25	40	QPSK	2b	G4PNH	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	13.90	13.29	108	54	Bottom	0	0.789	0.307	1.151	0.908	0.353	0.568		13.3	
Body	NR Band n25	40	QPSK	2b	G4PNH	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	13.90	13.27	216	0	Bottom	0	0.856	0.323	1.156	0.990	0.373	0.619		12.9	
Body	NR Band n25	40	QPSK	2b	G4PNH	1:1	-0.06	1882.50	376500	CP-OFDM	0.0	13.90	13.37	1	1	Bottom	0	0.846	0.323	1.130	0.956	0.365	0.598		13.1	
Body	NR Band n25	40	QPSK	2b	G4PNH	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	13.90	13.31	1	108	Right	0	0.071	0.030	1.146	0.081	0.034	0.051		23.8	
Body	NR Band n25	40	QPSK	2b	G4PNH	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	13.90	13.29	108	54	Right	0	0.075	0.032	1.151	0.086	0.037	0.054		23.5	
Body	NR Band n25	40	QPSK	2b	G4PNH	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	13.90	13.31	1	108	Left	0	0.005	0.003	1.146	0.006	0.003	0.004		35.3	
Body	NR Band n25	40	QPSK	2b	G4PNH	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	13.90	13.29	108	54	Left	0	0.005	0.003	1.151	0.006	0.003	0.004		35.3	
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 10-67 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	3a	2N1FD	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.98	1	214	Back	0	0.403	0.179	1.208	0.487	0.216	0.304		16.9	13.9
Body	NR Band n25	40	QPSK	3a	2N1FD	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.84	108	108	Back	0	0.405	0.180	1.247	0.505	0.224	0.316		16.7	
Body	NR Band n25	40	QPSK	3a	2N1FD	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.98	1	214	Top	0	0.293	0.089	1.208	0.354	0.108	0.221		18.3	
Body	NR Band n25	40	QPSK	3a	2N1FD	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.84	108	108	Top	0	0.308	0.094	1.247	0.384	0.117	0.240		17.9	
Body	NR Band n25	40	QPSK	3a	2N1FD	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.98	1	214	Bottom	0	0.006	0.002	1.208	0.007	0.002	0.004		35.2	
Body	NR Band n25	40	QPSK	3a	2N1FD	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.84	108	108	Bottom	0	0.006	0.002	1.247	0.007	0.002	0.004		35.0	
Body	NR Band n25	40	QPSK	3a	2N1FD	1:1	-0.05	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.98	1	214	Right	0	0.789	0.288	1.208	0.953	0.348	0.596		14.0	
Body	NR Band n25	40	QPSK	3a	2N1FD	1:1	-0.07	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.84	108	108	Right	0	0.770	0.285	1.247	0.960	0.355	0.600		14.0	
Body	NR Band n25	40	QPSK	3a	2N1FD	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.82	216	0	Right	0	0.782	0.290	1.253	0.980	0.363	0.613		13.9	
Body	NR Band n25	40	QPSK	3a	2N1FD	1:1	-0.04	1882.50	376500	CP-OFDM	0.0	14.80	13.85	1	1	Right	0	0.789	0.300	1.245	0.982	0.374	0.614		13.9	
Body	NR Band n25	40	QPSK	3a	2N1FD	1:1	0.08	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.98	1	214	Left	0	0.017	0.007	1.208	0.021	0.008	0.013		30.7	
Body	NR Band n25	40	QPSK	3a	2N1FD	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.84	108	108	Left	0	0.016	0.006	1.247	0.020	0.007	0.013		30.8	
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 10-68 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n25	40	QPSK	4	QQGXD	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.30	1	108	Back	0	0.667	0.265	1.413	0.942	0.374	0.589		14.0	13.9
Body	NR Band n25	40	QPSK	4	QQGXD	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.32	108	0	Back	0	0.689	0.275	1.406	0.969	0.387	0.606		13.9	
Body	NR Band n25	40	QPSK	4	QQGXD	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.25	216	0	Back	0	0.584	0.230	1.429	0.835	0.329	0.522		14.6	
Body	NR Band n25	40	QPSK	4	QQGXD	1:1	-0.01	1882.50	376500	CP-OFDM	0.0	14.80	13.25	1	1	Back	0	0.646	0.256	1.429	0.923	0.366	0.577		14.1	
Body	NR Band n25	40	QPSK	4	QQGXD	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.30	1	108	Top	0	0.472	0.202	1.413	0.667	0.285	0.417		15.5	
Body	NR Band n25	40	QPSK	4	QQGXD	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.32	108	0	Top	0	0.481	0.206	1.406	0.676	0.290	0.423		15.5	
Body	NR Band n25	40	QPSK	4	QQGXD	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.30	1	108	Bottom	0	0.000	0.000	1.413	0.000	0.000	0.000		52.3	
Body	NR Band n25	40	QPSK	4	QQGXD	1:1	0.05	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.32	108	0	Bottom	0	0.000	0.000	1.406	0.000	0.000	0.000		52.3	
Body	NR Band n25	40	QPSK	4	QQGXD	1:1	0.09	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.30	1	108	Right	0	0.011	0.005	1.413	0.016	0.007	0.010		31.9	
Body	NR Band n25	40	QPSK	4	QQGXD	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.32	108	0	Right	0	0.013	0.006	1.406	0.018	0.008	0.011		31.2	
Body	NR Band n25	40	QPSK	4	QQGXD	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.30	1	108	Left	0	0.253	0.075	1.413	0.357	0.106	0.223		18.2	
Body	NR Band n25	40	QPSK	4	QQGXD	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	14.80	13.32	108	0	Left	0	0.280	0.085	1.406	0.394	0.120	0.246		17.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.24 NR Band n30 Standalone SAR

Table 10-69 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	1b	LJQPD	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	13.60	12.87	1	1	Back	0	0.778	0.273	1.183	0.920	0.323	0.575		12.9	12.7
Body	NR Band n30	10	QPSK	1b	LJQPD	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	13.60	12.85	25	27	Back	0	0.762	0.267	1.189	0.906	0.317	0.566		13.0	
Body	NR Band n30	10	QPSK	1b	LJQPD	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	13.60	12.74	50	0	Back	0	0.796	0.275	1.219	0.970	0.335	0.606		12.7	
Body	NR Band n30	10	QPSK	1b	LJQPD	1:1	0.02	2310.00	462000	CP-OFDM	0.0	13.60	12.82	1	1	Back	0	0.818	0.283	1.197	0.979	0.339	0.612		12.7	
Body	NR Band n30	10	QPSK	1b	LJQPD	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	13.60	12.87	1	1	Top	0	0.006	0.001	1.183	0.007	0.001	0.004		34.1	
Body	NR Band n30	10	QPSK	1b	LJQPD	1:1	0.08	2310.00	462000	DFT-s-OFDM	0.0	13.60	12.85	25	27	Top	0	0.006	0.001	1.189	0.007	0.001	0.004		34.0	
Body	NR Band n30	10	QPSK	1b	LJQPD	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	13.60	12.87	1	1	Bottom	0	0.806	0.264	1.183	0.953	0.312	0.596		12.8	
Body	NR Band n30	10	QPSK	1b	LJQPD	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	13.60	12.85	25	27	Bottom	0	0.812	0.262	1.189	0.965	0.312	0.603		12.7	
Body	NR Band n30	10	QPSK	1b	LJQPD	1:1	-0.07	2310.00	462000	DFT-s-OFDM	0.0	13.60	12.74	50	0	Bottom	0	0.786	0.254	1.219	0.958	0.310	0.599		12.8	
Body	NR Band n30	10	QPSK	1b	LJQPD	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	13.60	12.87	1	1	Right	0	0.005	0.001	1.183	0.006	0.001	0.004		34.9	
Body	NR Band n30	10	QPSK	1b	LJQPD	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	13.60	12.85	25	27	Right	0	0.005	0.001	1.189	0.006	0.001	0.004		34.8	
Body	NR Band n30	10	QPSK	1b	LJQPD	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	13.60	12.87	1	1	Left	0	0.031	0.012	1.183	0.037	0.014	0.023		26.9	
Body	NR Band n30	10	QPSK	1b	LJQPD	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	13.60	12.85	25	27	Left	0	0.030	0.012	1.189	0.036	0.014	0.023		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										

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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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	2b	GP4WH	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	14.20	13.38	1	26	Back	0	0.702	0.282	1.208	0.848	0.341	0.530		13.9	13.3
Body	NR Band n30	10	QPSK	2b	GP4WH	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	14.20	13.33	25	14	Back	0	0.667	0.265	1.222	0.815	0.324	0.509		14.1	
Body	NR Band n30	10	QPSK	2b	GP4WH	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	14.20	13.32	50	0	Back	0	0.675	0.268	1.225	0.827	0.328	0.517		14.0	
Body	NR Band n30	10	QPSK	2b	GP4WH	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	14.20	13.38	1	26	Top	0	0.000	0.000	1.208	0.000	0.000	0.000		52.4	
Body	NR Band n30	10	QPSK	2b	GP4WH	1:1	0.09	2310.00	462000	DFT-s-OFDM	0.0	14.20	13.33	25	14	Top	0	0.000	0.000	1.222	0.000	0.000	0.000		52.3	
Body	NR Band n30	10	QPSK	2b	GP4WH	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	14.20	13.38	1	26	Bottom	0	0.713	0.233	1.208	0.861	0.281	0.538		13.8	
Body	NR Band n30	10	QPSK	2b	GP4WH	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	14.20	13.33	25	14	Bottom	0	0.664	0.218	1.222	0.811	0.266	0.507		14.1	
Body	NR Band n30	10	QPSK	2b	GP4WH	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	14.20	13.32	50	0	Bottom	0	0.670	0.219	1.225	0.821	0.268	0.513		14.0	
Body	NR Band n30	10	QPSK	2b	GP4WH	1:1	0.00	2310.00	462000	CP-OFDM	0.0	14.20	13.20	1	1	Bottom	0	0.770	0.248	1.259	0.969	0.312	0.606		13.3	
Body	NR Band n30	10	QPSK	2b	GP4WH	1:1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	14.20	13.38	1	26	Right	0	0.029	0.011	1.208	0.035	0.013	0.022		27.7	
Body	NR Band n30	10	QPSK	2b	GP4WH	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	14.20	13.33	25	14	Right	0	0.029	0.011	1.222	0.035	0.013	0.022		27.7	
Body	NR Band n30	10	QPSK	2b	GP4WH	1:1	-0.14	2310.00	462000	DFT-s-OFDM	0.0	14.20	13.38	1	26	Left	0	0.011	0.004	1.208	0.013	0.005	0.008		31.9	
Body	NR Band n30	10	QPSK	2b	GP4WH	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	14.20	13.33	25	14	Left	0	0.010	0.004	1.222	0.012	0.005	0.008		32.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-71 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	3a	LJQPD	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	11.90	11.51	1	50	Back	0	0.479	0.213	1.094	0.524	0.233	0.328		13.7	11.1
Body	NR Band n30	10	QPSK	3a	LJQPD	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	11.90	11.31	25	0	Back	0	0.448	0.201	1.146	0.513	0.230	0.321		13.8	
Body	NR Band n30	10	QPSK	3a	LJQPD	1:1	-0.08	2310.00	462000	DFT-s-OFDM	0.0	11.90	11.51	1	50	Top	0	0.307	0.094	1.094	0.336	0.103	0.210		15.6	
Body	NR Band n30	10	QPSK	3a	LJQPD	1:1	-0.05	2310.00	462000	DFT-s-OFDM	0.0	11.90	11.31	25	0	Top	0	0.300	0.092	1.146	0.344	0.105	0.215		15.5	
Body	NR Band n30	10	QPSK	3a	LJQPD	1:1	-0.13	2310.00	462000	DFT-s-OFDM	0.0	11.90	11.51	1	50	Bottom	0	0.015	0.005	1.094	0.016	0.005	0.010		28.7	
Body	NR Band n30	10	QPSK	3a	LJQPD	1:1	0.08	2310.00	462000	DFT-s-OFDM	0.0	11.90	11.31	25	0	Bottom	0	0.016	0.006	1.146	0.018	0.007	0.011		28.2	
Body	NR Band n30	10	QPSK	3a	LJQPD	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	11.90	11.51	1	50	Right	0	0.787	0.287	1.094	0.861	0.314	0.538		11.5	
Body	NR Band n30	10	QPSK	3a	LJQPD	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	11.90	11.31	25	0	Right	0	0.795	0.291	1.146	0.911	0.333	0.569		11.3	
Body	NR Band n30	10	QPSK	3a	LJQPD	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	11.90	11.22	50	0	Right	0	0.813	0.295	1.169	0.950	0.345	0.594		11.1	
Body	NR Band n30	10	QPSK	3a	LJQPD	1:1	-0.01	2310.00	462000	CP-OFDM	0.0	11.90	11.52	1	1	Right	0	0.825	0.300	1.091	0.900	0.327	0.563	A24	11.3	
Body	NR Band n30	10	QPSK	3a	LJQPD	1:1	0.09	2310.00	462000	DFT-s-OFDM	0.0	11.90	11.51	1	50	Left	0	0.005	0.000	1.094	0.005	0.000	0.003		33.5	
Body	NR Band n30	10	QPSK	3a	LJQPD	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	11.90	11.31	25	0	Left	0	0.005	0.001	1.146	0.006	0.001	0.004		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										

Table 10-72 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n30	10	QPSK	4	11Q0X	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	11.80	10.69	1	50	Back	0	0.601	0.231	1.291	0.776	0.298	0.485		11.9	11.4
Body	NR Band n30	10	QPSK	4	11Q0X	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	11.80	10.66	25	14	Back	0	0.568	0.220	1.300	0.738	0.286	0.461		12.1	
Body	NR Band n30	10	QPSK	4	11Q0X	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	11.80	10.69	1	50	Top	0	0.268	0.081	1.291	0.346	0.105	0.216		15.4	
Body	NR Band n30	10	QPSK	4	11Q0X	1:1	-0.12	2310.00	462000	DFT-s-OFDM	0.0	11.80	10.66	25	14	Top	0	0.259	0.077	1.300	0.337	0.100	0.211		15.5	
Body	NR Band n30	10	QPSK	4	11Q0X	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	11.80	10.69	1	50	Bottom	0	0.005	0.002	1.291	0.006	0.003	0.004		32.7	
Body	NR Band n30	10	QPSK	4	11Q0X	1:1	0.21	2310.00	462000	DFT-s-OFDM	0.0	11.80	10.66	25	14	Bottom	0	0.006	0.002	1.300	0.008	0.003	0.005		31.9	
Body	NR Band n30	10	QPSK	4	11Q0X	1:1	0.08	2310.00	462000	DFT-s-OFDM	0.0	11.80	10.69	1	50	Right	0	0.003	0.000	1.291	0.004	0.000	0.003		34.9	
Body	NR Band n30	10	QPSK	4	11Q0X	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	11.80	10.66	25	14	Right	0	0.004	0.000	1.300	0.005	0.000	0.003		33.6	
Body	NR Band n30	10	QPSK	4	11Q0X	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	11.80	10.69	1	50	Left	0	0.633	0.214	1.291	0.817	0.276	0.511		11.7	
Body	NR Band n30	10	QPSK	4	11Q0X	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	11.80	10.66	25	14	Left	0	0.616	0.208	1.300	0.801	0.270	0.501		11.7	
Body	NR Band n30	10	QPSK	4	11Q0X	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	11.80	10.62	50	0	Left	0	0.620	0.211	1.312	0.813	0.277	0.508		11.7	
Body	NR Band n30	10	QPSK	4	11Q0X	1:1	-0.21	2310.00	462000	CP-OFDM	0.0	11.80	10.63	1	1	Left	0	0.657	0.225	1.309	0.860	0.295	0.538		11.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.25 NR Band n7 Standalone SAR

Table 10-73 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	1b	G20V7	1:1	-0.07	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.92	1	1	Back	0	0.774	0.261	1.143	0.885	0.298	0.553		13.0	12.7
Body	NR Band n7	40	QPSK	1b	G20V7	1:1	-0.06	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.77	108	108	Back	0	0.759	0.254	1.183	0.898	0.300	0.561		12.9	
Body	NR Band n7	40	QPSK	1b	G20V7	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.73	216	0	Back	0	0.745	0.249	1.194	0.890	0.297	0.556		13.0	
Body	NR Band n7	40	QPSK	1b	G20V7	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.92	1	1	Top	0	0.005	0.001	1.143	0.006	0.001	0.004		34.9	
Body	NR Band n7	40	QPSK	1b	G20V7	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.77	108	108	Top	0	0.002	0.000	1.183	0.002	0.000	0.001		38.7	
Body	NR Band n7	40	QPSK	1b	G20V7	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.92	1	1	Bottom	0	0.762	0.242	1.143	0.871	0.277	0.544		13.1	
Body	NR Band n7	40	QPSK	1b	G20V7	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.77	108	108	Bottom	0	0.790	0.249	1.183	0.935	0.295	0.584		12.8	
Body	NR Band n7	40	QPSK	1b	G20V7	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.73	216	0	Bottom	0	0.802	0.251	1.194	0.958	0.300	0.599	A25	12.7	
Body	NR Band n7	40	QPSK	1b	G20V7	1:1	0.04	2535.00	507000	CP-OFDM	0.0	13.50	12.89	1	1	Bottom	0	0.785	0.247	1.151	0.904	0.284	0.565		12.9	
Body	NR Band n7	40	QPSK	1b	G20V7	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.92	1	1	Right	0	0.007	0.002	1.143	0.008	0.002	0.005		33.4	
Body	NR Band n7	40	QPSK	1b	G20V7	1:1	0.13	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.77	108	108	Right	0	0.007	0.002	1.183	0.008	0.002	0.005		33.3	
Body	NR Band n7	40	QPSK	1b	G20V7	1:1	-0.15	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.92	1	1	Left	0	0.021	0.008	1.143	0.024	0.009	0.015		28.7	
Body	NR Band n7	40	QPSK	1b	G20V7	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	13.50	12.77	108	108	Left	0	0.022	0.008	1.183	0.026	0.009	0.016		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 10-74 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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	2b	G20V7	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	14.20	12.68	1	1	Back	0	0.614	0.243	1.419	0.871	0.345	0.544		13.8	13.4
Body	NR Band n7	40	QPSK	2b	G20V7	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	14.20	12.60	108	0	Back	0	0.634	0.249	1.445	0.916	0.360	0.573		13.6	
Body	NR Band n7	40	QPSK	2b	G20V7	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	14.20	12.55	216	0	Back	0	0.650	0.254	1.462	0.950	0.371	0.594		13.4	
Body	NR Band n7	40	QPSK	2b	G20V7	1:1	-0.04	2535.00	507000	CP-OFDM	0.0	14.20	12.63	1	1	Back	0	0.609	0.237	1.435	0.874	0.340	0.546		13.8	
Body	NR Band n7	40	QPSK	2b	G20V7	1:1	-0.07	2535.00	507000	DFT-s-OFDM	0.0	14.20	12.68	1	1	Top	0	0.008	0.003	1.419	0.011	0.004	0.007		32.6	
Body	NR Band n7	40	QPSK	2b	G20V7	1:1	-0.14	2535.00	507000	DFT-s-OFDM	0.0	14.20	12.60	108	0	Top	0	0.008	0.002	1.445	0.012	0.003	0.008		32.5	
Body	NR Band n7	40	QPSK	2b	G20V7	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	14.20	12.68	1	1	Bottom	0	0.490	0.158	1.419	0.695	0.224	0.434		14.8	
Body	NR Band n7	40	QPSK	2b	G20V7	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	14.20	12.60	108	0	Bottom	0	0.461	0.150	1.445	0.666	0.217	0.416		14.9	
Body	NR Band n7	40	QPSK	2b	G20V7	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	14.20	12.68	1	1	Right	0	0.023	0.008	1.419	0.033	0.011	0.021		28.0	
Body	NR Band n7	40	QPSK	2b	G20V7	1:1	-0.12	2535.00	507000	DFT-s-OFDM	0.0	14.20	12.60	108	0	Right	0	0.020	0.007	1.445	0.029	0.010	0.018		28.6	
Body	NR Band n7	40	QPSK	2b	G20V7	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	14.20	12.68	1	1	Left	0	0.012	0.004	1.419	0.017	0.006	0.011		30.9	
Body	NR Band n7	40	QPSK	2b	G20V7	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	14.20	12.60	108	0	Left	0	0.011	0.004	1.445	0.016	0.006	0.010		31.2	
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 10-75 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	3a	G20V7	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	11.30	10.29	1	1	Back	0	0.364	0.154	1.262	0.459	0.194	0.287		13.7	10.8
Body	NR Band n7	40	QPSK	3a	G20V7	1:1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	11.30	10.35	108	0	Back	0	0.361	0.154	1.245	0.449	0.192	0.281		13.8	
Body	NR Band n7	40	QPSK	3a	G20V7	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	11.30	10.29	1	1	Top	0	0.260	0.079	1.262	0.328	0.100	0.205		15.1	
Body	NR Band n7	40	QPSK	3a	G20V7	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	11.30	10.35	108	0	Top	0	0.252	0.077	1.245	0.314	0.096	0.196		15.3	
Body	NR Band n7	40	QPSK	3a	G20V7	1:1	-0.05	2535.00	507000	DFT-s-OFDM	0.0	11.30	10.29	1	1	Bottom	0	0.015	0.005	1.262	0.019	0.006	0.012		27.5	
Body	NR Band n7	40	QPSK	3a	G20V7	1:1	0.05	2535.00	507000	DFT-s-OFDM	0.0	11.30	10.35	108	0	Bottom	0	0.015	0.005	1.245	0.019	0.006	0.012		27.6	
Body	NR Band n7	40	QPSK	3a	G20V7	1:1	0.16	2535.00	507000	DFT-s-OFDM	0.0	11.30	10.29	1	1	Right	0	0.706	0.237	1.262	0.891	0.299	0.557		10.8	
Body	NR Band n7	40	QPSK	3a	G20V7	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	11.30	10.35	108	0	Right	0	0.617	0.212	1.245	0.768	0.264	0.480		11.4	
Body	NR Band n7	40	QPSK	3a	G20V7	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	11.30	10.25	216	0	Right	0	0.623	0.213	1.274	0.794	0.271	0.496		11.3	
Body	NR Band n7	40	QPSK	3a	G20V7	1:1	0.03	2535.00	507000	CP-OFDM	0.0	11.30	10.52	1	1	Right	0	0.657	0.223	1.197	0.786	0.267	0.491		11.3	
Body	NR Band n7	40	QPSK	3a	G20V7	1:1	0.08	2535.00	507000	DFT-s-OFDM	0.0	11.30	10.29	1	1	Left	0	0.004	0.000	1.262	0.005	0.000	0.003		33.3	
Body	NR Band n7	40	QPSK	3a	G20V7	1:1	0.09	2535.00	507000	DFT-s-OFDM	0.0	11.30	10.35	108	0	Left	0	0.004	0.000	1.245	0.005	0.000	0.003		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										

Table 10-76 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n7	40	QPSK	4	G20V7	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.12	1	108	Back	0	0.623	0.220	1.343	0.837	0.295	0.523		12.2	12.0
Body	NR Band n7	40	QPSK	4	G20V7	1:1	0.07	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.13	108	108	Back	0	0.637	0.224	1.340	0.854	0.300	0.534		12.1	
Body	NR Band n7	40	QPSK	4	G20V7	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.11	216	0	Back	0	0.643	0.227	1.346	0.865	0.306	0.541		12.0	
Body	NR Band n7	40	QPSK	4	G20V7	1:1	0.01	2535.00	507000	CP-OFDM	0.0	12.40	11.21	1	1	Back	0	0.661	0.232	1.315	0.869	0.305	0.543		12.0	
Body	NR Band n7	40	QPSK	4	G20V7	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.12	1	108	Top	0	0.332	0.119	1.343	0.446	0.160	0.279		14.9	
Body	NR Band n7	40	QPSK	4	G20V7	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.13	108	108	Top	0	0.377	0.137	1.340	0.505	0.184	0.316		14.3	
Body	NR Band n7	40	QPSK	4	G20V7	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.12	1	108	Bottom	0	0.002	0.000	1.343	0.003	0.000	0.002		37.1	
Body	NR Band n7	40	QPSK	4	G20V7	1:1	-0.06	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.13	108	108	Bottom	0	0.008	0.003	1.340	0.011	0.004	0.007		31.1	
Body	NR Band n7	40	QPSK	4	G20V7	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.12	1	108	Right	0	0.008	0.002	1.343	0.011	0.003	0.007		31.1	
Body	NR Band n7	40	QPSK	4	G20V7	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.13	108	108	Right	0	0.010	0.004	1.340	0.013	0.005	0.008		30.1	
Body	NR Band n7	40	QPSK	4	G20V7	1:1	0.06	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.12	1	108	Left	0	0.549	0.181	1.343	0.737	0.243	0.461		12.7	
Body	NR Band n7	40	QPSK	4	G20V7	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	12.40	11.13	108	108	Left	0	0.577	0.187	1.340	0.773	0.251	0.483		12.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.26 NR Band n41 Standalone SAR

Table 10-77 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	1b	M7K2F	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.58	1	1	Back	0	0.770	0.254	1.153	0.888	0.293	0.555		12.7	12.2
Body	NR Band n41	100	QPSK	1b	M7K2F	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.60	135	0	Back	0	0.749	0.246	1.148	0.860	0.282	0.538		12.8	
Body	NR Band n41	100	QPSK	1b	M7K2F	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.57	270	0	Back	0	0.709	0.231	1.156	0.820	0.267	0.513		13.0	
Body	NR Band n41	100	QPSK	1b	M7K2F	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.58	1	1	Top	0	0.001	0.000	1.153	0.001	0.000	0.001		41.6	
Body	NR Band n41	100	QPSK	1b	M7K2F	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.60	135	0	Top	0	0.000	0.000	1.148	0.000	0.000	0.000		51.6	
Body	NR Band n41	100	QPSK	1b	M7K2F	1:1	-0.07	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.58	1	1	Bottom	0	0.820	0.253	1.153	0.945	0.292	0.591		12.4	
Body	NR Band n41	100	QPSK	1b	M7K2F	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.60	135	0	Bottom	0	0.805	0.248	1.148	0.924	0.285	0.578		12.5	
Body	NR Band n41	100	QPSK	1b	M7K2F	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.57	270	0	Bottom	0	0.741	0.229	1.156	0.857	0.265	0.536		12.9	
Body	NR Band n41	100	QPSK	1b	M7K2F	1:1	-0.03	2592.99	518598	CP-OFDM	0.0	13.20	12.43	1	1	Bottom	0	0.825	0.255	1.194	0.985	0.304	0.616		12.2	
Body	NR Band n41	100	QPSK	1b	M7K2F	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.58	1	1	Right	0	0.000	0.000	1.153	0.000	0.000	0.000		51.6	
Body	NR Band n41	100	QPSK	1b	M7K2F	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.60	135	0	Right	0	0.002	0.000	1.148	0.002	0.000	0.001		38.6	
Body	NR Band n41	100	QPSK	1b	M7K2F	1:1	-0.14	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.58	1	1	Left	0	0.024	0.009	1.153	0.028	0.010	0.018		27.8	
Body	NR Band n41	100	QPSK	1b	M7K2F	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	13.20	12.60	135	0	Left	0	0.022	0.008	1.148	0.025	0.009	0.016		28.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	2b	M7K2F	1:1	-0.07	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.67	1	137	Back	0	0.763	0.285	1.297	0.990	0.370	0.619		12.8	12.8
Body	NR Band n41	100	QPSK	2b	M7K2F	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.77	135	69	Back	0	0.752	0.287	1.268	0.954	0.364	0.596		13.0	
Body	NR Band n41	100	QPSK	2b	M7K2F	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.65	270	0	Back	0	0.743	0.285	1.303	0.968	0.371	0.605		12.9	
Body	NR Band n41	100	QPSK	2b	M7K2F	1:1	-0.02	2592.99	518598	CP-OFDM	0.0	13.80	12.67	1	1	Back	0	0.740	0.287	1.297	0.960	0.372	0.600		13.0	
Body	NR Band n41	100	QPSK	2b	M7K2F	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.67	1	137	Top	0	0.002	0.000	1.297	0.003	0.000	0.002		38.6	
Body	NR Band n41	100	QPSK	2b	M7K2F	1:1	0.07	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.77	135	69	Top	0	0.004	0.002	1.268	0.005	0.003	0.003		35.7	
Body	NR Band n41	100	QPSK	2b	M7K2F	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.67	1	137	Bottom	0	0.448	0.143	1.297	0.581	0.185	0.363		15.1	
Body	NR Band n41	100	QPSK	2b	M7K2F	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.77	135	69	Bottom	0	0.428	0.135	1.268	0.543	0.171	0.339		15.4	
Body	NR Band n41	100	QPSK	2b	M7K2F	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.67	1	137	Right	0	0.013	0.004	1.297	0.017	0.005	0.011		30.5	
Body	NR Band n41	100	QPSK	2b	M7K2F	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.77	135	69	Right	0	0.013	0.004	1.268	0.016	0.005	0.010		30.6	
Body	NR Band n41	100	QPSK	2b	M7K2F	1:1	-0.18	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.67	1	137	Left	0	0.017	0.007	1.297	0.022	0.009	0.014		29.3	
Body	NR Band n41	100	QPSK	2b	M7K2F	1:1	-0.16	2592.99	518598	DFT-s-OFDM	0.0	13.80	12.77	135	69	Left	0	0.016	0.006	1.268	0.020	0.008	0.013		29.7	
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 3a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	3a	G20V7	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.50	1	1	Back	0	0.447	0.185	1.413	0.632	0.261	0.395		13.0	11.0
Body	NR Band n41	100	QPSK	3a	G20V7	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.53	135	0	Back	0	0.412	0.170	1.403	0.578	0.239	0.361		13.4	
Body	NR Band n41	100	QPSK	3a	G20V7	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.50	1	1	Top	0	0.311	0.093	1.413	0.439	0.131	0.274		14.6	
Body	NR Band n41	100	QPSK	3a	G20V7	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.53	135	0	Top	0	0.301	0.088	1.403	0.422	0.123	0.264		14.7	
Body	NR Band n41	100	QPSK	3a	G20V7	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.50	1	1	Bottom	0	0.020	0.007	1.413	0.028	0.010	0.018		26.5	
Body	NR Band n41	100	QPSK	3a	G20V7	1:1	-0.10	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.53	135	0	Bottom	0	0.020	0.007	1.403	0.028	0.010	0.018		26.5	
Body	NR Band n41	100	QPSK	3a	G20V7	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.50	1	1	Right	0	0.700	0.239	1.413	0.989	0.338	0.618		11.0	
Body	NR Band n41	100	QPSK	3a	G20V7	1:1	-0.13	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.53	135	0	Right	0	0.638	0.217	1.403	0.895	0.304	0.559		11.5	
Body	NR Band n41	100	QPSK	3a	G20V7	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.38	270	0	Right	0	0.611	0.206	1.452	0.887	0.299	0.554		11.5	
Body	NR Band n41	100	QPSK	3a	G20V7	1:1	-0.01	2592.99	518598	CP-OFDM	0.0	12.00	10.55	1	1	Right	0	0.662	0.224	1.396	0.924	0.313	0.578		11.3	
Body	NR Band n41	100	QPSK	3a	G20V7	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.50	1	1	Left	0	0.005	0.000	1.413	0.007	0.000	0.004		32.5	
Body	NR Band n41	100	QPSK	3a	G20V7	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	12.00	10.53	135	0	Left	0	0.002	0.000	1.403	0.003	0.000	0.002		36.5	
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 10-80 Antenna 4

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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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	4	CVDXJ	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	12.40	11.84	1	1	Back	0	0.868	0.300	1.138	0.988	0.341	0.618	A26	11.4	11.4
Body	NR Band n41	100	QPSK	4	CVDXJ	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	12.40	11.84	1	1	Back	0	0.867	0.300	1.138	0.987	0.343	0.617			11.4
Body	NR Band n41	100	QPSK	4	CVDXJ	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	12.40	11.79	135	0	Back	0	0.806	0.280	1.151	0.928	0.322	0.580			11.7
Body	NR Band n41	100	QPSK	4	CVDXJ	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	12.40	11.77	270	0	Back	0	0.775	0.271	1.156	0.896	0.313	0.560			11.9
Body	NR Band n41	100	QPSK	4	CVDXJ	1:1	0.06	2592.99	518598	CP-OFDM	0.0	12.40	11.92	1	1	Back	0	0.858	0.300	1.117	0.958	0.335	0.599			11.6
Body	NR Band n41	100	QPSK	4	CVDXJ	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	12.40	11.84	1	1	Top	0	0.468	0.173	1.138	0.533	0.197	0.333			14.1
Body	NR Band n41	100	QPSK	4	CVDXJ	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	12.40	11.79	135	0	Top	0	0.444	0.162	1.151	0.511	0.186	0.319			14.3
Body	NR Band n41	100	QPSK	4	CVDXJ	1:1	0.21	2592.99	518598	DFT-s-OFDM	0.0	12.40	11.84	1	1	Bottom	0	0.010	0.004	1.138	0.011	0.005	0.007			30.8
Body	NR Band n41	100	QPSK	4	CVDXJ	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	12.40	11.79	135	0	Bottom	0	0.013	0.005	1.151	0.015	0.006	0.009			29.6
Body	NR Band n41	100	QPSK	4	CVDXJ	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	12.40	11.84	1	1	Right	0	0.016	0.006	1.138	0.018	0.007	0.011			28.8
Body	NR Band n41	100	QPSK	4	CVDXJ	1:1	0.09	2592.99	518598	DFT-s-OFDM	0.0	12.40	11.79	135	0	Right	0	0.021	0.008	1.151	0.024	0.009	0.015			27.5
Body	NR Band n41	100	QPSK	4	CVDXJ	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	12.40	11.84	1	1	Left	0	0.794	0.254	1.138	0.904	0.289	0.565			11.8
Body	NR Band n41	100	QPSK	4	CVDXJ	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	12.40	11.79	135	0	Left	0	0.768	0.246	1.151	0.884	0.283	0.553			11.9
Body	NR Band n41	100	QPSK	4	CVDXJ	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	12.40	11.77	270	0	Left	0	0.773	0.245	1.156	0.894	0.283	0.559			11.9
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: Blue entry represents variability measurement

10.27 NR Band n48 Standalone SAR

Table 10-81 Antenna 1a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	10.60	10.59	1	1	Back	0	0.625	0.190	1.002	0.626	0.190	0.391		11.6	9.7
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	0.01	3624.99	641666	DFT-s-OFDM	0.0	10.60	10.33	1	1	Back	0	0.687	0.207	1.064	0.731	0.220	0.457		10.9	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	10.60	9.87	1	1	Back	0	0.674	0.203	1.183	0.797	0.240	0.498		10.6	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	10.60	10.26	50	56	Back	0	0.646	0.196	1.081	0.698	0.212	0.436		11.1	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	10.60	10.23	50	0	Back	0	0.697	0.211	1.089	0.759	0.230	0.474		10.8	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	10.60	9.83	50	0	Back	0	0.664	0.199	1.194	0.793	0.238	0.496		10.6	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	10.60	10.19	100	0	Back	0	0.624	0.191	1.099	0.686	0.210	0.429		11.2	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	0.08	3570.00	638000	DFT-s-OFDM	0.0	10.60	10.59	1	1	Top	0	0.001	0.000	1.002	0.001	0.000	0.001		39.6	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	10.60	10.26	50	56	Top	0	0.002	0.000	1.081	0.002	0.000	0.001		36.2	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	-0.04	3570.00	638000	DFT-s-OFDM	0.0	10.60	10.59	1	1	Bottom	0	0.203	0.057	1.002	0.203	0.057	0.127		16.5	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	10.60	10.26	50	56	Bottom	0	0.212	0.059	1.081	0.229	0.064	0.143		16.0	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	10.60	10.59	1	1	Right	0	0.000	0.000	1.002	0.000	0.000	0.000		49.6	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	10.60	10.26	50	56	Right	0	0.000	0.000	1.081	0.000	0.000	0.000		49.2	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	10.60	10.59	1	1	Left	0	0.786	0.208	1.002	0.788	0.208	0.493		10.6	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	10.60	10.33	1	1	Left	0	0.882	0.232	1.064	0.938	0.247	0.586	A27	9.9	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	0.01	3624.99	641666	DFT-s-OFDM	0.0	10.60	10.33	1	1	Left	0	0.882	0.232	1.064	0.894	0.239	0.559		10.1	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	10.60	9.87	1	1	Left	0	0.826	0.216	1.183	0.977	0.256	0.611		9.7	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	10.60	10.26	50	56	Left	0	0.823	0.217	1.081	0.890	0.235	0.556		10.1	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	10.60	10.26	50	56	Left	0	0.748	0.195	1.081	0.809	0.211	0.491		10.6	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	10.60	10.23	50	0	Left	0	0.864	0.227	1.089	0.941	0.247	0.588		9.8	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	0.03	3679.98	645332	DFT-s-OFDM	0.0	10.60	9.83	50	0	Left	0	0.790	0.206	1.194	0.943	0.246	0.589		9.8	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	-0.04	3570.00	638000	DFT-s-OFDM	0.0	10.60	10.19	100	0	Left	0	0.811	0.215	1.099	0.891	0.236	0.557		10.1	
Body	NR Band n48	40	QPSK	1a	4CWM9	1:1	-0.04	3570.00	638000	CP-OFDM	0.0	10.60	10.55	1	1	Left	0	0.790	0.210	1.012	0.799	0.213	0.499		10.6	
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 10-82 Antenna 2a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	9.10	8.54	1	104	Back	0	0.785	0.245	1.138	0.893	0.279	0.558		8.6	8.2
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	-0.04	3624.99	641666	DFT-s-OFDM	0.0	9.10	8.37	1	104	Back	0	0.804	0.244	1.183	0.951	0.289	0.594		8.3	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	9.10	8.30	1	1	Back	0	0.816	0.248	1.202	0.981	0.298	0.613		8.2	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	9.10	8.47	50	56	Back	0	0.768	0.245	1.156	0.888	0.283	0.555		8.6	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	-0.10	3624.99	641666	DFT-s-OFDM	0.0	9.10	8.35	50	28	Back	0	0.785	0.239	1.189	0.933	0.284	0.583		8.4	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	9.10	8.25	50	0	Back	0	0.753	0.232	1.216	0.916	0.282	0.573		8.5	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	9.10	8.41	100	0	Back	0	0.766	0.239	1.172	0.898	0.280	0.561		8.5	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	-0.03	3570.00	638000	CP-OFDM	0.0	9.10	8.50	1	1	Back	0	0.798	0.250	1.148	0.916	0.287	0.573		8.5	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	9.10	8.54	1	104	Top	0	0.006	0.001	1.138	0.007	0.001	0.004		29.7	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	0.08	3570.00	638000	DFT-s-OFDM	0.0	9.10	8.47	50	56	Top	0	0.006	0.001	1.156	0.007	0.001	0.004		29.7	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	9.10	8.54	1	104	Bottom	0	0.204	0.056	1.138	0.232	0.064	0.145		14.4	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	0.08	3570.00	638000	DFT-s-OFDM	0.0	9.10	8.47	50	56	Bottom	0	0.205	0.063	1.156	0.237	0.073	0.148		14.3	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	9.10	8.54	1	104	Right	0	0.662	0.180	1.138	0.753	0.205	0.471		9.3	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	9.10	8.37	1	104	Right	0	0.623	0.163	1.183	0.737	0.193	0.461		9.4	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	0.17	3679.98	645332	DFT-s-OFDM	0.0	9.10	8.30	1	1	Right	0	0.635	0.165	1.202	0.763	0.198	0.477		9.3	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	-0.14	3570.00	638000	DFT-s-OFDM	0.0	9.10	8.47	50	56	Right	0	0.669	0.184	1.156	0.773	0.213	0.483		9.2	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	0.06	3624.99	641666	DFT-s-OFDM	0.0	9.10	8.35	50	28	Right	0	0.620	0.162	1.189	0.737	0.193	0.461		9.4	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	-0.21	3679.98	645332	DFT-s-OFDM	0.0	9.10	8.25	50	0	Right	0	0.652	0.176	1.216	0.793	0.214	0.496		9.1	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	-0.06	3570.00	638000	DFT-s-OFDM	0.0	9.10	8.41	100	0	Right	0	0.654	0.177	1.172	0.766	0.207	0.479		9.2	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	0.07	3570.00	638000	DFT-s-OFDM	0.0	9.10	8.54	1	104	Left	0	0.000	0.000	1.138	0.000	0.000	0.000		47.5	
Body	NR Band n48	40	QPSK	2a	VQN77	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	9.10	8.47	50	56	Left	0	0.000	0.000	1.156	0.000	0.000	0.000		47.5	
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 10-83 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	-0.07	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.46	1	104	Back	0	0.621	0.200	1.213	0.753	0.243	0.471		12.5	11.3
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	-0.04	3624.99	641666	DFT-s-OFDM	0.0	12.30	11.34	1	104	Back	0	0.585	0.191	1.247	0.729	0.238	0.456		12.6	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	-0.11	3679.98	645332	DFT-s-OFDM	0.0	12.30	11.41	1	104	Back	0	0.626	0.206	1.227	0.768	0.253	0.480		12.4	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.45	50	0	Back	0	0.580	0.191	1.216	0.705	0.232	0.441		12.8	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	12.30	11.31	50	0	Back	0	0.593	0.193	1.256	0.745	0.242	0.466		12.6	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	-0.10	3679.98	645332	DFT-s-OFDM	0.0	12.30	11.44	50	0	Back	0	0.706	0.212	1.219	0.861	0.283	0.538		11.9	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.35	100	0	Back	0	0.704	0.229	1.245	0.876	0.285	0.548		11.9	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.46	1	104	Top	0	0.798	0.238	1.213	0.968	0.289	0.605		11.4	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	0.06	3624.99	641666	DFT-s-OFDM	0.0	12.30	11.34	1	104	Top	0	0.781	0.236	1.247	0.974	0.294	0.609		11.4	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	0.06	3679.98	645332	DFT-s-OFDM	0.0	12.30	11.41	1	104	Top	0	0.806	0.245	1.227	0.989	0.301	0.618		11.3	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.45	50	0	Top	0	0.781	0.240	1.216	0.950	0.292	0.594		11.5	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	12.30	11.31	50	0	Top	0	0.763	0.235	1.256	0.958	0.295	0.599		11.5	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	0.04	3679.98	645332	DFT-s-OFDM	0.0	12.30	11.44	50	0	Top	0	0.811	0.246	1.219	0.989	0.300	0.618		11.3	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	0.14	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.35	100	0	Top	0	0.782	0.235	1.245	0.974	0.293	0.609		11.4	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	0.07	3570.00	638000	CP-OFDM	0.0	12.30	11.47	1	1	Top	0	0.772	0.236	1.211	0.935	0.286	0.584		11.6	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	0.08	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.46	1	104	Bottom	0	0.003	0.000	1.213	0.004	0.000	0.003		35.7	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	0.07	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.45	50	0	Bottom	0	0.002	0.000	1.216	0.002	0.000	0.001		37.4	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.46	1	104	Right	0	0.081	0.024	1.213	0.098	0.029	0.061		21.4	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	0.09	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.45	50	0	Right	0	0.070	0.021	1.216	0.085	0.026	0.053		22.0	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	0.05	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.46	1	104	Left	0	0.016	0.004	1.213	0.019	0.005	0.012		28.4	
Body	NR Band n48	40	QPSK	3b	2N1FD	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.45	50	0	Left	0	0.014	0.005	1.216	0.017	0.006	0.011		29.0	
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 10-84 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.32	1	1	Back	0	0.645	0.195	1.253	0.808	0.244	0.505		12.2	11.3
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	12.30	11.27	1	1	Back	0	0.781	0.231	1.268	0.990	0.293	0.619		11.3	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	0.06	3679.98	645332	DFT-s-OFDM	0.0	12.30	11.29	1	104	Back	0	0.654	0.195	1.262	0.825	0.246	0.516		12.1	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	0.03	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.27	50	0	Back	0	0.625	0.184	1.268	0.793	0.233	0.496		12.3	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	12.30	11.12	50	0	Back	0	0.748	0.225	1.312	0.981	0.295	0.613		11.4	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	12.30	11.15	50	56	Back	0	0.595	0.178	1.303	0.775	0.232	0.484		12.4	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	-0.03	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.24	100	0	Back	0	0.660	0.200	1.276	0.842	0.255	0.526		12.0	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	0.04	3570.00	638000	CP-OFDM	0.0	12.30	11.24	1	1	Back	0	0.629	0.191	1.276	0.803	0.244	0.502		12.2	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.32	1	1	Top	0	0.210	0.069	1.253	0.263	0.086	0.164		17.1	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	-0.08	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.27	50	0	Top	0	0.201	0.065	1.268	0.255	0.082	0.159		17.2	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.32	1	1	Bottom	0	0.005	0.000	1.253	0.006	0.000	0.004		33.3	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	-0.06	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.27	50	0	Bottom	0	0.006	0.001	1.268	0.008	0.001	0.005		32.5	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	0.07	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.32	1	1	Right	0	0.002	0.000	1.253	0.003	0.000	0.002		37.3	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.27	50	0	Right	0	0.000	0.000	1.268	0.000	0.000	0.000		50.3	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	-0.05	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.32	1	1	Left	0	0.507	0.139	1.253	0.635	0.174	0.397		13.3	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	-0.04	3624.99	641666	DFT-s-OFDM	0.0	12.30	11.27	1	1	Left	0	0.550	0.151	1.268	0.697	0.191	0.436		12.8	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	-0.05	3679.98	645332	DFT-s-OFDM	0.0	12.30	11.29	1	104	Left	0	0.487	0.132	1.262	0.615	0.167	0.384		13.4	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	-0.02	3570.00	638000	DFT-s-OFDM	0.0	12.30	11.27	50	0	Left	0	0.516	0.141	1.268	0.654	0.179	0.409		13.1	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	12.30	11.12	50	0	Left	0	0.534	0.147	1.312	0.701	0.193	0.438		12.8	
Body	NR Band n48	40	QPSK	4	4CWM9	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	12.30	11.15	50	56	Left	0	0.479	0.129	1.303	0.624	0.168	0.390		13.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram											

10.28 NR Band n77 Standalone SAR

Table 10-85 Antenna 1a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	9.50	8.77	1	137	Back	0	0.396	0.114	1.183	0.468	0.135	0.293		11.8	8.5
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	9.50	8.28	1	137	Back	0	0.641	0.180	1.324	0.849	0.238	0.531		9.2	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	9.50	8.53	135	69	Back	0	0.380	0.110	1.250	0.475	0.138	0.297		11.7	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	-0.04	3930.00	662000	DFT-s-OFDM	0.0	9.50	8.34	135	0	Back	0	0.651	0.186	1.306	0.850	0.243	0.531		9.2	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	9.50	8.44	270	0	Back	0	0.379	0.111	1.276	0.484	0.142	0.303		11.6	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	9.50	8.77	1	137	Top	0	0.002	0.000	1.183	0.002	0.000	0.001		34.7	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	9.50	8.53	135	69	Top	0	0.000	0.000	1.250	0.000	0.000	0.000		47.5	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	-0.09	3750.00	650000	DFT-s-OFDM	0.0	9.50	8.77	1	137	Bottom	0	0.114	0.030	1.183	0.135	0.035	0.084		17.2	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	9.50	8.53	135	69	Bottom	0	0.111	0.029	1.250	0.139	0.036	0.087		17.1	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	9.50	8.77	1	137	Right	0	0.000	0.000	1.183	0.000	0.000	0.000		47.8	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	0.09	3750.00	650000	DFT-s-OFDM	0.0	9.50	8.53	135	69	Right	0	0.000	0.000	1.250	0.000	0.000	0.000		47.5	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	0.07	3750.00	650000	DFT-s-OFDM	0.0	9.50	8.77	1	137	Left	0	0.461	0.118	1.183	0.545	0.140	0.341		11.1	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	9.50	8.28	1	137	Left	0	0.654	0.166	1.324	0.866	0.220	0.541		9.1	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	9.50	8.53	135	69	Left	0	0.462	0.120	1.250	0.578	0.150	0.361		10.9	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	9.50	8.34	135	0	Left	0	0.719	0.182	1.306	0.939	0.238	0.587		8.8	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	9.50	8.44	270	0	Left	0	0.465	0.120	1.276	0.593	0.153	0.371		10.7	
Body	NR Band n77	100	QPSK	1a	4CWM9	1:1	-0.04	3930.00	662000	CP-OFDM	0.0	9.50	8.34	1	1	Left	0	0.757	0.192	1.306	0.989	0.251	0.618	A28	8.5	
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 10-86 Antenna 2a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	8.20	7.43	1	137	Back	0	0.634	0.192	1.194	0.757	0.229	0.473		8.4	7.7
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	8.20	7.21	1	1	Back	0	0.702	0.204	1.256	0.882	0.256	0.551		7.7	
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	8.20	7.35	135	69	Back	0	0.646	0.194	1.216	0.786	0.236	0.491		8.2	
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	-0.07	3930.00	662000	DFT-s-OFDM	0.0	8.20	6.97	135	0	Back	0	0.674	0.200	1.327	0.894	0.265	0.559		7.7	
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	8.20	7.22	270	0	Back	0	0.658	0.197	1.253	0.824	0.247	0.515		8.0	
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	0.02	3750.00	650000	CP-OFDM	0.0	8.20	7.16	1	1	Back	0	0.621	0.191	1.271	0.789	0.243	0.493		8.2	
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	8.20	7.43	1	137	Top	0	0.004	0.000	1.194	0.005	0.000	0.003		30.4	
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	0.15	3750.00	650000	DFT-s-OFDM	0.0	8.20	7.35	135	69	Top	0	0.004	0.000	1.216	0.005	0.000	0.003		30.3	
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	8.20	7.43	1	137	Bottom	0	0.207	0.057	1.194	0.247	0.068	0.154		13.3	
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	8.20	7.35	135	69	Bottom	0	0.205	0.056	1.216	0.249	0.068	0.156		13.2	
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	8.20	7.43	1	137	Right	0	0.588	0.156	1.194	0.702	0.186	0.439		8.7	
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	8.20	7.21	1	1	Right	0	0.557	0.145	1.256	0.700	0.182	0.438		8.7	
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	8.20	7.35	135	69	Right	0	0.580	0.153	1.216	0.705	0.186	0.441		8.7	
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	-0.05	3930.00	662000	DFT-s-OFDM	0.0	8.20	6.97	135	0	Right	0	0.542	0.140	1.327	0.719	0.186	0.449		8.6	
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	8.20	7.43	1	137	Left	0	0.000	0.000	1.194	0.000	0.000	0.000		46.4	
Body	NR Band n77	100	QPSK	2a	VQN77	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	8.20	7.35	135	69	Left	0	0.000	0.000	1.216	0.000	0.000	0.000		46.3	
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 10-87 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	11.50	10.32	1	137	Back	0	0.468	0.151	1.312	0.614	0.198	0.384		12.6	11.4
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.24	1	137	Back	0	0.462	0.162	1.337	0.618	0.217	0.386		12.6	
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	-0.07	3750.00	650000	DFT-s-OFDM	0.0	11.50	10.34	135	69	Back	0	0.467	0.150	1.306	0.610	0.196	0.381		12.6	
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	-0.07	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.25	135	69	Back	0	0.487	0.169	1.334	0.650	0.225	0.406		12.4	
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	11.50	10.32	1	137	Top	0	0.568	0.174	1.312	0.745	0.228	0.466		11.8	
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.24	1	137	Top	0	0.585	0.177	1.337	0.782	0.237	0.489		11.5	
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	11.50	10.34	135	69	Top	0	0.553	0.173	1.306	0.722	0.226	0.451		11.9	
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	11.50	10.25	135	69	Top	0	0.579	0.175	1.334	0.772	0.233	0.483		11.6	
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	-0.02	3750.00	650000	CP-OFDM	0.0	11.50	10.17	1	1	Top	0	0.602	0.184	1.358	0.818	0.250	0.511		11.4	
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	0.09	3750.00	650000	DFT-s-OFDM	0.0	11.50	10.32	1	137	Bottom	0	0.001	0.000	1.312	0.001	0.000	0.001		39.3	
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	11.50	10.34	135	69	Bottom	0	0.000	0.000	1.306	0.000	0.000	0.000		49.3	
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	11.50	10.32	1	137	Right	0	0.055	0.013	1.312	0.072	0.017	0.045		21.9	
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	0.04	3750.00	650000	DFT-s-OFDM	0.0	11.50	10.34	135	69	Right	0	0.050	0.013	1.306	0.065	0.017	0.041		22.3	
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	-0.17	3750.00	650000	DFT-s-OFDM	0.0	11.50	10.32	1	137	Left	0	0.018	0.006	1.312	0.024	0.008	0.015		26.7	
Body	NR Band n77	100	QPSK	3b	HH9X5	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	11.50	10.34	135	69	Left	0	0.021	0.007	1.306	0.027	0.009	0.017		26.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 10-88 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	QPSK	4	VCWM9	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	9.80	8.97	1	137	Back	0	0.294	0.084	1.211	0.356	0.102	0.223		13.3	10.5
Body	NR Band n77	100	QPSK	4	VCWM9	1:1	-0.11	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.04	135	0	Back	0	0.337	0.100	1.191	0.401	0.119	0.251		12.7	
Body	NR Band n77	100	QPSK	4	VCWM9	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	9.80	8.84	135	0	Back	0	0.543	0.156	1.247	0.677	0.195	0.423		10.5	
Body	NR Band n77	100	QPSK	4	VCWM9	1:1	-0.01	3750.00	650000	CP-OFDM	0.0	9.80	9.07	1	1	Back	0	0.378	0.113	1.183	0.447	0.134	0.279		12.3	
Body	NR Band n77	100	QPSK	4	VCWM9	1:1	-0.08	3750.00	650000	DFT-s-OFDM	0.0	9.80	8.97	1	137	Top	0	0.096	0.032	1.211	0.116	0.039	0.073		18.1	
Body	NR Band n77	100	QPSK	4	VCWM9	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.04	135	0	Top	0	0.097	0.032	1.191	0.116	0.038	0.073		18.2	
Body	NR Band n77	100	QPSK	4	VCWM9	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	9.80	8.97	1	137	Bottom	0	0.000	0.000	1.211	0.000	0.000	0.000		48.0	
Body	NR Band n77	100	QPSK	4	VCWM9	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.04	135	0	Bottom	0	0.003	0.000	1.191	0.004	0.000	0.003		33.2	
Body	NR Band n77	100	QPSK	4	VCWM9	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	9.80	8.97	1	137	Right	0	0.000	0.000	1.211	0.000	0.000	0.000		48.0	
Body	NR Band n77	100	QPSK	4	VCWM9	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.04	135	0	Right	0	0.000	0.000	1.191	0.000	0.000	0.000		48.0	
Body	NR Band n77	100	QPSK	4	VCWM9	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	9.80	8.97	1	137	Left	0	0.179	0.049	1.211	0.217	0.059	0.136		15.4	
Body	NR Band n77	100	QPSK	4	VCWM9	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	9.80	9.04	135	0	Left	0	0.182	0.050	1.191	0.217	0.060	0.136		15.4	
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 10-89 Antenna 1a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	1a	4CWM9	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	9.50	8.75	1	271	Back	0	0.385	0.115	1.189	0.458	0.137	0.286		11.9	11.2
Body	NR Band n77 DoD	100	QPSK	1a	4CWM9	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	9.50	8.57	135	69	Back	0	0.357	0.108	1.239	0.442	0.134	0.276		12.0	
Body	NR Band n77 DoD	100	QPSK	1a	4CWM9	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	9.50	8.75	1	271	Top	0	0.000	0.000	1.189	0.000	0.000	0.000		47.7	
Body	NR Band n77 DoD	100	QPSK	1a	4CWM9	1:1	0.08	3500.01	633334	DFT-s-OFDM	0.0	9.50	8.57	135	69	Top	0	0.000	0.000	1.239	0.000	0.000	0.000		47.6	
Body	NR Band n77 DoD	100	QPSK	1a	4CWM9	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	9.50	8.75	1	271	Bottom	0	0.125	0.034	1.189	0.149	0.040	0.093		16.8	
Body	NR Band n77 DoD	100	QPSK	1a	4CWM9	1:1	-0.05	3500.01	633334	DFT-s-OFDM	0.0	9.50	8.57	135	69	Bottom	0	0.125	0.034	1.239	0.155	0.042	0.097		16.6	
Body	NR Band n77 DoD	100	QPSK	1a	4CWM9	1:1	0.09	3500.01	633334	DFT-s-OFDM	0.0	9.50	8.75	1	271	Right	0	0.000	0.000	1.189	0.000	0.000	0.000		47.7	
Body	NR Band n77 DoD	100	QPSK	1a	4CWM9	1:1	-0.15	3500.01	633334	DFT-s-OFDM	0.0	9.50	8.57	135	69	Right	0	0.000	0.000	1.239	0.000	0.000	0.000		47.6	
Body	NR Band n77 DoD	100	QPSK	1a	4CWM9	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	9.50	8.75	1	271	Left	0	0.454	0.120	1.189	0.540	0.143	0.338		11.2	
Body	NR Band n77 DoD	100	QPSK	1a	4CWM9	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	9.50	8.57	135	69	Left	0	0.393	0.105	1.239	0.487	0.130	0.304		11.6	
Body	NR Band n77 DoD	100	QPSK	1a	4CWM9	1:1	0.13	3500.01	633334	CP-OFDM	0.0	9.50	8.34	1	1	Left	0	0.383	0.103	1.306	0.500	0.135	0.313		11.5	
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 10-90 Antenna 2a

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	2a	4CWM9	1:1	-0.09	3500.01	633334	DFT-s-OFDM	0.0	8.20	7.54	1	271	Back	0	0.675	0.209	1.164	0.786	0.243	0.491	A29	8.2	8.2
Body	NR Band n77 DoD	100	QPSK	2a	4CWM9	1:1	-0.10	3500.01	633334	DFT-s-OFDM	0.0	8.20	7.57	135	69	Back	0	0.654	0.204	1.156	0.756	0.236	0.473		8.4	
Body	NR Band n77 DoD	100	QPSK	2a	4CWM9	1:1	-0.08	3500.01	633334	CP-OFDM	0.0	8.20	7.34	1	1	Back	0	0.632	0.200	1.219	0.770	0.244	0.481		8.3	
Body	NR Band n77 DoD	100	QPSK	2a	4CWM9	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	8.20	7.54	1	271	Top	0	0.006	0.001	1.164	0.007	0.001	0.004		28.7	
Body	NR Band n77 DoD	100	QPSK	2a	4CWM9	1:1	-0.18	3500.01	633334	DFT-s-OFDM	0.0	8.20	7.57	135	69	Top	0	0.006	0.001	1.156	0.007	0.001	0.004		28.8	
Body	NR Band n77 DoD	100	QPSK	2a	4CWM9	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	8.20	7.54	1	271	Bottom	0	0.168	0.045	1.164	0.196	0.052	0.123		14.3	
Body	NR Band n77 DoD	100	QPSK	2a	4CWM9	1:1	-0.09	3500.01	633334	DFT-s-OFDM	0.0	8.20	7.57	135	69	Bottom	0	0.149	0.040	1.156	0.172	0.046	0.108		14.8	
Body	NR Band n77 DoD	100	QPSK	2a	4CWM9	1:1	0.06	3500.01	633334	DFT-s-OFDM	0.0	8.20	7.54	1	271	Right	0	0.555	0.147	1.164	0.646	0.171	0.404		9.1	
Body	NR Band n77 DoD	100	QPSK	2a	4CWM9	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	8.20	7.57	135	69	Right	0	0.578	0.155	1.156	0.668	0.179	0.418		8.9	
Body	NR Band n77 DoD	100	QPSK	2a	4CWM9	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	8.20	7.54	1	271	Left	0	0.000	0.000	1.164	0.000	0.000	0.000		46.5	
Body	NR Band n77 DoD	100	QPSK	2a	4CWM9	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	8.20	7.57	135	69	Left	0	0.000	0.000	1.156	0.000	0.000	0.000		46.6	
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 10-91 Antenna 3b

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	3b	2N1FD	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.27	1	271	Back	0	0.456	0.142	1.327	0.605	0.188	0.378		12.7	12.1
Body	NR Band n77 DoD	100	QPSK	3b	2N1FD	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.28	135	69	Back	0	0.474	0.150	1.324	0.628	0.199	0.393		12.5	
Body	NR Band n77 DoD	100	QPSK	3b	2N1FD	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.27	1	271	Top	0	0.514	0.156	1.327	0.682	0.207	0.426		12.1	
Body	NR Band n77 DoD	100	QPSK	3b	2N1FD	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.28	135	69	Top	0	0.511	0.155	1.324	0.677	0.205	0.423		12.2	
Body	NR Band n77 DoD	100	QPSK	3b	2N1FD	1:1	0.00	3500.01	633334	CP-OFDM	0.0	11.50	10.24	1	1	Top	0	0.454	0.115	1.337	0.607	0.180	0.379		12.7	
Body	NR Band n77 DoD	100	QPSK	3b	2N1FD	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.27	1	271	Bottom	0	0.001	0.000	1.327	0.001	0.000	0.001		39.3	
Body	NR Band n77 DoD	100	QPSK	3b	2N1FD	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.28	135	69	Bottom	0	0.002	0.000	1.324	0.003	0.000	0.002		36.3	
Body	NR Band n77 DoD	100	QPSK	3b	2N1FD	1:1	0.06	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.27	1	271	Right	0	0.043	0.012	1.327	0.057	0.016	0.036		22.9	
Body	NR Band n77 DoD	100	QPSK	3b	2N1FD	1:1	0.11	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.28	135	69	Right	0	0.045	0.013	1.324	0.060	0.017	0.038		22.7	
Body	NR Band n77 DoD	100	QPSK	3b	2N1FD	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.27	1	271	Left	0	0.010	0.003	1.327	0.013	0.004	0.008		29.3	
Body	NR Band n77 DoD	100	QPSK	3b	2N1FD	1:1	-0.13	3500.01	633334	DFT-s-OFDM	0.0	11.50	10.28	135	69	Left	0	0.009	0.003	1.324	0.012	0.004	0.008		29.7	
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 10-92 Antenna 4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	QPSK	4	VCWM9	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.04	1	271	Back	0	0.357	0.110	1.191	0.425	0.131	0.266		12.5	12.5
Body	NR Band n77 DoD	100	QPSK	4	VCWM9	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.08	135	0	Back	0	0.286	0.089	1.180	0.337	0.105	0.211		13.5	
Body	NR Band n77 DoD	100	QPSK	4	VCWM9	1:1	-0.03	3500.01	633334	CP-OFDM	0.0	9.80	8.85	1	1	Back	0	0.277	0.086	1.245	0.345	0.107	0.216		13.4	
Body	NR Band n77 DoD	100	QPSK	4	VCWM9	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.04	1	271	Top	0	0.102	0.034	1.191	0.121	0.040	0.076		17.9	
Body	NR Band n77 DoD	100	QPSK	4	VCWM9	1:1	-0.20	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.08	135	0	Top	0	0.084	0.029	1.180	0.099	0.034	0.062		18.8	
Body	NR Band n77 DoD	100	QPSK	4	VCWM9	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.04	1	271	Bottom	0	0.002	0.000	1.191	0.002	0.000	0.001		35.0	
Body	NR Band n77 DoD	100	QPSK	4	VCWM9	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.08	135	0	Bottom	0	0.000	0.000	1.180	0.000	0.000	0.000		48.1	
Body	NR Band n77 DoD	100	QPSK	4	VCWM9	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.04	1	271	Right	0	0.000	0.000	1.191	0.000	0.000	0.000		48.0	
Body	NR Band n77 DoD	100	QPSK	4	VCWM9	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.08	135	0	Right	0	0.000	0.000	1.180	0.000	0.000	0.000		48.1	
Body	NR Band n77 DoD	100	QPSK	4	VCWM9	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.04	1	271	Left	0	0.223	0.064	1.191	0.266	0.076	0.166		14.5	
Body	NR Band n77 DoD	100	QPSK	4	VCWM9	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	9.80	9.08	135	0	Left	0	0.174	0.050	1.180	0.205	0.059	0.128		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											

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10.29 2.4 GHz WIFI SISO Standalone SAR

Table 10-93 Antenna 1a

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]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	NJ27F	99.36	-0.03	2412	1	1	11.25	10.68	Back	0	V1	0.812	0.316	1.140	1.006	0.931	0.362	0.582	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	NJ27F	99.36	0.05	2437	6	1	11.25	10.79	Back	0	V1	0.905	0.347	1.112	1.006	1.012	0.388	0.633	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	NJ27F	99.36	0.07	2462	11	1	11.25	10.72	Back	0	V1	0.952	0.354	1.130	1.006	1.082	0.402	0.676	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	NJ27F	99.36	-0.21	2437	6	1	11.25	10.79	Top	0	V1	0.012	0.005	1.112	1.006	0.013	0.006	0.008	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	NJ27F	99.36	-0.08	2437	6	1	11.25	10.79	Bottom	0	V1	0.284	0.088	1.112	1.006	0.318	0.098	0.199	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	NJ27F	99.36	0.09	2437	6	1	11.25	10.79	Right	0	V1	0.000	0.000	1.112	1.006	0.000	0.000	0.000	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	NJ27F	99.36	-0.01	2412	1	1	11.25	10.68	Left	0	V1	0.813	0.274	1.140	1.006	0.932	0.314	0.583	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	NJ27F	99.36	-0.01	2437	6	1	11.25	10.79	Left	0	V1	0.904	0.302	1.112	1.006	1.011	0.338	0.632	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	NJ27F	99.36	0.00	2462	11	1	11.25	10.72	Left	0	V1	0.968	0.323	1.130	1.006	1.100	0.367	0.688	A30
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	11Q0X	99.36	0.08	2462	11	1	11.25	10.57	Left	0	V2	0.864	0.292	1.169	1.006	1.016	0.343	0.635	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	NJ27F	99.36	0.13	2437	6	1	5.25	3.27	Back	0	V1	0.117	0.047	1.578	1.006	0.186	0.075	0.116	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	NJ27F	99.36	0.15	2437	6	1	5.25	3.27	Bottom	0	V1	0.053	0.015	1.578	1.006	0.084	0.024	0.053	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	1a	NJ27F	99.36	0.01	2437	6	1	5.25	3.27	Left	0	V1	0.154	0.051	1.578	1.006	0.244	0.081	0.153	
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 3a

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]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	XW67M	99.36	0.06	2437	6	1	12.25	11.74	Back	0	V2	0.611	0.275	1.125	1.006	0.691	0.311	0.432	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	XW67M	99.36	0.17	2437	6	1	12.25	11.74	Top	0	V2	0.388	0.124	1.125	1.006	0.439	0.140	0.274	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	XW67M	99.36	0.09	2437	6	1	12.25	11.74	Bottom	0	V2	0.017	0.006	1.125	1.006	0.019	0.007	0.012	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	XW67M	99.36	0.04	2412	1	1	12.25	11.73	Right	0	V2	0.819	0.299	1.127	1.006	0.929	0.339	0.581	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	XW67M	99.36	0.00	2437	6	1	12.25	11.74	Right	0	V2	0.915	0.331	1.125	1.006	1.036	0.375	0.648	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	9QLN2	99.36	0.08	2462	11	1	12.25	11.76	Right	0	V1	0.931	0.336	1.119	1.006	1.048	0.378	0.655	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	XW67M	99.36	0.01	2462	11	1	12.25	11.69	Right	0	V2	0.924	0.334	1.138	1.006	1.058	0.382	0.661	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	XW67M	99.36	0.04	2437	6	1	12.25	11.74	Left	0	V2	0.000	0.000	1.125	1.006	0.000	0.000	0.000	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	XW67M	99.36	-0.12	2412	1	1	6.25	4.31	Back	0	V2	0.067	0.029	1.563	1.006	0.105	0.046	0.066	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	XW67M	99.36	-0.01	2412	1	1	6.25	4.31	Top	0	V2	0.047	0.014	1.563	1.006	0.074	0.022	0.046	
Body	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	3a	XW67M	99.36	0.11	2412	1	1	6.25	4.31	Right	0	V2	0.121	0.042	1.563	1.006	0.190	0.066	0.119	
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 5 GHz WIFI SISO Standalone SAR

Table 10-95 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	NJ27F	95.04	-0.06	5210	42	U-NII-1	29.3	10.00	9.09	Back	0	V1	0.713	0.212	1.233	1.052	0.925	0.275	0.578	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	11Q0X	95.04	0.11	5210	42	U-NII-1	29.3	10.00	9.48	Back	0	V2	0.751	0.225	1.127	1.052	0.890	0.267	0.556	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	NJ27F	95.04	0.09	5210	42	U-NII-1	29.3	10.00	9.09	Top	0	V1	0.002	0.000	1.233	1.052	0.003	0.000	0.002	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	NJ27F	95.04	0.21	5210	42	U-NII-1	29.3	10.00	9.09	Bottom	0	V1	0.482	0.111	1.233	1.052	0.625	0.144	0.391	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	NJ27F	95.04	0.07	5210	42	U-NII-1	29.3	10.00	9.09	Right	0	V1	0.010	0.000	1.233	1.052	0.013	0.000	0.008	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	NJ27F	95.04	0.07	5210	42	U-NII-1	29.3	10.00	9.09	Left	0	V1	0.071	0.013	1.233	1.052	0.092	0.017	0.058	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	NJ27F	95.04	0.05	5210	42	U-NII-1	29.3	4.00	3.21	Back	0	V1	0.148	0.041	1.199	1.052	0.187	0.052	0.117	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	NJ27F	95.04	0.02	5210	42	U-NII-1	29.3	4.00	3.21	Bottom	0	V1	0.104	0.021	1.199	1.052	0.131	0.026	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										

Table 10-96 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	L7170	95.04	-0.21	5530	106	U-NII-2C	29.3	8.75	8.29	Back	0	V2	0.803	0.205	1.112	1.052	0.939	0.240	0.587	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	L7170	95.04	0.01	5610	122	U-NII-2C	29.3	8.75	8.42	Back	0	V2	0.931	0.238	1.079	1.052	1.057	0.270	0.661	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	L7170	95.04	-0.01	5610	122	U-NII-2C	29.3	8.75	8.42	Back	0	V2	0.834	0.213	1.079	1.052	0.913	0.244	0.571	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	L7170	95.04	-0.19	5690	138	U-NII-2C	29.3	8.75	8.46	Back	0	V2	0.941	0.240	1.069	1.052	1.058	0.270	0.661	A31
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	QQGXD	95.04	0.00	5690	138	U-NII-2C	29.3	8.75	8.43	Back	0	V1	0.899	0.237	1.076	1.052	1.018	0.268	0.636	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	L7170	95.04	-0.04	5690	138	U-NII-2C	29.3	8.75	8.46	Back	0	V2	0.863	0.223	1.069	1.052	0.971	0.251	0.607	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	L7170	95.04	0.07	5690	138	U-NII-2C	29.3	8.75	8.46	Top	0	V2	0.000	0.000	1.069	1.052	0.000	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	L7170	95.04	0.02	5690	138	U-NII-2C	29.3	8.75	8.46	Bottom	0	V2	0.421	0.094	1.069	1.052	0.473	0.106	0.296	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	L7170	95.04	0.04	5690	138	U-NII-2C	29.3	8.75	8.46	Right	0	V2	0.000	0.000	1.069	1.052	0.000	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	L7170	95.04	-0.07	5690	138	U-NII-2C	29.3	8.75	8.46	Left	0	V2	0.035	0.003	1.069	1.052	0.039	0.003	0.024	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	L7170	95.04	-0.08	5610	122	U-NII-2C	29.3	2.75	2.32	Back	0	V2	0.193	0.051	1.104	1.052	0.224	0.059	0.140	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	L7170	95.04	-0.04	5610	122	U-NII-2C	29.3	2.75	2.32	Bottom	0	V2	0.111	0.025	1.104	1.052	0.129	0.029	0.081	
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 10-97 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	4CWM9	95.04	-0.01	5775	155	U-NII-3	29.3	9.25	8.38	Back	0	V1	0.748	0.202	1.222	1.052	0.962	0.260	0.601	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	LJQPD	95.04	-0.01	5775	155	U-NII-3	29.3	9.25	8.30	Back	0	V2	0.808	0.216	1.245	1.052	1.058	0.283	0.661	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	LJQPD	95.04	0.04	5775	155	U-NII-3	29.3	9.25	8.30	Top	0	V2	0.000	0.000	1.245	1.052	0.000	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	LJQPD	95.04	0.11	5775	155	U-NII-3	29.3	9.25	8.30	Bottom	0	V2	0.450	0.100	1.245	1.052	0.589	0.131	0.368	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	LJQPD	95.04	0.01	5775	155	U-NII-3	29.3	9.25	8.30	Right	0	V2	0.010	0.001	1.245	1.052	0.013	0.001	0.008	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	LJQPD	95.04	0.02	5775	155	U-NII-3	29.3	9.25	8.30	Left	0	V2	0.038	0.004	1.245	1.052	0.050	0.005	0.031	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	LJQPD	95.04	0.05	5775	155	U-NII-3	29.3	3.25	2.22	Back	0	V2	0.173	0.045	1.268	1.052	0.231	0.060	0.144	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	1b	LJQPD	95.04	0.02	5775	155	U-NII-3	29.3	3.25	2.22	Bottom	0	V2	0.103	0.021	1.268	1.052	0.137	0.028	0.086	
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 10-98 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	HH9X5	95.04	-0.07	5290	58	U-NII-2A	29.3	10.00	9.10	Back	0	V1	0.850	0.189	1.230	1.052	1.100	0.245	0.688	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	2N1FD	95.04	0.02	5290	58	U-NII-2A	29.3	10.00	9.29	Back	0	V2	0.829	0.186	1.178	1.052	1.027	0.231	0.642	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	HH9X5	95.04	-0.09	5290	58	U-NII-2A	29.3	10.00	9.10	Top	0	V1	0.184	0.050	1.230	1.052	0.238	0.065	0.149	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	HH9X5	95.04	0.02	5290	58	U-NII-2A	29.3	10.00	9.10	Bottom	0	V1	0.005	0.000	1.230	1.052	0.006	0.000	0.004	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	HH9X5	95.04	-0.03	5290	58	U-NII-2A	29.3	10.00	9.10	Right	0	V1	0.533	0.141	1.230	1.052	0.690	0.182	0.431	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	HH9X5	95.04	0.06	5290	58	U-NII-2A	29.3	10.00	9.10	Left	0	V1	0.002	0.000	1.230	1.052	0.003	0.000	0.002	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	HH9X5	95.04	-0.17	5290	58	U-NII-2A	29.3	4.00	2.80	Back	0	V1	0.206	0.042	1.318	1.052	0.286	0.058	0.179	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	HH9X5	95.04	0.06	5290	58	U-NII-2A	29.3	4.00	2.80	Top	0	V1	0.041	0.007	1.318	1.052	0.057	0.010	0.036	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	HH9X5	95.04	0.05	5290	58	U-NII-2A	29.3	4.00	2.80	Right	0	V1	0.120	0.023	1.318	1.052	0.166	0.032	0.104	
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 3a

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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	-0.06	5530	106	U-NII-2C	29.3	9.75	9.36	Back	0	V1	0.924	0.201	1.094	1.052	1.063	0.231	0.664	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	2N1FD	95.04	-0.09	5530	106	U-NII-2C	29.3	9.75	9.65	Back	0	V2	0.862	0.184	1.023	1.052	0.928	0.198	0.580	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	-0.03	5610	122	U-NII-2C	29.3	9.75	9.51	Back	0	V1	0.911	0.195	1.057	1.052	1.013	0.217	0.633	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	-0.05	5690	138	U-NII-2C	29.3	9.75	9.07	Back	0	V1	0.789	0.165	1.169	1.052	0.970	0.203	0.606	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	0.02	5610	122	U-NII-2C	29.3	9.75	9.51	Top	0	V1	0.144	0.039	1.057	1.052	0.160	0.043	0.100	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	0.07	5610	122	U-NII-2C	29.3	9.75	9.51	Bottom	0	V1	0.000	0.000	1.057	1.052	0.000	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	0.03	5530	106	U-NII-2C	29.3	9.75	9.36	Right	0	V1	0.742	0.180	1.094	1.052	0.854	0.207	0.534	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	0.08	5610	122	U-NII-2C	29.3	9.75	9.51	Right	0	V1	0.775	0.189	1.057	1.052	0.862	0.210	0.539	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	0.03	5690	138	U-NII-2C	29.3	9.75	9.07	Right	0	V1	0.656	0.158	1.169	1.052	0.807	0.194	0.504	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	0.01	5610	122	U-NII-2C	29.3	9.75	9.51	Left	0	V1	0.000	0.000	1.057	1.052	0.000	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	0.01	5610	122	U-NII-2C	29.3	3.75	2.62	Back	0	V1	0.157	0.030	1.297	1.052	0.214	0.041	0.134	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	0.09	5610	122	U-NII-2C	29.3	3.75	2.62	Top	0	V1	0.018	0.002	1.297	1.052	0.025	0.003	0.016	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	-0.14	5610	122	U-NII-2C	29.3	3.75	2.62	Right	0	V1	0.133	0.028	1.297	1.052	0.181	0.038	0.113	
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 10-100 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	-0.07	5775	155	U-NII-3	29.3	10.00	9.57	Back	0	V1	0.910	0.192	1.104	1.052	1.057	0.223	0.661	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	3XGHJ	95.04	-0.06	5775	155	U-NII-3	29.3	10.00	9.67	Back	0	V2	0.856	0.184	1.079	1.052	0.972	0.209	0.608	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	-0.05	5775	155	U-NII-3	29.3	10.00	9.57	Top	0	V1	0.127	0.034	1.104	1.052	0.147	0.039	0.092	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	0.06	5775	155	U-NII-3	29.3	10.00	9.57	Bottom	0	V1	0.006	0.000	1.104	1.052	0.007	0.000	0.004	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	-0.09	5775	155	U-NII-3	29.3	10.00	9.57	Right	0	V1	0.767	0.185	1.104	1.052	0.891	0.215	0.557	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	0.06	5775	155	U-NII-3	29.3	10.00	9.57	Left	0	V1	0.002	0.000	1.104	1.052	0.002	0.000	0.001	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	-0.20	5775	155	U-NII-3	29.3	4.00	2.84	Back	0	V1	0.178	0.036	1.306	1.052	0.245	0.049	0.153	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	0.08	5775	155	U-NII-3	29.3	4.00	2.84	Top	0	V1	0.020	0.002	1.306	1.052	0.027	0.003	0.017	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3a	JCVDXJ	95.04	0.09	5775	155	U-NII-3	29.3	4.00	2.84	Right	0	V1	0.146	0.031	1.306	1.052	0.201	0.043	0.126	
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 10-101 Antenna 3c

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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	3c	2N1FD	97.75	-0.08	5230	46	U-NII-1	13.5	16.25	14.94	Back	0	V2	0.202	0.056	1.352	1.023	0.279	0.077	0.174	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	3c	VQN77	97.75	-0.04	5190	38	U-NII-1	13.5	16.00	14.23	Top	0	V1	0.531	0.190	1.503	1.023	0.816	0.292	0.510	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	3c	VQN77	97.75	-0.05	5230	46	U-NII-1	13.5	16.25	15.04	Top	0	V1	0.729	0.254	1.321	1.023	0.985	0.343	0.616	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	3c	2N1FD	97.75	-0.08	5230	46	U-NII-1	13.5	16.25	14.94	Top	0	V2	0.722	0.230	1.352	1.023	0.999	0.346	0.624	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	3c	2N1FD	97.75	0.08	5230	46	U-NII-1	13.5	16.25	14.94	Bottom	0	V2	0.004	0.000	1.352	1.023	0.006	0.000	0.004	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	3c	2N1FD	97.75	0.01	5230	46	U-NII-1	13.5	16.25	14.94	Right	0	V2	0.011	0.001	1.352	1.023	0.015	0.001	0.009	
Body	5 GHz WIFI/ IEEE 802.11n	40	OFDM	3c	2N1FD	97.75	0.04	5230	46	U-NII-1	13.5	16.25	14.94	Left	0	V2	0.072	0.013	1.352	1.023	0.100	0.018	0.063	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2N1FD	95.04	-0.06	5210	42	U-NII-1	29.3	10.25	9.25	Back	0	V2	0.035	0.008	1.259	1.052	0.046	0.011	0.029	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	2N1FD	95.04	0.14	5210	42	U-NII-1	29.3	10.25	9.25	Top	0	V2	0.155	0.052	1.259	1.052	0.205	0.069	0.128	
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 10-102 Antenna 3c

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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHJ	95.04	0.04	5610	122	U-NII-2C	29.3	14.25	13.64	Back	0	V2	0.151	0.054	1.151	1.052	0.183	0.065	0.114	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHJ	95.04	0.01	5530	106	U-NII-2C	29.3	14.25	13.47	Top	0	V2	0.807	0.268	1.197	1.052	1.016	0.337	0.635	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHJ	95.04	0.02	5610	122	U-NII-2C	29.3	14.25	13.64	Top	0	V2	0.879	0.291	1.151	1.052	1.064	0.352	0.665	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHJ	95.04	0.02	5690	138	U-NII-2C	29.3	14.25	13.63	Top	0	V2	0.878	0.285	1.153	1.052	1.065	0.346	0.666	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	9QLN2	95.04	-0.14	5690	138	U-NII-2C	29.3	14.25	13.46	Top	0	V1	0.793	0.260	1.199	1.052	1.000	0.328	0.625	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHJ	95.04	0.05	5610	122	U-NII-2C	29.3	14.25	13.64	Bottom	0	V2	0.006	0.000	1.151	1.052	0.007	0.000	0.004	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHJ	95.04	0.07	5610	122	U-NII-2C	29.3	14.25	13.64	Right	0	V2	0.011	0.000	1.151	1.052	0.013	0.000	0.008	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHJ	95.04	0.05	5610	122	U-NII-2C	29.3	14.25	13.64	Left	0	V2	0.040	0.006	1.151	1.052	0.048	0.007	0.030	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHJ	95.04	0.01	5610	122	U-NII-2C	29.3	8.25	7.52	Back	0	V2	0.027	0.005	1.183	1.052	0.034	0.006	0.021	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHJ	95.04	0.03	5610	122	U-NII-2C	29.3	8.25	7.52	Top	0	V2	0.188	0.058	1.183	1.052	0.234	0.072	0.146	
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 10-103 Antenna 3c

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]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHU	95.04	0.02	5775	155	U-NII-3	29.3	14.25	13.94	Back	0	V2	0.184	0.055	1.074	1.052	0.208	0.062	0.130	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHU	95.04	-0.19	5775	155	U-NII-3	29.3	14.25	13.94	Top	0	V2	0.934	0.299	1.074	1.052	1.055	0.338	0.659	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	9QLN	95.04	0.02	5775	155	U-NII-3	29.3	14.25	13.92	Top	0	V1	0.926	0.301	1.079	1.052	1.051	0.342	0.657	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHU	95.04	0.01	5775	155	U-NII-3	29.3	14.25	13.94	Bottom	0	V2	0.000	0.000	1.074	1.052	0.000	0.000	0.000	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHU	95.04	0.06	5775	155	U-NII-3	29.3	14.25	13.94	Right	0	V2	0.011	0.002	1.074	1.052	0.012	0.002	0.008	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHU	95.04	0.08	5775	155	U-NII-3	29.3	14.25	13.94	Left	0	V2	0.035	0.003	1.074	1.052	0.040	0.003	0.025	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHU	95.04	0.01	5775	155	U-NII-3	29.3	8.25	7.32	Back	0	V2	0.030	0.005	1.239	1.052	0.039	0.007	0.024	
Body	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	3c	3XGHU	95.04	0.03	5775	155	U-NII-3	29.3	8.25	7.32	Top	0	V2	0.154	0.046	1.239	1.052	0.201	0.060	0.126	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.31 6 GHz WIFI SISO Standalone SAR and APD

Table 10-104 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	0.09	6025	15	68.1	10.75	10.61	Back	0	V1	0.992	0.378	1.033	1.023	1.048	0.294	0.655	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	G4PWH	97.74	-0.03	6025	15	68.1	10.75	10.10	Back	0	V2	0.873	0.251	1.161	1.023	1.037	0.298	0.648	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	-0.04	6025	15	68.1	10.75	10.61	Back	0	V1	1.040	0.294	1.033	1.023	1.099	0.311	0.687	A32
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	-0.02	6345	79	68.1	11.00	9.43	Back	0	V1	0.743	0.209	1.435	1.023	1.091	0.307	0.682	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	-0.08	6505	111	68.1	10.50	8.83	Back	0	V1	0.730	0.189	1.469	1.023	1.097	0.284	0.686	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	0.01	6665	143	68.1	11.00	10.15	Back	0	V1	0.880	0.217	1.216	1.023	1.095	0.270	0.684	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	-0.10	6985	207	68.1	12.50	10.60	Back	0	V1	0.666	0.168	1.549	1.023	1.055	0.266	0.659	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	0.04	6985	207	68.1	12.50	10.60	Top	0	V1	0.000	0.000	1.549	1.023	0.000	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	0.01	6985	207	68.1	12.50	10.60	Bottom	0	V1	0.462	0.113	1.549	1.023	0.732	0.179	0.458	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	0.19	6985	207	68.1	12.50	10.60	Right	0	V1	0.000	0.000	1.549	1.023	0.000	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	-0.15	6985	207	68.1	12.50	10.60	Left	0	V1	0.049	0.007	1.549	1.023	0.078	0.011	0.049	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	-0.06	6985	207	68.1	6.50	5.39	Back	0	V1	0.268	0.064	1.291	1.023	0.354	0.085	0.221	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	0.05	6985	207	68.1	6.50	5.39	Bottom	0	V1	0.249	0.057	1.291	1.023	0.329	0.075	0.206	
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

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)]	APD Exposure Ratio	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	0.09	6025	15	68.1	10.75	10.61	Back	0	V1	6.510	1.033	1.023	6.880	0.344	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	G4PWH	97.74	-0.03	6025	15	68.1	10.75	10.10	Back	0	V2	5.770	1.161	1.023	6.853	0.343	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	-0.04	6025	15	68.1	10.75	10.61	Back	0	V1	6.780	1.033	1.023	7.165	0.358	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	-0.02	6345	79	68.1	11.00	9.43	Back	0	V1	4.810	1.435	1.023	7.061	0.353	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	-0.08	6505	111	68.1	10.50	8.83	Back	0	V1	4.350	1.469	1.023	6.537	0.327	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	0.01	6665	143	68.1	11.00	10.15	Back	0	V1	5.050	1.216	1.023	6.282	0.314	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	-0.10	6985	207	68.1	12.50	10.60	Back	0	V1	3.880	1.549	1.023	6.148	0.307	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	0.04	6985	207	68.1	12.50	10.60	Top	0	V1	0.000	1.549	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	0.01	6985	207	68.1	12.50	10.60	Bottom	0	V1	2.600	1.549	1.023	4.120	0.206	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	0.19	6985	207	68.1	12.50	10.60	Right	0	V1	0.000	1.549	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	-0.15	6985	207	68.1	12.50	10.60	Left	0	V1	0.170	1.549	1.023	0.269	0.013	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	-0.06	6985	207	68.1	6.50	5.39	Back	0	V1	1.490	1.291	1.023	1.968	0.098	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	1b	9QLN2	97.75	0.05	6985	207	68.1	6.50	5.39	Bottom	0	V1	1.330	1.291	1.023	1.757	0.088	

Table 10-105 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	-0.01	6025	15	68.1	9.50	8.96	Back	0	V1	0.948	0.203	1.132	1.023	1.098	0.235	0.686	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XW67M	97.74	-0.08	6025	15	68.1	9.50	8.65	Back	0	V2	0.858	0.185	1.216	1.023	1.067	0.230	0.667	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	-0.03	6345	79	68.1	8.75	8.40	Back	0	V1	0.978	0.212	1.084	1.023	1.085	0.235	0.678	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	-0.05	6505	111	68.1	8.25	7.92	Back	0	V1	0.987	0.209	1.079	1.023	1.089	0.231	0.681	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	-0.03	6665	143	68.1	8.00	7.53	Back	0	V1	0.954	0.204	1.114	1.023	1.087	0.232	0.679	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	0.03	6985	207	68.1	8.75	8.61	Back	0	V1	1.030	0.220	1.033	1.023	1.088	0.232	0.680	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	0.07	6025	15	68.1	9.50	8.96	Top	0	V1	0.171	0.045	1.132	1.023	0.198	0.052	0.124	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	0.07	6025	15	68.1	9.50	8.96	Bottom	0	V1	0.009	0.003	1.132	1.023	0.010	0.003	0.006	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	0.03	6025	15	68.1	9.50	8.96	Right	0	V1	0.651	0.150	1.132	1.023	0.754	0.174	0.471	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	0.02	6025	15	68.1	9.50	8.96	Left	0	V1	0.003	0.000	1.132	1.023	0.003	0.000	0.002	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	-0.09	6025	15	68.1	3.50	2.95	Back	0	V1	0.194	0.038	1.135	1.023	0.225	0.044	0.141	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	0.08	6025	15	68.1	3.50	2.95	Top	0	V1	0.017	0.003	1.135	1.023	0.020	0.003	0.013	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	0.04	6025	15	68.1	3.50	2.95	Right	0	V1	0.135	0.028	1.135	1.023	0.157	0.033	0.098	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram										

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	-0.01	6025	15	68.1	9.50	8.96	Back	0	V1	4.840	1.132	1.023	5.605	0.280	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	XW67M	97.74	-0.08	6025	15	68.1	9.50	8.65	Back	0	V2	4.400	1.216	1.023	5.473	0.274	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	-0.03	6345	79	68.1	8.75	8.40	Back	0	V1	5.020	1.084	1.023	5.567	0.278	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	-0.05	6505	111	68.1	8.25	7.92	Back	0	V1	4.970	1.079	1.023	5.486	0.274	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	-0.03	6665	143	68.1	8.00	7.53	Back	0	V1	4.840	1.114	1.023	5.516	0.276	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	0.03	6985	207	68.1	8.75	8.61	Back	0	V1	5.240	1.033	1.023	5.537	0.277	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	0.07	6025	15	68.1	9.50	8.96	Top	0	V1	1.050	1.132	1.023	1.216	0.061	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	0.07	6025	15	68.1	9.50	8.96	Bottom	0	V1	0.063	1.132	1.023	0.073	0.004	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	0.03	6025	15	68.1	9.50	8.96	Right	0	V1	3.520	1.132	1.023	4.076	0.204	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	0.02	6025	15	68.1	9.50	8.96	Left	0	V1	0.021	1.132	1.023	0.024	0.001	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	-0.09	6025	15	68.1	3.50	2.95	Back	0	V1	0.898	1.135	1.023	1.043	0.052	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	0.08	6025	15	68.1	3.50	2.95	Top	0	V1	0.084	1.135	1.023	0.098	0.005	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3a	NJ27F	97.75	0.04	6025	15	68.1	3.50	2.95	Right	0	V1	0.673	1.135	1.023	0.781	0.039	

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Table 10-106 Antenna 3c

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]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.01	6345	79	68.1	12.25	11.24	Back	0	V1	0.069	0.025	1.262	1.023	0.089	0.032	0.056	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.15	6025	15	68.1	12.00	11.23	Top	0	V1	0.600	0.191	1.194	1.023	0.733	0.233	0.458	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	-0.11	6345	79	68.1	12.25	11.24	Top	0	V1	0.639	0.194	1.262	1.023	0.825	0.250	0.516	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.02	6505	111	68.1	11.75	11.24	Top	0	V1	0.759	0.222	1.125	1.023	0.874	0.255	0.546	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.01	6665	143	68.1	11.50	10.44	Top	0	V1	0.663	0.193	1.276	1.023	0.865	0.252	0.541	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.07	6985	207	68.1	11.50	11.18	Top	0	V1	0.914	0.255	1.076	1.023	1.006	0.281	0.629	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	3XGHJ	97.74	-0.04	6985	207	68.1	11.50	11.07	Top	0	V2	0.891	0.241	1.104	1.023	1.006	0.272	0.629	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.04	6345	79	68.1	12.25	11.24	Bottom	0	V1	0.000	0.000	1.262	1.023	0.000	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.08	6345	79	68.1	12.25	11.24	Right	0	V1	0.006	0.000	1.262	1.023	0.008	0.000	0.005	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.05	6345	79	68.1	12.25	11.24	Left	0	V1	0.001	0.000	1.262	1.023	0.001	0.000	0.001	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.12	6025	15	68.1	8.50	6.67	Top	0	V1	0.170	0.055	1.524	1.023	0.265	0.086	0.166	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram										

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.01	6345	79	68.1	12.25	11.24	Back	0	V1	0.555	1.262	1.023	0.717	0.036	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.15	6025	15	68.1	12.00	11.23	Top	0	V1	4.360	1.194	1.023	5.326	0.266	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	-0.11	6345	79	68.1	12.25	11.24	Top	0	V1	4.430	1.262	1.023	5.719	0.286	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.02	6505	111	68.1	11.75	11.24	Top	0	V1	5.090	1.125	1.023	5.858	0.293	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.01	6665	143	68.1	11.50	10.44	Top	0	V1	4.430	1.276	1.023	5.783	0.289	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.07	6985	207	68.1	11.50	11.18	Top	0	V1	5.870	1.076	1.023	6.461	0.323	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	3XGHJ	97.74	-0.04	6985	207	68.1	11.50	11.07	Top	0	V2	5.560	1.104	1.023	6.279	0.314	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.04	6345	79	68.1	12.25	11.24	Bottom	0	V1	0.002	1.262	1.023	0.003	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.08	6345	79	68.1	12.25	11.24	Right	0	V1	0.013	1.262	1.023	0.017	0.001	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.05	6345	79	68.1	12.25	11.24	Left	0	V1	0.000	1.262	1.023	0.000	0.000	
Body	6 GHz WIFI/ IEEE 802.11ax	160	OFDM	3c	971RF	97.75	0.12	6025	15	68.1	8.50	6.67	Top	0	V1	1.240	1.524	1.023	1.933	0.097	

10.32 2.4 GHz Bluetooth SISO Standalone SAR

Table 10-107 Antenna 1a

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]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	0.01	2402	0	1	12.50	12.21	Back	0	V1	0.894	0.328	1.069	1.007	0.963	0.353	0.602	
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	0.04	2441	39	1	12.50	12.11	Back	0	V1	0.796	0.293	1.094	1.007	0.877	0.323	0.548	
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	0.07	2480	78	1	12.50	12.03	Back	0	V1	0.919	0.332	1.114	1.007	1.031	0.373	0.644	A33
Body	2.4 GHz Bluetooth	FHSS	1a	H2VMQ	76.93	0.07	2480	78	1	12.50	12.00	Back	0	V2	0.846	0.308	1.122	1.007	0.956	0.348	0.598	
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	0.04	2402	0	1	12.50	12.21	Top	0	V1	0.019	0.007	1.069	1.007	0.020	0.008	0.013	
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	0.00	2402	0	1	12.50	12.21	Bottom	0	V1	0.383	0.119	1.069	1.007	0.412	0.128	0.258	
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	0.01	2402	0	1	12.50	12.21	Right	0	V1	0.000	0.000	1.069	1.007	0.000	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	0.19	2402	0	1	12.50	12.21	Left	0	V1	0.846	0.285	1.069	1.007	0.911	0.307	0.569	
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	0.09	2441	39	1	12.50	12.11	Left	0	V1	0.752	0.252	1.094	1.007	0.829	0.278	0.518	
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	0.02	2480	78	1	12.50	12.03	Left	0	V1	0.901	0.308	1.114	1.007	1.011	0.346	0.632	
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	0.00	2402	0	1	8.00	6.97	Back	0	V1	0.351	0.128	1.268	1.007	0.448	0.164	0.280	
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	-0.06	2402	0	1	8.00	6.97	Bottom	0	V1	0.106	0.031	1.268	1.007	0.135	0.040	0.084	
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	0.07	2402	0	1	8.00	6.97	Left	0	V1	0.262	0.091	1.268	1.007	0.335	0.116	0.209	
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	0.05	2402	0	1	5.50	4.54	Back	0	V1	0.197	0.071	1.247	1.007	0.247	0.089	0.154	
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	-0.04	2402	0	1	5.50	4.54	Bottom	0	V1	0.063	0.018	1.247	1.007	0.079	0.023	0.049	
Body	2.4 GHz Bluetooth	FHSS	1a	971RF	76.93	0.12	2402	0	1	5.50	4.54	Left	0	V1	0.155	0.052	1.247	1.007	0.195	0.065	0.122	
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 10-108 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	3a	QQGXD	76.93	0.04	2480	78	1	12.50	11.44	Back	0	V1	0.428	0.190	1.276	1.007	0.550	0.244	0.344	
Body	2.4 GHz Bluetooth	FHSS	3a	QQGXD	76.93	0.08	2480	78	1	12.50	11.44	Top	0	V1	0.291	0.091	1.276	1.007	0.374	0.117	0.234	
Body	2.4 GHz Bluetooth	FHSS	3a	QQGXD	76.93	-0.08	2480	78	1	12.50	11.44	Bottom	0	V1	0.017	0.006	1.276	1.007	0.022	0.008	0.014	
Body	2.4 GHz Bluetooth	FHSS	3a	QQGXD	76.93	0.07	2402	0	1	12.50	11.20	Right	0	V1	0.758	0.268	1.349	1.007	1.030	0.364	0.644	
Body	2.4 GHz Bluetooth	FHSS	3a	QQGXD	76.93	0.03	2441	39	1	12.50	11.18	Right	0	V1	0.779	0.278	1.355	1.007	1.063	0.379	0.664	
Body	2.4 GHz Bluetooth	FHSS	3a	QQGXD	76.93	-0.01	2480	78	1	12.50	11.44	Right	0	V1	0.840	0.294	1.276	1.007	1.080	0.378	0.675	
Body	2.4 GHz Bluetooth	FHSS	3a	L7170	76.93	0.20	2480	78	1	12.50	11.14	Right	0	V2	0.784	0.276	1.368	1.007	1.080	0.380	0.675	
Body	2.4 GHz Bluetooth	FHSS	3a	QQGXD	76.93	0.07	2480	78	1	12.50	11.44	Left	0	V1	0.000	0.000	1.276	1.007	0.000	0.000	0.000	
Body	2.4 GHz Bluetooth	FHSS	3a	QQGXD	76.93	-0.01	2480	78	1	8.00	7.13	Back	0	V1	0.171	0.077	1.222	1.007	0.211	0.095	0.132	
Body	2.4 GHz Bluetooth	FHSS	3a	QQGXD	76.93	0.01	2480	78	1	8.00	7.13	Top	0	V1	0.127	0.039	1.222	1.007	0.156	0.048	0.098	
Body	2.4 GHz Bluetooth	FHSS	3a	QQGXD	76.93	-0.15	2480	78	1	8.00	7.13	Right	0	V1	0.259	0.091	1.222	1.007	0.319	0.112	0.199	
Body	2.4 GHz Bluetooth	FHSS	3a	QQGXD	76.93	-0.01	2480	78	1	5.50	4.66	Back	0	V1	0.094	0.042	1.213	1.007	0.115	0.051	0.072	
Body	2.4 GHz Bluetooth	FHSS	3a	QQGXD	76.93	-0.01	2480	78	1	5.50	4.66	Top	0	V1	0.061	0.019	1.213	1.007	0.075	0.023	0.047	
Body	2.4 GHz Bluetooth	FHSS	3a	QQGXD	76.93	-0.03	2480	78	1	5.50	4.66	Right	0	V1	0.147	0.051	1.213	1.007	0.180	0.062	0.113	
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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10.33 802.15.4 Standalone SAR

Table 10-109 Antenna 1a

Exposure	Band / Mode	Ant.	Serial Number	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]	Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	1a	971RF	-0.01	2405	11	1	13.00	11.17	Back	0	V1	0.964	0.364	1.524	0.881	0.333	0.551	
Body	802.15.4	1a	971RF	-0.07	2440	18	1	13.00	11.20	Back	0	V1	0.941	0.366	1.514	0.855	0.332	0.534	
Body	802.15.4	1a	971RF	-0.14	2475	25	1	13.00	11.89	Back	0	V1	0.818	0.338	1.291	0.634	0.262	0.396	
Body	802.15.4	1a	971RF	0.07	2475	25	1	13.00	11.89	Top	0	V1	0.009	0.003	1.291	0.007	0.002	0.004	
Body	802.15.4	1a	971RF	0.05	2475	25	1	13.00	11.89	Bottom	0	V1	0.302	0.096	1.291	0.234	0.074	0.146	
Body	802.15.4	1a	971RF	0.09	2475	25	1	13.00	11.89	Right	0	V1	0.000	0.000	1.291	0.000	0.000	0.000	
Body	802.15.4	1a	971RF	-0.02	2405	11	1	13.00	11.17	Left	0	V1	0.923	0.322	1.524	0.844	0.294	0.528	
Body	802.15.4	1a	971RF	0.04	2440	18	1	13.00	11.20	Left	0	V1	1.110	0.371	1.514	1.008	0.337	0.630	
Body	802.15.4	1a	H2VMQ	0.06	2440	18	1	13.00	11.26	Left	0	V2	1.050	0.353	1.493	0.941	0.316	0.588	
Body	802.15.4	1a	971RF	0.14	2475	25	1	13.00	11.89	Left	0	V1	1.100	0.363	1.291	0.852	0.281	0.533	
Body	802.15.4	1a	971RF	0.03	2440	18	1	8.50	7.31	Back	0	V1	0.273	0.115	1.315	0.215	0.091	0.134	
Body	802.15.4	1a	971RF	0.05	2440	18	1	8.50	7.31	Bottom	0	V1	0.147	0.043	1.315	0.116	0.034	0.073	
Body	802.15.4	1a	971RF	0.01	2440	18	1	8.50	7.31	Left	0	V1	0.439	0.147	1.315	0.346	0.116	0.216	
Body	802.15.4	1a	971RF	0.05	2440	18	1	6.00	5.33	Back	0	V1	0.147	0.061	1.167	0.103	0.043	0.064	
Body	802.15.4	1a	971RF	-0.01	2440	18	1	6.00	5.33	Bottom	0	V1	0.073	0.022	1.167	0.051	0.015	0.032	
Body	802.15.4	1a	971RF	-0.04	2440	18	1	6.00	5.33	Left	0	V1	0.224	0.076	1.167	0.157	0.053	0.098	
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: Manufacturer declared that maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at higher duty cycle of 100% and scaled down to 60%.

Table 10-110 Antenna 3a

Exposure	Band / Mode	Ant.	Serial Number	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]	Exposure Ratio (1g SAR)	Plot #
Body	802.15.4	3a	971RF	-0.11	2405	11	1	14.00	12.65	Back	0	V1	0.438	0.203	1.365	0.359	0.166	0.224	
Body	802.15.4	3a	971RF	-0.01	2405	11	1	14.00	12.65	Top	0	V1	0.322	0.102	1.365	0.264	0.084	0.165	
Body	802.15.4	3a	971RF	0.09	2405	11	1	14.00	12.65	Bottom	0	V1	0.026	0.010	1.365	0.021	0.008	0.013	
Body	802.15.4	3a	971RF	-0.01	2405	11	1	14.00	12.65	Right	0	V1	1.330	0.481	1.365	1.089	0.394	0.681	A34
Body	802.15.4	3a	971RF	-0.03	2405	11	1	14.00	12.65	Right	0	V1	1.270	0.456	1.365	1.040	0.373	0.650	
Body	802.15.4	3a	9QLN2	0.06	2405	11	1	14.00	12.50	Right	0	V2	1.280	0.480	1.413	1.085	0.407	0.678	
Body	802.15.4	3a	971RF	0.02	2440	18	1	14.00	12.03	Right	0	V1	1.060	0.380	1.574	1.001	0.359	0.626	
Body	802.15.4	3a	971RF	0.04	2475	25	1	14.00	12.44	Right	0	V1	1.190	0.426	1.432	1.022	0.366	0.639	
Body	802.15.4	3a	971RF	0.08	2405	11	1	14.00	12.65	Left	0	V1	0.000	0.000	1.365	0.000	0.000	0.000	
Body	802.15.4	3a	971RF	-0.05	2475	25	1	9.50	8.75	Back	0	V1	0.120	0.052	1.189	0.086	0.037	0.054	
Body	802.15.4	3a	971RF	-0.02	2475	25	1	9.50	8.75	Top	0	V1	0.094	0.029	1.189	0.067	0.021	0.042	
Body	802.15.4	3a	971RF	0.01	2475	25	1	9.50	8.75	Right	0	V1	0.219	0.078	1.189	0.156	0.056	0.098	
Body	802.15.4	3a	971RF	0.09	2475	25	1	7.00	5.93	Back	0	V1	0.056	0.024	1.279	0.043	0.018	0.027	
Body	802.15.4	3a	971RF	0.09	2475	25	1	7.00	5.93	Top	0	V1	0.042	0.012	1.279	0.032	0.009	0.020	
Body	802.15.4	3a	971RF	-0.03	2475	25	1	7.00	5.93	Right	0	V1	0.102	0.036	1.279	0.078	0.028	0.049	
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: Manufacturer declared that maximum source-based duty cycle of 802.15.4 mode is permanently limited to 60%. SAR measurement for 802.15.4 is evaluated at higher duty cycle of 100% and scaled down to 60%.

10.34 NB U-NII 1 Standalone SAR

Table 10-111 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 1	FHSS	1b	LIQPD	76.76	0.10	5245	High	4	11.00	10.97	Back	0	V2	0.833	0.258	1.007	1.010	0.847	0.262	0.529	
Body	NB U-NII 1	FHSS	1b	VQN77	76.76	-0.03	5245	High	4	11.00	10.84	Back	0	V1	0.883	0.273	1.038	1.010	0.925	0.286	0.578	
Body	NB U-NII 1	FHSS	1b	VQN77	76.76	-0.13	5245	High	4	11.00	10.84	Back	0	V1	0.906	0.283	1.038	1.010	0.949	0.297	0.593	
Body	NB U-NII 1	FHSS	1b	VQN77	76.76	-0.03	5162	Low	4	11.00	10.66	Back	0	V1	0.819	0.254	1.081	1.010	0.894	0.277	0.559	
Body	NB U-NII 1	FHSS	1b	VQN77	76.76	0.00	5204	Mid	4	11.00	10.83	Back	0	V1	0.876	0.273	1.040	1.010	0.920	0.287	0.575	
Body	NB U-NII 1	FHSS	1b	VQN77	76.76	0.01	5245	High	4	11.00	10.84	Top	0	V1	0.002	0.000	1.038	1.010	0.002	0.000	0.001	
Body	NB U-NII 1	FHSS	1b	VQN77	76.76	-0.18	5245	High	4	11.00	10.84	Bottom	0	V1	0.646	0.160	1.038	1.010	0.677	0.168	0.423	
Body	NB U-NII 1	FHSS	1b	VQN77	76.76	0.08	5245	High	4	11.00	10.84	Right	0	V1	0.000	0.000	1.038	1.010	0.000	0.000	0.000	
Body	NB U-NII 1	FHSS	1b	VQN77	76.76	-0.13	5245	High	4	11.00	10.84	Left	0	V1	0.047	0.010	1.038	1.010	0.049	0.010	0.031	
Body	NB U-NII 1	FHSS	1b	VQN77	77.07	-0.09	5162	Low	1	6.50	5.66	Back	0	V1	0.209	0.065	1.213	1.006	0.255	0.079	0.159	
Body	NB U-NII 1	FHSS	1b	VQN77	77.07	-0.10	5162	Low	1	6.50	5.66	Bottom	0	V1	0.164	0.038	1.213	1.006	0.200	0.046	0.125	
Body	NB U-NII 1	FHSS	1b	VQN77	77.07	0.05	5204	Mid	1	4.00	3.19	Back	0	V1	0.109	0.031	1.205	1.006	0.132	0.038	0.083	
Body	NB U-NII 1	FHSS	1b	VQN77	77.07	0.19	5204	Mid	1	4.00	3.19	Bottom	0	V1	0.084	0.019	1.205	1.006	0.102	0.023	0.064	
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 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 10-112 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 1	FHSS	3a	L7170	76.76	-0.19	5162	Low	4	12.50	11.60	Back	0	V2	0.487	0.112	1.230	1.010	0.605	0.139	0.378	
Body	NB U-NII 1	FHSS	3a	CVDXJ	76.76	-0.15	5162	Low	4	12.50	11.55	Back	0	V1	0.529	0.123	1.245	1.010	0.665	0.155	0.416	
Body	NB U-NII 1	FHSS	3a	L7170	76.76	0.14	5162	Low	4	12.50	11.60	Top	0	V2	0.065	0.016	1.230	1.010	0.081	0.020	0.051	
Body	NB U-NII 1	FHSS	3a	L7170	76.76	0.09	5162	Low	4	12.50	11.60	Bottom	0	V2	0.000	0.000	1.230	1.010	0.000	0.000	0.000	
Body	NB U-NII 1	FHSS	3a	L7170	76.76	0.02	5162	Low	4	12.50	11.60	Right	0	V2	0.295	0.067	1.230	1.010	0.366	0.083	0.229	
Body	NB U-NII 1	FHSS	3a	L7170	76.76	0.02	5162	Low	4	12.50	11.60	Left	0	V2	0.000	0.000	1.230	1.010	0.000	0.000	0.000	
Body	NB U-NII 1	FHSS	3a	CVDXJ	77.05	-0.12	5162	Low	1	9.50	8.98	Back	0	V1	0.337	0.075	1.127	1.006	0.382	0.085	0.239	
Body	NB U-NII 1	FHSS	3a	CVDXJ	77.05	-0.02	5162	Low	1	9.50	8.98	Right	0	V1	0.181	0.039	1.127	1.006	0.205	0.044	0.128	
Body	NB U-NII 1	FHSS	3a	CVDXJ	77.07	0.01	5162	Low	1	7.00	6.19	Back	0	V1	0.148	0.030	1.205	1.006	0.179	0.036	0.112	
Body	NB U-NII 1	FHSS	3a	CVDXJ	77.07	-0.08	5162	Low	1	7.00	6.19	Right	0	V1	0.096	0.018	1.205	1.006	0.116	0.022	0.073	
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 Antenna 3c

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]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 1	FHSS	3c	L7170	76.76	0.17	5204	Mid	8	13.50	12.84	Back	0	V2	0.103	0.031	1.164	1.010	0.121	0.036	0.076	
Body	NB U-NII 1	FHSS	3c	L7170	76.76	0.04	5204	Mid	8	13.50	12.84	Top	0	V2	0.359	0.127	1.164	1.010	0.422	0.149	0.264	
Body	NB U-NII 1	FHSS	3c	CVDXJ	76.76	-0.17	5204	Mid	8	13.50	12.54	Top	0	V1	0.381	0.135	1.247	1.010	0.480	0.170	0.300	
Body	NB U-NII 1	FHSS	3c	L7170	76.76	0.08	5204	Mid	8	13.50	12.84	Bottom	0	V2	0.000	0.000	1.164	1.010	0.000	0.000	0.000	
Body	NB U-NII 1	FHSS	3c	L7170	76.76	0.01	5204	Mid	8	13.50	12.84	Right	0	V2	0.010	0.002	1.164	1.010	0.012	0.002	0.008	
Body	NB U-NII 1	FHSS	3c	L7170	76.76	0.03	5204	Mid	8	13.50	12.84	Left	0	V2	0.008	0.000	1.164	1.010	0.009	0.000	0.006	
Body	NB U-NII 1	FHSS	3c	CVDXJ	76.76	0.03	5245	High	4	12.50	11.49	Back	0	V1	0.053	0.013	1.262	1.010	0.068	0.017	0.043	
Body	NB U-NII 1	FHSS	3c	CVDXJ	76.76	-0.01	5245	High	4	12.50	11.49	Top	0	V1	0.240	0.080	1.262	1.010	0.306	0.102	0.191	
Body	NB U-NII 1	FHSS	3c	CVDXJ	77.07	0.05	5162	Low	1	10.00	8.97	Back	0	V1	0.039	0.009	1.268	1.006	0.050	0.011	0.031	
Body	NB U-NII 1	FHSS	3c	CVDXJ	77.07	-0.05	5162	Low	1	10.00	8.97	Top	0	V1	0.134	0.048	1.268	1.006	0.171	0.061	0.107	
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.

10.35 NB U-NII 3 Standalone SAR

Table 10-114 Antenna 1b

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]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	1b	LJQPD	76.76	-0.14	5844	High	1	10.00	9.74	Back	0	V2	0.979	0.268	1.062	1.010	1.050	0.287	0.656	A35
Body	NB U-NII 3	FHSS	1b	VQN77	76.76	0.09	5844	High	1	10.00	9.42	Back	0	V1	0.837	0.243	1.143	1.010	0.966	0.280	0.604	
Body	NB U-NII 3	FHSS	1b	LJQPD	76.76	-0.08	5844	High	1	10.00	9.74	Back	0	V2	0.979	0.268	1.062	1.010	1.003	0.268	0.627	
Body	NB U-NII 3	FHSS	1b	LJQPD	76.76	0.04	5733	Low	1	10.00	9.96	Back	0	V2	0.928	0.263	1.009	1.010	0.945	0.268	0.591	
Body	NB U-NII 3	FHSS	1b	LJQPD	76.76	-0.02	5789	Mid	1	10.00	9.90	Back	0	V2	0.934	0.266	1.023	1.010	0.965	0.275	0.603	
Body	NB U-NII 3	FHSS	1b	LJQPD	76.76	0.02	5733	Low	1	10.00	9.96	Top	0	V2	0.000	0.000	1.009	1.010	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	1b	LJQPD	76.76	-0.11	5733	Low	1	10.00	9.96	Bottom	0	V2	0.509	0.118	1.009	1.010	0.519	0.120	0.324	
Body	NB U-NII 3	FHSS	1b	LJQPD	76.76	0.01	5733	Low	1	10.00	9.96	Right	0	V2	0.005	0.000	1.009	1.010	0.005	0.000	0.003	
Body	NB U-NII 3	FHSS	1b	LJQPD	76.76	0.01	5733	Low	1	10.00	9.96	Left	0	V2	0.052	0.007	1.009	1.010	0.053	0.007	0.033	
Body	NB U-NII 3	FHSS	1b	LJQPD	76.76	0.02	5733	Low	1	5.50	4.67	Back	0	V2	0.244	0.066	1.211	1.010	0.298	0.081	0.186	
Body	NB U-NII 3	FHSS	1b	LJQPD	76.76	-0.07	5733	Low	1	5.50	4.67	Bottom	0	V2	0.144	0.031	1.211	1.010	0.176	0.038	0.110	
Body	NB U-NII 3	FHSS	1b	LJQPD	76.76	0.03	5789	Mid	1	3.00	2.26	Back	0	V2	0.137	0.035	1.186	1.010	0.164	0.042	0.103	
Body	NB U-NII 3	FHSS	1b	LJQPD	76.76	-0.07	5789	Mid	1	3.00	2.26	Bottom	0	V2	0.085	0.018	1.186	1.010	0.102	0.022	0.064	
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 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 10-115 Antenna 3a

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]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	3a	L7170	76.76	-0.06	5844	High	1	12.00	11.14	Back	0	V2	0.856	0.192	1.219	1.010	1.054	0.236	0.659	
Body	NB U-NII 3	FHSS	3a	CVDXJ	76.76	-0.16	5844	High	1	12.00	10.94	Back	0	V1	0.767	0.174	1.276	1.010	0.988	0.224	0.618	
Body	NB U-NII 3	FHSS	3a	L7170	76.76	-0.05	5733	Low	1	12.00	11.35	Back	0	V2	0.768	0.172	1.161	1.010	0.900	0.202	0.563	
Body	NB U-NII 3	FHSS	3a	L7170	76.76	-0.14	5789	Mid	1	12.00	11.15	Back	0	V2	0.856	0.191	1.216	1.010	1.051	0.234	0.657	
Body	NB U-NII 3	FHSS	3a	L7170	76.76	0.00	5733	Low	1	12.00	11.35	Top	0	V2	0.195	0.048	1.161	1.010	0.229	0.056	0.143	
Body	NB U-NII 3	FHSS	3a	L7170	76.76	0.01	5733	Low	1	12.00	11.35	Bottom	0	V2	0.000	0.000	1.161	1.010	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	3a	L7170	76.76	0.06	5733	Low	1	12.00	11.35	Right	0	V2	0.278	0.058	1.161	1.010	0.326	0.068	0.204	
Body	NB U-NII 3	FHSS	3a	L7170	76.76	0.01	5733	Low	1	12.00	11.35	Left	0	V2	0.000	0.000	1.161	1.010	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	3a	L7170	76.76	-0.21	5733	Low	1	7.50	6.77	Back	0	V2	0.257	0.054	1.183	1.010	0.307	0.064	0.192	
Body	NB U-NII 3	FHSS	3a	L7170	76.76	0.05	5733	Low	1	7.50	6.77	Top	0	v2	0.058	0.012	1.183	1.010	0.069	0.014	0.043	
Body	NB U-NII 3	FHSS	3a	L7170	76.76	0.03	5733	Low	1	7.50	6.77	Right	0	V2	0.086	0.015	1.183	1.010	0.103	0.018	0.064	
Body	NB U-NII 3	FHSS	3a	L7170	76.76	-0.01	5844	High	1	5.00	3.93	Back	0	V2	0.138	0.028	1.279	1.010	0.178	0.036	0.111	
Body	NB U-NII 3	FHSS	3a	L7170	76.76	0.05	5844	High	1	5.00	3.93	Top	0	V2	0.043	0.004	1.279	1.010	0.056	0.005	0.035	
Body	NB U-NII 3	FHSS	3a	L7170	76.76	0.05	5844	High	1	5.00	3.93	Right	0	V2	0.044	0.005	1.279	1.010	0.057	0.006	0.036	
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 10-116 Antenna 3c

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]	Exposure Ratio (1g SAR)	Plot #
Body	NB U-NII 3	FHSS	3c	CVDXJ	76.76	0.05	5789	Mid	1	13.50	12.95	Back	0	V1	0.092	0.029	1.135	1.010	0.105	0.033	0.066	
Body	NB U-NII 3	FHSS	3c	L7170	76.76	-0.12	5789	Mid	1	13.50	12.51	Top	0	V2	0.512	0.164	1.256	1.010	0.649	0.208	0.406	
Body	NB U-NII 3	FHSS	3c	CVDXJ	76.76	-0.19	5789	Mid	1	13.50	12.95	Top	0	V1	0.575	0.183	1.135	1.010	0.659	0.210	0.412	
Body	NB U-NII 3	FHSS	3c	CVDXJ	76.76	0.04	5789	Mid	1	13.50	12.95	Bottom	0	V1	0.000	0.000	1.135	1.010	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	3c	CVDXJ	76.76	0.01	5789	Mid	1	13.50	12.95	Right	0	V1	0.004	0.000	1.135	1.010	0.005	0.000	0.003	
Body	NB U-NII 3	FHSS	3c	CVDXJ	76.76	0.02	5789	Mid	1	13.50	12.95	Left	0	V1	0.000	0.000	1.135	1.010	0.000	0.000	0.000	
Body	NB U-NII 3	FHSS	3c	CVDXJ	76.76	-0.08	5844	High	1	11.00	10.24	Back	0	V1	0.041	0.012	1.191	1.010	0.049	0.014	0.031	
Body	NB U-NII 3	FHSS	3c	CVDXJ	76.76	-0.18	5844	High	1	11.00	10.24	Top	0	V1	0.326	0.101	1.191	1.010	0.392	0.121	0.245	
Body	NB U-NII 3	FHSS	3c	CVDXJ	76.76	0.06	5733	Low	1	8.50	7.68	Back	0	V1	0.014	0.002	1.208	1.010	0.017	0.002	0.011	
Body	NB U-NII 3	FHSS	3c	CVDXJ	76.76	0.02	5733	Low	1	8.50	7.68	Top	0	V1	0.175	0.055	1.208	1.010	0.213	0.067	0.133	
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.

10.36 WPT Standalone SAR

Table 10-117 Antenna wPT

Exposure	Band / Mode	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Measured 1g SAR [W/kg]	Measured 10g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	wPT	11Q0X	0.03	13.60	Back	0.033	0.007	0.021	A36
Body	wPT	11Q0X	0.07	13.60	Top	0.000	0.000	0.000	
Body	wPT	11Q0X	0.08	13.60	Bottom	0.000	0.000	0.000	
Body	wPT	11Q0X	0.04	13.60	Right	0.001	0.000	0.001	
Body	wPT	11Q0X	0.03	13.60	Left	0.000	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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10.37 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 D04v01, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 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 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 D04v01, 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 D04v01 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see 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 8.14 and 8.22 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 8.17 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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10.38 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 (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6345.00	79	802.11ax	OFDM	160	12.25	11.24	-0.05	2	3C	V1	971RF	68.1	Back	97.75	0.25	9.990	1.554	1.262	1.023	1.600	3.210	1.780	3.571	
6025.00	15	802.11ax	OFDM	160	12.00	11.23	-0.12	2	3C	V1	971RF	68.1	Top	97.75	0.041	1.530	1.554	1.194	1.023	3.330	6.321	3.730	7.080	
6345.00	79	802.11ax	OFDM	160	12.25	11.24	0.15	2	3C	V1	971RF	68.1	Top	97.75	0.041	1.340	1.554	1.262	1.023	3.070	6.159	3.530	7.082	
6505.00	111	802.11ax	OFDM	160	11.75	11.24	0.15	2	3C	V1	971RF	68.1	Top	97.75	0.041	1.660	1.554	1.125	1.023	3.490	6.242	3.960	7.082	
6665.00	143	802.11ax	OFDM	160	11.50	10.44	-0.03	2	3C	V1	971RF	68.1	Top	97.75	0.041	1.400	1.554	1.276	1.023	3.110	6.309	3.490	7.080	
6985.00	207	802.11ax	OFDM	160	11.50	11.18	-0.10	2	3C	V1	971RF	68.1	Top	97.75	0.041	1.760	1.554	1.076	1.023	3.680	6.295	4.140	7.082	A37
6345.00	79	802.11ax	OFDM	160	12.25	11.24	0.14	2	3C	V1	971RF	68.1	Bottom	97.75	0.25	1.530	1.554	1.262	1.023	0.954	1.914	0.974	1.954	
6345.00	79	802.11ax	OFDM	160	12.25	11.24	-0.03	2	3C	V1	971RF	68.1	Right	97.75	0.25	3.790	1.554	1.262	1.023	0.907	1.820	0.965	1.936	
6345.00	79	802.11ax	OFDM	160	12.25	11.24	-0.06	2	3C	V1	971RF	68.1	Left	97.75	0.25	3.480	1.554	1.262	1.023	0.932	1.870	1.200	2.408	
6345.00	79	802.11ax	OFDM	160	12.25	11.24	-0.05	9.45	3C	V1	971RF	68.1	Back	97.75	0.25	8.160	1.554	1.262	1.023	1.220	2.448	1.290	2.588	
6345.00	79	802.11ax	OFDM	160	12.25	11.24	0.15	9.45	3C	V1	971RF	68.1	Top	97.75	0.041	1.190	1.554	1.262	1.023	1.340	2.688	1.400	2.809	
6025.00	15	802.11ax	OFDM	160	9.50	8.96	-0.12	2	3a	V1	NJ27F	68.1	Back	97.75	0.041	0.531	1.554	1.132	1.023	1.060	1.908	1.630	2.933	
6345.00	79	802.11ax	OFDM	160	8.75	8.40	-0.05	2	3a	V1	NJ27F	68.1	Back	97.75	0.041	0.763	1.554	1.084	1.023	1.550	2.671	2.160	3.722	
6505.00	111	802.11ax	OFDM	160	8.25	7.92	-0.21	2	3a	V1	NJ27F	68.1	Back	97.75	0.041	0.716	1.554	1.079	1.023	1.390	2.384	1.830	3.139	
6665.00	143	802.11ax	OFDM	160	8.00	7.53	-0.04	2	3a	V1	NJ27F	68.1	Back	97.75	0.041	0.802	1.554	1.114	1.023	1.740	3.081	2.070	3.666	
6985.00	207	802.11ax	OFDM	160	8.75	8.61	0.05	2	3a	V1	NJ27F	68.1	Back	97.75	0.041	0.968	1.554	1.033	1.023	2.320	3.810	2.990	4.910	
6025.00	15	802.11ax	OFDM	160	9.50	8.96	0.12	2	3a	V1	NJ27F	68.1	Top	97.75	0.041	2.220	1.554	1.132	1.023	0.645	1.161	0.759	1.366	
6025.00	15	802.11ax	OFDM	160	9.50	8.96	-0.14	2	3a	V1	NJ27F	68.1	Bottom	97.75	0.041	1.960	1.554	1.132	1.023	0.223	0.401	0.282	0.507	
6025.00	15	802.11ax	OFDM	160	9.50	8.96	0.05	2	3a	V1	NJ27F	68.1	Right	97.75	0.041	1.900	1.554	1.132	1.023	0.226	0.407	0.236	0.425	
6025.00	15	802.11ax	OFDM	160	9.50	8.96	0.03	2	3a	V1	NJ27F	68.1	Left	97.75	0.041	1.280	1.554	1.132	1.023	0.172	0.310	0.181	0.326	
6985.00	207	802.11ax	OFDM	160	9.50	8.61	-0.03	8.58	3a	V1	NJ27F	68.1	Back	97.75	0.041	0.719	1.554	1.227	1.023	0.806	1.572	0.943	1.839	
6025.00	15	802.11ax	OFDM	160	10.75	10.61	0.03	2	1b	V1	9QLN2	68.1	Back	97.75	0.041	0.671	1.554	1.033	1.023	1.280	2.102	2.120	3.481	
6345.00	79	802.11ax	OFDM	160	11.00	9.43	-0.16	2	1b	V1	9QLN2	68.1	Back	97.75	0.041	0.805	1.554	1.435	1.023	1.910	4.357	2.360	5.384	
6505.00	111	802.11ax	OFDM	160	10.50	8.83	-0.15	2	1b	V1	9QLN2	68.1	Back	97.75	0.041	0.838	1.554	1.469	1.023	1.990	4.647	2.170	5.068	
6665.00	143	802.11ax	OFDM	160	11.00	10.15	-0.05	2	1b	V1	9QLN2	68.1	Back	97.75	0.041	0.775	1.554	1.216	1.023	1.540	2.977	1.780	3.441	
6985.00	207	802.11ax	OFDM	160	12.50	10.60	0.02	2	1b	V1	9QLN2	68.1	Back	97.75	0.041	1.000	1.554	1.549	1.023	2.010	4.950	2.340	5.762	
6985.00	207	802.11ax	OFDM	160	12.50	10.60	0.02	2	1b	V1	9QLN2	68.1	Top	97.75	0.25	3.310	1.554	1.549	1.023	0.867	2.135	0.951	2.342	
6985.00	207	802.11ax	OFDM	160	12.50	10.60	-0.01	2	1b	V1	9QLN2	68.1	Bottom	97.75	0.25	1.910	1.554	1.549	1.023	1.250	3.078	1.480	3.645	
6985.00	207	802.11ax	OFDM	160	12.50	10.60	0.02	2	1b	V1	9QLN2	68.1	Right	97.75	0.25	5.910	1.554	1.549	1.023	1.070	2.635	1.120	2.758	
6985.00	207	802.11ax	OFDM	160	12.50	10.60	-0.17	2	1b	V1	9QLN2	68.1	Left	97.75	0.25	5.300	1.554	1.549	1.023	1.150	2.832	1.240	3.054	
6985.00	207	802.11ax	OFDM	160	12.50	10.60	-0.02	8.58	1b	V1	9QLN2	68.1	Back	97.75	0.041	0.552	1.554	1.549	1.023	0.652	1.606	0.753	1.854	
6985.00	207	802.11ax	OFDM	160	12.50	10.60	-0.03	8.58	1b	V1	9QLN2	68.1	Bottom	97.75	0.25	1.120	1.554	1.549	1.023	0.452	1.113	0.568	1.399	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population											Power Density 10 W/m² averaged over 4 cm²													

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10.39 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.
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 SAR MEASUREMENT VARIABILITY

11.1 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 11-1
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	680.5	136100	NR Band n71, 20 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	Ant 3b	N/A	Top	0 mm	0.910	0.898	1.01	N/A	N/A	N/A	N/A
835	819.00	26740	LTE Band 26, 10 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Ant 4	N/A	Back	0 mm	0.866	0.850	1.02	N/A	N/A	N/A	N/A
1750	1745.00	349000	NR Band n66, 40 MHz Bandwidth	DFT-s-OFDM, QPSK, 108 RB, 0 RB Offset	Ant 1b	N/A	Back	0 mm	0.945	0.881	1.07	N/A	N/A	N/A	N/A
1900	1882.50	376500	NR Band n25, 40 MHz Bandwidth	DFT-s-OFDM, QPSK, 1 RB, 1 RB Offset	Ant 1b	N/A	Back	0 mm	0.884	0.825	1.07	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 25 RB, 12 RB Offset	Ant 1b	N/A	Bottom	0 mm	0.836	0.802	1.04	N/A	N/A	N/A	N/A
2450	2405	11	802.15.4	N/A	Ant 3a	N/A	Right	0 mm	1.330	1.270	1.05	N/A	N/A	N/A	N/A
2600	2592.99	518598	NR Band n41, 100 MHz Bandwidth	DFT-s-OFDM, QPSK, 1 RB, 1 RB Offset	Ant 4	N/A	Back	0 mm	0.868	0.867	1.00	N/A	N/A	N/A	N/A
3500	3570.00	638000	NR Band n48, 40 MHz Bandwidth	DFT-s-OFDM, QPSK, 50 RB, 56 RB Offset	Ant 1a	N/A	Left	0 mm	0.823	0.726	1.13	N/A	N/A	N/A	N/A
3700	3624.99	641666	NR Band n48, 40 MHz Bandwidth	DFT-s-OFDM, QPSK, 1 RB, 1 RB Offset	Ant 1a	N/A	Left	0 mm	0.882	0.840	1.05	N/A	N/A	N/A	N/A
5250	5245	High	NB U-NII 1	FHSS	Ant 1b	4.0	Back	0 mm	0.906	0.883	1.03	N/A	N/A	N/A	N/A
5600	5610	122	5 GHz WIFI/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant 1b	29.3	Back	0 mm	0.931	0.804	1.16	N/A	N/A	N/A	N/A
5750	5690	138	5 GHz WIFI/ IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Ant 1b	29.3	Back	0 mm	0.941	0.863	1.09	N/A	N/A	N/A	N/A
5850	5844	High	NB U-NII 3	FHSS	Ant 1b	1.0	Back	0 mm	0.979	0.935	1.05	N/A	N/A	N/A	N/A
6500	6025.00	15	6 GHz WIFI/ IEEE 802.11ax, 160 MHz Bandwidth	OFDM	Ant 1b	68.1	Back	0 mm	1.040	0.992	1.05	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						

11.2 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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12 ADDITIONAL TESTING PER FCC GUIDANCE

12.1 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 12-1
LTE Band 41 Body Linearity Data – Antenna 1b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.70	17.30
Measured Output Power (dBm)	14.57	16.47
Measured SAR (W/kg)	0.744	0.770
Measured Power (mW)	28.64	44.36
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	18.13	19.21
% deviation from expected linearity		-2.31%

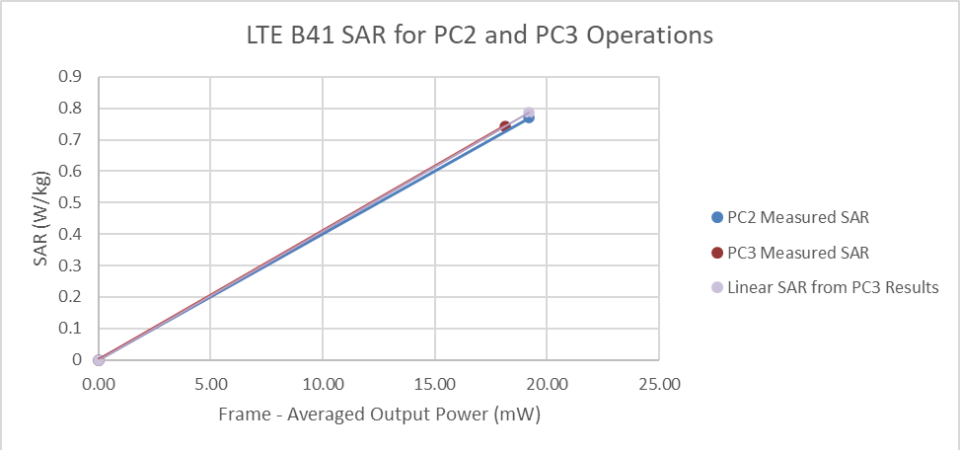

Figure 13-1
LTE Band 41 Body Linearity – Antenna 1b

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Table 12-2
LTE Band 41 ULCA Body Linearity Data – Antenna 1b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	15.70	17.30
Measured Output Power (dBm)	14.67	16.62
Measured SAR (W/kg)	0.759	0.787
Measured Power (mW)	29.31	45.92
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	18.55	19.88
% deviation from expected linearity		-3.25%

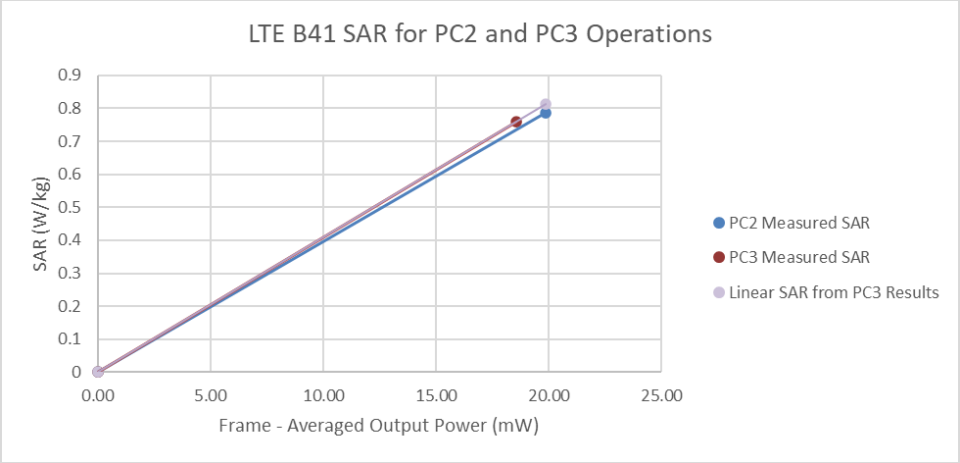

Figure 13-2
LTE Band 41 ULCA Body Linearity – Antenna 1b

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Table 12-3
LTE Band 41 Body Linearity Data – Antenna 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.30	17.90
Measured Output Power (dBm)	14.91	16.67
Measured SAR (W/kg)	0.703	0.696
Measured Power (mW)	30.97	46.45
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	19.61	20.11
% deviation from expected linearity		-3.49%

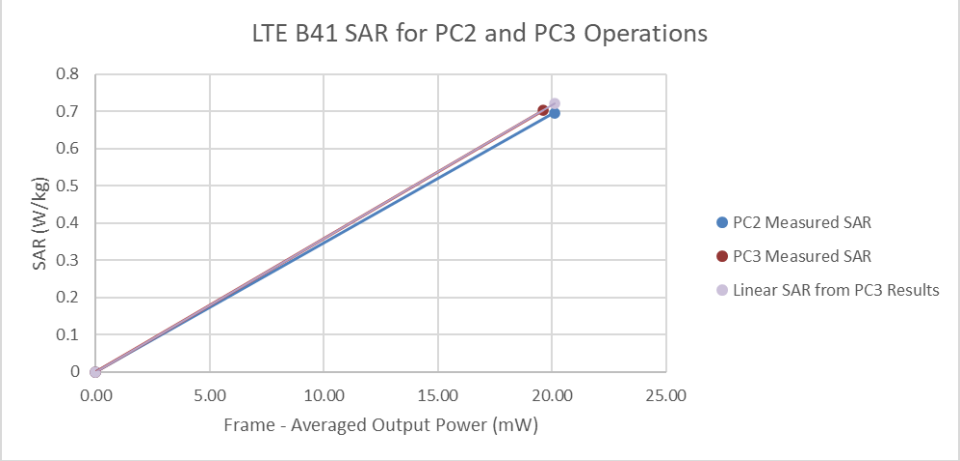

Figure 13-3
LTE Band 41 Body Linearity – Antenna 2b

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Table 12-4
LTE Band 41 ULCA Body Linearity Data – Antenna 2b

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.30	17.90
Measured Output Power (dBm)	15.19	16.70
Measured SAR (W/kg)	0.751	0.714
Measured Power (mW)	33.04	46.77
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	20.91	20.25
% deviation from expected linearity		-1.83%

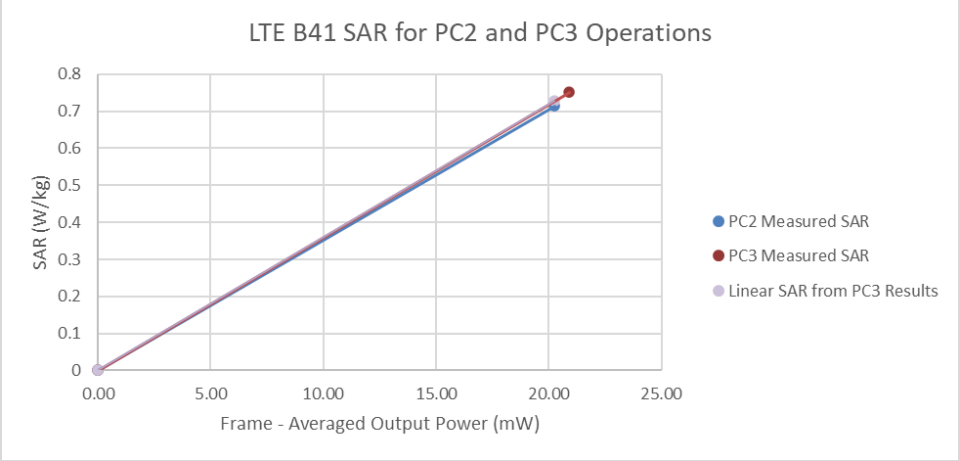

Figure 13-4
LTE Band 41 ULCA Body Linearity – Antenna 2b

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Table 12-5
LTE Band 41 Body Linearity Data – Antenna 3a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.80	15.40
Measured Output Power (dBm)	12.75	14.34
Measured SAR (W/kg)	0.777	0.770
Measured Power (mW)	18.84	27.16
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	11.92	11.76
% deviation from expected linearity		0.46%

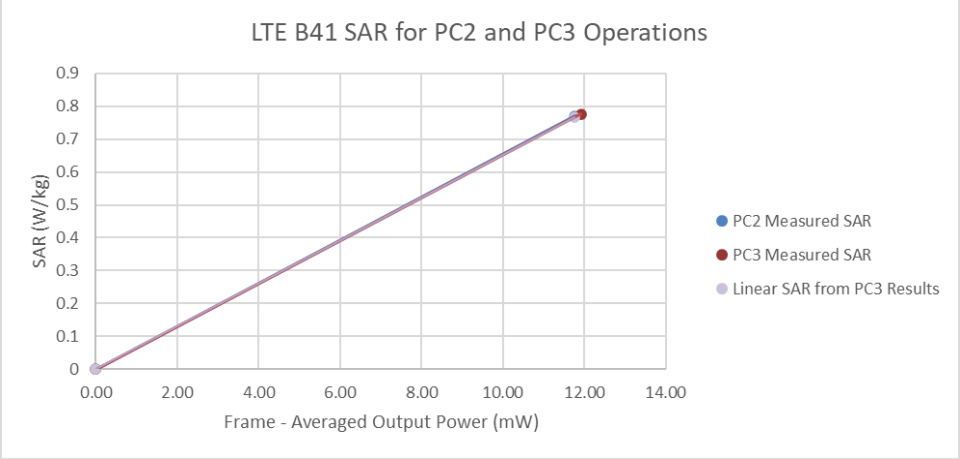

Figure 13-5
LTE Band 41 Body Linearity – Antenna 3a

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Table 12-6
LTE Band 41 ULCA Body Linearity Data – Antenna 3a

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	13.80	15.40
Measured Output Power (dBm)	12.48	14.08
Measured SAR (W/kg)	0.730	0.728
Measured Power (mW)	17.70	25.59
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	11.20	11.08
% deviation from expected linearity		0.86%

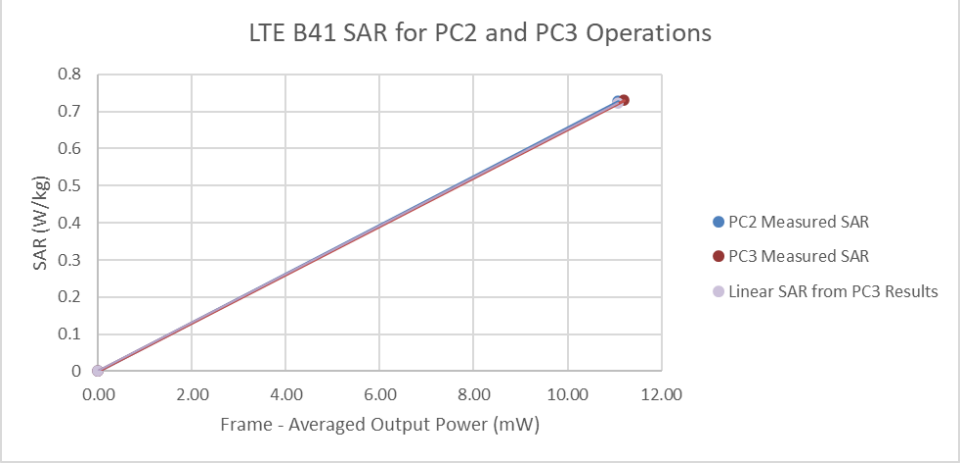

Figure 13-6
LTE Band 41 ULCA Body Linearity – Antenna 3a

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Table 12-7
LTE Band 41 Body Linearity Data – Antenna 4

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.90	16.50
Measured Output Power (dBm)	13.74	15.32
Measured SAR (W/kg)	0.745	0.670
Measured Power (mW)	23.66	34.04
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	14.98	14.74
% deviation from expected linearity		-8.62%

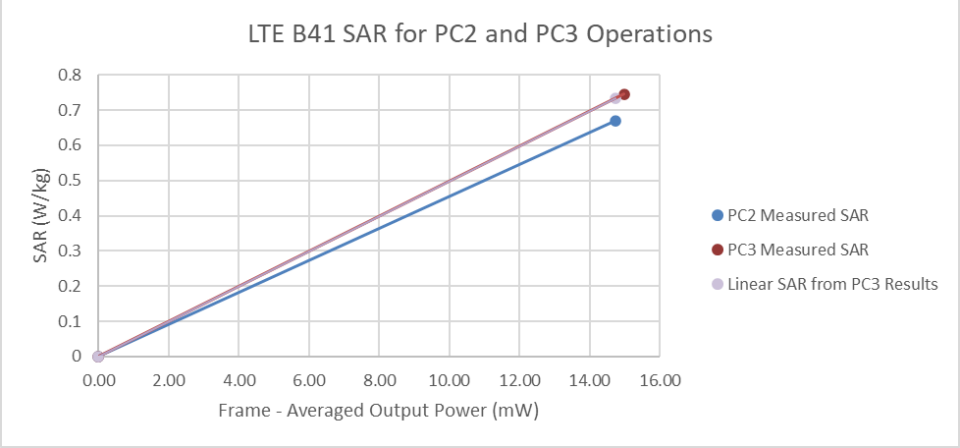

Figure 13-7
LTE Band 41 Body Linearity – Antenna 4

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Table 12-8
LTE Band 41 ULCA Body Linearity Data – Antenna 4

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	14.90	16.50
Measured Output Power (dBm)	14.01	15.34
Measured SAR (W/kg)	0.764	0.713
Measured Power (mW)	25.18	34.20
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	15.94	14.81
% deviation from expected linearity		0.44%

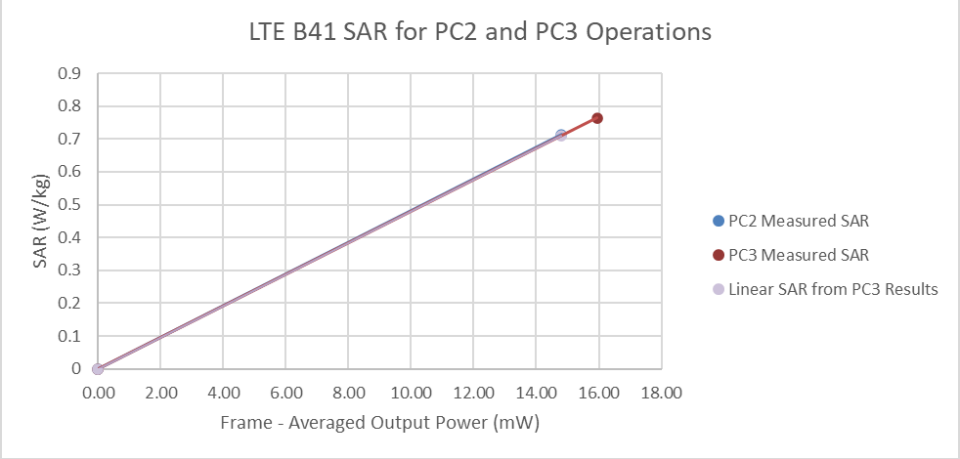

Figure 13-8
LTE Band 41 ULCA Body Linearity – Antenna 4

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13 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	10/23/2024	Annual	10/23/2025	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	3/25/2024	Annual	3/25/2025	MY47270002
Agilent	N5182A	MXG Vector Signal Generator	7/9/2024	Annual	7/9/2025	MY48180366
Agilent	N5182A	MXG Vector Signal Generator	3/7/2024	Annual	3/7/2025	MY47420603
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/10/2024	Annual	1/10/2025	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	US41140256
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	7/15/2024	Annual	7/15/2025	1138001
Anritsu	ML2496A	Power Meter	6/24/2024	Annual	6/24/2025	1840005
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	12/15/2023	Annual	12/15/2024	6200901190
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	5/15/2024	Annual	5/15/2025	6262150047
Anritsu	MT8000A	Radio Communication Test Station	4/23/2024	Annual	4/23/2025	6272337439
Anritsu	MT8000A	Radio Communication Test Station	5/14/2024	Annual	5/14/2025	6272337419
Anritsu	MA24106A	USB Power Sensor	7/10/2024	Annual	7/10/2025	1827530
Anritsu	MA24106A	USB Power Sensor	12/4/2023	Annual	12/4/2024	1520501
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Mitutoyo	500-196-30	CD-6"ASX 6inch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Keysight Technologies	N9020A	MXA Signal Analyzer	7/8/2024	Annual	7/8/2025	MY48010233
Agilent	N9020A	MXA Signal Analyzer	6/14/2024	Annual	6/14/2025	MY56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/10/2024	Annual	7/10/2025	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	4/2/2024	Biennial	4/2/2026	1262
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/10/2024	Annual	1/10/2025	131453
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	7/8/2024	Annual	7/8/2025	166818
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/5/2024	Annual	11/5/2025	1277
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/7/2024	Annual	8/7/2025	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/11/2024	Annual	3/11/2025	1102
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	8/6/2024	Annual	8/6/2025	1004
SPEAG	D1750V2	1750 MHz SAR Dipole	9/6/2023	Biennial	9/6/2025	1104
SPEAG	D1750V2	1750 MHz SAR Dipole	5/10/2022	Triennial	5/10/2025	1083
SPEAG	D1900V2	1900 MHz SAR Dipole	9/7/2023	Biennial	9/7/2025	5d181
SPEAG	D2300V2	2300 MHz SAR Dipole	3/11/2024	Annual	3/11/2025	1038
SPEAG	D2450V2	2450 MHz SAR Dipole	5/11/2022	Triennial	5/11/2025	750
SPEAG	D2450V2	2450 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	855
SPEAG	D2600V2	2600 MHz SAR Dipole	5/11/2022	Triennial	5/11/2025	1042
SPEAG	D3500V2	3500 MHz SAR Dipole	6/10/2024	Annual	6/10/2025	1126
SPEAG	D3700V2	3700 MHz SAR Dipole	6/10/2024	Annual	6/10/2025	1097
SPEAG	D3900V2	3900 MHz SAR Dipole	12/21/2023	Annual	12/21/2024	1062
SPEAG	D5GHzV2	5 GHz SAR Dipole	6/12/2024	Annual	6/12/2025	1163
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	10/10/2024	Annual	10/10/2025	1019
SPEAG	D750V3	750 MHz SAR Dipole	9/13/2023	Biennial	9/13/2025	1097
SPEAG	D750V3	750 MHz SAR Dipole	5/16/2022	Triennial	5/16/2025	1057
SPEAG	D835V2	835 MHz SAR Dipole	5/16/2022	Triennial	5/16/2025	460
SPEAG	CLA13	Confined Loop Antenna	11/11/2024	Annual	11/11/2025	1004
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/9/2024	Annual	4/9/2025	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/6/2024	Annual	3/6/2025	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/4/2024	Annual	9/4/2025	1684
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/8/2024	Annual	8/8/2025	1681
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/4/2024	Annual	9/4/2025	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/8/2024	Annual	5/8/2025	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2024	Annual	4/10/2025	1402
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/8/2024	Annual	5/8/2025	1683
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/3/2024	Annual	9/3/2025	1646
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/9/2024	Annual	4/9/2025	1582
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/8/2024	Annual	5/8/2025	1676
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/9/2024	Annual	2/9/2025	467
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/9/2024	Annual	10/9/2025	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/6/2024	Annual	3/6/2025	534
SPEAG	EX3DV4	SAR Probe	9/2/2024	Annual	9/2/2025	7308
SPEAG	EX3DV4	SAR Probe	9/9/2024	Annual	9/9/2025	7639
SPEAG	EX3DV4	SAR Probe	3/11/2024	Annual	3/11/2025	7421
SPEAG	EX3DV4	SAR Probe	5/13/2024	Annual	5/13/2025	7682
SPEAG	EX3DV4	SAR Probe	9/9/2024	Annual	9/9/2025	3949
SPEAG	EX3DV4	SAR Probe	4/16/2024	Annual	4/16/2025	7357
SPEAG	EX3DV4	SAR Probe	4/16/2024	Annual	4/16/2025	7546
SPEAG	EX3DV4	SAR Probe	5/13/2024	Annual	5/13/2025	7552
SPEAG	EX3DV4	SAR Probe	9/4/2024	Annual	9/4/2025	7668
SPEAG	EX3DV4	SAR Probe	2/9/2024	Annual	2/9/2025	7427
SPEAG	EX3DV4	SAR Probe	5/13/2024	Annual	5/13/2025	7416
SPEAG	EX3DV4	SAR Probe	4/16/2024	Annual	4/16/2025	7532
SPEAG	EX3DV4	SAR Probe	9/12/2024	Annual	9/12/2025	7782
SPEAG	EUmmWV4	EUmmWV4 Probe	4/8/2024	Annual	4/8/2025	9487

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

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14 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	E.2.1	9.3	N	1	1	1	9.3	9.3	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.732	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				13.8	13.6	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)			k=2				27.6	27.1	

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

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Applicable for Power Density measurements:

a	b	c	d	e	f = c x f/e	g
Uncertainty Component	Unc. (± dB)	Prob. Dist.	Div.	c_i	u_i (± dB)	v_i
Measurement System						
Calibration	0.49	N	1	1	0.49	∞
Probe Correction	0.00	R	1.73	1	0.00	∞
Frequency Response	0.20	R	1.73	1	0.12	∞
Sensor Cross Coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe Scattering	0.00	R	1.73	1	0.00	∞
Probe Positioning offset	0.30	R	1.73	1	0.17	∞
Probe Positioning Repeatability	0.04	R	1.73	1	0.02	∞
Sensor Mechanical Offset	0.00	R	1.73	1	0.00	∞
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field 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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15 CONCLUSION

15.1 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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